



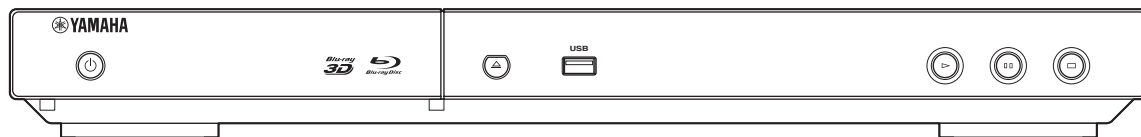
Blu-ray Disc Player

# BD-S473


**Инструкция по эксплуатации**  
**Owner's Manual**


Русский

English



# Предупреждение: внимательно прочитайте это перед использованием аппарата.

- 1 Для обеспечения наилучшего результата, пожалуйста, внимательно прочитайте данную инструкцию. Храните ее в безопасном месте для будущих справок.
- 2 Данный аппарат следует устанавливать в хорошо проветриваемом, прохладном, сухом месте, вдали от прямого воздействия солнечных лучей, источников тепла, вибрации, пыли, влаги и/или холода. Для надлежащей вентиляции необходимо обеспечить следующие минимальные просветы.  
Сверху: 10 см  
Сзади: 10 см  
По сторонам: 10 см
- 3 Во избежание шумов и помех, данный аппарат следует размещать на некотором расстоянии от других электрических приборов, двигателей или трансформаторов.
- 4 Во избежание накопления влаги внутри данного аппарата, что может вызвать электрошок, пожар, привести к поломке данного аппарата, и/или представлять телесное повреждение, не следует размещать данный аппарат в среде, подверженной резким изменениям температуры с холодной на жаркую, или в среде с повышенной влажностью (например, в комнате с увлажнителем воздуха).
- 5 Не устанавливайте данный аппарат в местах, где есть риск падения других посторонних объектов на данный аппарат и/или где данный аппарат может подвергнуться попаданию капель брызг жидкостей. На крышке данного аппарата, не следует располагать:
  - Другие компоненты, так как это может привести к поломке и/или обесцвечиванию поверхности данного аппарата.
  - Горящие объекты (например, свечи), так как это может привести к пожару, поломке данного аппарата и/или представлять телесное повреждение.
  - Емкости с жидкостями, так как при их падении жидкости могут вызвать поражение пользователя электрическим током и/или привести к поломке данного аппарата.
- 6 Во избежание прерывания охлаждения данного аппарата, не следует покрывать данный аппарат газетой, скатертью, занавеской и т.д. Повышение температуры внутри данного аппарата может привести к пожару, поломке данного аппарата и/или представлять телесное повреждение.
- 7 Пока все соединения не завершены, не следует подключать данный аппарат к розетке.
- 8 Не используйте данный аппарат, установив его верхней стороной вниз. Это может привести к перегреву и возможной поломке.
- 9 Не применяйте силу по отношению к переключателям, ручкам и/или проводам.
- 10 При отсоединении силового кабеля питания от розетки, вытягивайте его, удерживая за вилку; ни в коем случае не тяните кабель.
- 11 Не применяйте различные химические составы для очистки данного аппарата; это может привести к разрушению покрывающего слоя. Используйте чистую сухую ткань.
- 12 Используйте данный аппарат с соблюдением напряжения, указанном на данном аппарате. Использование данного аппарата при более высоком напряжении, превышающем указанное, является опасным, и может стать причиной пожара, поломки данного аппарата, и/или представлять телесное повреждение. Yamaha не несет ответственности за любую поломку или ущерб вследствие использования данного аппарата при напряжении, не соответствующем указанному напряжению.
- 13 Во избежание поломки от молнии, отключите силовой кабель питания от розетки во время электрической бури.
- 14 Не пробуйте модифицировать или починить данный аппарат. При необходимости свяжитесь с квалифицированным сервисным центром Yamaha. Корпус аппарата не должен открываться ни в коем случае.
- 15 Если вы не собираетесь использовать данный аппарат в течение продолжительного промежутка времени (например, во время отпуска), отключите силовой кабель переменного тока от розетки.
- 16 Перед тем как прийти к заключению о поломке данного аппарата, обязательно изучите раздел “Устранение неисправностей”, описывающий часто встречающиеся ошибки во время использования.
- 17 Перед перемещением данного аппарата, установите данный аппарат в режим ожидания нажатием кнопки , и отсоедините силовой кабель переменного тока от розетки.
- 18 При внезапном изменении окружающей температуры образовывается конденсация. Отсоедините силовой кабель питания от сети и не пользуйтесь аппаратом.
- 19 Аппарат может нагреваться при его продолжительном использовании. Отключите питание, затем дайте аппарату остыть.
- 20 Данный аппарат следует устанавливать возле розетки переменного тока, куда можно свободно протянуть силовой кабель.
- 21 Батарейки не должны подвергаться нагреву от солнечных лучей, огня или похожих источников.

Данный аппарат считается не отключенным от источника переменного тока все то время, пока он подключен к розетке, даже если данный аппарат находится в выключенном положении через . Данное положение является режимом ожидания. В этом режиме электропотребление данного аппарата снижается до минимума.

## ПРЕДУПРЕЖДЕНИЕ

**ВО ИЗБЕЖАНИЕ ПОЖАРА ИЛИ УДАРА ЭЛЕКТРИЧЕСКИМ ТОКОМ НЕ ПОДВЕРГАЙТЕ ДАННЫЙ АППАРАТ ВОЗДЕЙСТВИЯМ ДОЖДЯ ИЛИ ВЛАГИ.**

Лазерный компонент данного изделия может выделять радиацию, превышающую ограниченный уровень радиации для Класса 1.

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## ■ Об этом руководстве

- В данном руководстве описывается управление проигрывателем с помощью пульта дистанционного управления за исключением случаев, когда такой тип управления недоступен. Некоторые из описанных действий можно также выполнять с помощью кнопок на передней панели.
- Примечания содержат важную информацию о безопасности и инструкции по эксплуатации. Советы содержат полезную информацию для работы с устройством.
- Это руководство отпечатано до производства устройства. Конструкция и технические характеристики могут быть частично изменены в результате усовершенствований и т.д. В случае различий между руководством и устройством приоритет имеет устройство.

## Значки, используемые в данном руководстве

Значки используются для обозначения доступных для определенного формата кнопок или функций. Для получения дополнительной информации о типах дисков и форматах, которые можно воспроизвести, см. стр. 3.

<b>BD</b>	: BD-Видео
<b>DVD</b>	: DVD-Видео, DVD-VR, DVD+VR
<b>CD</b>	: Аудио CD
<b>VIDEO</b>	: Видеофайлы
<b>MUSIC</b>	: Аудиофайлы
<b>PHOTO</b>	: Файлы фотографий

## Возможности этого проигрывателя

**Простая настройка языка, разрешения, соотношения сторон экрана** ➔ стр. 12

Можно выполнить настройки языка и телевизора.

**Воспроизведение доступных в продаже дисков Blu-ray Disc™/Blu-ray 3D™/DVD/CD\*** ➔ стр. 17

Кроме дисков Blu-ray, на этом проигрывателе можно воспроизводить множество других дисков.

**Воспроизведение BONUSVIEW™, BD-Live™ и т.д.\*** ➔ стр. 20

Можно просмотреть дополнительные фильмы, содержащиеся на последних дисках Blu-ray.

**Воспроизведение видеофайлов, музыкальных файлов или файлов фотографий, содержащихся на диске или устройстве памяти USB\*** ➔ стр. 13

На этом проигрывателе можно воспроизвести файлы, записанные на диски или устройства памяти USB.

**Воспроизведение видеофайлов, музыкальных файлов или файлов фотографий, содержащихся на сервере домашней сети\*\* \*\*** ➔ стр. 15

Можно воспроизвести содержимое ПК с помощью телевизора или аудио/видео ресивера, подсоединив этот проигрыватель к серверу сети.

**Управление телевизором, аудио/видео ресивером и т.д. с помощью прилагаемого пульта дистанционного управления** ➔ стр. 24

Соединив устройства кабелем HDMI, можно управлять ими с одного пульта дистанционного управления с помощью функции “HDMI контроль”.

**Распределение содержимого воспроизведения по сетевым службам\*\*** ➔ стр. 16

С помощью этого проигрывателя можно мгновенно воспроизводить видео через Интернет.

\* Для получения дополнительной информации о типах дисков и форматах, которые можно воспроизвести, см. стр. 3.

\*\* Для использования этой функции необходимо выполнить настройки сети.

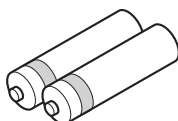
## Прилагаемые компоненты

Убедитесь, что к изделию прилагаются следующие аксессуары.

Пульт  
дистанционного



Батарейки (×2)  
(AAA, R03, UM-4)



## ■ Типы дисков/файлов, которые можно использовать с этим проигрывателем

- На этом проигрывателе можно воспроизводить диски диаметром 12 см и 8 см. Не используйте адаптер 12 см для дисков 8 см.
- Используйте диски, соответствующие совместимым стандартам, что обозначается наличием официальных логотипов на этикетке диска. Воспроизведение дисков, не соответствующих данным стандартам, не гарантируется. Кроме того, не гарантируется качество изображения или качество звука даже в том случае, если данные диски могут быть воспроизведены.

Тип носителя	Формат записи
BD-ROM/BD-R/BD-RE	BD-Video/файлы с данными
DVD-ROM	DVD-Video
DVD-R/DVD-R DL/DVD-RW	DVD-Video/DVD-VR/AVCHD/файлы с данными
DVD+R/DVD+R DL/DVD+RW	DVD-Video/DVD+VR/AVCHD/файлы с данными
CD-ROM	CDDA/HDCD
CD-R/CD-RW	CDDA/файлы с данными
USB*	Файлы с данными
DLNA	Файлы с данными

\* Этот проигрыватель совместим с устройствами памяти USB, отформатированными в файловой системе FAT 16/32 и NTFS.

Поддерживаемые форматы аудио-файлов <b>MUSIC</b>	Поддерживаемые форматы видео-файлов <b>VIDEO</b>	Поддерживаемые форматы файлов фотографий <b>PHOTO</b>
MP3 (.mp3) WMA (.wma) AAC (.aac/m4a) WAV (.wav) FLAC (.flac)	MKV с H.264 (.mkv) MPEG PS (.mpeg/.mpg) MPEG TS (.ts) MPEG-4 (.mp4) VOB (.vob) AVI (.avi) ASF (.asf) WMV (.wmv)	JPEG (.jpeg/.jpg) GIF (.gif) PNG (.png)



### Примечания

- Воспроизведение файлов, перечисленных в списке, не гарантируется в зависимости от способов создания файла или использованных кодеков.
- Файлы, защищенные авторским правом, не удастся воспроизвести.
- При использовании носителя DLNA файл должен соответствовать требованию сервера DLNA.

## Информация о выборе региона для видеформата Blu-ray Disc/DVD

- Видеопроеигрыватели и диски Blu-ray Disc/DVD имеют региональные коды, указывающие регионы, в которых диск может быть воспроизведен. Проверьте метку с кодом региона на задней панели проигрывателя.
- Для воспроизведения диска Blu-ray Disc требуется проигрыватель с таким же кодом региона, для которого предназначен диск, или с кодом региона “ABC”.

- Для воспроизведения диска DVD требуется проигрыватель с таким же кодом региона, для которого предназначен диск, или с кодом региона “ALL”.

Примеры кодов региона	
BD-Video	DVD-Video
Код региона “A” или “ABC” 	Код региона “1” или “ALL” 

### Примечания

- Операции с видеодисками Blu-ray Disc/DVD могут отличаться от пояснений в данном руководстве, а некоторые операции могут быть запрещены по установке изготовителя диска.
- Если во время воспроизведения диска появляется экран меню или инструкции по работе, следуйте указанному процессу.
- Воспроизведение некоторых дисков может быть невозможным в зависимости от диска.
- Все носители записи, воспроизводимые на этом проигрывателе, должны быть финализированы.
- “Финализация” означает обработку записываемого диска записывающим устройством, с тем, чтобы его можно было воспроизводить в других проигрывателях/записывающих устройствах, в том числе и с помощью данного проигрывателя. На данном проигрывателе можно воспроизвести только финализированные диски. (Этот проигрыватель не оснащен функцией финализации дисков.)
- Воспроизведение всех файлов на диске, устройстве памяти USB или в сети не гарантируется.
- Файл, защищенный авторским правом, не удастся воспроизвести с помощью устройства памяти USB или сети.

## Требование к аудиофайлу

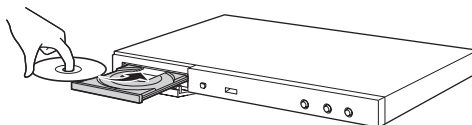
- Частота дискретизации: в пределах 32–48 кГц (MP3/WMA), LPCM 44,1 кГц/16 бит/стерео (WAV), 192 кГц/24 бит (FLAC)
- Битрейт: в пределах 8–320 кбит/с (MP3), 32–192 кбит/с (WMA)

## Требования к файлу WMV

- WMV9 с максимальным разрешением 1920 × 1080.

## ■ Загрузка диска

- Диск должен быть расположен таким образом, чтобы этикетка была наверху.
- В случае, если диск записан с обеих сторон, разместите его так, чтобы сторона для воспроизведения была внизу.



Продолжение на следующей ➔

**Примечания**

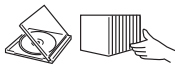

- В зависимости от диска и настроек проигрывателя воспроизведение может начаться автоматически.
- В зависимости от диска сначала может появиться меню.
- Время загрузки диска может варьировать в зависимости от диска.

## ■ Меры предосторожности при обращении с диском

### Не допускайте появления царапин и попадания пыли

- Диски Blu-ray Disc, DVD и CD чувствительны к пыли, отпечаткам пальцев и особенно к царапинам. Поцарапанные диски не могут воспроизводиться. Обращайтесь с дисками осторожно и храните их в безопасном месте.

### Правильное хранение дисков

Поместите диск в центр футляра для диска и храните их в вертикальном положении.	
Не хранить диски в местах, подверженных попаданию прямых солнечных лучей, рядом с нагревательными приборами или в местах с высокой влажностью.	
Не роняйте диски и не подвергайте их сильной вибрации или ударам.	
Не храните диски в местах с высоким содержанием пыли или повышенной влажностью.	

### Меры предосторожности при очистке



- Если поверхность загрязнена, осторожно вытрите ее мягкой, увлажненной (только водой) тканью. Протирая диски, всегда проводите тканью от центрального отверстия по направлению к внешнему краю.
- Не используйте аэрозоли для стирания надписей, бензин, обрабатывающие средства, жидкость для снятия статического электричества или любые другие растворители.
- Старайтесь не прикасаться к поверхности.
- Не приклеивайте на диск бумагу или наклейки.
- Если рабочая поверхность диска загрязнена или поцарапана, проигрыватель может воспринять его, как несовместимый, и открыть лоток диска, или может воспроизвести диск, но неправильно. Сотрите мягкой тканью грязь с рабочей поверхности.

### Очистка считывающей линзы

- Ни в коем случае не используйте имеющиеся в продаже очищающие диски. Использование этих дисков может привести к повреждению линзы.
- Для очистки линзы обратитесь в ближайший сервисный центр, официально рекомендованный компанией Yamaha.

## ■ Примечание по просмотру видеоизображений в формате 3D

- Некоторые люди могут испытывать дискомфорт (например, напряжение глаз, утомление или тошнота) при просмотре видеоизображений в формате 3D. Мы рекомендуем всем зрителям делать регулярные перерывы при просмотре видеоизображений в формате 3D.
- Если вы испытываете какой-либо дискомфорт, прекратите просмотр видеоизображений в формате 3D, пока дискомфорт не пройдет. При наличии значительных неприятных ощущений обратитесь к врачу.
- Внимательно прочтите инструкции для владельца (на диске Blu-ray Disc и на экране телевизора) и/или предупреждающие сообщения на экране телевизора.
- Зрение маленьких детей (особенно детей младше шести лет) находится в стадии развития. Проконсультируйтесь с врачом (с педиатром или окулистом), прежде чем разрешать маленьким детям просмотр видеоизображений в формате 3D.
- Взрослые должны следить за маленькими детьми, чтобы гарантировать соблюдение представленных выше рекомендаций.

## ■ Технология Cinavia

- Технология Cinavia является частью системы защиты содержимого, встроенной в проигрыватель Blu-ray Disc.

### Примечание

- Проигрыватель дисков Blu-ray Disc может отобразить следующие сообщения или приостановить вывод изображения или звука при попытке воспроизведения несанкционированной копии содержимого с технологией защиты Cinavia.

Сообщения отображаются только на английском языке.

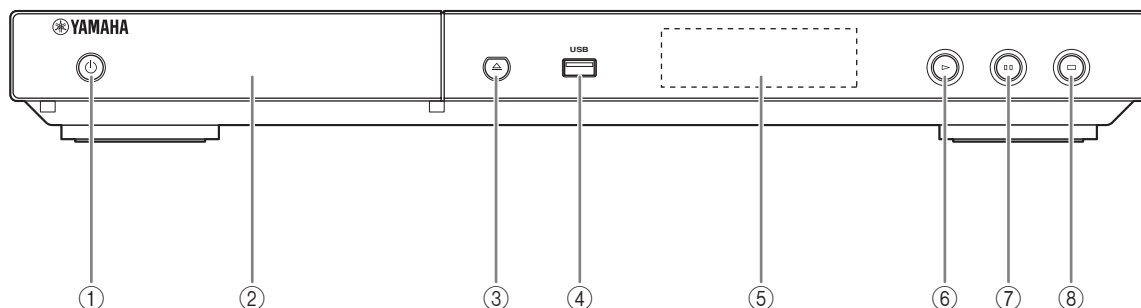
Остановка воспроизведения. Воспроизводимое содержание охраняется технологией Cinavia™ и не разрешено для воспроизведения на этом устройстве. За дополнительной информацией обращайтесь на веб-сайт <http://www.cinavia.com>. Код сообщения 1.

Аудиовыход временно приглушен. Не настраивайте громкость воспроизведения. Воспроизводимое содержание охраняется технологией Cinavia™ и не разрешено для воспроизведения на этом устройстве. За дополнительной информацией обращайтесь на веб-сайт <http://www.cinavia.com>. Код сообщения 3.

### Примечание относительно технологии Cinavia

В этом устройстве используется технология Cinavia, ограничивающая использование несанкционированных копий доступных в продаже фильмов, видеоматериалов и их звуковых дорожек. При обнаружении запрещенного использования несанкционированной копии на экране отобразится сообщение, и воспроизведение или копирование будет прервано. Для получения дополнительной информации о технологии Cinavia посетите веб-сайт Интерактивного информационного центра поддержки потребителей Cinavia по адресу <http://www.cinavia.com>. Чтобы запросить дополнительную информацию о технологии Cinavia по почте, отправьте почтовую карточку, указав на ней свой почтовый адрес, по адресу: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, США.

## ■ Передняя панель



### ① (Включение/Режим ожидания)

Включение проигрывателя/переход в режим ожидания. Нажмите и удерживайте кнопку на передней панели более 5 секунд, а затем отпустите, чтобы сбросить настройки проигрывателя (системный сброс).

### ② Дверца лотка для дисков

### ③ ▲ (Извлечение)

Открытие и закрытие лотка диска.

### ④ Разъем USB (стр. 11)

### ⑤ Дисплей передней панели

Отображение различной информации о состоянии выполняемых действий.

### ⑥ ► (Воспроизведение)

Начало воспроизведения.

### ⑦ ■■ (Пауза)

Приостановка воспроизведения.

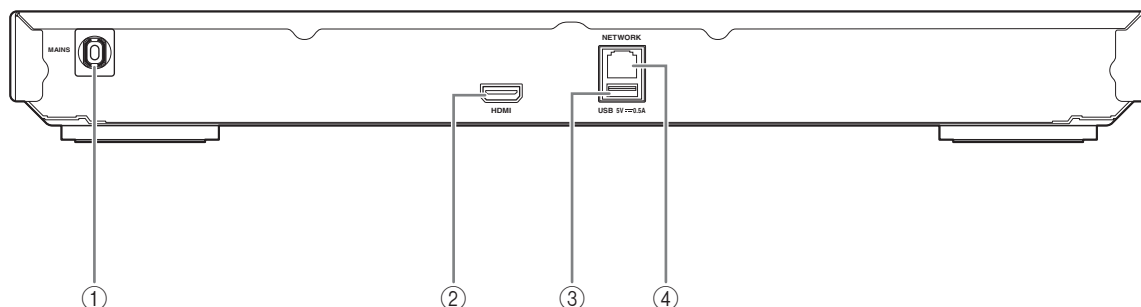
### ⑧ ■■ (Остановка)

Остановка воспроизведения.

### Примечание

- При поставке с завода передняя панель проигрывателя закрыта защитной пленкой. Перед началом работы с проигрывателем снимите защитную пленку.

## ■ Задняя панель



### ① Кабель питания

Проигрыватель оснащен встроенным кабелем питания. Прежде чем подключить его к розетке переменного тока, выполните предварительно все прочие подключения (стр. 10).

### ② Разъем HDMI (стр. 10)

### ③ Разъем USB (стр. 11)

### ④ Разъем NETWORK (стр. 11)

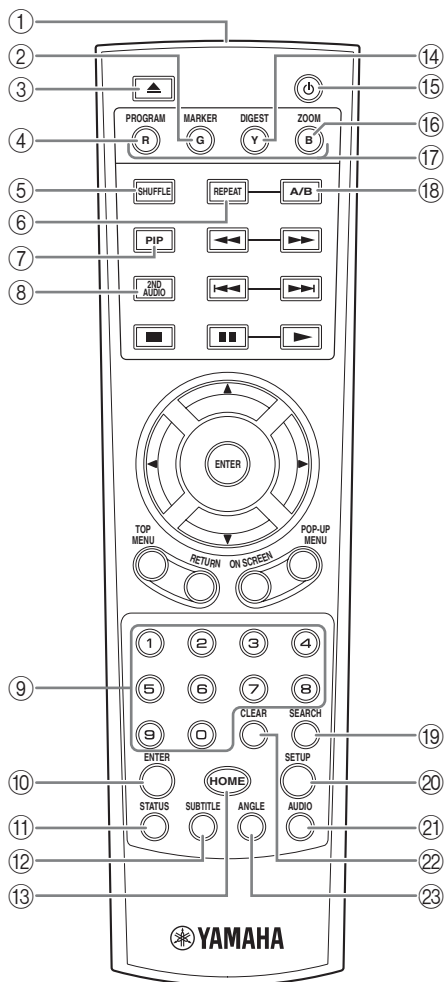
### Примечание

- Для предотвращения поражения электрическим током не прикасайтесь к неизолированным частям любых кабелей в то время, как кабель питания переменного тока подсоединен к розетке.

## ■ Пульт дистанционного управления

### Примечание

- отобразится в верхнем левом углу экрана при нажатии кнопки, которая недоступна.



- Передатчик инфракрасных сигналов:** Используется для вывода инфракрасного сигнала. Наведите его на датчик дистанционного управления (стр. 9).
- MARKER DVD VIDEO:** создается элемент “Закладка” (стр. 19) в выбранном месте фильма. После создания элемента “Закладка” нажмите кнопку **DIGEST**, чтобы выбрать установленную точку, к которой нужно перейти. Можно сохранить до 12 закладок.
- ▲:** Открытие и закрытие лотка диска.
- PROGRAM DVD CD:** Установка порядка воспроизведения (стр. 19). Можно установить до 15 дорожек (для аудиодиска) или заголовков/глав (DVD-Видео).
- SHUFFLE DVD CD VIDEO MUSIC PHOTO:** Выбор режима воспроизведения в случайном порядке (стр. 17).
- REPEAT BD DVD CD VIDEO MUSIC PHOTO:** Изменение режима повтора. Режимы повтора будут меняться при каждом нажатии кнопки, как показано далее.
  - : Повтор заголовка, воспроизводимого в данный момент.
  - : Повтор главы, воспроизводимой в данный момент.
  - : Повтор папки, воспроизводимой в данный момент.
  - : Повтор всех треков/файлов на диске.
  - : Повтор трека/файла, воспроизводимого в данный момент.
- PIP BD:** Включение/выключение функции “Картинка в картинке” (стр. 20). Если эта функция доступна, на экране отображается PIP метка (). Этот элемент можно также выбрать в экранном меню (стр. 17).

### Примечание

- PIP метка отображается, только если включен параметр “PIP метка” (стр. 25).

- 2ND AUDIO BD:** Выбор вторичного аудио функции “Картинка в картинке” (стр. 20) или аудиокментариев. На экране отображается Метка вторичного аудио (), если эта функция доступна (стр. 27). Этот элемент можно также выбрать в экранном меню (стр. 17).

### Примечание


- Метка вторичного аудио отображается, только если включен параметр “Метка вторичного аудио” (стр. 25).



- ⑨ **Цифровые кнопки:** Ввод цифр, а также во время воспроизведения переход к треку/главе, которая соответствует введенному числу. Работа этих кнопок зависит от типа диска и состояния воспроизведения.
- ⑩ **ENTER:** Подтверждение выбранного меню/элемента.
- ⑪ **STATUS:** Отображение информации о воспроизведении (стр. 18).
- ⑫ **SUBTITLE BD DVD VIDEO:** Изменение языка субтитров (стр. 35) (при наличии). Этот элемент можно также выбрать в экранном меню (стр. 17).
- ⑬ **HOME:** Отображение на экране меню HOME (стр. 13).
- ⑭ **DIGEST PHOTO:** Отображение 12 пиктограмм фотографий. При отображении пиктограмм не удастся перейти к следующей/предыдущей странице с помощью кнопок ◀◀/▶▶.
- DVD VIDEO:** Отображение панели выбора элементов “Закладка” (стр. 19).
- ⑮ **⏻:** Включение проигрывателя или перевод в режим ожидания.
- ⑯ **ZOOM DVD VIDEO PHOTO:** Увеличение или уменьшение. Размер экрана будет изменяться при каждом нажатии кнопки (увеличение/уменьшение: по 3 уровня для каждого).
- ⑰ **Цветные кнопки BD:** Используйте эти кнопки в соответствии с инструкциями на экране.
- ⑱ **A/B BD DVD CD VIDEO MUSIC:**  
Воспроизведение определенного участка, который требуется повторить.
  - 1 Нажмите **A/B** при просмотре момента, в котором требуется установить точку начала. На экране отобразится значок “A-”.
  - 2 Нажмите **A/B** еще раз при просмотре момента, в котором требуется установить точку окончания. На экране отобразится значок “A-B”. Начнется повторное воспроизведение.
  - 3 Чтобы отменить повторное воспроизведение, нажмите **A/B**. Значок “A-B” исчезнет, и повторное воспроизведение будет завершено.

**Примечание**

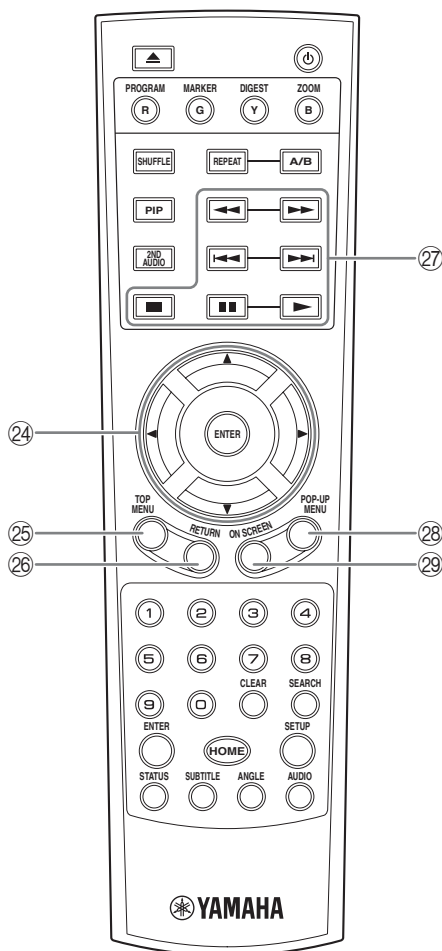
- Эту функцию, возможно, не удастся выполнить в зависимости от параметров диска.

- ⑲ **SEARCH BD DVD CD VIDEO MUSIC:**  
Быстрый переход к указанной точке во время воспроизведения. Для получения дополнительной информации об этой функции см. раздел “Использование поиска” (стр. 19). Этот элемент можно также выбрать в меню состояния (стр. 18).
- ⑳ **SETUP:** Отображение на экране меню УСТАНОВКИ (стр. 21).
- ㉑ **AUDIO BD DVD:** Изменение языка звучания или формата аудио. Этот элемент можно также выбрать в экранном меню (стр. 17).
- ㉒ **CLEAR:** Удаление введенного номера или установленного элемента.
- ㉓ **ANGLE BD DVD:** Изменение угла камеры, если видео записано с разными углами зрения. Если эта функция доступна, на экране отображается Угловая метка (). Этот элемент можно также выбрать в экранном меню (стр. 17).

**Примечание**

- Угловая метка отображается, только если включен параметр “Угловая метка” (стр. 25).

**Продолжение на следующей ➔**



- ②4 **Кнопки управления курсором (▲/▼/◀/▶):**  
Используются для перемещения по экрану меню.  
**ENTER:** подтверждение выбранного меню/элемента.

- ②5 **TOP MENU** **BD** **DVD**: Отображение на экране главного меню, если оно имеется на диске. Выберите требуемый элемент с помощью кнопок ▲/▼/◀/▶ и нажмите **ENTER**.

#### Примечание

– В зависимости от диска некоторые операции могут отличаться. Следуйте указаниям на экранах меню.

- ②6 **RETURN:** Возврат к предыдущему меню или экрану и т.д.

- ②7 **Кнопки управления**

**BD DVD CD VIDEO MUSIC PHOTO**

■: Остановить воспроизведение. Для полной остановки воспроизведения нажмите эту кнопку дважды.

■: Пауза в воспроизведении.

▶: Воспроизведение содержимого.

◀/▶

**BD DVD CD VIDEO MUSIC:**

Поиск вперед/назад. Скорость поиска будет меняться при каждом нажатии кнопки (поиск назад/поиск вперед: по 5 уровней для каждого). Нажмите ▶ для возобновления обычного воспроизведения.

**PHOTO:** Изменение скорости слайд-шоу (медленнее/быстрее: 3 уровня).

◀/▶: пропуск назад/вперед.

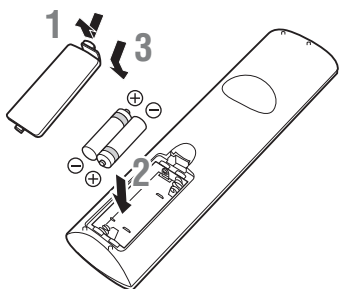
#### Примечание

– Проигрыватель возобновит воспроизведение с того места, где произошла остановка, в зависимости от диска. Для воспроизведения с начала дважды нажмите ■, а затем ▶.

- ②8 **POP-UP/MENU** **BD** **DVD**: Отображение всплывающего меню. Содержание появившегося меню изменяется в зависимости от диска. Для получения дополнительной информации об управлении всплывающим меню обратитесь к руководству пользователя диска. В зависимости от диска DVD, главное меню можно вывести на экран, нажав кнопку **POP-UP/MENU**.

- ②9 **ON SCREEN:** Отображение экранного меню (стр. 17).

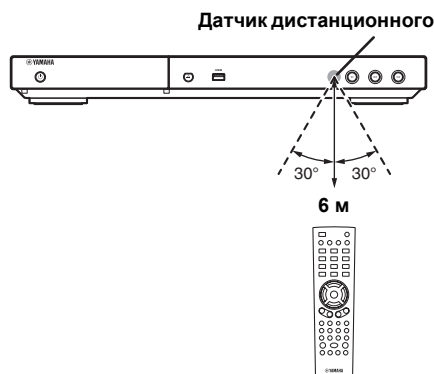
## Установка батарей в пульт дистанционного управления



### Примечания

- В случае уменьшения рабочего диапазона пульта дистанционного управления замените обе батарейки.
- Используйте батарейки типа AAA, R03, UM-4.
- При установке батареек соблюдайте полярность. См. изображение внутри отсека для батареек.
- Извлеките батарейки, если пульт дистанционного управления не будет использоваться в течение длительного периода времени.
- Не используйте старые батарейки вместе с новыми.
- Не используйте вместе батарейки разного типа (например, щелочные и марганцевые). Внимательно прочитайте информацию на упаковке, так как батарейки разного типа могут иметь одинаковую форму и цвет.
- Если батарейка начала протекать, незамедлительно утилизируйте ее. Не прикасайтесь к вытекшему электролиту и не допускайте его попадания на одежду и т.п. Перед установкой новых батареек тщательно очистите отсек для батареек.
- Не выбрасывайте батарейки вместе с бытовыми отходами. Утилизируйте их в соответствии с местным законодательством.
- Не давайте батарейки детям. Если ребенок случайно проглотил батарейку, незамедлительно обратитесь к врачу.
- Если пульт дистанционного управления не будет использоваться в течение длительного времени, извлеките из него батарейки.
- Не заряжайте и не разбирайте прилагаемые батарейки.

## Приблизительный диапазон работы пульта дистанционного управления



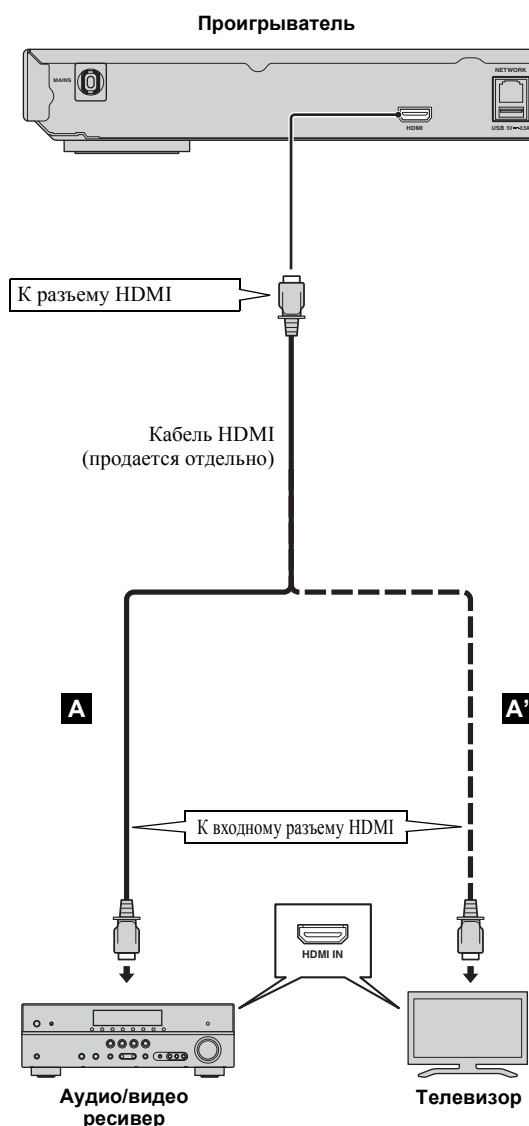
# Подключение HDMI

## ■ Подключение к разъему HDMI

- Можно воспроизводить высококачественное цифровое изображение и звук с помощью разъема HDMI.
- Надежно подключите кабель HDMI (продается отдельно) к разъему HDMI.
- См. стр. 28 для получения информации о форматах аудио/видео для вывода.
- Используйте кабели HIGH SPEED HDMI, имеющие логотип HDMI (как указано на последней странице обложки).

## Предупреждение!

**Не подключайте кабель питания проигрывателя, пока не завершены все подключения.**



## Советы

- При использовании функции “HDMI контроль” см. раздел “HDMI контроль” (стр. 24).
- Для получения информации о режиме вывода разъема HDMI см. раздел “HDMI” (стр. 27).
- Если изображение не появилось, см. раздел “Устранение неисправностей” (стр. 32).

## ■ Подключение для воспроизведения дисков Blu-ray 3D

Для воспроизведения дисков Blu-ray 3D с помощью этого проигрывателя требуется следующее оборудование и подключения.

- Телевизор и аудио/видео ресивер (если требуется) с функцией 3D.
- Все компоненты должны быть подключены с помощью кабелей HDMI.
- Диск Blu-ray Disc должен содержать изображения в формате 3D.
- Необходимо установить для параметра “3D Выход” в меню “Настройка дисплея” (стр. 26) значение Авто.

### ■ Подключение к разъему NETWORK

- Можно воспроизвести содержимое ПК, подключив проигрыватель к сети.
- Можно воспроизвести разнообразное содержимое с интерактивными функциями, подключившись к сети Интернет во время воспроизведения BD-Live-совместимых дисков. Для получения дополнительной информации о функциях BD-Live см. стр. 20.

#### Примечания

- Надежно подключите сетевой кабель (продается отдельно) к разъему NETWORK.
- Используйте для этой цели только сетевой кабель типа STP (экранированная витая пара).
- При использовании Интернет требуется широкополосный доступ в Интернет, как показано ниже.
- Другой конец сетевого кабеля подключите к концентратору или широкополосному маршрутизатору.
- При использовании широкополосного доступа в Интернет необходим договор с провайдером услуг Интернет. Для получения более подробной информации обратитесь к ближайшему провайдеру услуг Интернет.
- Обратитесь к руководству пользователя данного оборудования, так как подключаемое оборудование и метод подключения могут различаться в зависимости от имеющейся инфраструктуры Интернет.
- Используйте сетевой кабель/маршрутизатор, поддерживающий 10BASE-T/100BASE-TX.

### ■ Подключение к разъему USB

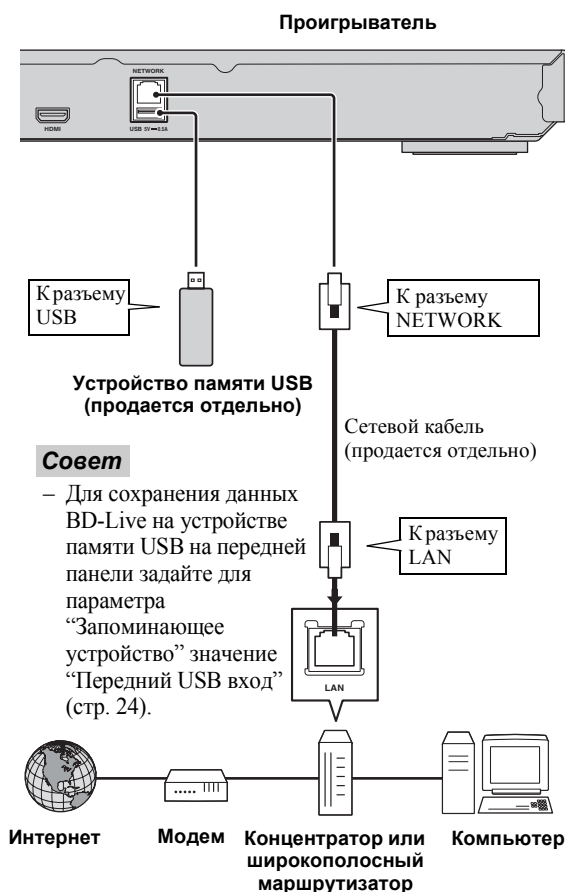
- Можно подключить устройство памяти USB в качестве устройства “Запоминающее устройство” к разъему USB на задней панели (или на передней панели) проигрывателя, чтобы сохранить данные BD-Live или обновить программное обеспечение проигрывателя.
- Надежно подключите устройство памяти USB (продается отдельно) к разъему USB.

#### ПРЕДУПРЕЖДЕНИЕ!

- Не извлекайте устройство памяти USB и не вынимайте кабель питания из розетки во время выполнения операций для BD-Live (стр. 20) или обновления программного обеспечения.
- Не используйте удлинительный кабель USB при подключении устройства памяти USB к разъему USB проигрывателя. Использование удлинительного кабеля USB может помешать правильной работе проигрывателя.

#### Примечание

- Компания Yamaha не может гарантировать, что устройства памяти USB всех марок будут работать с данным проигрывателем.



#### После подключения

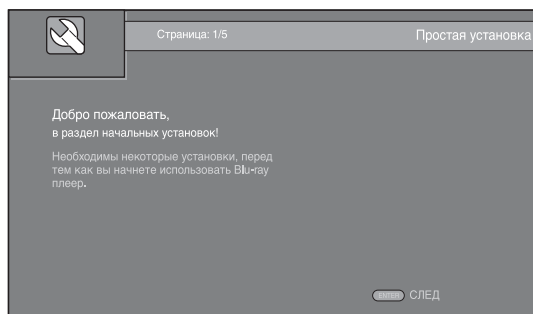
- При выполнении настроек параметра “Сеть” вручную см. раздел “Сеть” (стр. 25).
- Чтобы воспроизвести содержимое ПК по сети, см. раздел “Использование содержимого сети” (стр. 15).

## Начальные установки/Простая установка

### ■ Настройки с помощью функции “Начальные установки”/“Простая установка”

Функции “Начальные установки”/“Простая установка” позволяют легко установить язык, разрешение и соотношения сторон. Экран “Начальные установки” отображается при первом включении проигрывателя после покупки. Эти же настройки можно выполнить из меню УСТАНОВКИ → Система → Простая установка.

- 1 Когда отображается экран “Простая установка”, нажмите кнопку **ENTER**, чтобы запустить функцию “Простая установка”.



- 2 Настройте язык, разрешение и соотношение сторон экрана, следуя указаниям на экране.

#### Примечания

- Если после завершения работы функций “Начальные установки”/“Простая установка” изображения не появилось, см. раздел “Устранение неисправностей” (стр. 32).
- При включении проигрывателя появится предупреждающее сообщение, касающееся воспроизведения видео в формате 3D. Нажмите **ENTER**, чтобы закрыть сообщение или **CLEAR**, чтобы отключить его (стр. 24).

# Меню HOME/MEDIA

В меню HOME и MEDIA можно просмотреть и воспроизвести все файлы мультимедиа на дисках с данными, устройствах памяти USB и в домашней сети.

## Примечание

- Для получения дополнительной информации о типах дисков и форматах, которые можно воспроизвести, см. стр. 3.

## ■ Воспроизведение фотографий, музыки и видео

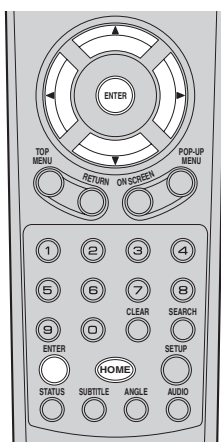
### Основные операции

◀/▶/▲/▼: Перемещение по экрану.

◀: Возврат в корневую папку.

HOME: Переход на экран/выход с экрана меню HOME.

ENTER: Подтверждение папки или файла.



### Значки на первой странице меню MEDIA

📀: Воспроизведение диска в лотке или отображение содержимого диска с данными.

🔑: Отображение содержимого устройства памяти USB, подключенного к разъему USB.

🖥️: Поиск сервера DLNA (стр. 15) в сети.

🖥️: Отображение содержимого подключенного сервера DLNA.

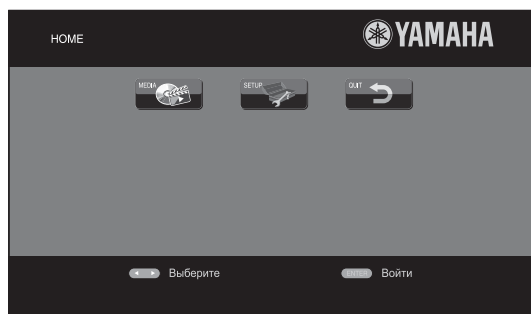
### Основные операции для воспроизведения файлов в выбранной папке

Пример: Выбор фильма на устройстве памяти USB

## Примечание

- Перед тем, как перейти на экран меню MEDIA, остановите воспроизведение видео.

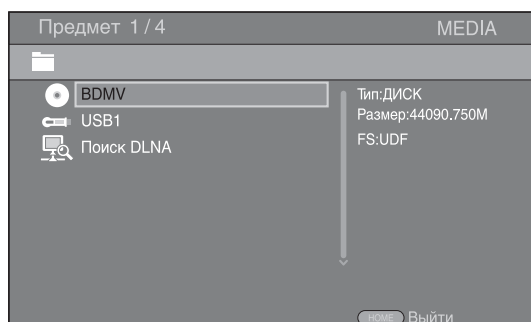
- 1 Нажмите кнопку **HOME** для отображения экрана меню HOME.



## Совет

- Экран меню HOME может отличаться в зависимости от модели.

- 2 С помощью кнопок ◀/▶/▲/▼ выберите элемент “MEDIA”, а затем нажмите кнопку **ENTER**. Появится экран MEDIA.



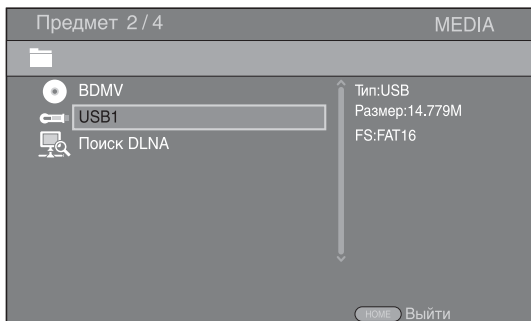
3

Воспроизведение

Русский

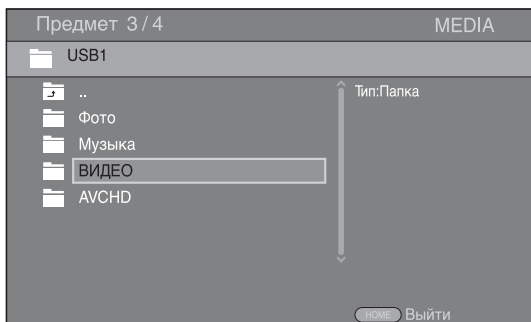
Продолжение на следующей ➔

- 3 Выберите элемент, содержащий файл, который требуется воспроизвести, и нажмите **ENTER**.



- 4 Выберите папку “Фото”, “Музыка”, “ВИДЕО” или “AVCHD”, которую требуется воспроизвести, и нажмите **ENTER**.

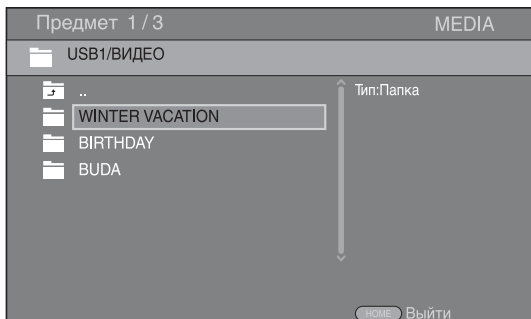
Чтобы вернуться в корневую папку, нажмите ◀ или выберите значок ▲.



#### Примечание

- Обратите внимание, что в следующем шаге будет отображен только тип файлов, выбранный в этом шаге. Например, если в этом шаге выбрать папку “Фото”, то в следующем шаге будут отображены только файлы фотографий. Чтобы воспроизвести другие файлы, кроме фотографий, вернитесь к этому шагу и снова выберите тип файлов.

- 5 Выберите папки, содержащие файлы, которые требуется воспроизвести.

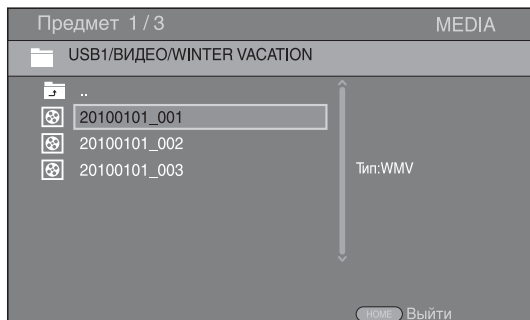


- 6 Выберите файл, который требуется воспроизвести, и нажмите **ENTER**.

При выборе видеофайла начнется воспроизведение.

При выборе музыкального файла отобразится экран состояния и начнется воспроизведение.

При выборе файла фотографии начнется слайд-шоу.



#### Совет

- Чтобы просматривать слайд-шоу с музыкой, нажмите **HOME** для возврата на экран меню HOME во время воспроизведения музыки и выберите файл фотографии.

#### Примечание

- Отображаемый файл, возможно, не удастся воспроизвести в зависимости от содержимого.

### Операции для просмотра фотографий

Во время просмотра фотографий кнопки на пульте дистанционного управления работают следующим образом.

- : остановка слайд-шоу и возврат к диспетчеру файлов.
- : приостановка слайд-шоу.
- ▶: показ слайд-шоу.
- ▶▶: переход к следующей фотографии.
- ◀◀: переход к предыдущей фотографии.
- ▶▶: увеличение скорости слайд-шоу на 3 уровня.
- ◀◀: уменьшение скорости слайд-шоу на 3 уровня.
- ▲: инвертирование фотографии.
- ▼: зеркальное отражение фотографии.
- ◀: поворот фотографии против часовой стрелки.
- ▶: поворот фотографии по часовой стрелке.
- ZOOM**: увеличение/уменьшение фотографии (увеличение/уменьшение: по 3 уровня для каждого).
- ▲/▼/◀/▶: режим увеличения с панорамированием, когда размер фотографии больше экрана.

**DIGEST**: переключение в режим пиктограмм (стр. 7). При отображении пиктограмм не удастся перейти к следующей/предыдущей странице с помощью кнопок ◀◀/▶▶.

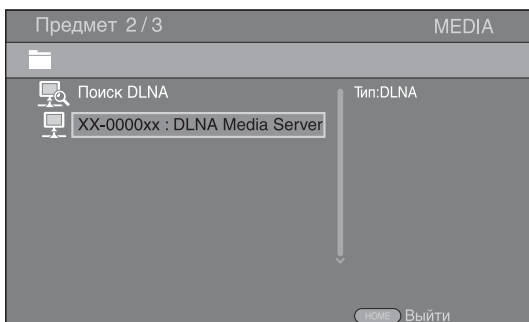


## ■ Использование содержимого сети

Этот проигрыватель сертифицирован по стандарту DLNA (стр. 34). С его помощью можно управлять фотографиями, музыкой и видео, которые хранятся на серверах DLNA в домашней сети.

### Воспроизведение общего содержимого

- 1 Чтобы воспроизводить файлы на компьютере, установите программное обеспечение DLNA, например Windows Media Player 12, и сделайте файлы, которые требуется воспроизвести, доступными для совместного использования.
- 2 Включите компьютер с установленным программным обеспечением для поддержки серверов DLNA или устройство DLNA, подключенное к домашней сети.
- 3 Нажмите **HOME** для отображения экрана меню HOME. Затем выберите MEDIA, чтобы перейти к меню MEDIA. На этом экране перечислены серверы DLNA, подключенные к сети.



#### Примечания

- Если требуемый сервер DLNA отсутствует в списке, выберите пункт “Поиск DLNA”, чтобы найти его.
  - В зависимости от сервера DLNA, возможно, потребуется разрешить на сервере доступ проигрывателю.
  - Чтобы воспроизвести файл на сервере DLNA, проигрыватель и сервер должны быть подключены к одной точке доступа.
  - Некоторые файлы могут быть несовместимыми в силу своих требований. Доступ к файлу может быть ограничен в зависимости от характеристик файла и возможностей сервера DLNA.
- 4 Выберите файл, который требуется воспроизвести.

#### Примечания

- Качество воспроизведения и работы может зависеть от условий домашней сети.
- Возможно, не удастся правильно предоставить совместный доступ к файлам, сохраненным на съемных носителях, например устройствах памяти USB или DVD-приводе медиасервера.

## Использование сетевых служб

Можно мгновенно просмотреть видеоизображения, предоставляемые следующими сетевыми службами.

- YouTube

### Примечания

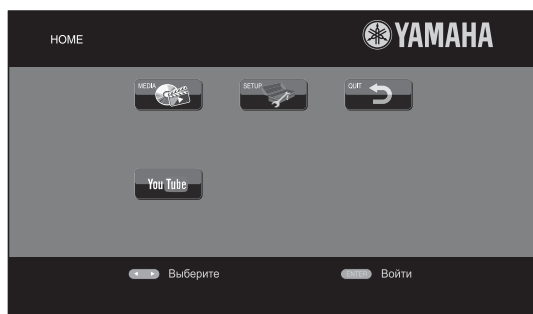
- Для доступа к содержимому, предоставляемому третьими сторонами, требуется высокоскоростное подключение к Интернету, а также может потребоваться регистрация учетной записи и платной подписки.
- Услуги третьих сторон по предоставлению содержимого могут быть изменены, приостановлены, прерваны или прекращены в любое время без уведомления, при этом компания Yamaha снимает с себя какую-либо ответственность, связанную с подобными случаями.
- Некоторые виды содержимого могут быть доступны только для конкретных стран и могут быть представлены на определенных языках.
- Компания Yamaha не предоставляет и не гарантирует продолжение оказания или доступности услуг по предоставлению содержимого в течение конкретного периода времени, и любые подобные гарантии, явные или подразумеваемые, не признаются.

## Воспроизведение видео с YouTube™

С помощью этого проигрывателя можно просматривать фильмы с YouTube через Интернет.

Данные услуги могут быть изменены без уведомления.

- 1 Нажмите **HOME** для отображения экрана меню HOME.



### Совет

- Экран меню HOME может отличаться в зависимости от модели.

- 2 С помощью кнопок ◀/▶/▲/▼ выберите элемент “YouTube”, а затем нажмите кнопку **ENTER**.

### Совет

- Для возврата на экран меню HOME нажмите **RETURN**.

# Расширенные операции воспроизведения

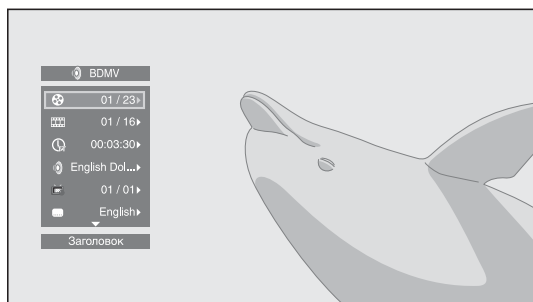
В этой главе описывается процесс воспроизведения имеющихся в продаже дисков Blu-ray, DVD и CD, а также записанных дисков DVD-RW/R.

## Примечание

- Описание основных операций воспроизведения см. на стр. 6

## ■ Экранное меню

Чтобы отобразить экранное меню, нажмите **ON SCREEN**. Затем нажмите **▲/▼/◀/▶**, чтобы выбрать пункт, и нажмите **ENTER**, чтобы выполнить требуемую функцию.



В экранном меню содержатся следующие пункты.

**Заголовок** **BD** **DVD** **VIDEO**: отображение номера заголовка, воспроизводимого в данный момент. Можно пропустить требуемый заголовок, выбрав его в этом пункте.

**Глава** **BD** **DVD** **VIDEO**: отображение номера главы, воспроизводимой в данный момент. Можно пропустить требуемую главу, выбрав ее в этом пункте.

**Трек/Файл** **CD** **VIDEO** **MUSIC** **PHOTO**: отображение номера трека/файла, воспроизводимого в данный момент. Можно пропустить требуемый трек/файл, выбрав его в этом пункте.

**Время** **BD** **DVD** **CD** **VIDEO** **MUSIC**: отображение времени воспроизведения. Выберите подходящий тип отображения:

- Прошедшее время воспроизведения заголовка, главы, трека или файла
- Оставшееся время воспроизведения заголовка, главы, трека или файла

## Режим/Режим воспроизведения

**DVD** **CD** **VIDEO** **MUSIC** **PHOTO**: отображение текущего режима воспроизведения. Можно выбрать один из следующих режимов воспроизведения:

- CD**
  - Нормальный: обычное воспроизведение.
  - Перемешать: воспроизведение в случайном порядке без повтора.
  - Случайный: воспроизведение в случайном порядке с повтором.

## DVD

- Нормальный
- Перемешать главы (глава)
- Перемешать заголовки (заголовок)
- Перемешать все
- Случайные CH (глава)
- Случайные TT (заголовок)
- Случайные Все

## VIDEO MUSIC PHOTO

- Нормальный
- Перемешать F (папка)
- Случайный F (папка)

**Аудио** **BD** **DVD** **VIDEO**: отображение текущего режима воспроизведения Blu-ray Disc/DVD. Возможен выбор нужного типа аудио.

**Угол** **BD** **DVD**: отображение выбранного в данный момент номера угла зрения. При наличии записи с несколькими углами зрения можно изменить угол зрения.

**Субтитры** **BD** **DVD** **VIDEO**: отображение выбранного в данный момент языка субтитров, если они имеются.

**Стиль субтитров** **BD**: отображение выбранного в данный момент стиля субтитров. Эту функцию можно использовать только для внешних субтитров видеофайла. Можно выбрать требуемый стиль текста субтитров.

**Битрейт** **BD** **DVD** **CD** **VIDEO** **MUSIC**: отображение скорости передачи данных аудио/видеосигнала.

**Вторичное видео** **BD**: включение/отключение функции PIP (стр. 6).

**Вторичное аудио** **BD**: включение/отключение функции вторичного аудио (стр. 6).

## Мгновенный Поиск

**BD** **DVD** **CD** **VIDEO** **MUSIC**: пропуск 30 секунд.

## Мгновенный Повтор

**BD** **DVD** **CD** **VIDEO** **MUSIC**: повторное воспроизведение содержимого, начиная с точки за 10 секунд до данного момента.

## Слайд-шоу PHOTO:

отображение скорости слайд-шоу. Можно выбрать следующие значения скорости слайд-шоу: Медленно/Средний/Быстро.

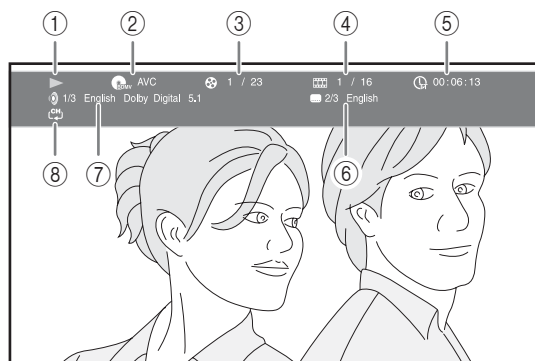
**Перемещение** **PHOTO**: просмотр того, как фотография отображается на экране. Можно выбрать тип перемещения.

## ■ Меню состояния

Используется для отображения различных настроек: субтитры, установки угла зрения, а также номер заголовка/главы/трека, воспроизводимых в данный момент. Чтобы отобразить меню состояния, нажмите **STATUS**. В меню состояния содержатся следующие меню.

**BD DVD VIDEO**

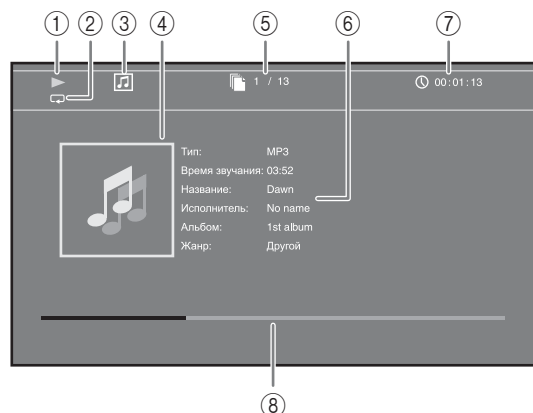
**Пример:** значки при воспроизведении диска Blu-ray Disc



- ① ► (Воспроизведение)
- ② **BD-MV** (Значок типа диска/видеофайла)
- ③ **1 / 23** (Номер воспроизводимого заголовка): можно перейти к требуемому заголовку с помощью кнопки **SEARCH** (стр. 7).
- ④ **1 / 16** (Номер воспроизводимой главы): можно перейти к требуемой главе с помощью кнопки **SEARCH** (стр. 7).
- ⑤ **00:06:13** (Прошедшее время воспроизведения): можно перейти к определенной точке с помощью кнопки **SEARCH** (стр. 7).
- ⑥ **English** (Текущие субтитры): можно выбрать язык субтитров с помощью кнопки **SUBTITLE**.
- ⑦ **Dolby Digital 5.1** (Текущий звук): можно выбрать язык или формат звучания с помощью кнопки **AUDIO**.
- ⑧ **2 / 3** (Режим повтора): отображение текущего режима повтора (стр. 6).

**CD MUSIC**

**Пример:** значки при воспроизведении музыкального файла



- ① ► (Воспроизведение)
- ② **↺** (Режим повтора): отображение текущего режима повтора (стр. 6).
- ③ **MUSIC** (Значок типа диска/музыкального файла)
- ④ **(Изображение) MUSIC**: Отображение рисунка, если он содержится в файле.
- ⑤ **1 / 13** (Номер воспроизводимого трека/файла): можно перейти к требуемому треку с помощью кнопки **SEARCH** (стр. 7).
- ⑥ **(Информация) MUSIC**: Отображение информации о композиции, если она содержится в файле.
- ⑦ **00:01:13** (Прошедшее время воспроизведения): можно перейти к определенной точке с помощью кнопки **SEARCH** (стр. 7).
- ⑧ **(Полоса воспроизведения) MUSIC**: Отображение состояния воспроизведения текущей композиции.

**PHOTO**



- ① ► (Воспроизведение)
- ② **🖼️** (Значок файла фотографии)
- ③ **1 / 13** (Номер отображаемого файла)
- ④ **↺** (Режим повтора): отображение текущего режима повтора (стр. 6).
- ⑤ **Слайд-Шоу: Средний** (Скорость слайд-шоу)

## ■ Использование функции “Закладка” DVD VIDEO

Используется для создания элемента “Закладка” в указанной точке видеофайла. После создания элемента “Закладка” с помощью данной функции можно перейти к этой точке. Можно сохранить до 12 закладок.

- 1 Нажмите кнопку **MARKER** во время воспроизведения фильма, чтоб создать элемент “Закладка”. Отобразятся номер элемента “Закладка” и состояние.

Закладка: 1/12 Заголовок: 1 Лава: 1 Время: 00:01:26

- 2 После создания элемента “Закладка” нажмите кнопку **DIGEST**, чтобы отобразить панель выбора элементов “Закладка”.

Заголовок:01 Лава:01 Время: 00:01:26 Закладка  
[01] [02] [03] [04] [05] [06] [07] [08] [09] [10] [11] [12] Ясный

- 3 Нажмите **◀▶**, чтобы выбрать элемент “Закладка”, который требуется воспроизвести, и нажмите **ENTER**. Нажмите **CLEAR**, чтобы удалить выбранный элемент “Закладка”.

### Примечание

- По окончании воспроизведения (например, при извлечении диска или двойном нажатии **■**) закладки автоматически удаляются.

## ■ Программное воспроизведение DVD CD

Используется для программирования порядка воспроизведения треков аудиодисков или глав DVD. Нажмите **PROGRAM** во время воспроизведения, чтобы отобразить окно ПРОГРАММА и запрограммировать порядок воспроизведения. Можно запрограммировать до 15 треков/глав.

**Пример:** Программирование порядка воспроизведения треков CD

- 1 Нажмите **PROGRAM** во время воспроизведения.

ПРОГРАММА  
CD Всего треков: 13  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
Играть CLEAR Ясный RETURN СТОП

- 2 Нажмите **ENTER**, чтобы запрограммировать порядок воспроизведения.

При воспроизведении аудиодисков выберите нужный трек с помощью кнопок **▲/▼**, а затем нажмите кнопку **ENTER**.

При воспроизведении диска DVD-Видео выберите требуемый заголовок (отображаются с пометкой TT) и главу (отображаются с пометкой CH) вместо трека.

Чтобы удалить выбранный трек из программы, выберите трек, который требуется удалить, и нажмите **CLEAR**.

Чтобы отменить программное воспроизведение, нажмите **RETURN**.

ПРОГРАММА  
CD Всего треков: 13  
1 Трек: 12 6 11  
2 Трек: 05 7 12  
3 Трек: 00 8 13  
4 9 14  
5 10 15  
Играть CLEAR Ясный RETURN СТОП

- 3 Завершив программирование, нажмите **▶**, чтобы установить и запустить программное воспроизведение.
- 4 Чтобы отменить программное воспроизведение, полностью остановите воспроизведение, дважды нажав **■**.

## ■ Использование поиска

BD DVD CD VIDEO MUSIC PHOTO

Используется для быстрого перехода к указанной точке во время воспроизведения.

- 1 Нажмите **SEARCH** во время воспроизведения. Появится строка состояния.
- 2 Нажмите **▲/▼/◀▶**, чтобы выбрать один из перечисленных элементов, затем нажмите **ENTER**.

BD DVD :

- Номер заголовка (отображаются с пометкой **Ⓣ**)
- Номер главы (отображаются с пометкой **Ⓢ**)
- Прошедшее время заголовка (отображаются с пометкой **⌚**)
- Прошедшее время главы (отображаются с пометкой **Ⓢ**)

CD :

- Номер трека (отображаются с пометкой **Ⓢ**)
- Прошедшее время трека (отображаются с пометкой **⌚**)
- Прошедшее время диска (отображаются с пометкой **Ⓢ**)

VIDEO MUSIC :

- Номер файла (отображаются с пометкой **Ⓢ**)
- Прошедшее время файла (отображаются с пометкой **⌚**)

PHOTO :

- Номер файла (отображаются с пометкой **Ⓢ**)

- 3 С помощью кнопок ▲/▼ или цифровых кнопок установите или отрегулируйте значение выбранного элемента и нажмите **ENTER**, чтобы перейти к указанной точке.
- 4 Чтобы закрыть строку состояния, нажмите **STATUS**.

## ■ Просмотр BONUSVIEW™ и BD-Live™

Этот проигрыватель поддерживает функции воспроизведения BONUSVIEW (стр. 34) (BD-ROM Профиль 1 Версия 1.1) и BD-Live (стр. 34) (BD-ROM Профиль 2).

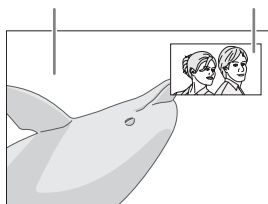
### Примечание

- Функции и способ воспроизведения могут отличаться в зависимости от диска. См. указания на диске или в прилагаемом руководстве пользователя.

## ■ Использование функции “Картинка в картинке” (воспроизведение вторичного аудио/видеосигнала)

BD-Видео, которое включает в себя функцию вторичного аудио/видео, совместимую с функцией Картинка в картинке, может одновременно воспроизводить вторичное аудио и видео в виде маленького видеокна в углу экрана.

Первичное видео      Вторичное видео



**Если отображается PIP метка (PIP) или Метка вторичного аудио (A), нажмите кнопку PIP, чтобы включить или отключить функцию “Картинка в картинке”.**

### Примечания

- Для прослушивания вторичного аудио убедитесь, что для параметра “Аудиовыход” (HDMI) установлено значение “PCM” или “Перекодировать” (стр. 27).
- В зависимости от диска для прослушивания вторичного аудио, возможно, потребуется включить вторичное аудио в главном меню диска (стр. 8).
- Вторичное аудио и видео для функции Картинка в картинке может автоматически появляться и исчезать в зависимости от содержимого. Кроме того, области воспроизведения могут быть ограничены.

## ■ Использование возможностей BD-Live™

### 1. Выполните настройки сети (стр. 25).

### 2. Подключите устройство памяти USB к проигрывателю (стр. 11).

Данные BD-Live будут сохранены в устройстве памяти USB, подключенном к этому проигрывателю. Чтобы использовать эти функции, подключите устройство памяти USB, поддерживающее протокол USB 2.0 High Speed (480 Мбит/с), к разъему USB, выбранному в параметрах “Запоминающее устройство” (стр. 24). По умолчанию задан разъем USB на задней панели.

- При необходимости папка BUDA будет автоматически создана на устройстве памяти USB.
- Если на устройстве памяти будет недостаточно свободного места, данные не будут скопированы/загружены. Удалите ненужные данные или воспользуйтесь новым устройством памяти USB.
- Для загрузки данных (считывания/записи) может потребоваться некоторое время.

### Примечания

- Компания Yamaha не может гарантировать, что устройства памяти USB всех марок будут работать с данным проигрывателем.
- Не используйте удлинительный кабель USB при подключении устройства памяти USB к разъему USB проигрывателя. Использование удлинительного кабеля USB может помешать правильной работе проигрывателя.

### 3. Воспроизведите диск.

### 4. Запустите BD-Live в соответствии с указаниями на диске.




### Примечания

- Относительно способа воспроизведения содержимого BD-Live и т.п., выполняйте операции в соответствии с указаниями в руководстве диска Blu-ray Disc.
- Чтобы использовать функции BD-Live, установите сетевое подключение (стр. 11) и настройте параметр “Сеть” (стр. 25).
- Для получения информации об установке ограничения доступа к содержимому BD-Live см. раздел “BD-Live соединения” (стр. 25).
- Время, необходимое для загрузки предоставляемых программ на устройство памяти USB, подключаемое к данному проигрывателю, зависит от скорости Интернет-соединения и объема данных программ.
- С помощью программ BD-Live, предоставляемых через Интернет, возможно, не удастся отобразить соединение в зависимости от статуса (обновления) провайдера. В таких случаях извлеките диск и попробуйте еще раз.
- Причиной того, что при выборе функции BD-Live в меню диска Blu-ray Disc и по прохождении некоторого времени, не появляется экранное изображение BD-Live, может быть то, что на устройстве памяти USB недостаточно места. В таких случаях извлеките диск из проигрывателя, а затем удалите данные с устройства памяти USB, используя меню “Форматировать” в меню “Запоминающее устройство” (стр. 24).

# Меню УСТАНОВКИ

Меню УСТАНОВКИ позволяет выполнять различные аудиовизуальные установки и настройки функций с помощью пульта дистанционного управления.

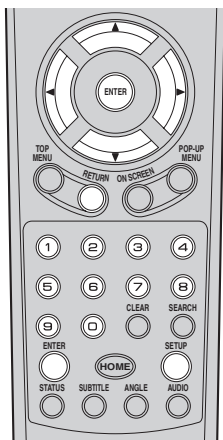
Меню/подменю	Элемент	Функция	Стр.
 <b>Общие установки</b>	<b>Система</b>	Сохранение экрана	Включение и выключение хранителя экрана. 24
		Автоматическое воспроизведение дисков	Проигрыватель будет автоматически запускать воспроизведение дисков. 24
		HDMI контроль	Позволяет настроить проигрыватель для получения управляющего сигнала от пульта дистанционного управления телевизора или аудио/видео ресивера. 24
		Загрузка исходных параметров	Сброс всех настроек к значениям по умолчанию, кроме настроек параметра “Безопасность”. 24
		Обновление программного обеспечения	Выполнение обновления проигрывателя. 24
		Простая установка	Настройка языка, разрешения, соотношения сторон экрана. 24
		Запоминающее устройство	Отображение состояния устройства “Запоминающее устройство” (стр. 24), форматирование устройства “Запоминающее устройство” и выбор переднего/заднего порта USB для устройства “Запоминающее устройство”. 24
		Сообщение о 3D воспроизведении	Отображение предупреждающего сообщения, касающегося воспроизведения видео в формате 3D, при включении проигрывателя. 24
	<b>Язык</b>	Экранное меню	Выбор языка экранного меню. 24
		Меню диска	Установка приоритетного языка для меню диска. 24
		Аудио	Установка приоритетного языка для звучания. 24
		Субтитры	Установка приоритетного языка для субтитров. 25
	<b>Воспроизведение</b>	Угловая метка	Позволяет включать и выключать режим “Угловая метка” при воспроизведении диска Blu-ray Disc/DVD, записанного с разными углами зрения. 25
		PIP метка	Позволяет включать и выключать режим “PIP метка” при воспроизведении диска Blu-ray Disc/DVD с функцией “Картинка в картинке”. 25
		Метка вторичного аудио	Позволяет включать и выключать режим “Метка вторичного аудио” при воспроизведении диска Blu-ray Disc/DVD, записанного с дополнительной звуковой дорожкой. 25
		Последняя память	Проигрыватель запоминает место на диске, где было остановлено воспроизведение последнего файла, при переходе в режим ожидания или в случае открытия лотка диска. 25
	<b>Безопасность</b>	Изменение пароля	Изменение пароля для функции “Родительский контроль” и “Код страны”. 25
		Родительский контроль	Позволяет включать функцию “Родительский контроль” в зависимости от содержания диска. 25
		Код страны	Установка “Код страны”. 25
	<b>Сеть</b>	Подключение к Интернет	Установка для параметра “Подключение к Интернет” значения “Разрешать”/“Выключать”. 25
		Информация	Отображение экрана с информацией о сети. 25
		Проверка соединения	Выполнение проверки соединения с сетью. 25
		Настройка IP	Установка для параметра “Настройка IP” значения “Авто” или “Вручную”. 25
		BD-Live соединения	Установка для подключения BD-Live значения “Разрешенное”, “Частичное Разрешенное” или “Запрещенные”. 25
		DLNA	Установка для параметра DLNA значения “Разрешать” или “Выключать”. 25
		Настройки прокси-сервера	Выполнение настроек прокси-сервера. 26

Меню/подменю		Элемент	Функция	Стр.
 <b>Настройка дисплея</b>	<b>TV</b>	3D Выход	Выбор видеоизображения в формате 3D или 2D.	26
		ТВ экран	Можно установить соотношение сторон экрана подключенного телевизора и отрегулировать выводимое изображение.	26
		Выбор видео выхода	Выбор разрешения выводимого изображения.	26
		ТВ система	Установка для параметра “ТВ система” значения “NTSC”, “PAL” или “Мультисистемный”.	26
		Цветовое пространство	Установка для параметра “Цветовое пространство” значения “YCbCr 4:4:4”, “YCbCr 4:2:2”, “Full RGB” или “RGB”.	26
		HDMI Deep Color	Установка для параметра “HDMI Deep Color” значения “30 bits”, “36 bits”, “48 bits” или “Выкл”.	26
		HDMI 1080p 24Hz	Установка для параметра “HDMI 1080p 24Hz” значения “Авто” или “Выкл”.	27
		Lip Sync	Настройка задержки между видео и аудио, например в случае, когда движение губ не синхронизировано с речью.	27
	<b>Видео обработка</b>	Режим видеосъемки	Настройка видимого изображения.	27
		Color Adjust	Настройка параметров “Яркость”, “Насыщенность” и “Оттенок” для каждого цвета.	27
		Шумоподавление	Установка уровня параметра “Шумоподавление”.	27
		Режим деинтерлейсинга	Выбор способа обнаружения видеосигнала.	27
 <b>Настройка звука</b>	<b>Аудиовыход</b>	HDMI	Установка для разъема HDMI режима вывода “Bitstream”, “PCM”, “Перекодировать” или “Выкл”.	27
		DRC	Настройка параметра “DRC” (компрессия динамического диапазона).	27
 <b>Информация о системе</b>			Отображение версии программного обеспечения и MAC-адреса (стр. 35).	27



## ■ Пример выполнения операции с помощью меню УСТАНОВКИ

Для выполнения настроек проигрывателя необходимо вывести на экран меню УСТАНОВКИ. Ниже приведены пояснения, касающиеся основных операций с меню УСТАНОВКИ.



**Пример:** настройка параметра “Родительский контроль”

### Примечание

- Настройку некоторых элементов не удастся выполнить во время воспроизведения. В этом случае дважды нажмите **■**, чтобы полностью остановить воспроизведение, и переходите к настройкам.

### 1. Отображение экрана меню УСТАНОВКИ.

Нажмите **SETUP** для отображения экрана меню УСТАНОВКИ.

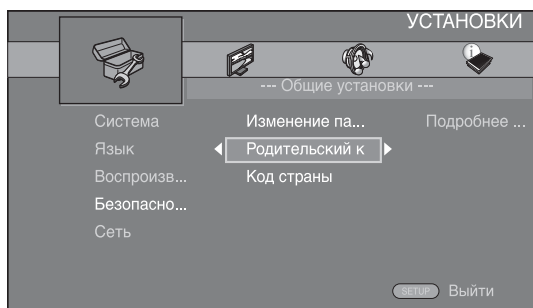
С помощью кнопок **◀/▶** выберите элемент “Общие установки”, а затем нажмите кнопку **ENTER** или **▼**.

### 2. Выберите подменю.

С помощью кнопок **▲/▼** выберите элемент “Безопасность”, а затем нажмите кнопку **ENTER** или курсорную кнопку **▶**.

### 3. Выберите элемент меню.

С помощью кнопок **▲/▼** выберите элемент “Родительский контроль”, а затем нажмите кнопку **ENTER** или курсорную кнопку **▶**.



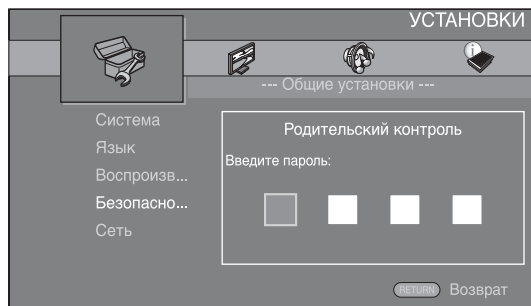
### 4. Введите пароль.

Введите пароль с помощью цифровых кнопок.

- Паролем по умолчанию является 0000.

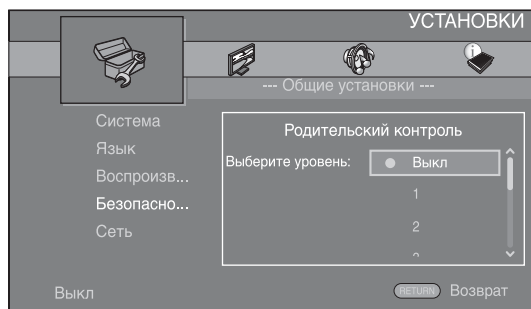
– Переход к следующему экрану установки невозможен без ввода правильного пароля.

- Чтобы изменить пароль, см. раздел “Изменение пароля” (стр. 25).



### 5. Выберите следующий элемент.

С помощью кнопок **▲/▼** выберите уровень параметра “Родительский контроль” для диска Blu-ray Disc/DVD и нажмите кнопку **ENTER**.



### 6. Закройте экран меню.

Нажмите **◀**, чтобы вернуться в предыдущее меню.

## ■ Общие установки

Установки по умолчанию обозначены символом “\* ”.

### Система

#### Сохранение экрана

Можно включить или выключить хранитель экрана. Если эта функция включена, проигрыватель перейдет в режим сохранения экрана, если в течение 3 минут не будет выполнено ни одного действия. Если после этого в течение 27 минут не будет выполнено ни одного действия, проигрыватель перейдет в режим ожидания.

Вкл\*, Выкл

#### Автоматическое воспроизведение дисков

Включение или выключение режима “Автоматическое воспроизведение дисков”. Если эта функция включена, диск автоматически будет воспроизведен после загрузки.

Вкл\*, Выкл

#### HDMI контроль

Можно настроить проигрыватель для получения управляющего сигнала от телевизора или аудио/видео ресивера, совместимого с функцией “HDMI контроль”, с помощью кабеля HDMI (стр. 10).

Вкл, Выкл\*

#### Использование функции “HDMI контроль”

Используя функцию “HDMI контроль”, можно в интерактивном режиме управлять данным проигрывателем с помощью телевизора (поддерживающего функцию “HDMI контроль”). Подключив с помощью кабеля HDMI проигрыватель к телевизору, поддерживающему функцию “HDMI контроль”, и включив функцию “HDMI контроль” в меню УСТАНОВКИ (стр. 24), можно использовать перечисленные ниже функции.

- Функция автоматического выбора входного сигнала  
В случае начала воспроизведения на данном проигрывателе, селектор входов телевизора (и аудио/видео ресивера, если проигрыватель подключен к телевизору через аудио/видео ресивер) автоматически переключается на проигрыватель. В зависимости от телевизора подача питания может включаться автоматически.
- Функция автоматического выключения питания  
В случае выключения телевизора в то время, когда проигрыватель находится в режиме остановки и на экране не отображается меню УСТАНОВКИ, питание проигрывателя отключается автоматически.

#### Примечания

- В зависимости от телевизора могут наблюдаться отклонения в работе функции “HDMI контроль”.
- Работа других функций, кроме указанных, зависит от телевизора или аудио/видео ресивера.
- Чтобы сделать доступной функцию “HDMI контроль”, выполните настройку функции “HDMI контроль” на ВСЕХ компонентах (данный проигрыватель, телевизор и аудио/видео ресивер). Может потребоваться выполнить некоторые операции.
- В зависимости от телевизора, каждая функция может быть настроена на самостоятельную активацию/деактивацию.
- Для получения более подробной информации по установке обратитесь к руководству пользователя для телевизора и/или аудио/видео ресивера.
- При включении функции потребление питания в режиме ожидания возрастает в результате работы функции “HDMI контроль”.

### Загрузка исходных параметров

Можно сбросить все настройки проигрывателя к значениям по умолчанию, кроме настроек параметра “Безопасность” (стр. 25). Для получения дополнительной информации о настройках по умолчанию см. стр. 21–27.

### Обновление программного обеспечения

Можно вручную обновить программное обеспечение с USB устройства или с сети Network. Для получения дополнительной информации об обновлении программного обеспечения см. раздел “Обновление программного обеспечения” (стр. 30).

### Простая установка

Выполнение процедуры “Простая установка” (стр. 12).

### Запоминающее устройство

Отображение информации об устройстве “Запоминающее устройство”, форматирование устройства “Запоминающее устройство” и выбор значения “Передний USB вход” или “Задний USB вход” для сохранения данных BD-Live. Чтобы выполнить форматирование (очистить) папку “BUDA” на устройстве памяти USB, выберите пункт “Информация”, а затем нажмите кнопку **ENTER**, выделив на экране элемент “Форматировать”.

Передний USB вход, Задний USB вход\*

#### Совет

- Запоминающее устройство используется в качестве вспомогательной памяти при воспроизведении диска Blu-ray Disc.

### Сообщение о 3D воспроизведении

Можно включить или отключить предупреждающее сообщение, касающееся воспроизведения видео в формате 3D, которое появляется на экране телевизора при включении проигрывателя.

Вкл\*, Выкл

## Язык

### Экранное меню

Можно выбрать язык экранного меню, на котором будут отображаться сообщения или меню на экране, например, меню УСТАНОВКИ.

Русский, Français, Español, Deutsch, Italiano, Svenska, Nederlandse, Русский, 中文

### Меню диска

Можно установить приоритетный язык для меню диска.

Русский, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Португальский, Датский, Svenska, Финский, Норвежский, Русский, Корейский, Японский, Больше

### Аудио

Можно установить приоритетный язык звучания для воспроизведения диска Blu-ray Disc/DVD. Для получения дополнительной информации о настройке элементов меню см. раздел “Меню диска” (стр. 24).

## Субтитры


Можно установить приоритетный язык для Субтитры.

Русский, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Португальский, Датский, Svenska, Финский, Норвежский, Русский, Корейский, Японский, Больше, Выкл

(Значение по умолчанию в меню [Язык] зависит от модели устройства.)


## Воспроизведение

### Угловая метка

Позволяет включать и выключать режим “Угловая метка” (  ) при воспроизведении диска Blu-ray Disc/DVD, записанного с разными углами зрения.


Вкл\*, Выкл

### PIP метка

Позволяет включать и выключать режим “PIP метка” (  ) при воспроизведении диска Blu-ray Disc с функцией “Картинка в картинке” (стр. 20).

Вкл\*, Выкл

### Метка вторичного аудио

Позволяет включать и выключать режим “Метка вторичного аудио” (  ) при воспроизведении диска Blu-ray Disc, записанного с дополнительной звуковой дорожкой.

Вкл\*, Выкл

### Последняя память

Проигрыватель запоминает место на диске, где было остановлено воспроизведение последнего файла, при переходе в режим ожидания или в случае открытия лотка диска.

Вкл\*, Выкл

### Примечание

- Некоторые диски не поддерживают данную функцию.

## Безопасность

### Изменение пароля

Установка пароля для изменения уровня параметра “Родительский контроль” и значения параметра “Код страны”. См. раздел “Родительский контроль” (стр. 25) и “Код страны” (стр. 25).

### Примечания

- Паролем по умолчанию является 0000.
- Если вы забыли пароль, обратитесь к разделу “Устранение неисправностей” (стр. 31) и восстановите для параметров “Безопасность” значения по умолчанию.

### Родительский контроль

На некоторых дисках Blu-ray/DVD уровень контроля для просмотра диска устанавливается в зависимости от возраста зрителя. Можно установить для параметра “Родительский контроль” значение, показанное на экране, в зависимости от содержимого диска. Пароль (см. раздел “Изменение пароля” на стр. 25) необходимо ввести до установки уровня параметра “Родительский контроль”. После установки параметра “Родительский контроль” при воспроизведении диска, уровень параметра “Родительский контроль” для которого выше установленного, а также при попытке изменить уровень параметра “Родительский контроль” отобразится диалоговое окно с предложением ввести пароль.

Выкл\*, 1–8

## Код страны

Можно установить значение для параметра “Код страны”. Пароль (см. раздел “Изменение пароля” на стр. 25) необходимо ввести до установки параметра “Код страны”. Эти настройки можно использовать для оценки параметра “Родительский контроль” и воспроизведения диска.

## Сеть

### Подключение к Интернет

Установите для этого элемента значение “Разрешать” при использовании BD-Live (стр. 20), DLNA (стр. 15), при обновлении программного обеспечения по сети (стр. 30) и выполнении других функций по сети.

Разрешать\*, Выключать

### Информация

Можно отобразить экран с информацией о сети. На этом экране можно просмотреть следующую информацию: интерфейс (Ethernet), Тип адреса, IP адрес, Маска подсети, Основной шлюз и DNS.

### Проверка соединения

Выполнение проверки подключения к Интернету. В случае неудачного результата проверки см. раздел “Настройка IP” (стр. 25) и повторите проверку.

### Настройка IP

Можно настроить параметры сети.

- |                |  |
|----------------|--|
| <b>Авто*</b>   | Выбор автоматической настройки параметров сети для проигрывателя с помощью сервера DHCP. |
| <b>Вручную</b> | Выбор настройки параметров сети (IP адрес, Маска подсети, Основной шлюз и DNS) вручную.  |

### Советы

- |                    |                                      |
|--------------------|--------------------------------------|
| – Цифровые клавиши | Ввод символов.                       |
| – ◀▶               | Перемещение цветового выделения.     |
| – CLEAR            | Удаление символа.                    |
| – ENTER            | Сохранение настроек и выход из меню. |

## BD-Live соединения

Можно установить ограничение доступа к содержимому BD-Live.

**Разрешенное** Все диски с поддержкой BD-Live могут подключаться к сети.

**Частичное Разрешенное\*** Разрешены только диски с сертификацией владельца.

**Запрещенные** Всем дискам с поддержкой BD-Live запрещено подключаться к сети.

## DLNA

Можно установить для параметра DLNA (стр. 34) значения “Разрешать” или “Выключать”. Если функция DLNA не используется, установите значение “Выключать”.

Разрешать\*, Выключать

## Настройки прокси-сервера

Выполнение процедуры “Настройки прокси-сервера”. Для обычного использования выберите значение “Выключать”. Для настройки прокси-сервера установите значение “Разрешать”.

**Разрешать** Включение прокси-сервера и порта прокси-сервера.

**Выключать\*** Прокси-сервер будет выключен. Выберите этот элемент, если прокси-сервер не используется.

**Прокси-сервера** Выполняются настройки прокси-сервера.

**Порт прокси** Выполнение настроек порта прокси-сервера.

## ■ Настройка дисплея

Установки по умолчанию обозначены символом “\* ”.

### TV

#### 3D Выход

Можно выбрать вывод видеоизображения в формате 3D или 2D с помощью проигрывателя.

**Авто\*** Проигрыватель автоматически выбирает видеоизображения в формате 3D или 2D.

**Выкл** Проигрыватель всегда выбирает видеоизображения в формате 2D.

#### Примечание

- Даже если для параметра “3D Выход” задано значение “Авто” и воспроизводится диск Blu-ray 3D, проигрыватель выбирает изображения в формате 2D в зависимости от соединения и настройки телевизора, и т.д. (стр. 10).

#### ТВ экран

Можно установить соотношение сторон экрана подключенного телевизора и отрегулировать выводимое изображение. В случае замены телевизора (например, из-за покупки нового) и изменения соотношения сторон экрана подключенного телевизора необходимо изменить настройки параметра “ТВ экран”.

**16:9 Full** Выберите это значение, если проигрыватель подключен к телевизору с экраном 16:9. При воспроизведении видео с соотношением сторон экрана 4:3 видео отображается следующим образом.

**16:9 Normal\*** Выберите это значение, если проигрыватель подключен к телевизору с экраном 16:9. При воспроизведении видео с соотношением сторон экрана 4:3 видео отображается следующим образом.

**4:3 Pan Scan** Выберите это значение, если проигрыватель подключен к телевизору с экраном 4:3. При воспроизведении видео с соотношением сторон экрана 16:9 видео отображается следующим образом.

**4:3 Letter Box** Выберите это значение, если проигрыватель подключен к телевизору с экраном 4:3. При воспроизведении видео с соотношением сторон экрана 16:9 видео отображается следующим образом.

Истинный размер изображения	На телевизоре 16:9 (широкоэкранный)	
	16:9 Full	16:9 Normal
		
4:3		

Истинный размер изображения	На телевизоре 4:3	
	4:3 Pan Scan	4:3 Letter Box
		
16:9		

#### Выбор видео выхода

Для разрешения видеовыхода можно выбрать значения “Авто”, “480i/576i”, “480p/576p”, “720p”, “1080i” и “1080p”. При выборе значения “Авто” устанавливается максимальное разрешение в соответствии с подключенным телевизором. Для получения дополнительной информации о форматах вывода см. раздел “Форматы видеовыходов” (стр. 29).

**Авто\*, 480i/576i, 480p/576p, 720p, 1080i, 1080p**

#### Примечание

- Для вывода аудиоформата HD (например, Dolby TrueHD или DTS-HD Master Audio) с разъема HDMI установите для параметра “Выбор видео выхода” значение “Авто” или значение выше, чем 720p.

#### ТВ система

Для параметра “ТВ система” можно установить значение “PAL”, “NTSC” и “Мультисистемный”. Выберите значение параметра “ТВ система” в соответствии с используемым телевизором. Для получения дополнительной информации о форматах вывода см. раздел “Форматы видеовыходов” (стр. 29).

#### NTSC, PAL, Мультисистемный

(Значение по умолчанию зависит от модели устройства.)

#### Цветовое пространство

Настройки параметра “Цветовое пространство” (стр. 35) можно выбрать в меню “HDMI”. Эта функция доступна, если проигрыватель подключен с помощью кабеля HDMI.

**YCbCr 4:4:4\*** Установите для параметра “Цветовое пространство” значение “YCbCr 4:4:4”.

**YCbCr 4:2:2** Установите для параметра “Цветовое пространство” значение “YCbCr 4:2:2”.

**Full RGB** Если при выборе значения “RGB” черные и белые тона на экране слишком блеклые, выберите этот элемент. Данный параметр работает, когда подключенный компонент поддерживает диапазон RGB 0–255.

**RGB** Видеосигнал выводится в нормальном диапазоне сигналов.

#### Примечание

- Эта функция доступна, только если телевизор поддерживает эту функцию.

#### HDMI Deep Color

Если телевизор и/или аудио/видео ресивер совместим с функцией “Deep Color” (стр. 34), выберите этот элемент в соответствии с телевизором или аудио/видео ресивером. Эта функция доступна, если проигрыватель подключен с помощью кабеля HDMI.

**30 bits, 36 bits, 48 bits, Выкл\***

## HDMI 1080p 24Hz

При этом сигнал BD-Видео будет выводиться с частотой кадров 24 Hz в режиме HDMI 1080p 24Hz. С помощью этой функции воспроизведение видео будет более сглаженным. Эта функция доступна, если телевизор или аудио/видео ресивер поддерживает ее, и если проигрыватель подключен с помощью кабеля HDMI. Для получения дополнительной информации о форматах вывода см. раздел “Форматы видеовыходов” (стр. 29).

Авто\*, Выкл

### Примечание

- Если установлено другое разрешение, кроме 1080p, этот параметр будет отключен.

## Lip Sync

Установка/настройка функции “Lip Sync” (стр. 35).

<b>Авто*</b>	Проигрыватель выполняет настройку функции “Lip Sync” автоматически.
<b>Вручную</b>	Можно настроить функцию “Lip Sync” вручную. Можно задать задержку аудиосигнала для содержимого в формате 2D и 3D независимо. 2D 3D
<b>Выкл</b>	Проигрыватель не выполняет настройку функции “Lip Sync” автоматически.

## Видео обработка

### Режим видеосъемки

Ниже можно выбрать значение параметра “Режим видеосъемки”.

<b>Стандартный*</b>	Изображение наиболее естественное и хорошо сбалансировано. Данный режим подходит для обычного использования.
<b>Яркий</b>	Изображение более яркое и резкое.
<b>Кинотеатр</b>	Подходит для просмотра фильма в темной комнате.
<b>Обычай</b>	Можно настроить видимое изображение вручную. С помощью кнопок ▲/▼ выберите данный параметр, а затем нажмите ◀/▶, чтобы установить значение.

#### Яркость

Используется для настройки общего уровня яркости изображения.

#### Насыщенность

Настройка сочности цвета изображения на экране.

#### Оттенок

Настройка тона изображения на экране.

#### Контрастность

Используется для настройки ярких областей (уровней белого) в изображении.

#### Резкость

Регулировка резкости объектов видеозображения.

#### СТІ

Смягчение краев цветных изображений. Отрисовка цветных изображений становится более отчетливой.

По умолчанию установлено значение 0.

## Color Adjust

Настройка параметров “Яркость”, “Насыщенность” и “Оттенок” для каждого цвета (Красный/Зеленый/Синий/Желтый/Синяя/Пурпурный). Для использования этой функции установите для параметра “Режим видеосъемки” значение “Обычай”. Для получения дополнительной информации о настройке элементов меню см. раздел “Режим видеосъемки” (стр. 27).

По умолчанию установлено значение 0.

## Шумоподавление

Для параметра “Шумоподавление” можно установить уровень от 0 до 3, 0 соответствует значению “выключено”, а 3 - максимальному уровню.

0, 1, 2\*, 3

## Режим деинтерлейсинга

Выбор способа обнаружения видеосигнала. Для обычного использования выберите значение “Авто”. Если на экране появляются помехи в виде горизонтальных полос, установите для данного параметра значение “Пленка” или “ВИДЕО”.

Авто\*, Пленка, ВИДЕО

## Настройка звука

Установки по умолчанию обозначены символом “\*”.

## Аудиовыход

### HDMI

Можно выбрать режим вывода разъема HDMI. Для получения дополнительной информации о форматах вывода см. раздел “Форматы аудиовыходов” (стр. 28).

Bitstream\*, PCM, Перекодировать, Выкл

### Примечание

- Для вывода аудиоформата HD (например, Dolby TrueHD или DTS-HD Master Audio) с разъема HDMI установите для параметра “Выбор видео выхода” значение “Авто” или значение выше, чем “720p” (стр. 26).

## DRC

Можно установить для параметра “DRC” (компрессия динамического диапазона) (стр. 34) значения “Вкл”, “Выкл” или “Авто”. При установке значения “Авто” параметр DRC включается автоматически для источника с информацией DRC в формате Dolby TrueHD. Параметр DRC уменьшает громкость чрезмерно громких звуков, таких как взрывы, и повышает громкость диалогов. Это удобно при просмотре фильмов в ночное время.

Выкл, Вкл, Авто\*

## Информация о системе

Отображение версии программного обеспечения и MAC-адреса (стр. 35).

## ■ Форматы аудиовыходов

Формат источника		HDMI		
		Bitstream	PCM	Перекодировать
2-канальный PCM	с поддержкой ВА* или ЗНК**	2-канальный PCM		Dolby Digital
	без поддержки ВА* или ЗНК**	2-канальный PCM		
5.1-канальный PCM	с поддержкой ВА* или ЗНК**	5.1-канальный PCM		Dolby Digital
	без поддержки ВА* или ЗНК**	5.1-канальный PCM		
7.1-канальный PCM	с поддержкой ВА* или ЗНК**	7.1-канальный PCM		Dolby Digital
	без поддержки ВА* или ЗНК**	7.1-канальный PCM		
Dolby Digital	с поддержкой ВА* или ЗНК**	Dolby Digital	До 5.1-канального PCM	Dolby Digital
	без поддержки ВА* или ЗНК**			
Dolby Digital Plus	с поддержкой ВА* или ЗНК**	Dolby Digital Plus	До 7.1-канального PCM	Dolby Digital
	без поддержки ВА* или ЗНК**			Dolby Digital Plus
Dolby TrueHD	с поддержкой ВА* или ЗНК**	Dolby TrueHD	До 7.1-канального PCM	Dolby Digital
	без поддержки ВА* или ЗНК**			Dolby TrueHD
DTS	с поддержкой ВА* или ЗНК**	DTS	До 5.1-канального PCM	DTS
	без поддержки ВА* или ЗНК**			
DTS HD High Resolution	с поддержкой ВА* или ЗНК**	DTS HD High Resolution	До 5.1-канального PCM (Core decode)	DTS
	без поддержки ВА* или ЗНК**			DTS HD High Resolution
DTS-HD Master Audio	с поддержкой ВА* или ЗНК**	DTS-HD Master Audio	До 5.1-канального PCM (Core decode)	DTS
	без поддержки ВА* или ЗНК**			DTS-HD Master Audio

\* “ВА” обозначает “вторичное аудио”.

\*\* “ЗНК” обозначает “звук нажатия кнопки”, т.е. звуковой эффект для всплывающих окон и т.д.

### Примечания

- При установке для параметра “HDMI” значения “Bitstream” дополнительная звуковая дорожка не воспроизводится (стр. 27).
- Для вывода аудиоформата HD (например, Dolby TrueHD или DTS-HD Master Audio) с разъема HDMI установите для параметра “Выбор видео выхода” значение “Авто” или значение выше, чем “720p” (стр. 26).

## ■ Форматы видеовыходов

Для параметра “ТВ система” установлено значение “NTSC”

	Разрешение	Авто	480i/576i	480p/576p	720p	1080i	1080p
HDMI	BD-Video с содержимым 1080p/24 Hz	*1, *2	480i	480p	720p 60 Hz	1080i 60 Hz	1080p 24/60 Hz *2
	Прочее						1080p 60 Hz

Для параметра “ТВ система” установлено значение “PAL”

	Разрешение	Авто	480i/576i	480p/576p	720p	1080i	1080p
HDMI	BD-Video с содержимым 1080p/24 Hz	*1, *2	576i	576p	720p 50 Hz	1080i 50 Hz	1080p 24/50 Hz *2
	Прочее						1080p 50 Hz

\*1 Установлено максимальное разрешение, поддерживаемое подключенным телевизором. Например, если максимальное разрешение, поддерживаемое подключенным телевизором, составляет 1080p, будет установлено разрешение 1080p.

\*2 Если с источника выводится содержимое в формате 1080p 24 Hz, и подключенный телевизор поддерживает вывод содержимого в формате 1080p 24 Hz, вместо сигнала 1080p 50/60 Hz будет выводиться сигнал 1080p 24 Hz при выборе разрешения “Авто” или “1080p” и установке значения “Авто” для параметра “HDMI 1080p 24Hz” (стр. 27) в меню “Настройка дисплея”.

**Для параметра “ТВ система” установлено значение “Мультисистемный”**

При установке для параметра “ТВ система” значения “Мультисистемный” видеосигнал выводится с частотой сигнала источника. Для получения дополнительной информации о параметрах частоты телевизора и разрешении выходного видеосигнала см. таблицу выше.

### Примечания

- Если установлено другое разрешение, кроме 1080p, параметр HDMI 1080p 24Hz будет отключен.
- Если для параметра “ТВ система” установлено значение “NTSC”, но частота источника видео не соответствует значению 60 Hz, видеосигнал на выходе будет преобразован в сигнал с частотой 60 Hz.
- Если для параметра “ТВ система” установлено значение “PAL”, но частота источника видео не соответствует значению 50 Hz, видеосигнал на выходе будет преобразован в сигнал с частотой 50 Hz.

# Обновление программного обеспечения

Некоторые из недавно выпущенных дисков Blu-ray не могут быть воспроизведены до тех пор, пока не будет установлена последняя версия программного обеспечения проигрывателя. Рекомендуется провести обновление программного обеспечения проигрывателя с помощью функции обновления программного обеспечения, чтобы использовать проигрыватель в соответствии с последней версией программного обеспечения.

Проверить наличие обновления программного обеспечения можно по адресу:

<http://download.yamaha.com/>

## Примечание

- Не извлекайте устройство памяти USB, не переводите проигрыватель в режим ожидания и не отсоединяйте кабель питания/кабель LAN во время обновления программного обеспечения.

## ■ Обновление программного обеспечения

### 1. Выполните подготовку к обновлению программного обеспечения.

При обновлении программного обеспечения с USB устройства:

- ① Сохраните файл с пакетом обновления в соответствующую папку на устройстве памяти USB. Для получения дополнительной информации см. инструкцию, прилагаемую к файлу с пакетом обновления.

- ② Подключите устройство памяти USB. Выполнять шаг 2 не требуется.

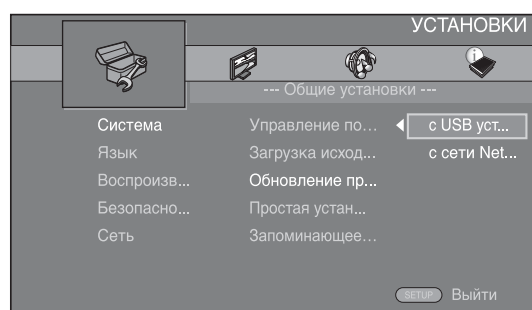
При обновлении программного обеспечения с сети Network:

Убедитесь, что проигрыватель подключен к сети.

### 2. Выберите способ обновления и запустите обновление в меню УСТАНОВКИ.

- ① Нажмите **SETUP** для отображения экрана меню УСТАНОВКИ.
- ② Выберите “Общие установки” → “Система” → “Обновление программного обеспечения”.

- ③ Выберите элемент, в котором содержится файл с пакетом обновления, с USB устройства или с сети Network.



Система выполнит поиск файла с пакетом обновления.

### 3. Выполните обновление программного обеспечения, следуя указаниям на экране.


Обновление завершено. Система будет перезапущена.







# Устранение неисправностей

Если проигрыватель функционирует неправильно, обратитесь к приведенной ниже таблице. В случае, если проблема не указана в таблице или проблему не удалось устранить, выключите проигрыватель, отсоедините силовую кабель и обратитесь к ближайшему авторизованному дилеру или в сервисный центр Yamaha.

## ■ Питание

Неисправность	Вероятная причина и методы устранения
Нет питания.	<ul style="list-style-type: none"> <li>– Правильно подсоедините прилагаемый кабель питания переменного тока.</li> <li>– Нажмите кнопку  на передней панели, чтобы включить питание.</li> </ul>
Питание проигрывателя выключается.	<ul style="list-style-type: none"> <li>– Питание будет автоматически выключаться через 30 минут непрерывного бездействия (отсутствия воспроизведения).</li> </ul>

## ■ Основные операции

Неисправность	Вероятная причина и методы устранения
Пульт дистанционного управления не работает.	<ul style="list-style-type: none"> <li>– Используйте пульт дистанционного управления в пределах его рабочего диапазона. (стр. 9)</li> <li>– Замените батарейки. (стр. 9)</li> </ul>
Кнопки не работают.	<ul style="list-style-type: none"> <li>– Нажмите и удерживайте кнопку  на передней панели более 5 секунд, а затем отпустите, чтобы сбросить настройки проигрывателя (системный сброс).</li> <li>– Для полной перезагрузки проигрывателя отсоедините кабель питания от сети переменного тока на 10 секунд или более, затем снова подсоедините его и включите проигрыватель.</li> </ul>
Пароль забыт.	<ul style="list-style-type: none"> <li>– Одновременно нажмите и удерживайте кнопки  и  на передней панели, если диск не вставлен и воспроизведение остановлено, чтобы сбросить все настройки проигрывателя, в том числе настройки Безопасность (стр. 25), и восстановить значения по умолчанию. После автоматического выключения питания нажмите кнопку  для его повторного включения.</li> </ul>

## ■ Воспроизведение диска

Неисправность	Вероятная причина и методы устранения
Диск не воспроизводится в проигрывателе.	<ul style="list-style-type: none"> <li>– Извлеките диск и очистите его. (стр. 4)</li> <li>– Убедитесь, что диск правильно введен (ровно лежит в лотке, этикеткой вверх). (стр. 4)</li> <li>– Используйте диск, поддерживаемый проигрывателем. (стр. 3)</li> <li>– Извлеките диск и проверьте, поддерживаются ли такие диски проигрывателем. (стр. 3)</li> <li>– Проверьте региональный код. (стр. 3)</li> <li>– Проверьте диск на предмет дефектов, установив другой диск.</li> <li>– Диски CD-R/RW, DVD+R/RW/R DL и DVD-R/RW/R DL должны быть финализированы. (стр. 3)</li> </ul>
Видео останавливается.	<ul style="list-style-type: none"> <li>– Проигрыватель прекращает воспроизведение в случае толчка или вибрации.</li> </ul>
Проигрыватель издает щелчок в момент начала воспроизведения или загрузки диска.	<ul style="list-style-type: none"> <li>– Данные звуки не указывают на неисправность проигрывателя и являются обычными условиями работы.</li> </ul>

5

Дополнительная информация

Русский

## ■ Изображение

Неисправность	Вероятная причина и методы устранения
Отсутствует изображение.	<ul style="list-style-type: none"> <li>– Убедитесь, что кабель HDMI подключен правильно. (стр. 10)</li> <li>– Убедитесь, что для подключаемого телевизора или аудио/видео ресивера установлен правильный вход. (стр. 10)</li> <li>– Извлеките диск или остановите воспроизведение, затем одновременно нажмите и удерживайте кнопки ► и ■ на передней панели, чтобы восстановить значения разрешения видео по умолчанию. Если после этого вывод изображения все еще невозможен, нажмите и удерживайте кнопку ■ на передней панели в течение приблизительно 5 секунд, чтобы переключиться между режимами NTSC/PAL.</li> </ul>
Изображение на экране застыло и кнопки управления не функционируют.	<ul style="list-style-type: none"> <li>– Нажмите ■, затем повторите запуск воспроизведения.</li> <li>– Выключите питание и снова включите его.</li> <li>– Нажмите и удерживайте кнопку ⏻ на передней панели более 5 секунд, а затем отпустите, чтобы сбросить настройки проигрывателя.</li> </ul>
Разрешение выводимого видео не соответствует требуемому.	<ul style="list-style-type: none"> <li>– Установите требуемое разрешение. (стр. 26)</li> </ul>
Широкоэкранное изображение растянуто по вертикали, либо на экране присутствуют черные полосы вверх и вниз. Либо видео с соотношением 4:3 вытянуто по горизонтали.	<ul style="list-style-type: none"> <li>– Измените соотношение сторон экрана телевизора. (стр. 26)</li> </ul>
На экране появляются помехи в виде квадратов (мозаика).	<ul style="list-style-type: none"> <li>– Блоки в изображениях могут быть видны в эпизодах с быстрым движением из-за характеристик технологии сжатия цифрового изображения.</li> </ul>
Звук не выводится или изображение не воспроизводится надлежащим образом.	<ul style="list-style-type: none"> <li>– Звук может не выводиться и изображения могут не воспроизводиться надлежащим образом для некоторых дисков, содержание которых защищено авторским правом.</li> </ul>

## ■ Звук

Неисправность	Вероятная причина и методы устранения
Звук отсутствует или искажен.	<ul style="list-style-type: none"> <li>– Убедитесь, что кабель HDMI подключен правильно. (стр. 10)</li> <li>– Увеличьте уровень громкости телевизора или аудио/видео ресивера.</li> <li>– Звук будет отсутствовать в режиме стоп-кадра и ускоренного перехода вперед и назад. (стр. 8)</li> <li>– Звук может не выводиться в зависимости от состояния записи, например в случае записи сигнала, отличного от звукового, или нестандартного сигнала в качестве звукового сопровождения диска. (стр. 3)</li> </ul>
Левый и правый каналы звука заменены местами, либо звук воспроизводится только с одной стороны.	<ul style="list-style-type: none"> <li>– Проверьте подключение HDMI. (стр. 10)</li> </ul>
Звук не выводится или изображение не воспроизводится надлежащим образом.	<ul style="list-style-type: none"> <li>– Звук может не выводиться и изображения могут не воспроизводиться надлежащим образом для некоторых дисков, содержание которых защищено авторским правом.</li> </ul>
Не слышен звук при использовании функции PIP (вторичное аудио).	<ul style="list-style-type: none"> <li>– Установите для параметра HDMI значение PCM/Перекодировать. (стр. 27)</li> <li>– Для прослушивания вторичного аудио нажмите кнопку 2ND AUDIO. (стр. 6)</li> <li>– В зависимости от диска, возможно, потребуется включить параметр вторичного аудио в главном меню диска. (стр. 8)</li> </ul>

## ■ Сеть

Неисправность	Вероятная причина и методы устранения
Не устанавливается соединение с Интернетом.	<ul style="list-style-type: none"> <li>– Правильно подсоедините сетевой кабель.</li> <li>– Включите подсоединенное оборудование, например, широкополосный маршрутизатор или модем.</li> <li>– Правильно подключите широкополосный маршрутизатор и/или модем.</li> <li>– Установите надлежащие значения в настройках сети. Проверьте параметр “Сеть”. (стр. 25)</li> </ul>
Не удается загрузить содержимое BD-Live.	<ul style="list-style-type: none"> <li>– Правильно подсоедините сетевой кабель. (стр. 11)</li> <li>– Правильно подсоедините устройство памяти USB. Убедитесь, что устройство памяти USB подключено к разъему USB проигрывателя. (стр. 11)</li> <li>– Убедитесь, что диск Blu-ray Disc поддерживает функцию BD-Live.</li> <li>– Проверьте настройки параметра “Подключение к Интернет”. (стр. 25)</li> <li>– Подключите устройство памяти USB, отформатированное в файловой системе FAT16, FAT32 или NTFS.</li> <li>– Рекомендуется подключать устройства памяти USB с объемом свободного пространства не менее 2 Гб. Если свободного пространства недостаточно, выполните форматирование устройства памяти USB. (стр. 24)</li> <li>– Обратитесь к руководству пользователя, прилагаемому к диску, или проконсультируйтесь с производителем диска.</li> </ul>
Не удается обнаружить сервер DLNA.	<ul style="list-style-type: none"> <li>– Правильно подсоедините сетевой кабель.</li> <li>– Включите подсоединенное оборудование, например, широкополосный маршрутизатор или сервер.</li> <li>– Убедитесь, что проигрыватель и сервер подключены к одной точке доступа.</li> <li>– Установите надлежащие значения в настройках сети. Проверьте параметр “Сеть”. (стр. 25)</li> <li>– В зависимости от сервера DLNA, возможно, потребуется разрешить на сервере доступ проигрывателю.</li> <li>– В зависимости от сервера DLNA, может потребоваться изменить настройки межсетевого экрана.</li> </ul>
Не удается воспроизвести файл на сервере домашней сети.	<ul style="list-style-type: none"> <li>– Убедитесь, что файл можно воспроизвести. (стр. 3)</li> <li>– Проверьте настройки сервера DLNA.</li> <li>– Качество воспроизведения и работы может зависеть от условий домашней сети.</li> </ul>

## ■ Сообщения на экране

- При воспроизведении неподходящего диска или при возникновении ошибки во время работы на экране телевизора будут появляться следующие сообщения.

Сообщение об ошибке	Вероятная причина и методы устранения
Неподдерживаемый файл	– Файл не поддерживается проигрывателем. См. раздел “Типы дисков/файлов, которые можно использовать с этим проигрывателем” (стр. 3).
Неправильный код региона!	– Несовместимый региональный код диска. См. раздел “Информация о выборе региона для видеформата Blu-ray Disc/DVD” (стр. 3).
Ошибка сети.	– Не удастся подключить проигрыватель к сети. Проверьте настройки подключения (стр. 11) и сети (стр. 25).
Сеть ОК, ошибка прокси сервера.	– Не удастся подключить проигрыватель к прокси-серверу. См. раздел “Настройки прокси-сервера” (стр. 26).
Подключение BD-live запрещено в меню УСТАНОВКИ.	– BD-Live соединения запрещены. См. раздел “BD-Live соединения” (стр. 25).
Обновление не удалось по ряду причин!	– Ошибка обновления. Убедитесь, что файл обновления не поврежден и доступен для чтения.

# Глоссарий

## **AVCHD**

AVCHD — это новый формат (стандарт) для видеокамер высокого разрешения, которые могут быть использованы для записи и воспроизведения изображения HD с высоким разрешением.

## **BD-Live™**

BD-Live является стандартом Blu-ray Disc, использующим сетевое подключение, и позволяет выходить в сеть с помощью проигрывателя и загружать рекламные видеоролики и другие данные.

## **BDMV**

BDMV (фильм Blu-ray Disc) представляет собой один из форматов приложения, используемый для дисков BD-ROM и являющийся одной из технических характеристик диска Blu-ray Disc. BDMV является форматом записи, эквивалентным формату DVD-Video технических характеристик DVD.

## **Blu-ray 3D™**

Функция Blu-ray 3D позволяет просматривать полноразмерные изображения высокой четкости в формате 3D.

## **BONUSVIEW™**

При использовании дисков с поддержкой BONUSVIEW можно одновременно воспроизводить дополнительный видеоканал для двух экранов, дополнительный аудиоканал и субтитры. Во время воспроизведения на основном экране отображается небольшой дополнительный экран (картинка в картинке).

## **Deep Color**

Deep Color означает использование различной глубины цвета на дисплеях по сравнению с глубиной в 24 бита в предыдущих версиях технических характеристик HDMI. Дополнительная битовая глубина позволяет телевизорам высокой четкости и другим дисплеям отображать не миллионы, а миллиарды цветов, а также устранять цветовые полосы на экране и обеспечивать плавные тональные переходы и тонкие градации цветов. Увеличенная контрастность позволяет отобразить гораздо больше оттенков серого в переходе от черного цвета к белому. Кроме того, Deep Color увеличивает число возможных цветов в пределах границ, определяемых цветовым пространством RGB или YCbCr.

## **DLNA**

Стандарт DLNA (Digital Living Network Alliance) предназначен для удобной передачи цифрового медиасодержимого по домашней сети, и с помощью этого проигрывателя на телевизоре можно воспроизводить цифровое содержимое, хранящееся на компьютере с установленным программным обеспечением для поддержки серверов DLNA или другом DLNA-совместимом устройстве. Чтобы подключить проигрыватель к серверу DLNA, необходимо выполнить ряд настроек сервера или устройства DLNA. Для получения дополнительной информации см. документацию программного обеспечения сервера DLNA или устройства DLNA.

## **Dolby Digital**

Система звука, разработанная компанией Dolby Laboratories Inc., которая придает атмосферу кинотеатра при просмотре фильмов, в случае, если данный аппарат подключен к процессору или усилителю системы Dolby Digital.

## **Dolby Digital Plus**

Система звука, разработанная в качестве расширения Dolby Digital. Эта технология кодирования аудио поддерживает 7.1 многоканальный объемный звук.

## **Dolby TrueHD**

Dolby TrueHD представляет собой технологию кодирования без потерь, поддерживающую до 8 каналов многоканального объемного звука для оптических дисков нового поколения. Воспроизводимый звук с точностью до бита повторяет оригинальный источник.

## **DRC (управление динамическим диапазоном)**

DRC позволяет регулировать диапазон между наиболее громкими и тихими звуками (динамический диапазон) для воспроизведения со средней громкостью. Используйте эту функцию, если трудно различить диалог или если при воспроизведении можно потревожить соседей.

## **DTS**

Представляет собой систему цифрового звука, разработанную компанией DTS, Inc. для использования в кинотеатрах.

## **DTS-HD High Resolution Audio**

DTS-HD High Resolution Audio - это новая технология, разработанная для формата нового поколения оптического диска высокой четкости.

## **DTS-HD Master Audio**

DTS-HD Master Audio - это технология сжатия аудиосигнала без потерь, разработанная для формата нового поколения оптического диска высокой четкости.

**FLAC**

FLAC (Free Lossless Audio Codec) — это открытый формат файлов для сжатия аудиоданных без потерь. Несмотря на то, что по степени сжатия он уступает другим форматам сжатия аудиосигналов, качество звука при этом зачастую выше.

**HDMI**

HDMI (Мультимедийный интерфейс высокой четкости) представляет собой интерфейс, который поддерживает как видеосигнал, так и аудиосигнал через общее цифровое подключение. HDMI-подключение используется для вывода в цифровой форме без ухудшения качества стандартных видеосигналов и видеосигналов высокого разрешения, а также многоканальных аудиосигналов на аудио/видео устройства, такие как телевизоры, оснащенные разъемом HDMI.

**Letterbox (LB 4:3)**

Формат экрана с черными полосами в верхней и нижней частях изображения, позволяющий просмотр широкоэкранного материала (16:9) на подключенном телевизоре формата 4:3.

**Lip Sync**

Lip Sync - сокращение от “lip synchronization” (синхронизация звучания). Данный технический термин подразумевает как проблему, так и возможность синхронизации аудио- и видеосигналов на завершающем этапе создания и передаче данных. В то время как для устранения задержки аудио- и видеосигнала требуется сложная подстройка воспроизведения пользователем, версия HDMI оснащена технологией автоматической синхронизации аудио и видео, что позволяет устройствам выполнять синхронизацию автоматически без участия пользователя.

**Mac-адрес**

Mac-адрес – это уникальное значение, присваиваемое сетевому устройству для его идентификации.

**Pan Scan (PS 4:3)**

Формат экрана, который отрезает боковые стороны изображения и позволяет просмотр широкоэкранного материала (16:9) на подключенном телевизоре формата 4:3.

**x.v.Color**

Функция x.v.Color позволяет воспроизводить большую цветовую гамму, чем ранее, выводя практически все цвета, воспринимаемые человеческим глазом.

**Звук Linear PCM**

Linear PCM представляет собой формат записи сигнала, используемый для аудиодисков CD, а также некоторых дисков DVD и Blu-ray. Звук на аудиодисках CD записывается с использованием частоты 44,1 кГц и 16-битной разрядности. (Звук записывается в диапазоне частот от 48 кГц с 16-битной разрядностью до 96 кГц с 24-битной разрядностью на дисках DVD и в диапазоне от 48 кГц с 16-битной разрядностью до 192 кГц с 24-битной разрядностью на дисках Blu-ray.)

**Субтитры**

Представляют собой строки текста, появляющиеся в нижней части экрана, которые используются для перевода или расшифровки диалога. Они записаны на многих дисках DVD и Blu-ray.

**Цветовое пространство**

Цветовое пространство – это цветовая гамма, которую можно передать. RGB – это цветовое пространство на основе цветовой модели RGB (красный, зеленый и синий), которое обычно используется в компьютерных мониторах. YCbCr – это цветовое пространство на основе сигнала яркости (Y) и двух сигналов различия цвета (Cb и Cr).

## Технические характеристики

### ■ Общая часть

**Источник питания**


[Модели для США и Канады].....	110–240 В переменного тока, 60 Гц
[Модель для Центральной и Южной Америки]	
.....	110–240 В переменного тока, 50/60 Гц
[Модель для Австралии].....	110–240 В переменного тока, 50 Гц
[Модель для Великобритании, Европы и России]	
.....	110–240 В переменного тока, 50 Гц
[Модель для Китая].....	110–240 В переменного тока, 50 Гц
[Модель для Азии].....	110–240 В переменного тока, 50/60 Гц
[Модель для Кореи].....	110–240 В переменного тока, 60 Гц
Потребляемая мощность (в обычном режиме).....	18 Вт
Потребляемая мощность (в режиме ожидания).....	0,5 Вт или меньше
Размеры (Ш × В × Г).....	435 × 50 × 202 мм
Вес.....	2,0 кг

### ■ Входные/выходные терминалы

Выход HDMI.....	Разъем типа A × 1 480i/576i/480p/576p/720p/1080i/1080p/1080p при 24 Гц, Deep Color, поддержка x.v. Color
USB.....	Разъем типа A × 2
Прочее оборудование.....	Ethernet × 1

Технические характеристики могут изменяться без уведомления.

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# Алфавитный указатель

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## Caution: Read this before operating your unit.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this sound system in a well ventilated, cool, dry, clean place-away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. For proper ventilation, allow the following minimum clearances.  
Top : 10 cm (4 in)  
Rear: 10 cm (4 in)  
Side: 10 cm (4 in)
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
  - Other components, as they may cause damage and/or discoloration on the surface of this unit.
  - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
  - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cable disconnected from a wall outlet or this unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- 16 Be sure to read the “Troubleshooting” section on common operating errors before concluding that this unit is faulty.
- 17 Before moving this unit, press  to set this unit to the standby mode, and disconnect the AC power plug from the wall outlet.
- 18 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.
- 19 When using this unit for a long time, this unit may become warm. Turn the power off, then leave this unit alone for cooling.
- 20 Install this unit near the AC outlet and where the AC power plug can be reached easily.
- 21 The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off by . This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

The laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



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### (at the end of this manual)

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## About this manual

- This manual describes how to operate this Player using a remote control except when it is not available. Some of these operations are also available using the front panel buttons.
- Notes contain important information about safety and operating instructions. Hint(s) indicates a tip for your operation.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and the product, the product has priority.

## The icons used in this manual

Icons are used to indicate available buttons/functions for a particular format. For details on playable discs and formats, see page 3.

<b>BD</b>	: BD-Video
<b>DVD</b>	: DVD-Video, DVD-VR, DVD+VR
<b>CD</b>	: Audio CD
<b>VIDEO</b>	: Video files
<b>MUSIC</b>	: Audio files
<b>PHOTO</b>	: Photo files

2

3

4

5

English

# What you can do with this Player

## Easy setting for language, resolution, screen aspect ratio ➔ p. 12

You can perform language and TV settings.

## Play back commercially-released Blu-ray Disc™/Blu-ray 3D™/DVD/CD discs\* ➔ p. 17

In addition to Blu-ray Discs, this Player also supports playback of a variety of other discs.

## Play back BONUSVIEW™, BD-Live™, etc.\* ➔ p. 20

You can enjoy additional movies on the latest Blu-ray Discs.

## Play back Video, Music, Photo files on a disc/USB memory device\* ➔ p. 13

Files recorded on discs/USB memory devices can be played back with this Player.

## Play back Video, Music, Photo files on a Home Network Server\* \*\* ➔ p. 15

PC contents can be played back with TV or AV receiver by connecting this Player to a network server.

## Operation with the remote control of TV, AV receiver, etc. ➔ p. 24

Connecting devices with an HDMI cable, you can control devices with a single remote control using the HDMI Control function.

## Streaming Playback contents on the Network Services\*\* ➔ p. 16

You can instantly enjoy videos over the internet with this Player.

\* For details on playable discs and formats, see page 3.

\*\* Network setting is needed to use this function.

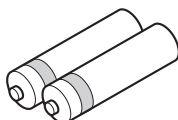
# Supplied parts

Make sure the following accessories are provided with the product.

### Remote control



### Batteries (x2) (AAA, R03, UM-4)



## ■ Types of discs/files that can be used with this Player

- 12 cm (5") and 8 cm (3") discs can be played back in this Player. Do not use an 8 cm (3") to 12 cm (5") adapter.
- Use discs that conform to compatible standards as indicated by the presence of official logos on the disc label. Playback of discs not complying with these standards is not guaranteed. In addition, the image quality or sound quality is not guaranteed even if the discs can be played back.

Media Type	Recording Format
BD-ROM/BD-R/ BD-RE	BD-Video/Data files
DVD-ROM	DVD-Video
DVD-R/DVD-R DL/DVD-RW	DVD-Video/DVD-VR/AVCHD/Data files
DVD+R/DVD+R DL/DVD+RW	DVD-Video/DVD+VR/AVCHD/Data files
CD-ROM	CDDA/HDCD
CD-R/CD-RW	CDDA/Data files
USB*	Data files
DLNA	Data files

\* This Player is compatible with a USB memory device formatted with FAT 16/32 and NTFS.






Playable audio file formats <b>MUSIC</b>	Playable video file formats <b>VIDEO</b>	Playable photo file formats <b>PHOTO</b>
MP3 (.mp3) WMA (.wma) AAC (.aac/.m4a) WAV (.wav) FLAC (.flac)	MKV with H.264 (.mkv) MPEG PS (.mpeg/ .mpg) MPEG TS (.ts) MPEG-4 (.mp4) VOB (.vob) AVI (.avi) ASF (.asf) WMV (.wmv)	JPEG (.jpeg/.jpg) GIF (.gif) PNG (.png)

### Notes

- Playback of a file listed in the chart above is not guaranteed depending on methods of file creation or codecs used.
- A copyright protected file cannot be played back.
- When using DLNA, a file needs to meet the DLNA sever requirement.

## Region management information for Blu-ray Disc/DVD videos

- Blu-ray Disc/DVD video players and discs have region codes, which dictate the regions in which a disc can be played. Verify the region code mark on the rear panel of this Player.
- For a Blu-ray Disc, the disc can be played back on this Player with the same region code mark, or the region code "ABC" mark.
- For a DVD disc, the disc can be played back on this Player with the same region code mark, or the region code "ALL" mark.

Examples of region codes	
BD-Video	DVD-Video
Region code "A" or "ABC"	Region code "1" or "ALL"
  	 

### Notes

- Blu-ray Disc/DVD video operations and functions may be different from the explanations in this manual and some operations may be prohibited due to disc manufacturer's settings.
- If a menu screen or operating instructions are displayed during playback of a disc, follow the operating procedure displayed.
- Playback for some of the discs may not be possible depending on the disc.
- Finalize all recording media that is played back in this Player.
- "Finalize" refers to a recorder processing a recorded disc so that it will play in other players/recorders as well as this Player. Only finalized discs can be played back in this Player. (This Player does not have a function to finalize discs.)
- Playback of all files on the disc, USB memory device and network is not guaranteed.
- A copyright protected file cannot be played back via USB memory device and network.

## Audio file requirement

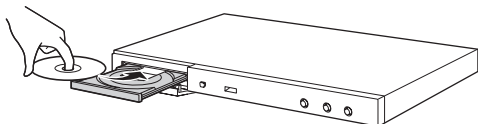
- Sampling frequency: within 32 - 48 kHz (MP3/WMA), LPCM 44.1 kHz/16 bit/Stereo (WAV), 192 kHz/24 bit (FLAC)
- Bitrate: within 8 - 320 kbps (MP3), 32 - 192 kbps (WMA)

## WMV file requirement

- WMV9, maximum resolution is 1,920 × 1,080.

## ■ Loading a disc

- Insert the disc with the label facing up.
- In case of the disc recorded on both sides, face down the side to play back.



### Notes

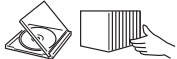



- Playback may begin automatically, depending on the disc and setting of this Player.
- The menu may be displayed first, depending on the disc.
- The disc load time may vary depending on the disc.

## ■ Disc precautions

### Be careful of scratches and dust

- Blu-ray Disc, DVD and CD discs are sensitive to dust, fingerprints and especially scratches. A scratched disc may not be able to be played back. Handle discs with care and store them in a safe place.

### Proper disc storage

Place the disc in the center of the disc case and store the case and disc upright.	
Avoid storing discs in locations subject to direct sunlight, close to heating appliances or in locations of high humidity.	
Do not drop discs or subject them to strong vibrations or impacts.	
Avoid storing discs in locations where there are large amounts of dust or moisture.	

### Handling precautions



- If the surface is soiled, wipe gently with a soft, damp (water only) cloth. When wiping discs, always move the cloth from the center hole toward the outer edge.



- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not touch the surface.
- Do not stick paper or adhesive labels to the disc.
- If the playing surface of a disc is soiled or scratched, the Player may decide that the disc is incompatible and eject the disc tray, or it may fail to play the disc correctly. Wipe any dirt off the playing surface with a soft cloth.

### Cleaning the pick up lens

- Never use commercially available cleaning discs. The use of these discs can damage the lens.
- Request the nearest service center approved by Yamaha to clean the lens.

## ■ Notice for watching 3D video images

- Some people may experience discomfort (such as eye strain, fatigue, or nausea) while watching 3D video images. We recommend that all viewers take regular breaks while watching 3D video images.
- If you experience any discomfort, stop watching the 3D video images until the discomfort subsides. Consult a doctor if you experience severe discomfort.
- Read the owner's manuals (Blu-ray Disc and TV) and/or the caution messages that appear on the TV carefully.
- The vision of young children (especially those under six years old) is still under development. Consult your doctor (such as a pediatrician or eye doctor) before allowing young children to watch 3D video images.
- Adults should supervise young children to ensure they follow the recommendations described above.

## ■ Cinavia technology

- Cinavia technology is a part of the content protection system included in your Blu-ray Disc Player.

### Note

- The following messages may be displayed and playback stopped or audio outputs temporarily muted by your Blu-ray Disc player if you are playing an unauthorized copy of content that is protected by Cinavia technology.

These messages are displayed in English only.

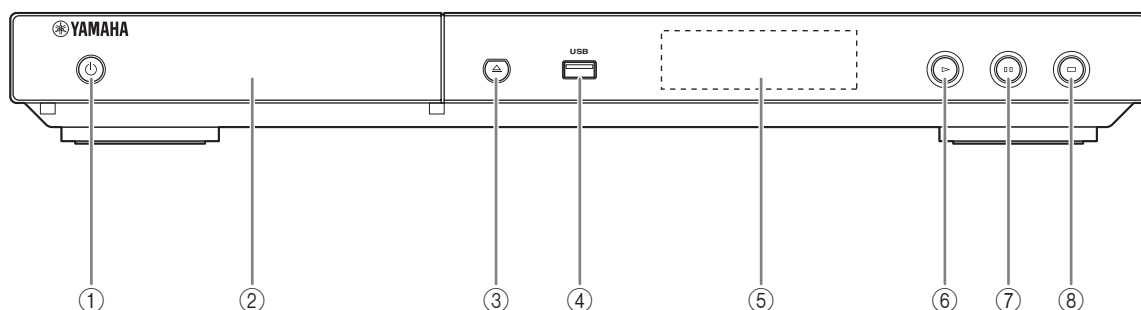
Playback stopped. The content being played is protected by Cinavia™ and is not authorized for playback on this device.  
For more information, see <http://www.cinavia.com>.  
Message Code 1.

Audio outputs temporarily muted. Do not adjust the playback volume. The content being played is protected by Cinavia™ and is not authorized for playback on this device.  
For more information, see <http://www.cinavia.com>.  
Message Code 3.

### Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted. More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <http://www.cinavia.com>. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

## ■ Front panel



### ① (On/Standby)

Turns this Player on/Sets to standby mode.  
Press and hold on the front panel for more than 5 seconds, and release to reset this Player (system reset).

### ② Disc tray door

### ③ (Eject)

Opens/Closes the disc tray.

### ④ USB connector (p. 11)

### ⑤ Front panel display

Displays various information for operational status.

### ⑥ (Play)

Starts a playback.

### ⑦ (Pause)

Pauses a playback.

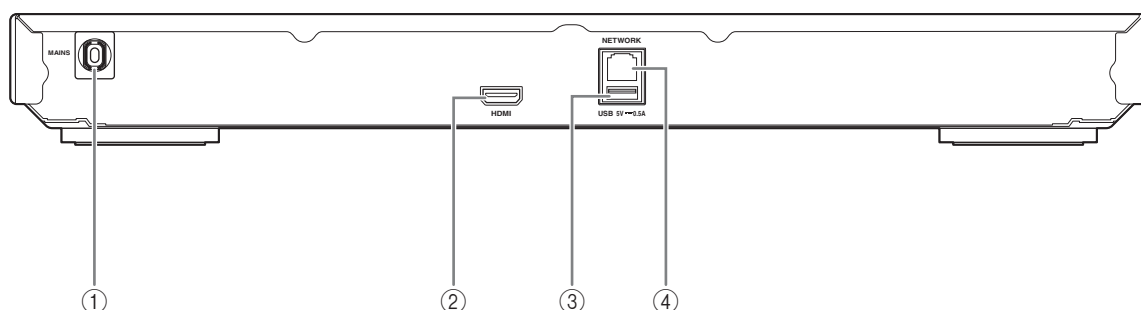
### ⑧ (Stop)

Stops a playback.

### Note

- A factory-fitted protective film covers the front panel of this Player. Remove the protective film from the Player before operating it.

## ■ Rear panel



### ① Power cable

This Player has a captive power cable. Connect it to an AC outlet after all connections are made (p. 10).

### Note

- To prevent risk of electric shock, do not touch the un-insulated parts of any cables while the power cable is connected.


### ② HDMI terminal (p. 10)

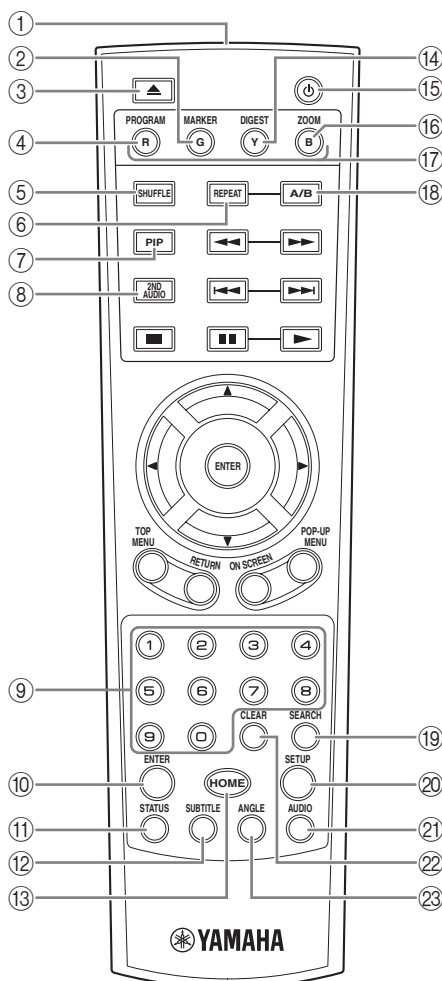
### ③ USB connector (p. 11)






### ④ NETWORK terminal (p. 11)


## Remote control

### Note

-  will appear on the top left corner of the screen when the pressed button is not available.




- ① **Infrared signal transmitter:** Outputs infrared signal. Aim this window to the remote control sensor (p. 9).
- ② **MARKER** **DVD** **VIDEO**: Sets Bookmark (p. 19) at a specified point of a movie. After Bookmark is set, to select the set point you want to jump to, press **DIGEST**. You can set up to 12 Bookmarks.
- ③ **▲**: Opens/closes the disc tray.
- ④ **PROGRAM** **DVD** **CD**: Sets the order of playback (p. 19). You can set up to 15 tracks (for an audio disc) or titles/chapters (DVD-Video).
- ⑤ **SHUFFLE** **DVD** **CD** **VIDEO** **MUSIC** **PHOTO**: Selects shuffle play mode (p. 17).
- ⑥ **REPEAT** **BD** **DVD** **CD** **VIDEO** **MUSIC** **PHOTO**: Changes repeat mode. Repeat mode shown below will change each time you press the button.
  - : Repeats the title being played back.
  - : Repeats the chapter being played back.
  - : Repeats the folder being played back.
  - : Repeats all tracks/files on the disc.
  - : Repeats the track/file being played back.

- ⑦ **PIP** **BD**: Turns on/off the Picture in Picture (p. 20). PIP Mark () is displayed on the screen when this function is available. You can also select this item from On Screen menu (p. 17).

### Note

- PIP Mark is displayed only when the PIP Mark is set to on (p. 25).

- ⑧ **2ND AUDIO** **BD**: Selects the secondary audio of the Picture in Picture (p. 20) or audio commentaries. The Secondary Audio Mark () is displayed on the screen when this function is available (p. 27). You can also select this item from On Screen menu (p. 17).

### Note


- Secondary Audio Mark is displayed only when Secondary Audio Mark is set to on (p. 25).

- ⑨ **Number buttons:** Enters numbers, or during playback, jumps to the track/chapter corresponding to the number you input. These buttons may not be available depending on the disc type and playback condition.
- ⑩ **ENTER:** Selects the focused menu/item.
- ⑪ **STATUS:** Displays the playback information (p. 18).
- ⑫ **SUBTITLE** **BD** **DVD** **VIDEO**: Changes subtitle languages (p. 35) if available. You can also select this item from On Screen menu (p. 17).

- ⑬ **HOME:** Displays the HOME menu screen (p. 13).
- ⑭ **DIGEST PHOTO :** Shows 12 photo thumbnails.  
When thumbnails are displayed, you can proceed to the next/previous page with ◀◀/▶▶.
- DVD VIDEO :** Displays Bookmark select bar (p. 19).
- ⑮ **⏻:** Turns this Player on or sets it to standby mode.
- ⑯ **ZOOM DVD VIDEO PHOTO :** Zooms in/out.  
The size of the screen will change each time you press the button (zoom in/out: 3 steps each).
- ⑰ **Color buttons BD :** Use these buttons according to on-screen instructions.
- ⑱ **A/B BD DVD CD VIDEO MUSIC :** Plays back a specific part you want to repeat.
  - 1 Press **A/B** at the scene where you want to set the start point. “A-” is displayed on the screen.
  - 2 Press **A/B** again at the scene where you want to set the end point. “A-B” is displayed on the screen.  
Repeat playback starts.
  - 3 To cancel the repeat playback, press **A/B**. “A-B” disappears and the repeat playback is finished.

**Note**

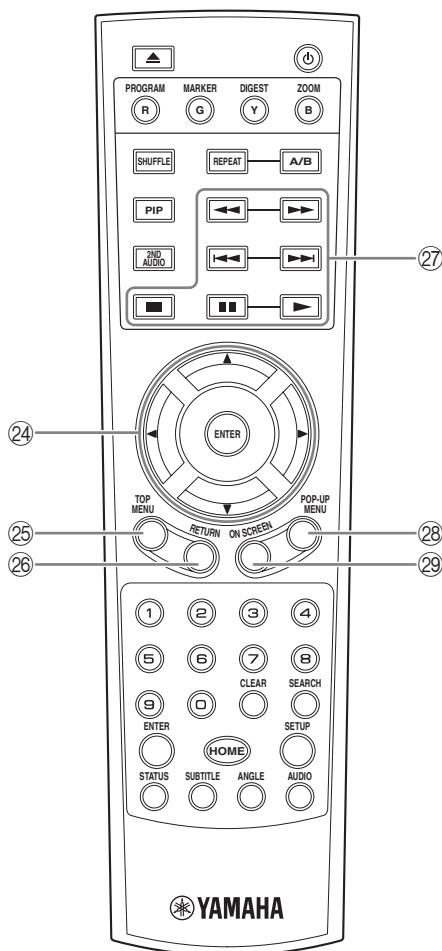
- This function cannot be performed depending on the specifications of the disc.

- ⑲ **SEARCH BD DVD CD VIDEO MUSIC :**  
Jumps to a specified point during playback. For details on this function, refer to “Using Search” (p. 19). You can also select this item from status menu (p. 18).
- ⑳ **SETUP:** Displays SETUP menu screen (p. 21).
- ㉑ **AUDIO BD DVD :** Changes the audio language or format. You can also select this item from On Screen menu (p. 17).
- ㉒ **CLEAR:** Clears entered number/set item.
- ㉓ **ANGLE BD DVD :** Changes the camera angle if video is recorded with multiple angles. The Angle Mark () is displayed on the screen when this function is available. You can also select this item from On Screen menu (p. 17).

**Note**

- Angle Mark is displayed only when the Angle Mark is set to on (p. 25).

**Continued to the next page. ➡**



- ②④ **Cursor buttons (▲/▼/◀/▶)**: Moves the focus in the menu screen.

**ENTER**: Selects the focused menu/item.

- ②⑤ **TOP MENU [BD] [DVD]**: Displays the top menu screen if the disc contains a menu. Select the desired item using ▲/▼/◀/▶ and **ENTER**.

#### Note

- Specific operations may be different depending on the disc. Follow the instructions of each menu screen.

- ②⑥ **RETURN**: Returns to the previous menu or screen, etc.

- ②⑦ **Control buttons**

[BD] [DVD] [CD] [VIDEO] [MUSIC] [PHOTO]

■: Stops playback. To stop playback completely, press this button twice.

■: Pauses playback.

▶: Plays back contents.



[BD] [DVD] [CD] [VIDEO] [MUSIC]:

Searches backward/forward. The search speed will change each time you press the button (search backward/forward: 5 steps each). Press ▶ to resume normal playback.

**[PHOTO]**: Changes the speed of a slide show (slower/faster: 3 steps).

◀◀/▶▶: Skips backward/forward.

#### Note

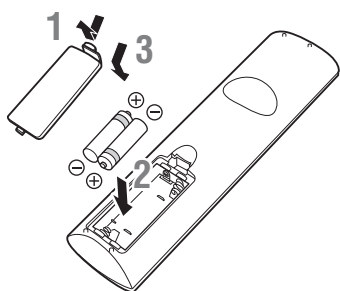
- Depending on the disc, this Player resumes playback from the point that where the Player was previously stopped. To play back from the beginning, press ■ twice and then ▶.

- ②⑧ **POP-UP/MENU [BD] [DVD]**: Displays pop-up menu. The menu contents displayed vary depending on the disc. For details on how to see and operate the pop-up menu, refer to the manual for the disc. The top menu screen may be displayed by pressing **POP-UP/MENU** depending on the DVD.

- ②⑨ **ON SCREEN**: Displays On Screen menu (p. 17).



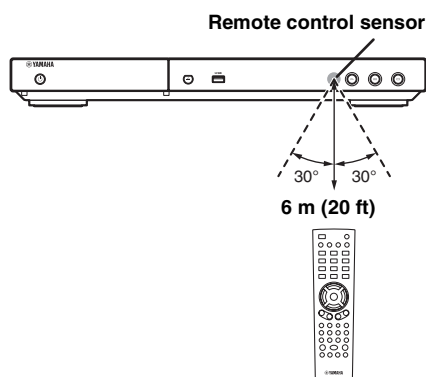
## Loading the batteries in the remote control



### Notes

- Change both batteries when the operation range of the remote control decreases.
- Use AAA, R03, UM-4 batteries.
- Make sure that the polarities are correct. Refer to the illustration inside the battery compartment.
- Remove the batteries if the remote control is not to be used for an extended period of time.
- Do not use old batteries together with new ones.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not throw away batteries with general house waste; dispose of them correctly in accordance with your local regulations.
- Keep batteries away from children. If a battery is accidentally swallowed, contact your doctor immediately.
- When not planning to use the remote control for long periods of time, remove the batteries from the remote control.
- Do not charge or disassemble the supplied batteries.

## Approximate operating range of remote control



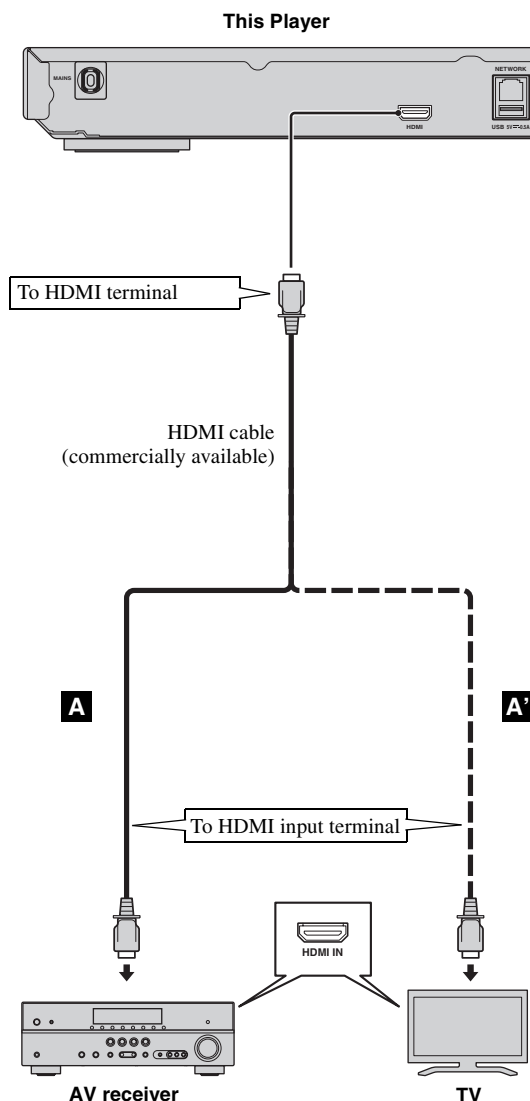
# HDMI connection

## ■ Connecting to the HDMI terminal

- You can enjoy high quality digital picture and sound through the HDMI terminal.
- Firmly connect an HDMI cable (commercially available) to the HDMI terminals.
- See page 28 for information on the audio/video output formats.
- Use HIGH SPEED HDMI cables that have the HDMI logo (as shown on the back cover).

### Caution!

**Do not connect the power cable of this Player until all connections are completed.**



### Hints

- When you use the HDMI Control function, refer to the “HDMI Control” (p. 24).
- For information on the output mode of HDMI terminal, refer to the “HDMI” (p. 27).
- When no picture is displayed, refer to “Troubleshooting” (p. 32).

## ■ Connection for the playback of Blu-ray 3D Discs

To enjoy Blu-ray 3D Discs on this Player, you need the following equipment and connections:

- You need a TV and an AV receiver (if you need) that have 3D functionality.
- All the components must be connected with HDMI cables.
- A Blu-ray Disc should contain 3D images.
- You need to set 3D Output in Display Setting (p. 26) to Auto.

# Network and USB connection

2

Connection

## ■ Connecting to the NETWORK terminal

- PC contents can be played back by connecting this Player to the network.
- You can enjoy a variety of contents with interactive functions by connecting to the internet when playing BD-Live compatible discs. Refer to page 20 regarding further information on BD-Live functions.

### Notes

- Firmly connect a network cable (commercially available) to the NETWORK terminal.
- Use only an STP (shielded twisted pair) network cable.
- When using the internet, a broadband internet connection as shown below is required.
- Connect the other connector of the network cable to the hub/broadband router.
- When using a broadband internet connection, a contract with an internet service provider is required. For more details, contact your nearest internet service provider.
- Refer to the operation manual of the equipment you have as the connected equipment and connection method may differ depending on your internet environment.
- Use a network cable/router supporting 10BASE-T/100BASE-TX.

## ■ Connecting to the USB connector

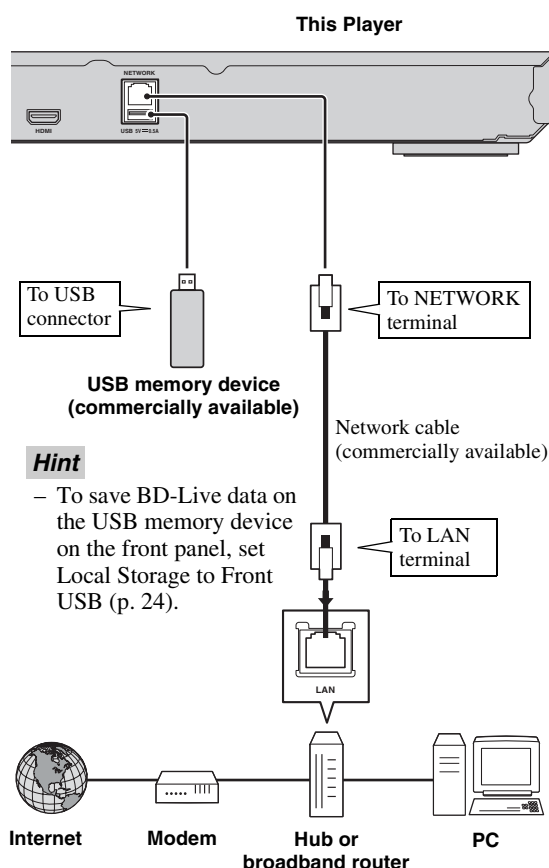
- You can connect a USB memory device for Local Storage to the USB connector on the rear panel (or front panel) of this Player to save the BD-Live data, or to upgrade the software of this Player.
- Firmly connect a USB memory device (commercially available) to the USB connector.

### CAUTION:

- Do not remove the USB memory device or unplug the power cable while the operations for BD-Live (p. 20) or software upgrade are being performed.
- Do not use a USB extension cable when connecting a USB memory device to the USB connector of this Player. Using a USB extension cable may prevent the Player from performing correctly.

### Note

- Yamaha cannot guarantee that all brands' USB memory devices will operate with this Player.



English

## After connecting

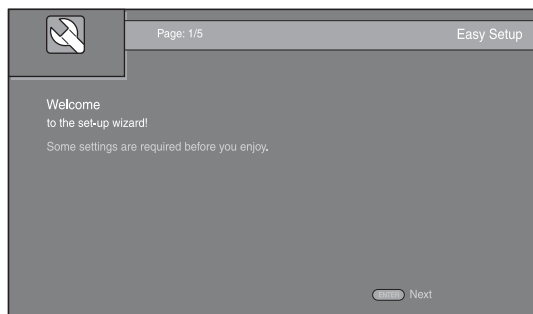
- When you set the Network setting manually, refer to “Network” (p. 25).
- To play back the PC contents on your network, refer to “Using network content” (p. 15).

# Initial Wizard/Easy Setup

## ■ Setting with the Initial Wizard/Easy Setup

Initial Wizard/Easy Setup allows you to set language, resolution, and screen aspect ratio easily. Initial Wizard screen is displayed when you turn this Player on for the first time after purchase. Same setting can be performed from SETUP menu → System → Easy Setup.

- 1 When Easy Setup screen is displayed, press **ENTER** to start Easy Setup.



- 2 Set the language, resolution, and screen aspect ration by following the on-screen messages.

### Notes

- When no picture is displayed after Initial Wizard/Easy Setup is completed, refer to “Troubleshooting” (p. 32).
- A warning message concerning 3D video playback appears when this Player is turned on. Press **ENTER** to dismiss the message or **CLEAR** to disable it (p. 24).

# HOME/MEDIA menu

HOME and MEDIA menus allow you to browse and play multi-media files on data discs, USB memory devices and your network.

## Note

- For details on playable discs and formats, see page 3.

## ■ Playing back photo/music/video

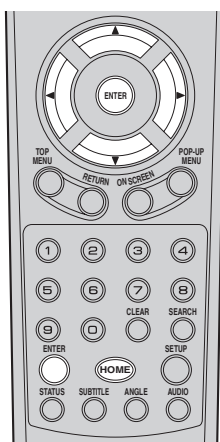
### Basic operation

◀/▶/▲/▼: Moves the focus.

◀: Returns to the parent folder.

HOME: Moves to/exits HOME menu screen.

ENTER: Confirms the folder/file.



### Icons on the top of MEDIA menu

Ⓢ: Plays back the disc on the tray, or displays contents in the data disc.

🔑: Displays contents in the USB memory device connected to the USB connector.

🌐: Searches for a DLNA (p. 15) server on the network.

🖥️: Displays contents on the connected DLNA server.

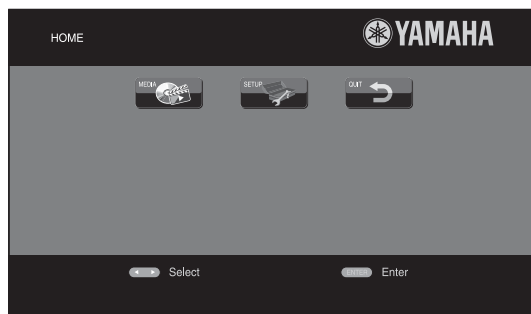
## Common operations for playing back files in a selected folder

**Example:** Selecting a movie file on a USB memory device

## Note

- Stop the playback of the video before you move to MEDIA menu screen.

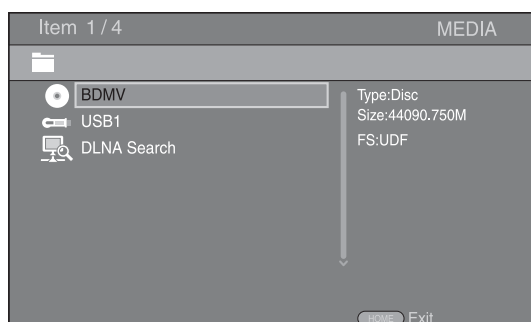
- 1 Press **HOME** to move to HOME menu screen.



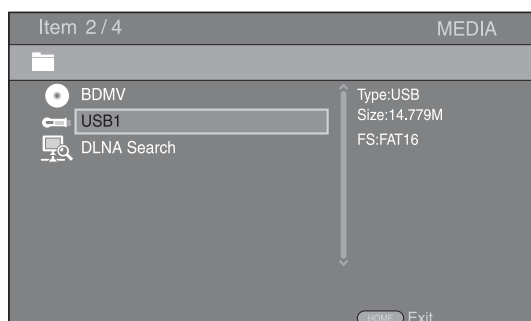
## Hint

- The HOME menu screen may differ depending on the model.

- 2 Press ◀/▶/▲/▼ to select MEDIA, then press **ENTER**. MEDIA screen appears.



- 3 Select the item which contains the file you want to play back, then press **ENTER**.




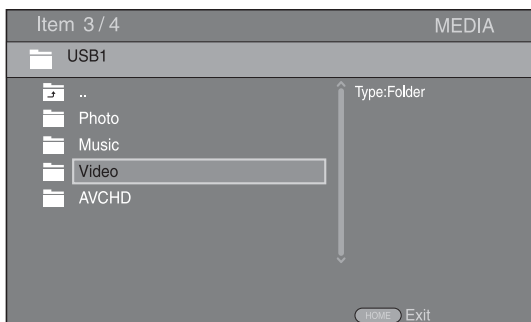
3

Playback

English

- 4 Select the Photo, Music, Video or AVCHD folder you want to play back, then press **ENTER**.

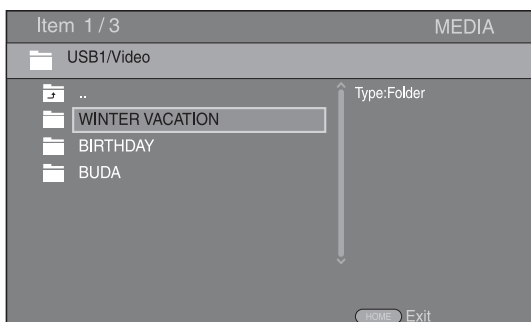
To return to the parent folder, press ◀ or select .



#### Note

- Note that the only the file type selected on this step will be displayed in the following step. For example, if you selected Photo folder in this step, only photo files are displayed after this step. When you want to play back other than photo, return to this step and select file type again.

- 5 Select the folder(s) containing the file you want to play back.

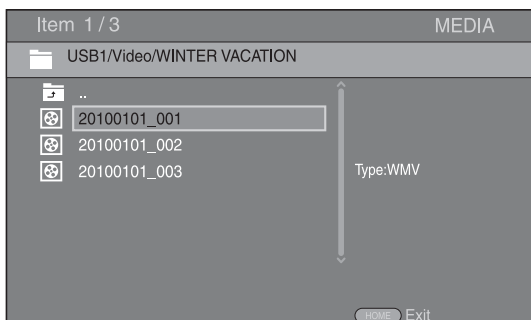


- 6 Select the file you want to play back, then press **ENTER**.

When a video file is selected, playback starts.

When a music file is selected, status screen is displayed and playback starts.

When a photo file is selected, slide show starts.



#### Hint


- To enjoy slide show with music, press **HOME** to return to the HOME menu screen while music is played back, and select photo file.


#### Note


- The displayed file may not be played back depending on the content.


### Operations for viewing photos


While viewing photos, the buttons on the remote control work as shown below.


: Stops slide show and returns to the file browser.


: Pauses a slide show.

: Plays a slide show.


: Moves to a next photo.


: Moves to a previous photo.


: Makes a slide show faster in 3 steps.

: Makes a slide show slower in 3 steps.


: Inverts a photo.


: Reflects a photo.

: Rotates a photo counterclockwise.

: Rotates a photo clockwise.

**ZOOM:** Zooms in/out a photo (zoom in/out: 3 steps each).

: Pans in zoom mode when a photo is larger than the screen.

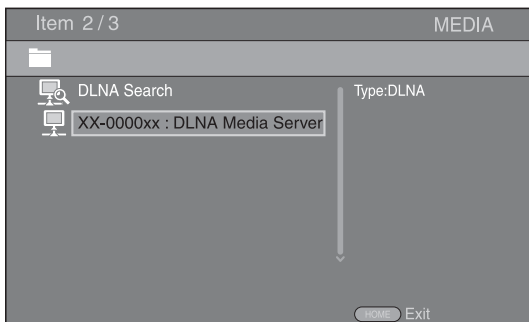
**DIGEST:** Switches to thumbnail mode (p. 7). When thumbnails are displayed, you can proceed to the next/previous page with /◀/▶/◀.

## ■ Using network content

This Player is DLNA certified (p. 34). You can manage photo, music and video contents stored on DLNA servers on your home network.

### Playing back shared contents

- 1 To play back files on your PC, install a DLNA server software, such as Windows Media Player 12, and share files you want to play back.
- 2 Turn on the PC with DLNA server software installed or the DLNA device connected to your home network.
- 3 Press **HOME** to display HOME menu screen. Then select **MEDIA** to move to MEDIA menu. The DLNA servers connected to the network are listed on the screen.



#### Notes

- If your DLNA server is not listed, select DLNA Search to find it.
  - Depending on the DLNA server, this Player may need to be permitted from the server.
  - To play the file on the DLNA server, this Player and the server must be connected to the same access point.
  - The file requirements may not always be compatible. There may be some restrictions depending on file features and DLNA sever capability.
- 4 Select the file you want to play back.

#### Notes

- The playback and operating quality may be affected by your home network condition.
- The files from removable media such as USB memory devices or DVD-drive on your media server, may not be shared properly.

## Using network services

You can instantly watch the videos that the following network services provide.

- YouTube

### Notes

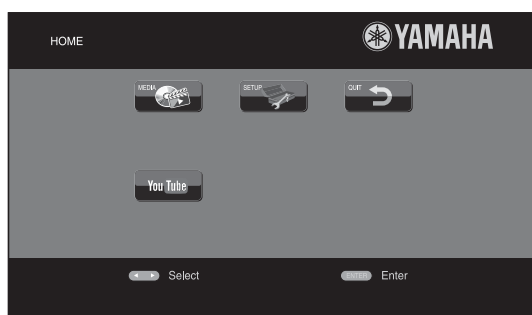
- Access to content provided by third parties requires a high speed internet connection and may also require account registration and a paid subscription.
- Third party content services may be changed, suspended, interrupted, or discontinued at any time without notice, and Yamaha disclaims any liability in connection with such occurrences.
- Some content may only be available for specific countries and may be presented in specific languages.
- Yamaha does not represent or warrant that content services will continue to be provided or available for a particular period of time, and any such warranty, express or implied, is disclaimed.

## Playing videos from YouTube™

You can watch movies from YouTube over the internet using this Player.

The services may be changed without notice.

- 1 Press **HOME** to display HOME menu screen.



### Hint

- The HOME menu screen may differ depending on the model.

- 2 Press **◀/▶/▲/▼** to select YouTube, then press **ENTER**.

### Hint

- To return to the HOME menu screen, press **RETURN**.



# Advanced playback operation

3

Playback

English

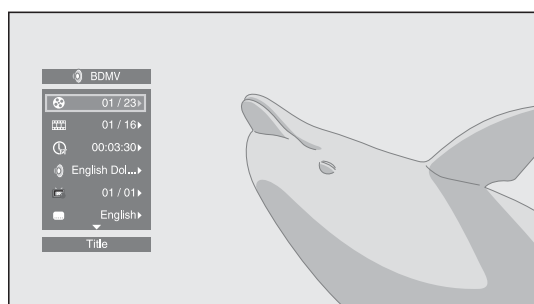
This chapter explains playback of commercially available Blu-ray Discs, DVDs, CDs, and recorded DVD-RW/R discs.

## Note

- For the basic playback operation, see page 6.

## ■ On Screen menu

To display On Screen menu, press **ON SCREEN**. After that, press **▲/▼/◀/▶** to select an item, then press **ENTER** to operate the desired function.



On Screen menu contains following items.

**Title** **BD** **DVD** **VIDEO** : Shows the title number being played back. You can skip to the desired title by selecting it from this item.

**Chapter** **BD** **DVD** **VIDEO** : Shows the chapter number being played back. You can skip to the desired chapter by selecting it from this item.

**Track/File** **CD** **VIDEO** **MUSIC** **PHOTO** : Shows track/file number being played back. You can skip to the desired track/file by selecting it from this item.

**Time** **BD** **DVD** **CD** **VIDEO** **MUSIC** : Shows the playback time. Select display type from the following:

- Elapsed playback time of the title, chapter, disc, track or file
- Remaining playback time of the title, chapter, disc, track or file

## Mode/Play Mode

**DVD** **CD** **VIDEO** **MUSIC** **PHOTO** : Shows current playback mode. You can select playback mode from the following:

- CD**
  - Normal: Normal playback.
  - Shuffle: Random playback without repetition.
  - Random: Random playback with repetition.

## DVD

- Normal
- Shuffle CH (chapter)
- Shuffle TT (title)
- Shuffle All
- Random CH (chapter)
- Random TT (title)
- Random All

## VIDEO MUSIC PHOTO

- Normal
- Shuffle F (folder)
- Random F (folder)

**Audio** **BD** **DVD** **VIDEO** : Shows audio language/signal of a Blu-ray Disc/DVD currently selected. You can select the desired type of audio.

**Angle** **BD** **DVD** : Shows the currently-selected angle number. If the video is recorded with multiple angles, you can change the angle.

**Subtitle** **BD** **DVD** **VIDEO** : Shows the currently-selected subtitle language when the subtitle is provided.

**Subtitle Style** **BD** : Shows the currently-selected subtitle style. This function is available only for Video-file external subtitle. You can select the desired text style of subtitle.

**Bitrate** **BD** **DVD** **CD** **VIDEO** **MUSIC** : Shows bitrate of the audio/video signal.

**Second Video** **BD** : Turns the PIP on/off (p. 6).

**Second Audio** **BD** : Turns the secondary audio on/off (p. 6).

## Ins Search

**BD** **DVD** **CD** **VIDEO** **MUSIC** : Skips 30 seconds.

## Ins Replay

**BD** **DVD** **CD** **VIDEO** **MUSIC** : Replays the content from 10 seconds before.

## Slide Show PHOTO :

Shows slide show speed. You can select the slide show speed from Slow/Medium/Fast.

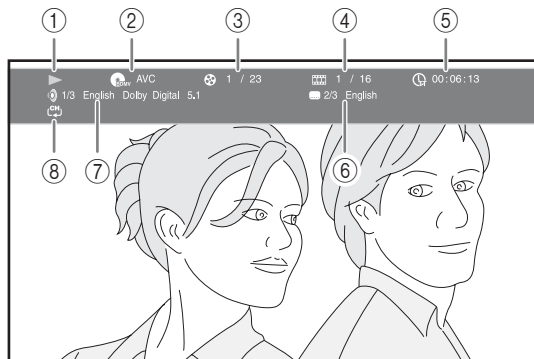
**Transition** **PHOTO** : Shows how photo appears on the screen. You can select the transition type.

## ■ Status menu

This shows various settings, such as subtitles, angle settings and the title/chapter/track number currently played back. To display status menu, press **STATUS**. Status menu contains following menus.

**BD DVD VIDEO**

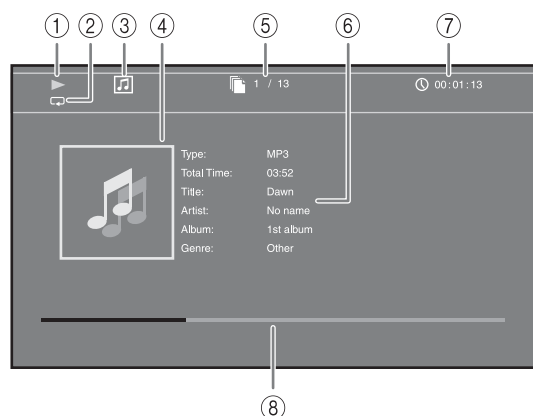
**Example:** Icons when playing a Blu-ray Disc



- ① **(Playback status)**
- ② **(Disc type/video file icon)**
- ③ **(Title number being played):** You can jump to specified title with **SEARCH** button (p. 7).
- ④ **(Chapter number being played):** You can jump to specified chapter with **SEARCH** button (p. 7).
- ⑤ **(Elapsed playback time):** You can jump to specified point with **SEARCH** button (p. 7).
- ⑥ **(Subtitle currently selected):** You can change the subtitle language with **SUBTITLE** button.
- ⑦ **(Audio currently selected):** You can change the audio language or format with **AUDIO** button.
- ⑧ **(Repeat mode):** Shows current repeat mode (p. 6).

**CD MUSIC**

**Example:** Icons when playing a music file



- ① **(Playback status)**
- ② **(Repeat mode):** Shows current repeat mode (p. 6).
- ③ **(Disc type/music file icon)**
- ④ **(Artwork) MUSIC:** Displays artwork if the file contains it.
- ⑤ **(Track/file number being played):** You can jump to specified track with **SEARCH** button (p. 7).
- ⑥ **(Information) MUSIC:** Displays music information if the file contains them.
- ⑦ **(Elapsed playback time):** You can jump to specified point with **SEARCH** button (p. 7).
- ⑧ **(Progress bar) MUSIC:** Shows progress status of current song.

**PHOTO**



- ① **(Playback status)**
- ② **(Photo file icon)**
- ③ **(File number being displayed)**
- ④ **(Repeat mode):** Shows current repeat mode (p. 6).
- ⑤ **(Slide show speed)**

## ■ Using Bookmark DVD VIDEO

This allows you to set Bookmark at the specified point of the video. After Bookmark is set, you can move to the point you set using this function. You can set up to 12 Bookmarks.

- 1 Press **MARKER** during playing back the movie to set Bookmark. Bookmark number, and the status are displayed.

Bookmark: 1/12 Title: 1 Chapter: 1 Time: 00:01:26

- 2 After Bookmark is set, press **DIGEST** to display Bookmark select bar.

Title:01 Chapter:01 Time: 00:01:26 Bookmark  
 01 02 03 04 05 06 07 08 09 10 11 12 Clear

- 3 Press **◀/▶** to select the Bookmark you want to play back, then press **ENTER**.  
 Press **CLEAR** to delete the selected Bookmark.

### Note

- When playback is finished (e.g., ejecting the disc, pressing **■** twice), Bookmarks are automatically deleted.

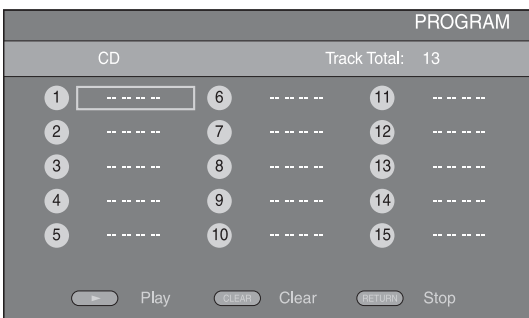
## ■ Program play DVD CD

This allows you to program playback order of audio disc tracks or DVD chapters.

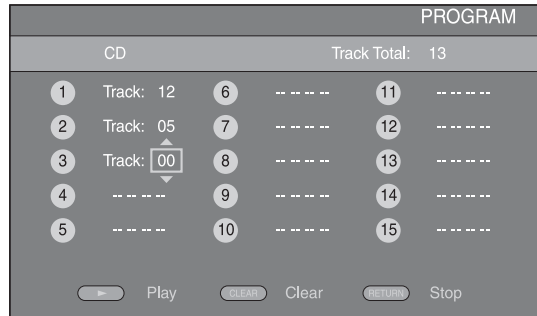
Press **PROGRAM** during playback to display the PROGRAM window to program playback order. You can program up to 15 tracks/chapters.

**Example:** Programming the playback order of CD tracks

- 1 Press **PROGRAM** during playback.



- 2 Press **ENTER** to program playback order.  
 For audio disc, press **▲/▼** to select a desired track then press **ENTER**.  
 For DVD-Video disc, select a desired title (shown as TT) and chapter (shown as CH) instead of a track.  
 To clear a set track, select the track you want to clear, then press **CLEAR**.  
 Press **RETURN** to cancel the Program play.



- 3 After programming is finished, press **▶** to set and start program playback.
- 4 To cancel program play, stop playback completely by pressing **■** twice.





## ■ Using Search

BD DVD CD VIDEO MUSIC PHOTO




This allows you to jump to the specified point during playback.

- 1 Press **SEARCH** during playback. Status bar appears.
- 2 Press **▲/▼/◀/▶** to select one of the item below, then press **ENTER**.

BD DVD :

- Title number (shown as )
- Chapter number (shown as )
- Elapsed title time (shown as )
- Elapsed chapter time (shown as )

CD :

- Track number (shown as )
- Elapsed track time (shown as  TRACK)
- Elapsed disc time (shown as  DISC)

VIDEO MUSIC :




- File number (shown as )
- Elapsed file time (shown as )

PHOTO :

- File number (shown as )

- 3 Press **▲/▼** or number buttons to set/adjust the value of the focused item, and press **ENTER** to jump to the specified point.
- 4 To close the status bar, press **STATUS**.

## ■ Enjoying BONUSVIEW™ and BD-Live™

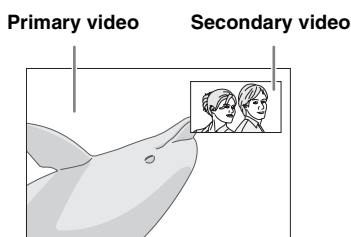
This Player supports BONUSVIEW (p. 34) (BD-ROM Profile 1 Version 1.1) and BD-Live (p. 34) (BD-ROM Profile 2) playback functions.



### Note

- Functions and playback method vary depending on the disc. See the guidance on the disc or the supplied user's manual.

## ■ Using Picture in Picture function (secondary audio/video playback)

BD-Video that includes secondary audio and video compatible with Picture in Picture can be played back with secondary audio and video simultaneously as a small video in the corner.



**While PIP Mark (  ) or Secondary Audio Mark (  ) is displayed, press PIP to turn the Picture in Picture function on/off.**

### Notes

- To listen to secondary audio, make sure that the Audio Output setting (HDMI) is set to PCM or Reencode (p. 27).
- Depending on the disc, to listen to secondary audio, you may need to set secondary audio to on from the top menu of the disc (p. 8).
- The secondary audio and video for Picture in Picture may automatically play back and be removed depending on the content. Also, playable areas may be restricted.

## ■ Using the feature of BD-Live™

### 1. Set the Network setting (p. 25).

### 2. Connect the USB memory device to this Player (p. 11).

BD-Live data is saved in a USB memory device connected to this Player. To enjoy these functions, connect a USB memory device supporting USB 2.0 High Speed (480 Mbit/s) to the USB connector that you select on Local Storage (p. 24). The default setting is the USB connector on the rear panel.

- BUDA folder is created automatically in the USB memory device when necessary.
- If there is insufficient storage space, the data will not be copied/downloaded. Delete unneeded data or use a new USB memory device.
- Some time may be required for the data to load (read/write).

### Notes

- Yamaha cannot guarantee that all brands' USB memory devices will operate with this Player.
- Do not use a USB extension cable when connecting a USB memory device to the USB connector of the Player. Using a USB extension cable may prevent the Player from performing correctly.

### 3. Play back the disc.


### 4. Run BD-Live according to the instructions on the disc.




### Notes

- Regarding playback method of BD-Live contents, etc., perform the operations in accordance with the instructions in the Blu-ray Disc manual.
- To enjoy BD-Live functions, perform the network connection (p. 11) and Network settings (p. 25).
- Refer to "BD-Live Connection" (p. 25) regarding the setup to restrict access to BD-Live contents.
- The time required to download the provided programs into the USB memory device connected to this Player varies depending on the internet connection speeds and the data volume of the programs.
- BD-Live programs provided through the internet may not be able to display the connection depending on the status (upgrading) of the provider. In such cases, take out the disc and try again.
- If the BD-Live screen does not appear for a while after you select the BD-Live function in the Blu-ray Disc menu, the USB memory device may not have enough free space. In such cases, eject the disc from the Player, and then erase the data in the USB memory device using the "Format" menu in the "Local Storage" (p. 24).

# SETUP menu

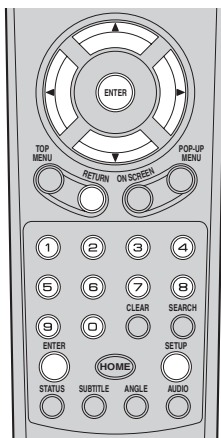
The SETUP menu enables various audio/visual settings and adjustments for functions using the remote control unit.

Menu/Submenu	Item	Function	Page
 <b>General Setting</b>	<b>System</b>		
	Screen Saver	Sets screen saver on/off.	24
	Disc Auto Playback	Sets this Player to start disc playback automatically.	24
	HDMI Control	Sets this Player to receive control signal from the remote control of your TV/AV receiver.	24
	Load Default	Resets all settings to the default setting except Security setting.	24
	Upgrade	Performs upgrade of this Player.	24
	Easy Setup	Sets language, resolution, screen aspect ratio.	24
	Local Storage	Displays status of Local Storage (p. 24), formats Local Storage and selects the front/rear USB connector for Local Storage.	24
	3D Playback Message	Displays a warning message concerning 3D video playback when this Player is turned on.	24
	<b>Language</b>		
	OSD	Selects the language for On Screen Display.	24
	Menu	Prioritizes the language for disc menu.	24
	Audio	Prioritizes the language for audio.	24
	Subtitle	Prioritizes the language for subtitle.	24
	<b>Playback</b>		
	Angle Mark	Sets to display the Angle Mark when Blu-ray Disc/DVD with multiple angles is played back.	25
	PIP Mark	Sets to display the PIP Mark when Blu-ray Disc/DVD with Picture in Picture is played back.	25
	Secondary Audio Mark	Sets to display the Secondary Audio Mark when Blu-ray Disc/DVD with secondary audio is played back.	25
	Last Memory	Sets this Player to remember the last playback position of a disc when it is set to standby mode or the disc tray is opened.	25
	<b>Security</b>		
	Change Password	Changes password for Parental Control and Country Code.	25
	Parental Control	Sets the Parental Control depending on the disc content.	25
	Country Code	Sets your Country Code.	25
	<b>Network</b>		
	Internet Connection	Sets the internet connection to Enable/Disable.	25
	Information	Displays network information screen.	25
	Connection Test	Performs the network connection test.	25
	IP Setting	Sets the IP setting to Auto/Manual.	25
	BD-Live Connection	Sets the BD-Live connection to Permitted/Partial Permitted/Prohibited.	25
	DLNA	Sets the DLNA to Enable/Disable.	25
	Proxy Setting	Sets the proxy setting.	25

Menu/Submenu		Item	Function	Page
 <b>Display Setting</b>	<b>TV</b>	3D Output	Selects 3D or 2D videos.	26
		TV Screen	Sets the screen aspect ratio of the connected TV, and adjust the video output.	26
		Video Out Select	Selects the resolution of video output.	26
		TV System	Selects the TV System from NTSC/PAL/Multi.	26
		Color Space	Selects Color Space from YCbCr 4:4:4/YCbCr 4:2:2/Full RGB/RGB.	26
		HDMI Deep Color	Selects HDMI Deep Color from 30 bits/36 bits/48 bits/Off.	26
		HDMI 1080p 24Hz	Sets HDMI 1080p 24Hz to auto/off.	27
		Lip Sync	Adjusts the lag between video and audio, such as when the mouth movement is out of sync with the voice.	27
	<b>Video Process</b>	Video Mode	Adjusts the visual image.	27
		Color Adjust	Adjusts Brightness/Saturation/Hue for each color.	27
		Noise Reduction	Sets the level of Noise Reduction.	27
		De-interlacing Mode	Sets how to detect the video signal.	27
 <b>Audio Setting</b>	<b>Audio Output</b>	HDMI	Selects the output mode of HDMI terminal from Bitstream/PCM/Reencode/Off.	27
		DRC	Sets the DRC (Dynamic Range Compression).	27
 <b>System Information</b>			Displays software version and MAC address (p. 35).	27

## ■ Example of SETUP menu operation

You need to call up the SETUP menu screen to perform settings for this Player. The following is the explanation for basic operations of the SETUP menu.



**Example:** Setting Parental Control

### Note

- Some items cannot be set during playback. In this case, press **■** twice to stop playback completely before setting.

### 1. Display the SETUP menu screen.

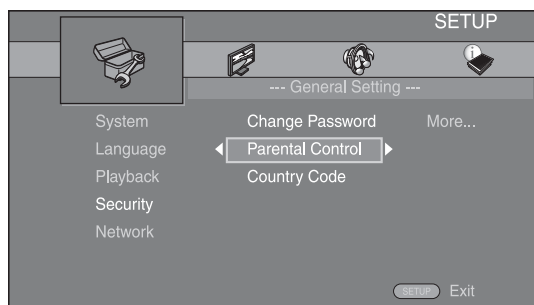
Press **SETUP** to display the SETUP menu screen. Press **◀▶** to select General Setting, then press **ENTER** or **▼**.

### 2. Select a Submenu.

Press **▲/▼** to select Security, then press **ENTER** or cursor **▶**.

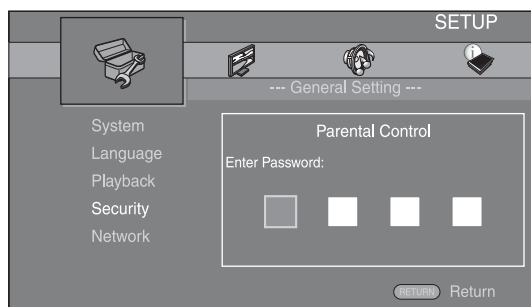
### 3. Select a menu item.

Press **▲/▼** to select Parental Control, then press **ENTER** or cursor **▶**.



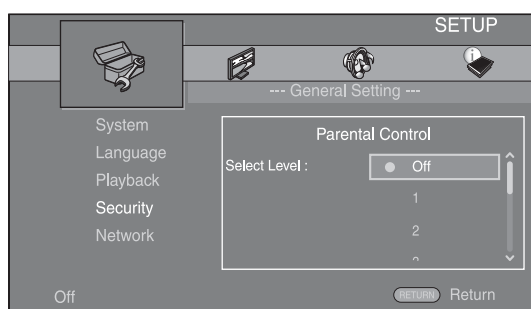
### 4. Enter password.

- Enter your password with number buttons.
- The default password is 0000.
  - You cannot move to the next setting screen until you have input the correct password.
  - To change the password, refer to “Change Password” (p. 25).



### 5. Select a next item.

Press **▲/▼** to select the Parental Control Level for Blu-ray Disc/DVD, then press **ENTER**.



### 6. Exit the menu screen.

Press **◀** to return to the previous menu.

## ■ General Setting

The default settings are marked with “\*”.

### System

#### Screen Saver

You can set the screen saver to on/off.

When set to on, this Player will switch to screen saver mode if there is no operation for 3 minutes. After that, this Player will turn to standby mode when there is no operation for 27 minutes.

On\*, Off

#### Disc Auto Playback

You can set Disc Auto Playback to on/off. When set to on, a disc will play back automatically after loading.

On\*, Off

#### HDMI Control

You can set the Player to receive control signal from a TV/AV receiver compatible with the HDMI Control function via an HDMI cable (p. 10).

On, Off\*

#### Using HDMI Control function

Using the HDMI Control function, you can interactively operate this Player with your TV (HDMI Control function supported).

When you connect this Player to the TV compatible with the HDMI Control function using an HDMI cable and set HDMI Control in the SETUP menu to on (p. 24), you can perform the function listed below.

- Automatic input select function

When you start playback of this Player, the input selector of the TV (and an AV receiver if this Player is connected to the TV via the AV receiver) is switched to this Player automatically. TV Power is turned on automatically depending on the TV.

- Automatic power off function

When you turn off the TV while this Player is in stop mode and the SETUP menu screen is not displayed, the power of this Player is also turned off automatically.

#### Notes

- HDMI Control function may not work properly depending on the TV.
- Functions other than ones shown above may work depending on the TV or AV receiver.
- In order to make the HDMI Control function available, set up settings for the HDMI Control function on ALL components (this Player, TV, and AV receiver). Certain operation may also be required.
- Each function may be set independently to activate/deactivate depending on the TV.
- Refer to the operation manuals supplied with the TV and/or AV receiver for details regarding setup.
- When set to on, power consumption during standby mode increases due to HDMI Control function.

### Load Default

You can reset all settings of this Player to default setting except Security setting (p. 25). For details on default settings, see pages 21–27.

### Upgrade

You can upgrade the software manually from USB Storage or Network. For details on software upgrade, refer to “Software upgrade” (p. 30).

### Easy Setup

You can perform Easy Setup (p. 12).

### Local Storage

You can display Local Storage information, format Local Storage, and select Front USB/Rear USB to save the BD-Live data.

To format (empty) the “BUDA” folder in the USB memory device, select Information and press **ENTER** when “Format” is focused on the screen.

### Front USB, Rear USB\*

#### Hint

- Local Storage is used as an auxiliary memory when Blu-ray Disc is played back.

### 3D Playback Message

You can turn on or off a warning message concerning 3D video playback that appears on the TV when this Player is turned on.

On\*, Off

## Language

### OSD

You can select the language for On Screen Display which is the messages or menu displayed on the screen such as SETUP menu.

English, Français, Español, Deutsch, Italiano, Svenska, Nederlandse, Русский, 中文

### Menu

You can prioritize the language for disc menu.

English, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Portuguese, Danish, Svenska, Finnish, Norwegian, Русский, Korean, Japanese, More

### Audio

You can prioritize the audio language for Blu-ray Disc/DVD playback. For details on setting items, see “Menu” (p. 24).

### Subtitle

You can prioritize the language for Subtitle.


English, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Portuguese, Danish, Svenska, Finnish, Norwegian, Русский, Korean, Japanese, More, Off

(The default settings in [Language] differ depending on your model.)




## Playback

### Angle Mark

You can set to display the Angle Mark () when Blu-ray Disc/DVD with multiple angles is played back.


On\*, Off

### PIP Mark

You can set to display the PIP Mark () when Blu-ray Disc with picture in picture (p. 20) is played back.

On\*, Off

### Secondary Audio Mark

You can set to display the Secondary Audio Mark () when Blu-ray Disc with secondary audio is played back.

On\*, Off

### Last Memory

You can set whether this Player remembers the last playback position of a disc when it is set to standby mode or the disc tray is opened.

On\*, Off

#### Note

- Some discs are not compatible with this function.

## Security

### Change Password

You can set the password for changing the Parental Control Level and Country Code. Refer to “Parental Control” (p. 25) and “Country Code” (p. 25).

#### Notes

- The default password is 0000.
- If you forget the password, refer to “Troubleshooting” (p. 31) and set all the Security settings to their default settings.

### Parental Control

In some Blu-ray Discs/DVDs, a control level for disc viewing is set depending on the age of the viewer. You can set the Parental Control shown on the screen depending on the disc content.

The password (see “Change Password” on p. 25) needs to be entered before the Parental Control Levels is set.

After you set the Parental Control, when you play back a disc with level higher than current Parental Control Level, or you want to change the Parental Control Level, a dialog box will pop up to ask you to enter the password.

Off\*, 1–8

### Country Code

You can set the Country Code you live in. The password (see “Change Password” on p. 25) needs to be entered before the Country Code is set. This setting may be used for rating of Parental Control and disc playback.

## Network

### Internet Connection

Set this item to Enable when you use BD-Live (p. 20), DLNA (p. 15), software upgrade from the network (p. 30), and the other network functions.

Enable\*, Disable

### Information

You can display network information screen. On this screen, you can view the information of Interface (Ethernet), Address Type, IP Address, Subnet Mask, Default Gateway, and DNS.

### Connection Test



You can perform an internet connection test. If the test is failed, please check “IP Setting” (p. 25) and perform the test again.

### IP Setting

You can configure the network settings.

- |               |  |
|---------------|--|
| <b>Auto*</b>  | Select to automatically configure the network settings of this Player with the DHCP server.            |
| <b>Manual</b> | Select to configure the network settings (IP Address, Subnet Mask, Default Gateway, and DNS) manually. |

#### Hints

- **Numeric keys** Enters characters.
-   Moves the highlight.
- **CLEAR** Deletes a character.
- **ENTER** Saves the settings and exits from the menu.

### BD-Live Connection

You can set access restriction to BD-Live contents.

- |                           |   |
|---------------------------|---|
| <b>Permitted</b>          | Allows all BD-Live discs to connect the network.    |
| <b>Partial Permitted*</b> | Allows only discs with owner certification.         |
| <b>Prohibited</b>         | Prohibits all BD-Live discs to connect the network. |

### DLNA

You can set the DLNA (p. 34) to Enable/Disable. When you do not use the DLNA function, set to Disable.

Enable\*, Disable

### Proxy Setting

You can set Proxy Setting. Set to Disable for normal use. Set to Enable to set the proxy setting.

- |                   |   |
|-------------------|---|
| <b>Enable</b>     | Enables proxy host and proxy port setting.                                    |
| <b>Disable*</b>   | Sets proxy server to disable. Select this item when proxy server is not used. |
| <b>Proxy Host</b> | Sets proxy host.  |
| <b>Proxy Port</b> | Sets proxy port.  |

## ■ Display Setting

The default settings are marked with “\*”.

### TV

#### 3D Output

You can select 3D or 2D video output from this Player.

- Auto\*** This Player automatically selects 3D or 2D videos.  
**Off** This Player always selects 2D videos.

#### Note


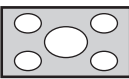
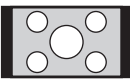
- Even if you set “3D Output” to “Auto” and play back a Blu-ray 3D Disc, this Player selects 2D images depending on the connection and the setting of TV, etc (p. 10).

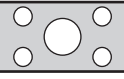


#### TV Screen

You can set the screen aspect ratio of the connected TV, and adjust the video output.

If you switch your TV (i.e. because you have bought a new one) and the screen aspect ratio of the connected TV changes, you will have to change the TV Screen setting.

- 16:9 Full** Select this when this Player is connected to a TV with a 16:9 screen. When a 4:3 aspect ratio video is played back, the video is displayed as shown below.
- 16:9 Normal\*** Select this when this Player is connected to a TV with a 16:9 screen. When a 4:3 aspect ratio video is played back, the video is displayed as shown below.
- 4:3 Pan Scan** Select this when this Player is connected to a TV with a 4:3 screen. When a 16:9 aspect ratio video is played back, the video is displayed as shown below.
- 4:3 Letter Box** Select this when this Player is connected to a TV with a 4:3 screen. When a 16:9 aspect ratio video is played back, the video is displayed as shown below.

Original image size	On 16:9 (wide screen) TV	
	16:9 Full	16:9 Normal
 4:3		

Original image size	On 4:3 TV	
	4:3 Pan Scan	4:3 Letter Box
 16:9		

### Video Out Select

You can select the video output resolution from Auto, 480i/576i, 480p/576p, 720p, 1080i, and 1080p.

When set to Auto, resolution is set to the maximum resolution according to the connected TV.

For more details on output formats, refer to “About the video output formats” (p. 29).

**Auto\*, 480i/576i, 480p/576p, 720p, 1080i, 1080p**

#### Note

- To output HD audio (Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Video Out Select to Auto or more than 720p.

### TV System

You can select TV System from PAL, NTSC and Multi. Set the same TV System as your TV set. For more details on output formats, refer to “About the video output formats” (p. 29).

#### NTSC, PAL, Multi

(The default setting differs depending on your model.)

### Color Space

You can select the Color Space (p. 34) output from HDMI. This function is available when this Player is connected with an HDMI cable.

**YCbCr 4:4:4\*** Sets Color Space to YCbCr 4:4:4.

**YCbCr 4:2:2** Sets Color Space to YCbCr 4:2:2.

**Full RGB** When RGB is set and white and black on the screen are too faint, select this item. This setting is effective when a connected component supports RGB 0–255 range.

**RGB** Outputs video signal at normal signal range.

#### Note

- This function is only available on TVs that support this function.

### HDMI Deep Color

When your TV and/or AV receiver is compatible with Deep Color (p. 34), set this item according to your TV/AV receiver. This function is available when this Player is connected with an HDMI cable.

**30 bits, 36 bits, 48 bits, Off\***

## HDMI 1080p 24Hz

This outputs the BD-Video encoded in 24Hz frame rate in HDMI 1080p 24Hz. Smoother video playback may be available with this function. This function is available when your TV/AV receiver support this function, and this Player is connected with an HDMI cable. For more details on output formats, refer to “About the video output formats” (p. 29).

**Auto\*, Off**

### Note

- This setting is disabled when output resolution is other than 1080p.

## Lip Sync

You can set/adjust the Lip Sync (p. 35) function.

**Auto\*** This Player adjusts the Lip Sync function automatically.

**Manual** You can adjust the Lip Sync function manually. You can set the delay of the audio for 2D and 3D contents independently.

**2D**

**3D**

**Off** This Player does not adjust the Lip Sync function.

## Video Process

### Video Mode

You can select Video Mode below.

**Standard\*** The image is most natural and well-balanced. This mode suits for normal use.

**Vivid** The image is more vivid and sharp.

**Cinema** The image suits for watching movie in dark room.

**Custom** You can adjust the visual image manually. Press ▲/▼ to select the parameter, then press ◀/▶ to adjust the figure.

### Brightness

Adjusts the overall brightness of the image.

### Saturation

Adjusts the richness of the color in the projected image.

### Hue

Adjusts the tint of the projected image.

### Contrast

Adjusts the bright areas (white levels) in the image.

### Sharpness

Adjusts the sharpness of objects in the video.

### CTI

Smooths out the edges of color images. Color images are rendered more distinct.

**The default settings are 0.**

## Color Adjust

You can adjust Brightness/Saturation/Hue for each color (Red/Green/Blue/Yellow/Cyan/Magenta). To use this function, set Video Mode to Custom. For details on the setting items, see “Video Mode” (p. 27).

**The default settings are 0.**

## Noise Reduction

You can set the Noise Reduction to a level of 0 to 3. 0 is off, and 3 is the maximum level.

**0, 1, 2\*, 3**

## De-interlacing Mode

You can select how to detect the video signal. Set to Auto for normal use. When horizontal stripping noise appears on the screen, set this to Film/Video to remove the noise.

**Auto\*, Film, Video**

## Audio Setting

The default settings are marked with “\*”.

### Audio Output

#### HDMI

You can select the output mode of HDMI terminal. For more details on output formats, refer to “About the audio output formats” (p. 28).

**Bitstream\*, PCM, Reencode, Off**

### Note

- To output HD audio (Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Video Out Select to Auto or more than 720p (p. 26).

## DRC

You can set the DRC (Dynamic Range Compression) (p. 34) to on/off/Auto. When set to Auto, DRC is automatically turned on for a source with DRC information in Dolby TrueHD format. DRC makes the strong sound such as plosive sound lower, and conversations more audible. It is useful when you watch movies in the night.

**Off, On, Auto\***

## System Information

Software version and MAC address (p. 35) are displayed.

## ■ About the audio output formats

Source format		HDMI		
		Bitstream	PCM	Reencode
PCM 2ch	with SA* or BCS**	PCM 2ch		Dolby Digital
	without SA* or BCS**	PCM 2ch		
PCM 5.1ch	with SA* or BCS**	PCM 5.1ch		Dolby Digital
	without SA* or BCS**	PCM 5.1ch		
PCM 7.1ch	with SA* or BCS**	PCM 7.1ch		Dolby Digital
	without SA* or BCS**	PCM 7.1ch		
Dolby Digital	with SA* or BCS**	Dolby Digital	PCM up to 5.1ch	Dolby Digital
	without SA* or BCS**			
Dolby Digital Plus	with SA* or BCS**	Dolby Digital Plus	PCM up to 7.1ch	Dolby Digital
	without SA* or BCS**			Dolby Digital Plus
Dolby TrueHD	with SA* or BCS**	Dolby TrueHD	PCM up to 7.1ch	Dolby Digital
	without SA* or BCS**			Dolby TrueHD
DTS	with SA* or BCS**	DTS	PCM up to 5.1ch	DTS
	without SA* or BCS**			
DTS HD High Resolution	with SA* or BCS**	DTS HD High Resolution	PCM up to 5.1ch (Core decode)	DTS
	without SA* or BCS**			DTS HD High Resolution
DTS-HD Master Audio	with SA* or BCS**	DTS-HD Master Audio	PCM up to 5.1ch (Core decode)	DTS
	without SA* or BCS**			DTS-HD Master Audio

\* “SA” is a Secondary Audio.

\*\* “BCS” is a button click sound, the sound effect for pop-up menus, etc.

### Notes

- When HDMI is set to Bitstream, secondary audio is not output. (p. 27)
- To output HD audio (Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Video Out Select to Auto or more than 720p (p. 26).

## ■ About the video output formats

### When TV System is set to NTSC

	Resolution	Auto	480i/576i	480p/576p	720p	1080i	1080p
HDMI	BD-Video with 1080p/24 Hz content	*1, *2	480i	480p	720p 60 Hz	1080i 60 Hz	1080p 24/60 Hz *2
	Others						1080p 60 Hz

### When TV System is set to PAL

	Resolution	Auto	480i/576i	480p/576p	720p	1080i	1080p
HDMI	BD-Video with 1080p/24 Hz content	*1, *2	576i	576p	720p 50 Hz	1080i 50 Hz	1080p 24/50 Hz *2
	Others						1080p 50 Hz

\*1 Resolution is set to the maximum resolution supported by the connected TV. For example, when the maximum resolution supported by the connected TV is 1080p, the resolution will be set to 1080p.

\*2 If the source is 1080p 24 Hz content, and the connected TV supports 1080p 24 Hz content output, 1080p 24 Hz will be output instead of 1080p 50/60 Hz when resolution is set to Auto or 1080p, and Auto is set for HDMI 1080p 24Hz (p. 27) in Display Setting.

### When TV System is set to Multi

When TV System is set to Multi, video signal is output at the same frequency as the source. Refer to the tables above for details on the frequency setting of the TV and resolution of the output video signal.

#### Notes

- HDMI 1080p 24Hz setting is disabled when output resolution is other than 1080p.
- When TV System is set to NTSC and video source is not 60 Hz, the video output signal is converted to 60 Hz.
- When TV System is set to PAL and video source is not 50 Hz, the video output signal is converted to 50 Hz.

# Software upgrade

Some of the newly released Blu-ray Discs cannot be played back unless you upgrade this Player software to the latest version. We recommend upgrading the software of this Player with software upgrade so that this Player is operated based on the latest software.

To check for the availability of a software upgrade, visit  
<http://download.yamaha.com/>

## Note

- Do not remove the USB memory device, set this Player to standby mode or unplug the power cable/LAN cable while the software upgrade is being performed.

## ■ Upgrading the software

### 1. Prepare for the software upgrade.

When you upgrade the software from USB Storage:

- ① Save the upgrade file package to the appropriate folder on the USB memory device. For more details, refer to the procedure document attached with the upgrade file package.
- ② Connect the USB memory device.  
Skip step 2.

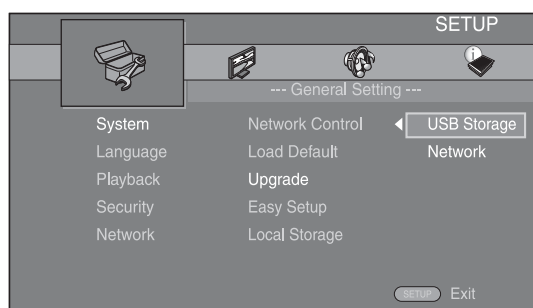
When you upgrade the software from Network:  
Confirm that this Player is connected to the network.

### 3. Upgrade the software by following the on-screen messages.

Upgrade is completed. The system will be reset.

### 2. Select the upgrade method and start upgrade from **SETUP** menu.

- ① Press **SETUP** to display SETUP menu screen.
- ② Select General Setting → System → Upgrade.
- ③ Select the item which contains the upgrade file package from USB Storage/Network.




The system will search for upgrade file package.





# Troubleshooting

Refer to the table below when this Player does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off this Player, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

## ■ Power

Problem	Possible causes and solutions
<b>No power.</b>	<ul style="list-style-type: none"> <li>– Connect the AC power cable properly.</li> <li>– Press  on the front panel to turn on the power.</li> </ul>
<b>The Player power is turned off.</b>	<ul style="list-style-type: none"> <li>– The power will be automatically turned off after 30 continuous minutes of inactivity (no playback).</li> </ul>

## ■ Basic operation

Problem	Possible causes and solutions
<b>The remote control does not work.</b>	<ul style="list-style-type: none"> <li>– Use the remote control within its operating range. (p. 9)</li> <li>– Replace the batteries. (p. 9)</li> </ul>
<b>Buttons do not work.</b>	<ul style="list-style-type: none"> <li>– Press and hold  on the front panel for more than 5 seconds, and release to reset this Player.</li> <li>– To completely reset this Player, unplug the power cable from the AC outlet for 10 seconds or more, plug the power cable to the AC outlet again, and then turn on this Player.</li> </ul>
<b>Password is forgotten.</b>	<ul style="list-style-type: none"> <li>– Press and hold  and  on the front panel simultaneously when no disc is inserted and playback is stopped to set all the settings including Security settings (p. 25) of this Player to their default settings. After the power is turned off automatically, press  to turn on the power again.</li> </ul>

## ■ Disc playback






Problem	Possible causes and solutions
<b>The Player cannot play a disc.</b>	<ul style="list-style-type: none"> <li>– Take out the disc and clean it. (p. 4)</li> <li>– Make sure that the disc is loaded properly (aligned in disc tray and label-side up). (p. 4)</li> <li>– Use a disc supported by the Player. (p. 3)</li> <li>– Remove the disc and then check whether the Player supports the disc or not. (p. 3)</li> <li>– Check the region code. (p. 3)</li> <li>– Check whether the disc is defective by trying another disc.</li> <li>– The CD-R/RW, DVD+R/RW/R DL, and DVD-R/RW/R DL must be finalized. (p. 3)</li> </ul>
<b>Video stops.</b>	<ul style="list-style-type: none"> <li>– The Player will stop if it senses shock or vibration.</li> </ul>
<b>The Player makes a snapping sound when starting playback or loading a disc.</b>	<ul style="list-style-type: none"> <li>– These sounds are not malfunctions of the Player but are normal operating conditions.</li> </ul>

5

Additional Information

English

## ■ Picture

Problem	Possible causes and solutions
<b>No picture.</b>	<ul style="list-style-type: none"> <li>– Make sure that the HDMI cable is connected correctly. (p. 10)</li> <li>– Make sure that the connected TV or the AV receiver is set to the correct input. (p. 10)</li> <li>– With no disc inserted, or playback stopped, press and hold  and  on the front panel simultaneously to set video resolution to the default value.</li> </ul> <p>If a picture is still not output, press and hold  on the front panel for approximately 5 seconds to switch NTSC/PAL.</p>
<b>Screen freezes and operation buttons do not work.</b>	<ul style="list-style-type: none"> <li>– Press , then restart playback.</li> <li>– Turn off the power and turn on the power again.</li> <li>– Press and hold  on the front panel for more than 5 seconds, and release to reset this Player.</li> </ul>
<b>Video is not output with the desired resolution.</b>	<ul style="list-style-type: none"> <li>– Set to the desired resolution. (p. 26)</li> </ul>
<b>Wide-screen video appears vertically stretched, or black bands appear at the top and bottom of the screen. Or 4:3 video appears horizontally stretched.</b>	<ul style="list-style-type: none"> <li>– Change the aspect ratio of your TV. (p. 26)</li> </ul>
<b>Square noise (mosaic) appears on the screen.</b>	<ul style="list-style-type: none"> <li>– Blocks in images may be visible in scenes with rapid movement due to the characteristics of digital image compression technology.</li> </ul>
<b>Audio is not output, or images are not played back properly.</b>	<ul style="list-style-type: none"> <li>– The audio may not be output or the images may not be played back properly for some discs in which copyright-protected contents are recorded.</li> </ul>

## ■ Sound

Problem	Possible causes and solutions
<b>No sound, or sound is distorted.</b>	<ul style="list-style-type: none"> <li>– Check that the HDMI cable is connected correctly. (p. 10)</li> <li>– Turn the volume of TV or AV receiver up.</li> <li>– There is no sound during still mode, fast forward, and fast reverse. (p. 8)</li> <li>– Audio may not be output depending on the audio recording status, such as when audio other than an audio signal or non-standard audio is recorded for the audio content. (p. 3)</li> </ul>
<b>Left and right channels of audio are reversed, or sound comes out of only one side.</b>	<ul style="list-style-type: none"> <li>– Check the HDMI connection. (p. 10)</li> </ul>
<b>Audio is not output, or images are not played back properly.</b>	<ul style="list-style-type: none"> <li>– The audio may not be output or the images may not be played back properly for some discs in which copyright-protected contents are recorded.</li> </ul>
<b>Cannot hear the sound of PIP (secondary audio).</b>	<ul style="list-style-type: none"> <li>– Set HDMI to PCM/Reencode. (p. 27)</li> <li>– To hear secondary audio, press <b>2ND AUDIO</b>. (p. 6)</li> <li>– Depending on the disc, you may need to set secondary audio on the top menu of the disc. (p. 8)</li> </ul>



## ■ Network

Problem	Possible causes and solutions
<b>Cannot connect to the Internet.</b>	<ul style="list-style-type: none"> <li>– Connect the Network cable properly.</li> <li>– Turn on the connected equipment, such as broadband router or modem.</li> <li>– Connect the broadband router and/or modem properly.</li> <li>– Set the proper value(s) in the network setting. Check “Network”. (p. 25)</li> </ul>
<b>Cannot download BD-Live contents.</b>	<ul style="list-style-type: none"> <li>– Connect the Network cable properly. (p. 11)</li> <li>– Connect USB memory device properly. Check that the USB memory device is connected to the USB connector of this Player. (p. 11)</li> <li>– Check if the Blu-ray Disc supports BD-Live.</li> <li>– Check the setting for “Internet Connection”. (p. 25)</li> <li>– Connect the USB memory device formatted in FAT16, FAT32, or NTFS.</li> <li>– It is recommended to connect the USB memory device with at least 2 GB of free space. If there is not enough free space, format the USB memory device. (p. 24)</li> <li>– Refer to the supplied user’s manual of the disc or consult the disc manufacturer.</li> </ul>
<b>Cannot detect the DLNA server.</b>	<ul style="list-style-type: none"> <li>– Connect the network cable properly.</li> <li>– Turn on the connected equipment, such as broadband router or the server.</li> <li>– Confirm the Player and the server are connected to the same access point.</li> <li>– Set the proper value(s) in the network setting. Check “Network”. (p. 25)</li> <li>– Depending on the DLNA server, the Player may need to be permitted from the server.</li> <li>– Depending on the DLNA server, it needs to change a firewall setting.</li> </ul>
<b>Cannot play the file on the home network server.</b>	<ul style="list-style-type: none"> <li>– Make sure the file is playable. (p. 3)</li> <li>– Check your DLNA server’s setting.</li> <li>– The playback and operating quality may be affected by your home network condition.</li> </ul>

## ■ Messages on the screen

- The following messages appear on the TV screen in case the disc you tried to play back is not appropriate or the operation is not correct.

Error message	Possible causes and solutions
<b>Unsupported File</b>	– The file is not supported with this Player. See “Types of discs/files that can be used with this Player” (p. 3).
<b>Wrong region code!</b>	– The disc is an incompatible region code. See “Region management information for Blu-ray Disc/DVD videos” (p. 3).
<b>Network has FAILED.</b>	– This Player cannot be connected to the network. Check connection (p. 11) and Network setting (p. 25).
<b>Network is OK, proxy has FAILED.</b>	– This Player cannot be connected to the proxy server. See “Proxy Setting” (p. 25).
<b>BD-Live connection is prohibited in SETUP menu.</b>	– BD-Live connection is prohibited. See “BD-Live Connection” (p. 25).
<b>Upgrade has failed for some reason!</b>	– Upgrade is failed. Check if the upgrade file is corrupted or unreadable.

# Glossary

## **AVCHD**

AVCHD is a new format (standard) for high definition video cameras that can be used to record and play high-resolution HD images.

## **BD-Live™**

BD-Live is a Blu-ray Disc standard that utilizes a network connection, enabling this Player to go online to download promotional videos and other data.

## **BDMV**

BDMV (Blu-ray Disc Movie) refers to one of the application formats used for BD-ROM which is one of the Blu-ray Disc specifications. BDMV is a recording format equivalent to DVD-Video of the DVD specification.

## **Blu-ray 3D™**

Blu-ray 3D enables you to view full high definition 3D images.

## **BONUSVIEW™**

BONUSVIEW compatible discs let you simultaneously enjoy video sub-channel for two screens, audio sub-channel and sub-titles. A small screen appears within the main screen during playback (Picture in Picture).

## **Color Space**

Color Space is a color range that can be represented. RGB is a color space based on the RGB color model (red, green and blue) and is typically used for PC monitors. YCbCr is a color space based on a luminance signal (Y) and two color difference signals (Cb and Cr).

## **Deep Color**

Deep Color refers to the use of various color depths in displays, up from the 24-bit depths in previous versions of the HDMI specification. This extra bit depth allows HDTVs and other displays go from millions of colors to billions of colors and eliminate on-screen color banding for smooth tonal transitions and subtle gradations between colors. The increased contrast ratio can represent many times more shades of gray between black and white. Also Deep Color increases the number of available colors within the boundaries defined by the RGB or YCbCr color space.

## **DLNA**

DLNA (Digital Living Network Alliance) provides easy sharing of digital media through network in the home, and you can enjoy digital contents stored on your DLNA-server-software-installed PC or other DLNA compatible device with your TV via this Player. To connect this Player to your DLNA servers, some settings for the DLNA server or device are required. For details, refer to your DLNA server software or DLNA device.

## **Dolby Digital**

A sound system developed by Dolby Laboratories Inc. that gives movie theater ambience to audio output when the product is connected to a Dolby Digital processor or amplifier.

## **Dolby Digital Plus**

A sound system developed as an extension to Dolby Digital. This audio coding technology supports 7.1 multi-channel surround sound.

## **Dolby TrueHD**

Dolby TrueHD is a lossless coding technology that supports up to 8 channels of multi-channel surround sound for the next generation optical discs. The reproduced sound is true to the original source bit-for-bit.

## **DRC (Dynamic Range Control)**

DRC lets you adjust the range between the loudest and softest sounds (dynamic range) for playback at average volume. Use this when it is hard to hear dialog, or during times when playback may disturb neighbors.

## **DTS**

This is a digital sound system developed by DTS, Inc. for use in cinemas.

## **DTS-HD High Resolution Audio**

DTS-HD High Resolution Audio is a new technology developed for the next generation high definition optical disc format.

## **DTS-HD Master Audio**

DTS-HD Master Audio is a lossless audio compression technology developed for the next generation high definition optical disc format.

## **FLAC**

FLAC (Free Lossless Audio Codec) is an open file format for lossless audio data compression. While inferior in compression rate to other lossy compressed audio formats, it can often provide higher audio quality.

## **HDMI**

HDMI (High-Definition Multimedia Interface) is an interface that supports both video and audio on a single digital connection. The HDMI connection carries standard to high definition video signals and multi-channel audio signals to AV components such as HDMI equipped TVs, in digital form without degradation.

## **Letterbox (LB 4:3)**

A screen size with black bars on the top and bottom of the image to allow viewing of wide-screen (16:9) material on a connected 4:3 TV.

## **Linear PCM Sound**

Linear PCM is a signal recording format used for Audio CDs and on some DVD and Blu-ray Discs. The sound on Audio CDs is recorded at 44.1 kHz with 16 bits. (Sound is recorded between 48 kHz with 16 bits and 96 kHz with 24 bits on DVD discs and between 48 kHz with 16 bits and 192 kHz with 24 bits on Blu-ray Discs.)

**Lip Sync**

Lip Sync, an abbreviation for lip synchronization, is a technical term that involves both a problem and a capability of maintaining audio and video signals synchronized during post-production and transmission. Whereas the audio and video latency requires complex end-user adjustments, HDMI incorporates an automatic audio and video syncing capability that allows devices to perform this synchronization automatically and accurately without user interaction.

**Mac address**

The Mac address is a unique value assigned to a network device for identification purposes.

**Pan Scan (PS 4:3)**

A screen size that cuts off the sides of the image to allow viewing of wide-screen (16:9) material on a connected 4:3 TV.

**Subtitles**

These are the lines of text appearing at the bottom of the screen which translate or transcribe the dialog. They are recorded on many DVDs and Blu-ray Discs.

**x.v.Color**

x.v.Color reproduces a greater range of color than before, showing almost all of the colors that the human eye can detect.

## Specifications

### ■ General

**Power supply**


[U.S.A. and Canada models] .....	AC 110–240 V, 60 Hz
[Central and South America model] .....	AC 110–240 V, 50/60 Hz
[Australia model] .....	AC 110–240 V, 50 Hz
[U.K., Europe and Russia model] .....	AC 110–240 V, 50 Hz
[China model] .....	AC 110–240 V, 50 Hz
[Asia model] .....	AC 110–240 V, 50/60 Hz
[Korea model] .....	AC 110–240 V, 60 Hz
Power consumption (Normal) .....	18 W
Power consumption (Standby) .....	0.5 W or less
Dimensions (W × H × D) .....	435 × 50 × 202 mm (17-1/8 × 2 × 8 in)
Weight .....	2.0 kg (4.4 lbs.)

### ■ Input/output

HDMI output .....	Type A connector × 1 480i/576i/480p/576p/720p/1080i/1080p/1080p@24Hz, Deep Color, x.v. Color support
USB .....	Type A connector × 2
Other equipment .....	Ethernet × 1

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## ■ About Fusion

DirectFB Fusion kernel module: introduction and API

by Niels Roest

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February 18, 2012

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Version 1.3b

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## ■ About gcc libgcc, gcc libstdc++

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Version 3, 29 June 2007

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## LASER Технические характеристики:

Класс 1 LASER продукт

Длина волны: 790 nm (CD)/658 nm (DVD)/405 nm (BD)

Выходная мощность лазера: не более 1 мВт

## LASER Specification:

Class 1 LASER Product

Wave length: 790 nm (CDs)/658 nm (DVDs)/405 nm (BDs)

Laser output: max. 1 mW

## БЕЗОПАСНОЕ ИСПОЛЬЗОВАНИЕ ЛАЗЕРА

Данное устройство содержит лазер. Из-за опасности травмы глаз, снимать крышку или обслуживать данное устройство должен только сертифицированный обслуживающий персонал.

## ОПАСНОСТЬ

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## LASER SAFETY

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

## DANGER

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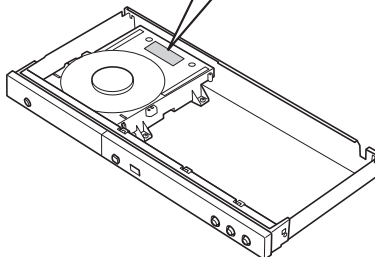
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CAUTION: INVISIBLE LASER RADIATION WHEN OPEN.

DO NOT STARE INTO BEAM.

DANGER: INVISIBLE LASER RADIATION WHEN OPEN.

AVOID DIRECT EXPOSURE TO THE BEAM.



## Yamaha Music (Russia) LLC.

Room 37, bld. 7, Kievskaya street,  
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