SONY®

Multi-Function DVD Recorder

Operating Instructions

VRD-MC10

∧VCHD **MEMORY STICK** ™ **HDMI**

2008 © Sony Corporation

Safety Regulations

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Do not install this equipment in a confined space such as a bookshelf or similar unit.

CAUTION:

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.
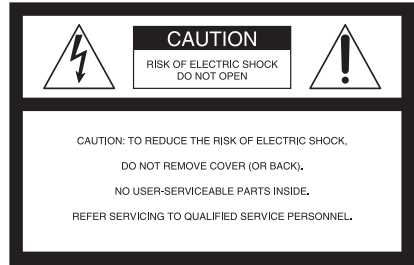
The use of optical instruments with this product will increase eye hazard. As the laser beam used in this multi function DVD recorder is harmful to eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the bottom exterior.

CLASS 1
LASER PRODUCT

LASER KLASSE 1
PRODUKT

LUOKAN 1 LASERLAITE

KLASS 1 LASER APPARAT

This label is located on the laser protective housing inside the enclosure.

CAUTION   CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO THE BEAM.
ATTENTION RADIATIONS LASER VISIBLES ET INVISIBLES DE CLASSE 3B EN CAS D'OUVERTURE. EVITER TOUTE EXPOSITION DIRECTE AU FAISCEAU.
VARO!   AVATTUNA LUOKAN 3B NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. VÄLTÄ SUORAAA ALTISTUMISTA SÄTEELLE.
WARNING   KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT DIREKT EXPONERA DIG FÖR STRÅLNINGEN.
ADVARSEL   SYNLIG OG USYNLIG LASERSTRÅLING AF KLASSE 3B VED ÅBNING. UNDGÅ DIREKTE UDSÆTTELSE FOR STRÅLING.
ADVARSEL   SYNLIG OG USYNLIG LASERSTRÅLING I KLASSE 3B NÅR DEKSEL ÅPNES. UNNGÅ DIREKTE EKSPONERING FOR STRÅLEN.
VORSICHT   KLASSE 3B SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN GEÖFFNET. DIREKTEN KONTAKT MIT DEM STRAHL VERMEIDEN.
警告   通电状态下存在3B类可见／不可见激光辐射 避免直接暴露在发射器光束下

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This graphical symbol is located on the bottom of the unit.

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized

plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

FCC Compliance Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Notes on AC power adapter

- Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.
- Be sure to use the supplied AC adapter and power cord.
- Do not use any other AC adapter. It may cause a malfunction.
- Connect the AC adapter to an easily accessible socket outlet.
- Do not touch the AC adapter with wet hands.
- Should you notice an abnormality in the AC adapter, disconnect it from the socket outlet immediately.
- Use a commercially available AC plug adapter, if necessary, depending on the design of the wall outlet.
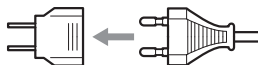
- The set is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the set itself has been turned off.

The nameplate is located on the bottom of the unit.

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For Customers in U.S.A

Owner's Record
The product label is located on the bottom of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model: VRD-MC10
Serial Number: _____

For the State of California, USA only

Perchlorate Material - special handling may apply, See
www.dts.ca.gov/hazardouswaste/perchlorate
Perchlorate Material: Lithium battery contains perchlorate.

For customers in the United Kingdom and Republic of Ireland

A molded plug complying with BS1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied one and approved by ASTA or BSI to BS1362, (i.e., marked with ⊛ or ⑁ mark) must be used. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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- DVDirect, Handycam, CyberShot, Memory Stick and each logos are trademarks, or registered trademarks of Sony Corporation.
- AVCHD and AVCHD logo are trademarks of Sony Corporation and Panasonic Corporation.
- "PLAYSTATION" is a registered trademark of Sony Computer Entertainment Inc.
- Other system and product names used herein are registered trademarks or trademarks of their respective manufacturers, although the ™ and ® marks are not used in the text.
- Manufactured under license from Dolby Laboratories.
  Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- The authorized software on this product is used under license from eSOL Co. Ltd.
- HDMI, High Definition Multimedia Interface and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC.

❑ Our product warranty is valid only when the supplied accessories are used in the specified or recommended system environment, in accordance with the documentation, and applies only to this DVDirect. Our customer service and user support apply only under these product warranty conditions.

❑ Please note that we cannot accept responsibility for failure of the computer or other devices, incompatibility with special hardware, operating problems caused by improper installation of software, loss of data, discs or other accidental or incidental damage that might occur when using this product.

❑ The guarantee and user support for this product are valid only within the countries or sales regions specified on the warranty card.

❑ Specifications may be changed without notice in the interest of product improvement.

Copyright

Television programs, films, video tapes, discs, and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this product with cable television transmission may require authorization from the cable television transmitter and/or program owner.

After-image lag

If you display a still image on a plasma or projection TV screen (except those of LCD screen types) for an extended period of time, "ghosting" after-image lag may occur. Static, non-moving images permanently on the TV screen if left on for an extended time.

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Table of Contents

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Troubleshooting/References

Additional Information

Find a type of copy mode

Depending on your video device or the type of disc you are creating, you can select the copy mode and device connection that best serves your needs.

Select the type of disc to create

• You can record videos and photos (JPEG files) onto the same disc depending on the copy mode selected.
• When you record photos taken with your digital still camera from its memory card onto a disc, see page 18.

I want to record HD (High Definition) video as is.

HD (High Definition) Disc (AVCHD format)

AVCHD format compatible device

Compatible players

Sony Blu-ray Disc player/recorder
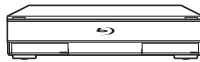
Playstation3®
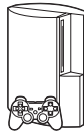
DVDirect
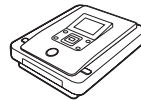
Not playable on DVD players/recorders.

I want to enjoy playback on various DVD players.

SD (Standard Definition) Disc

Compatible players

DVD player/recorder
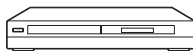
Computer

DVDirect
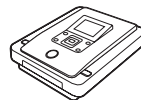
⏻ Note
• Refer to "Notes on copying on discs" on page 23.

Which device did you use to capture the video?

What image quality does the video have?

HD : High Definition
SD : Standard Definition

Type of copy mode

Sony High Definition
Digital video camera
Digital still camera

HD → **A**

SD → You cannot create disc.
➜ page 10

Other High Definition
Digital video camera

HD → **B**

Sony Standard Definition
Other Standard Definition
Digital video camera
Other video device

SD → You cannot create disc.
➜ page 12

You cannot create disc.

Type of copy mode

Sony High Definition
Digital video camera

HD
Down-converted to SD (Standard Definition) during recording.
→ **C**
➜ page 14

SD → **D**

Sony Standard Definition
Digital video camera

SD
➜ page 16

Other High Definition
Other Standard Definition
Digital video camera
Other video device

HD * / SD
* Down-converted to SD (Standard Definition) during recording.
→ **E**
➜ page 18

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A Record HD (High Definition) video as is

Photos are recorded as a JPEG file.

HD ➔ **HD**

What is the recording media?

Connection and setup

HDD

Use a USB cable
(supplied with camera or sold separately)

➔ page 31

Built-in memory

Use a USB cable
(supplied with camera or sold separately)

➔ page 31

8cm Disc

Use a USB cable
(supplied with camera or sold separately)

➔ page 31

Memory Card

Insert a Memory Card into the slot[1]

➔ page 37

DV tape

Recording is not available.

You can record by down-converting to SD (Standard Definition). See Type of copy mode **C** (page 14) for details.

[1] You can record a video by connecting a camera via a USB cable.

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Select the copy mode and create a disc!

One Touch Disc Burn Press the button on camera	Copying All Contents The entire contents of camera	Copying Only New Video/ Photo Only the new contents of camera	Copying Playlist*2 Playlist contents on camera	Copying Visual Index Lists Select by a scene/ shooting date
page 49	page 38	page 41	page 43	page 45
page 49*3	page 38	page 41	page 43	page 45
–	page 40	–	–	–
page 49*4	page 38	page 41	page 43	page 45

*2 You cannot record photos. Copying Playlist is possible only with cameras that can create a playlist.
*3 Built-in memory of "HYBRID Plus" Handycam® cannot be recorded by One Touch Disc Burn.
*4 Recording possible only when connected to a camera via USB cable. Only some models support One Touch Disc Burn.

Note

• You cannot record HD (High Definition) video taken in REC mode at a bit rate exceeding 18Mbps, such as in [HD FX] mode (for example, High Definition Handycam®) in AVCHD format. In this case, you can record by down-converting to SD (Standard Definition) quality. See Type of copy mode ❻ (page 14.)

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B Record HD (High Definition) video taken by another digital video camera* as is

* Not all camera operations are supported.

HD ➜ HD

What is the recording media?

Connection and setup

You cannot record by connecting a camera via a USB cable.

HDD

Built-in memory

Use a camera's function and copy videos and photos to memory card*

8cm Disc

Insert a memory card into the slot

➜ page 37

Memory Card

Recording is not available.
You can record by down-converting to SD (Standard Definition). See Type of copy mode **C** (page 14) for details.

DV tape (HDV format)

Recording is not available.
You can record by down-converting to SD (Standard Definition). See Type of copy mode **C** (page 14) for details.

* For details, refer to your camera's operating instructions.

Select the copy mode and create a disc!

Copying All Contents The entire contents of camera	**Copying Visual Index Lists** Select by a scene/shooting date
page 38	**page 45**

❸ Notes

- You cannot record HD (High Definition) video taken in REC mode at a bit rate exceeding 18Mbps, such as in [HD FX] mode (for example, High Definition Handycam®) in AVCHD format. In this case, you can record by down-converting to SD (Standard Definition) quality. See Type of copy mode ◉ (page 14.)
- You cannot record by connecting an other camera via a USB cable.

C Down-convert videos to SD (Standard Definition) quality

You cannot record photos.

HD ➡ **SD**

What is the recording media?

Connection and setup

HDD

Use an AV cable
(supplied with camera or sold separately)

➜ page 34

Built-in memory

Use an AV cable
(supplied with camera or sold separately)

➜ page 34

8cm Disc

Use an AV cable
(supplied with camera or sold separately)

➜ page 34

Memory Card

Use an AV cable
(supplied with camera or sold separately)

➜ page 34

Use an AV cable
(supplied with camera or sold separately)

➜ page 34

DV tape

Use a DV (i.LINK) cable
(supplied with camera or sold separately)

➜ page 33

Select the copy mode and create a disc!

Copying Manually Recording while operating camera
page 47
page 47
page 47
page 47
page 53

Copying All Contents The entire contents of camera	**Copying Manually** Recording while operating camera
page 51	**page 53**

D Record SD (Standard Definition) video as is

Photos are recorded as a JPEG file.

$$SD \rightarrow SD$$

What is the recording media?

Connection and setup

HDD

Use a USB cable
(supplied with camera or sold separately)

➜ page 31

Built-in memory

Use a USB cable
(supplied with camera or sold separately)

➜ page 31

8cm Disc

Use a USB cable
(supplied with camera or sold separately)

➜ page 31

Memory Card

Insert a Memory Card into the slot[1]

➜ page 37

[1] You can record a video by connecting a camera via a USB cable.

DV tape

Use a DV (i.LINK) cable
(sold separately)

➜ page 33

All of the above media
Other media
(8mm tape, MICROMV tape, etc.)

Use an AV cable
(supplied with camera or sold separately)

➜ page 34

Select the copy mode and create a disc!

One Touch Disc Burn Press the button on camera	Copying All Contents The entire contents of camera	Copying Only New Video/ Photo Only the new contents of camera	Copying Playlist Playlist contents on camera	Copying Visual Index Lists Select by a scene/ shooting date
page 49	page 38	page 41	page 43	page 45
page 49*3	page 38	page 41	page 43	page 45
—	page 40	—	—	—
page 49*4	page 38	page 41	page 43	page 45

Copying All Contents*2 The entire contents of camera	Copying Manually*2 Recording while operating the camera
page 51	page 53
—	page 47

*2 You cannot record photos.
*3 Built-in memory of "HYBRID Plus" Handycam® cannot be recorded by One Touch Disc Burn.
*4 Recording possible only when connected to a camera via USB cable. Only some models support One Touch Disc Burn.

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E **Connect other video device and record SD (Standard Definition) video**

You cannot record photos.

HD / **SD** ➡ **SD**

What is the recording media of your video device?

Connection and setup for your video device

You cannot record via a USB cable.

| **Video device with DV connector, capable of outputting DV signals** | ➡ | **Use a DV (i.LINK) cable** (sold separately) ➜ page 33 |

| **Video device with AV OUT** | ➡ | **Use an AV cable** (supplied with DVDirect or sold separately) ➜ page 34 |

Recording photos from memory card

Photos are recorded as a JPEG file.

Recorded memory card

Connection for your memory card

| **"Memory Stick Duo" "Memory Stick" SD Card xD-Picture Card CompactFlash** | ➡ | **Insert a Memory card into the slot** ➜ page 37 |

Select the copy mode and create a disc!

Copying All Contents The entire contents of camera	Copying Manually Recording while operating the camera
page 51	page 53
–	page 53

Select the copy mode and create a disc!

Copying All Contents The entire contents of camera	Copying Visual Index Lists Select by an index/shooting date
page 52	page 55

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About this manual

Before you start recording video or photo contents to a disc, read the "Selecting copy mode" pages. "Selecting copy mode" shows you the required connections for your device and guide you through the recording process.

Selecting copy mode (page 8)

Use the chart "Find a type of copy mode" (page 8) to determine a method appropriate for your device, and the type of disc you wish to create. Next, use the "Type of copy mode (Ⓐ - Ⓔ)" on page 10 through 18 to determine the connection and device operation.

↓

Preparations for Recording (page 29)

Connect your device to the DVDirect as instructed in the "Type of copy mode (Ⓐ - Ⓔ)." Configure your device if necessary.

↓

Copying (pages 38, 51)

Select an available copy mode (Ⓐ - Ⓔ) best suited to your needs. Follow the instructions on the page referred to in this manual.

↓

Viewing a Created Disc (page 57)

When recording is complete, connect the DVDirect to a TV and enjoy viewing your created discs.

Icons

In this manual, section headings have different icons depending on the device or operation. Use these icons to determine the connection or device operation.

Type of devices

Icon	Meaning
Sony Camera	Sony digital video camera or Sony digital still came
Other Camera	Other digital video camera
Video Device	Video device with audio/video outputs

Type of medias

Icon	Meaning
HDD	Functions available for camera recording to hard disk
Built-in Memory	Functions available for camera recording to built-in memory
8cm Disc	Functions available for camera recording to 8cm disc
Memory Card	Functions available for camera recording to "Memory Stick Duo," SD card, etc.
DV Tape	Functions available for camera recording to DV or D8 (Digital8) tapes

About Handycam®

In this manual, Handycam® refers to a Sony camcorder. High Definition Handycam® refers to an HD (High Definition) compatible camcorder.

About Images

In this manual, "images" refer to both photos (still images) and videos.

About the DVDirect

In this manual, "DVDirect" refers to the VRD-MC10.

About illustrations

The on-screen display illustrations used in this manual may not match the graphics displayed on your screen.

Features

You can easily record videos or photos using the DVDirect.

Recording HD (High Definition) video

You can record HD (High Definition) videos taken with a Sony digital video camera or digital still camera. Created discs can be played on an AVCHD compatible device. For details about AVCHD disc compatibility, see "Notes on HD (High Definition) disc compatibility" on page 24.

Recording SD (Standard Definition) video

You can record video from various cameras and AV devices directly onto discs in SD (Standard Definition) image quality. Created discs can be played on DVD players and other DVD devices.

Recording photos

You can archive photos from a memory card, or a connected Sony camera directly onto a disc. When you use a camera or memory card containing videos and photos, you can archive both videos and photos on the same disc.

Viewing a created disc

You can use the DVDirect to play back and check a created video/photo disc. Simply view it in the display window of the DVDirect, or connect the DVDirect to a TV. The DVDirect can also play back photos as a slideshow. When connecting a High Definition TV to the DVDirect with an HDMI cable, you can view HD (High Definition) videos in their original High Definition image quality.

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Before you begin

Notes on the supported device and the image

The DVDirect supports the following copying.
- HD (High Definition) video
  - High Definition (AVCHD format) video taken by a Sony digital video camera
  - High Definition (AVCHD format) video taken by a Sony digital still camera
  - High Definition (AVCHD format) video taken by an other digital video camera[*1]
- SD (Standard Definition) video
  - Standard Definition video taken by a Sony digital video camera
  - video of various video devices (video device with audio/video output)
- Photos
  - photos (JPEG format) taken by a digital video camera
  - photos (JPEG format) taken by a digital still camera

[*1] See the following web site for details on supported camera models (English only):
http://sony.storagesupport.com

The ability to copy depends on your device, recording media, type of video/photos or disc type you are creating. For details, see page 8 and select the corresponding connection and operation.

Notes on copying on discs

- You cannot copy:
  - videos with copy-protection signals (commercial DVDs, VHS software, some programs from satellite or CATV receivers, etc.).
  - videos to a disc (unfinalized) created with device other than the DVDirect.
- You cannot record video unsupported by DVDirect via USB or a memory card inserted into the DVDirect's slot (for example, MPEG1 or MPEG4, other than AVCHD, etc. taken with a mobile phone or web-camcorder). You can record video using A/V cable.
- Videos will be recorded in SD (Standard Definition) quality, because HD (High Definition) is unavailable when recording:
  - HD videos recorded in REC mode at a bit rate exceeding 18Mbps, such as in [HD FX] mode (for example, High Definition Handycam®) in AVCHD format.
  - HD videos recorded on a DV tape using Sony High Definition Handycam® (HDV format).
  - HD videos recorded with an HD (High Definition) compatible camera other than AVCHD format.
- If you erase or edit a video on a camera with a computer or Playstation 3®, you may not be able to copy videos properly by connecting the camera to the DVDirect. Use the camera to erase or edit video.

Notes on copying multiple types of image

- The DVDirect will copy photos and videos onto discs in the following order:

| **Photos** | ➡ | **HD (High Definition) videos** | ➡ | **SD (Standard Definition) videos** |

- SD (Standard Definition) videos and HD (High Definition) videos will be recorded on separate discs.
- Photos and videos are recorded on the same disc.
- Depending on the disc inserted in the DVDirect for recording and type of images to copy, the order may differ, or a new disc may be needed.

Viewing discs with the DVDirect

- You can only play discs recorded with the DVDirect.
- You cannot play commercial DVDs, or discs recorded on a device other than the DVDirect.
- You cannot play an 8cm disc or a memory card.
- The DVDirect does not have a speaker. There is no sound during playback.

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Notes on HD (High Definition) disc compatibility

- An HD (High Definition) disc cannot be played on an AVCHD incompatible DVD player or recorder.
- Do not insert an HD (High Definition) disc in an AVCHD incompatible DVD player or recorder. The DVD player or recorder may fail to eject the disc and may erase its contents.
- An HD (High Definition) disc can be played on a compatible Blu-ray Disc player/recorder, Playstation 3[®] or other compatible device.

Type of created disc and compatible devices

HD (High Definition) disc (containing High Definition videos)

No	Yes	Yes
DVD device	AVCHD format compatible device	Computer*
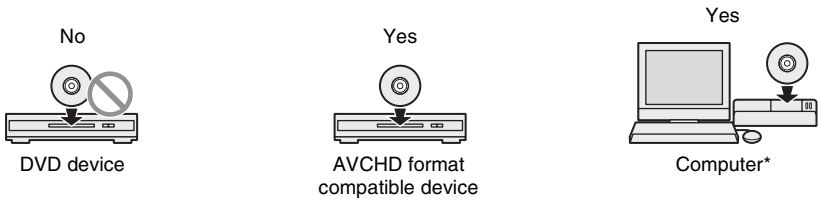
SD (Standard Definition) disc (containing Standard Definition videos)

Yes	Yes	Yes
DVD device	AVCHD format compatible device	Computer
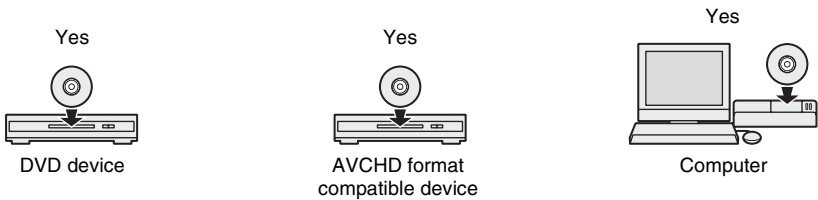
* Install the AVCHD compatible application on your computer beforehand. Even in the case of a computer environment that satisfies system requirements, there may be noise in video playback, frames may be dropped, or sound may be lost intermittently. (This does not depend on the quality of the created disc.)

Note on the screen of the connected TV

Only images or operation display can be displayed on the TV screen during playback. Images other than playback cannot be displayed on the TV screen.

Package Contents

Please confirm that the package contains the following items.
If any of these items are missing or damaged, please contact your dealer.
The number in parentheses indicates the number of items.

VRD-MC10 (DVDirect) (1)

Remote control unit (1)

The remote control has a button-type lithium battery built in.

AC adapter (1)
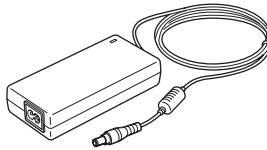
AC power cord (1)
Audio/video cable (1)
Operating Instructions (this document) (1)
Warranty card (1)

✪ Note

• Use an AC power cord appropriate to the region or country of use.

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Parts and Controls

Main unit

Front and sides
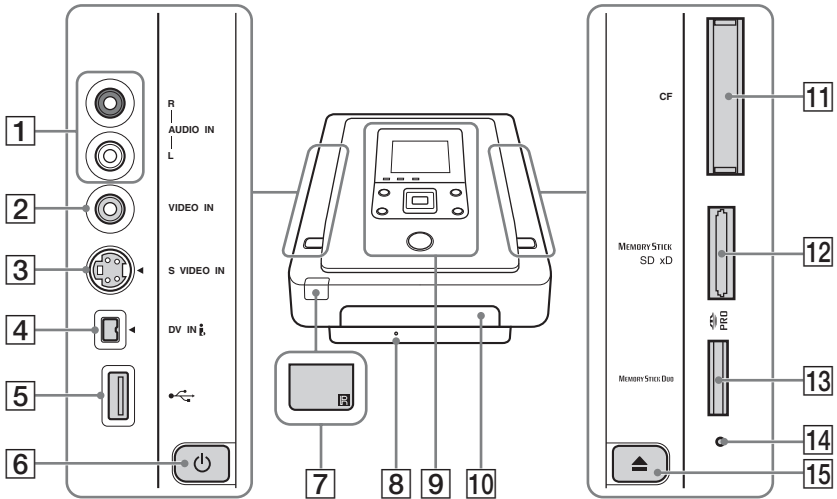
1 AUDIO IN connectors (page 34)

2 VIDEO IN connector (page 34)

3 S VIDEO IN connector (page 34)

4 DV IN connector (page 33)

5 USB (Type A) port (page 31)

6 ⏻ (power) button (page 29)

7 Remote sensor
Point the remote control here.

8 Emergency eject hole
If you cannot open the disc tray with the ⏏
(eject) button, turn off the DVDirect. Insert a
pin or straightened paper clip into this hole to
open the disc tray.

9 Top panel (page 27)

10 Disc tray (page 30)

11 CompactFlash card slot (page 37)

12 Multi memory card slot (page 37)
Insert a "Memory Stick," SD Card or xD-
Picture Card here.

13 Memory Stick Duo slot (page 37)

14 Memory card access LED
Lights amber when accessing a memory card.

15 ⏏ (eject) button (page 30)

⚠ Note

• "Memory Stick Duo" uses a different slot from other
memory cards. Make sure to insert a "Memory Stick
Duo" into the Memory Stick Duo slot, and other types
of memory cards into the multi memory card slot. If
you try insert a "Memory Stick Duo" into the multi
memory card slot, it may become jammed.

"Memory Stick Duo"

Top panel

1 Display window
   Displays an operation screen, images from a playback device or memory card.

2 VIDEO / COMPONENT / HDMI LEDs
   Indicates the output selected by pressing the OUTPUT button (3).

3 OUTPUT button (pages 60, 63)

4 RETURN button (page 66)

5 ↑/↓/←/→ cursor / ENTER button (pages 38, 53, 60, 63)

6 PLAY button (pages 60, 63)

7 STOP button (pages 38, 53, 62, 65)

8 RECORD button (pages 38, 53)

Rear panel
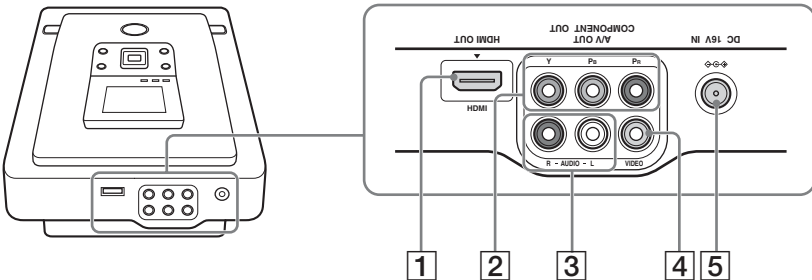
1 HDMI OUT connector (page 58)

2 COMPONENT OUT (Y, PB, PR video out) connectors (page 58)

3 AUDIO OUT connectors (page 59)

4 VIDEO OUT connector (page 59)

5 DC IN connector (page 29)

Remote control
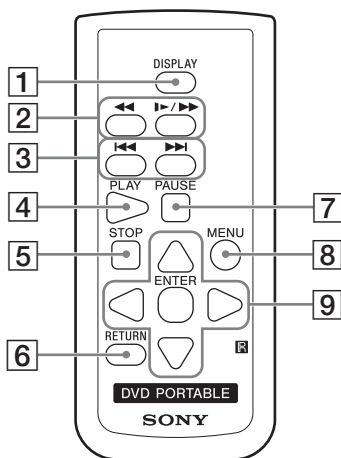
1 DISPLAY button (pages 62, 65)

2 ◄◄, ▊►/►► buttons (page 62)

3 �i◄◄, ►►i buttons (pages 62, 65)

4 PLAY button (pages 62, 65)

5 STOP button (pages 62, 65)

6 RETURN button (page 66)

7 PAUSE button (pages 62, 65)

8 MENU button (pages 62)

9 ▲/▼/◄/►/ ENTER buttons (pages 62, 65)

Notes
- When operating the remote control, point it at the remote sensor on the front of the DVDirect (page 26).
- Only playback can be performed by the remote control.

To change the battery of the remote control

① **While pressing on the tab, inset your fingernail into the slit to pull out the battery case.**

② **Place a new battery with the + side facing up.**

③ **Insert the battery case back into the remote control until it clicks.**

Tab
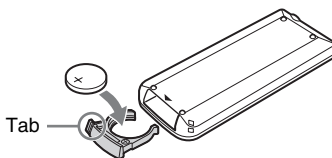
Note
- The remote control has a button-type lithium battery built in. Do not use a battery other than of the same or equivalent type.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

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Turning the Power On

1 Connect the supplied AC power cord to the AC adapter.

2 Insert the power plug of the AC adapter into the DVDirect's DC IN connector.

3 Insert the power plug of the AC power cord into a power outlet.

DVDirect   To DC IN connector   AC adapter   AC power cord   To power outlet
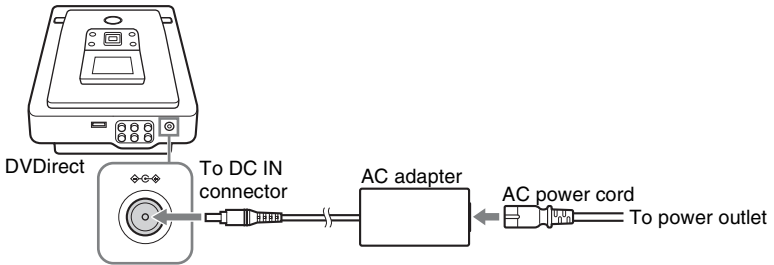
⚙ Notes

• Be sure to use the supplied AC power cord and the AC adapter.
• Do not use damaged cables, such as cables with deformed connectors.

4 Press the ⏻ (power) button.
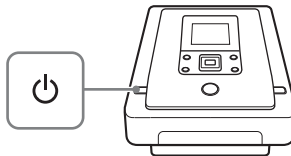
After the display window lights and the DVDirect logo appears, initial screen (Top screen) appears.

Insert memory card
or connect camera.

RETURN Setup ENTER Copy ▶ Play

Inserting a Disc

1 **Press the ⏏ (eject) button.**
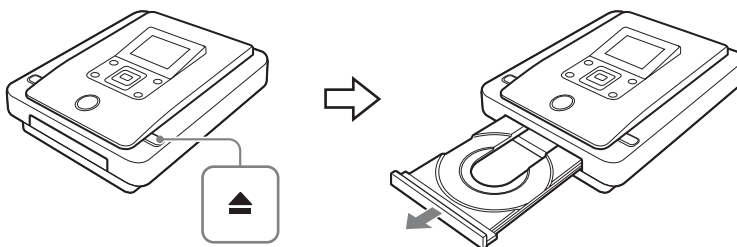
The disc tray ejects.

2 **Place the disc in the disc tray with its playing/recording side down, and press the ⏏ (eject) button again.**

🔅 **Note**
• Do not touch the recording side of the disc.
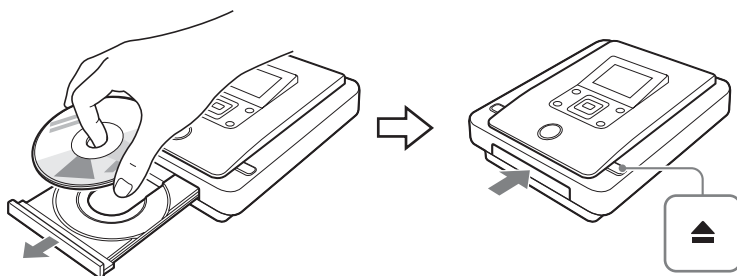
The disc tray closes.

Connecting Cables for Recording

For types of connection and settings, see the "Connection and setup for your Handycam®/video device" section for your "Type of copy mode (Ⓐ - Ⓔ)" on pages 10 through 18.

USB cable

1 Turn on the camera.

⊙ Note
• For the camcorder, make sure that the AC adapter is connected to the AC power cord.

☼ Hint
• Depending on the model type, you may need to change the mode from the REC mode to other modes such as PLAY and EDIT. For details about modes, refer to your camera's operating instructions.

2 Connect the camera to the DVDirect.

Multi port

USB cable/USB cable for multi-use terminal (supplied with camera or sold separately)

USB port
(Type Mini B)

USB cable
(supplied with camera or sold separately)

USB port
(Type A)
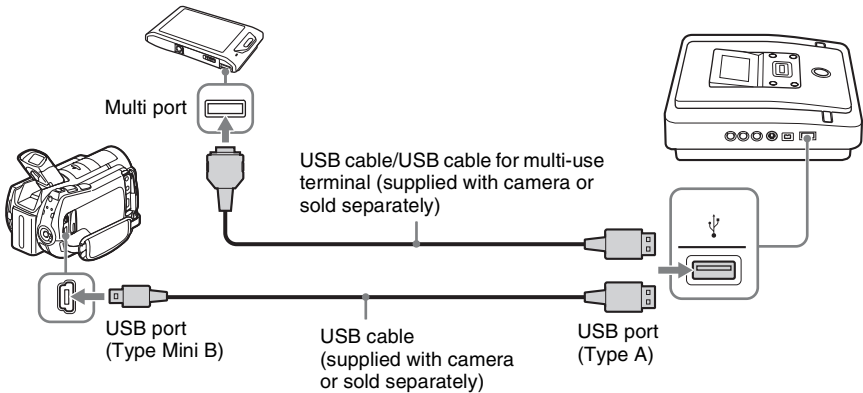
3 Check the USB connection on the camera.

Sony digital video camera

The [USB SELECT] screen appears. Be sure to select the media that stores images to record.

Button names on the [USB SELECT] screen

Storage Media	Button Name
Hard disk drive	[⊖ USB CONNECT] [⊖ COMPUTER] [⊖ HDD], etc.
Built-in memory	[🖳 USB CONNECT], etc.
8cm disc	[◎ USB CONNECT] [◎ COMPUTER], etc.
Memory card	[▭ USB CONNECT] [▭ COMPUTER], etc.

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ϔ Hints

- Depending on the model, USB connection may complete simply by connecting the camera to the DVDirect ([USB mode] screen appears). In this case, selecting the recording media is unnecessary.
- If your camera has a [USB SPEED] setting, specify [AUTO] ([AUTO] is the default setting).

Sony digital still camera

USB connection completes only by connecting the camera to the DVDirect. [USB mode] or [Mass Storage] screen appears.

ϔ Hints

- If your camera has a [USB Connect] setting, specify [AUTO] or [Mass Storage] ([AUTO] is the default setting).
- If your camera has a [LUN Settings] setting, you may need to set [Single], depending on the model (default setting is different depending on the model).
- See the following web site for details on supported camera models (English only):
  http://sony.storagesupport.com

ϔ Note

- If a camera with built-in memory and memory card is connected to the DVDirect, the DVDirect will choose the memory card as the USB connection. However, built-in memory might be chosen depending on the model of the camera and its setting. For details, see the instruction manual of the camera, and confirm the settings of [USB Connect] and [LUN Settings].

ϔ Notes

- You need an audio/video cable (AV cable), instead of a USB cable, for connection to copy:
  - "PhotoMOVIE" from an 8cm disc in a Handycam®.
  - videos from an 8cm disc formatted in VR mode in a Handycam®.
- For Handycam®(DV/D8), you cannot copy photos recorded on a "Memory Stick Duo" using a USB cable. Insert the "Memory Stick Duo" into the Memory Stick Duo slot.

DV (i.LINK) cable

1 Turn on the camera.

🔌 **Note**

• For the camera, make sure that the AC adapter is connected to the AC power cord.

2 Set the camera to playback mode.

• Playback operation differs among camcorders. For most camcorders, switch the power/mode button to playback, PLAY/EDIT or VTR mode to play video or perform recording. For details, refer to the operating instructions of your camcorder.

• When you copy HD (High Definition) videos using High Definition Handycam® (HDV) by connecting with DV (i.LINK) cable, set the [i.LINK CONV] setting on the Handycam® to [ON]. This will down-convert videos recorded in HD (High Definition) to SD (Standard Definition) quality.

3 Connect the camera to the DVDirect.

DV connector

DV IN connector

DV (i.LINK) cable
(not supplied)
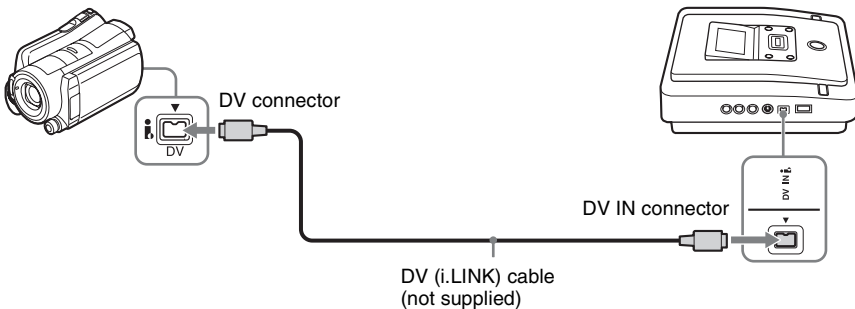
🔌 **Notes**

• A DV (i.LINK) cable is for DV output from DV digital video camera only. You cannot record videos from MICROMV or HDV camcorders (HDV format) and other digital video devices having an i.LINK connector. You need an audio/video cable (AV cable) for these devices.

• The following models are not supported for recording with a DV (i.LINK) cable. Use an audio/video cable.
  – DCR-VX700
  – DCR-VX1000
  – HDR-FX1
  – HDR-FX7
  – HDR-FX1000

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Audio/video cable (AV cable)

1 Turn on the video device.

🔌 **Note**

• For the camera, make sure that the AC adapter is connected to the AC power cord.

2 Operate the video device to start playback of video.

- Playback operation differs among video devices. For most cameras, switch the power/mode button to playback, PLAY/EDIT or VTR mode to play video or perform recording. Cameras with multiple media require specifying the media (HDD, "Memory Stick Duo," 8cm disc, or Built-in memory). For details, refer to the operating instructions of your video device.
- The [A/V → DV OUT] setting on Handycam® (DV/D8) must be set to [OFF] ([OFF] is the default setting).

3 Connect the video device to the DVDirect.

Use an audio/video cable (supplied), AV cable (not supplied) or S-video cable (not supplied) when connecting a video device such as a VCR or DVR to the DVDirect.

💡 **Hints**

- The connectors on a video device differ depending on the device. Refer to the operating instructions for your device, and use an appropriate cable.
- If your video device has an S-video connector, use an S-video cable for improved picture quality (compared to video cable quality).

For audio/video cables:

To AUDIO/VIDEO OUT connectors

AUDIO IN connectors
VIDEO IN connector

Audio/video cable (supplied)

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A/V OUT connector

AUDIO IN connectors
VIDEO IN connector

AV cable (not supplied or supplied with the video device)

For S-video cables:

S VIDEO OUT connector
AUDIO OUT connectors

Audio/video cable (supplied) or audio cable (not supplied)

AUDIO IN connectors
S VIDEO IN connector

S-video cable (not supplied)

S VIDEO OUT connector
AUDIO OUT connectors

Audio/video cable (supplied) or audio cable (not supplied)

AUDIO IN connectors
S VIDEO IN connector

S-video cable (not supplied)

Preparations for Recording

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For a camcorder with an A/V OUT connector, you can use an AV cable with S-video to connect to the DVDirect.

A/V OUT connector

AUDIO IN connectors
S VIDEO IN connector

AV cable with S-video (not supplied)
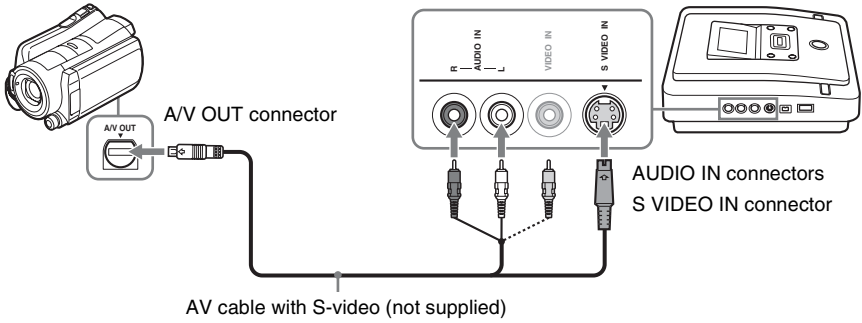
For a camcorder with an A/V Mini jack, you can use an AV cable and S-video cable to connect to the DVDirect.

A/V OUT connector

AUDIO IN connectors
S VIDEO IN connector

S-VIDEO OUT connector

AV cable (not supplied)

S-video cable (not supplied)

Download from Www.Somanuals.com. All Manuals Search And Download.
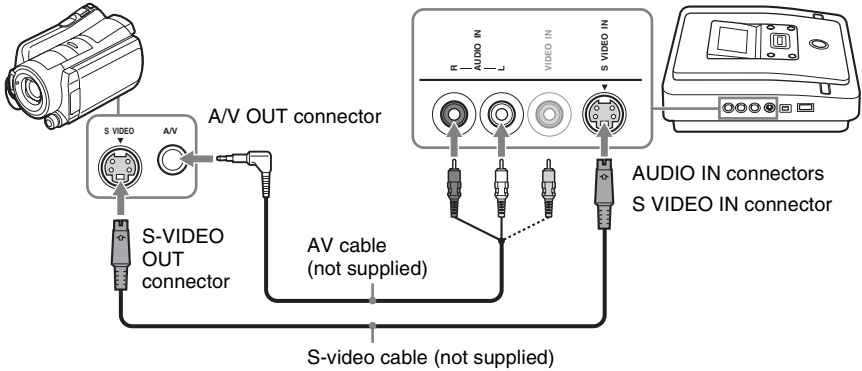
Memory Card

When copying videos or photos from a memory card, insert the memory card into its corresponding memory card slot on the DVDirect.

Insert a memory card into its corresponding slot.

"Memory Stick Duo"   "Memory Stick"   CompactFlash

SD Card
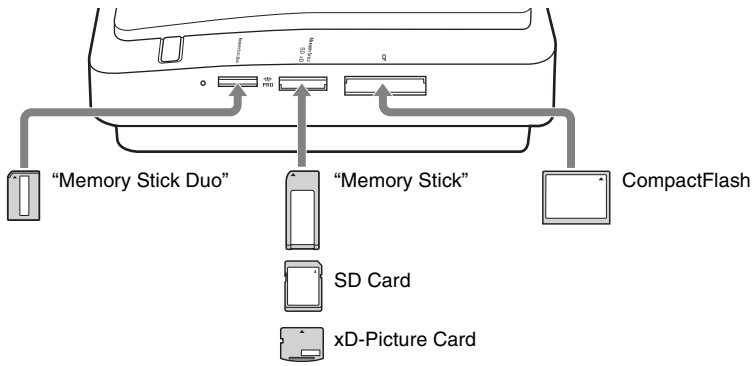
xD-Picture Card

"Memory Stick Duo," "Memory Stick," SD Card, or xD-Picture Card

Push the memory card into the slot until you hear a click. To remove, push the card and pull out.

CompactFlash

Push the card into the CompactFlash card slot. The CompactFlash stays half exposed. To remove, pull out the CompactFlash.
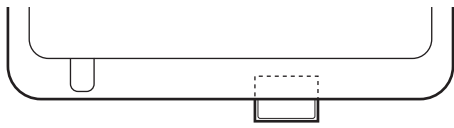
Notes

- Do not use more than one memory card slot at a time. Insert only one memory card into a memory card slot.
- Do not insert another memory card while recording onto a disc. Doing so may cause a write error.
- Do not insert a "Memory Stick Duo" with a Memory Stick Duo adapter into the multi memory card slot.
- Never remove the memory card while the memory card access LED is lit. Otherwise data in the memory card may be damaged.

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Copying All Contents

`Sony Camera` `HDD` `Built-in Memory` `Memory Card`
`Other Camera` `Memory Card`

This mode allows you to record images onto a disc from a camera connected to the DVDirect or memory card inserted into the slot with a single touch of the ⊙ (record) button. The entire contents will be recorded. This is one of the simpler copy modes, eliminating the need to select videos and/or photos stored on your camera.

Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect cables for recording (pages 31).

↻ Notes

- For copying from an 8cm disc, follow the instructions in "Copying All Contents (from an 8cm disc)" (page 40).
- For copying from a DV tape, follow the instructions in "Copying All Contents" of "Copying From Video Devices" (page 51).
- You cannot copy videos/photos from media of different types on the camera at one time.

1 Make sure that the copy mode select screen appears.

When the DVDirect detects signals from a camera connecting to the USB port or memory card inserted into the slot, the copy mode select screen appears.

Number of required discs

Type of input

2 Press ▲ or ▼ to select [All] and press ▶.

✦ Hint

- If you do not need to select the type of images, simply select [All] and press the ⊙ (record) button to start recording. Go straight to step 5.

3 Make sure that the type of images you wish to copy is marked.

Press ▲ or ▼ to select an image. Pressing the ENTER button toggles the selection between marked and unmarked.

Marked image to copy

If both [HD Video] and [SD Video] types are selected for recording:

HD (High Definition) and SD (Standard Definition) videos are recorded onto separate discs.

For details, see "Notes on copying multiple types of image" on page 23.

↻ Note

- You cannot select image types that cannot be recorded. (For example, a camera or memory card containing no video/photo data, or standard definition (SD) video taken by another digital video camera.)

4 Press the ⊙ (record) button to start recording.

The DVDirect starts the recording process. The ⊙ (record) button lights up during recording. The following appears in the display window.

When recording HD (High Definition) videos, [AVCHD] appears in the display window.

5 Change to a blank disc when the message [Insert a new disc.] appears.

If the contents of the camera do not fit onto a single disc, the disc will be ejected automatically when it becomes full. Remove the created disc and insert a blank one. Recording will resume automatically.

Next disc/number of required discs

6 Remove the created disc.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

Press the ⊙ (stop) button when replacing a disc.
You cannot stop while recording is in progress.

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Copying All Contents (from an 8cm disc)

Sony Camera 8cm Disc

This mode allows you to record video onto a disc from an 8cm disc camera connected to the DVDirect with a single tough of the ● (record) button. The entire contents will be recorded. If you have more than one 8cm disc to copy, you can consolidate and record their contents onto one 12cm disc.

Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect a USB cable for recording (page 31).

1 Make sure that the copy mode select screen appears.

When the DVDirect detects a signal from a camera connecting to the USB port, the copy mode select screen appears.
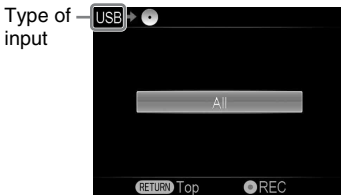
Type of — USB ▸ ●
input

All

RETURN Top ●REC

2 Make sure that [All] is selected and press the ● (record) button.
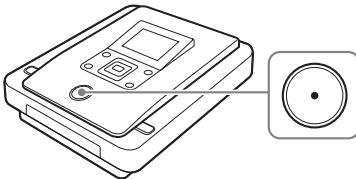
The DVDirect starts the recording process. The ● (record) button lights up during recording. The following appears in the display window.

When recording HD (High Definition) videos, [AVCHD] appears in the display window.

USB ▸ ● AVCHD   All

Recording to disc …

10 % recorded

✪ Notes

- You cannot select the type of images when recording from an 8cm disc. The entire images stored on the 8cm disc will be recorded (except for "PhotoMOVIE").
- Both the contents of an 8cm disc containing HD (High Definition) video and an 8cm disc containing SD (Standard Definition) video cannot be recorded on a 12cm disc.
- Depending on the combination of images on a disc inserted into the DVDirect and the 8cm disc inserted into the camera, images may not be recorded.

3 Change the 8cm disc of the camera when prompted.

If you are copying from only one 8cm disc, go straight to step 6.

Continue copying?
(Replace disc in camcorder
and then select [Continue].)
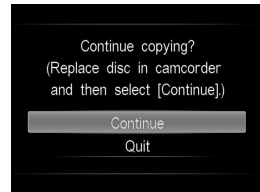
Continue
Quit

4 Press ✚ or ✚ to select [Continue] and press the ENTER button.

5 Repeat steps 3 and 4 for each 8cm disc.

6 When you finish copying from all 8cm discs, select [Quit] in the display of step 3 and press the ENTER button.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

When replacing an 8cm disc of the camera, select [Quit] and press the ENTER button.
You cannot stop while recording is in progress.

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Copying Only New Video/Photo

Sony Camera | 📼 HDD | 💾 Built-in Memory | 💳 Memory Card

You can copy only newly recorded contents of your camera whose previous contents have already been recorded onto a disc (by selecting [New Video/Photo] or One Touch Disc Burn). As the DVDirect automatically detects newly recorded videos/photos, you do not need to search for them yourself.

Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect cables for recording (pages 31).

☼ Hint

• Set [Auto Finalizing] to [OFF] before starting recording, if you wish to record additional videos and/or photos onto the disc later (page 67).

1 Make sure that the copy mode select screen appears.

When the DVDirect detects signals from a camera connecting to the USB port or memory card inserted into the slot, the copy mode select screen appears.

Number of required discs

Type of input

USB ● ×7

All
NewVideo/Photo
Playlist
Visual Index

RETURN Top   ●REC

2 Press ▲ or ▼ to select [New Video/Photo] and press ►.

☼ Hint

• If you do not need to select the type of images, simply select [New Video/Photo] and press the ⊙ (record) button to start recording. Go straight to step 5.

3 Make sure that the type of images you wish to copy is marked.

Press ▲ or ▼ to select an image. Pressing the ENTER button toggles the selection between marked and unmarked.

Marked image to copy

USB ● ×7   NewVideo/Photo
☑ 🎞 HD Video
☐ 🎞 SD Video
☑ 📷 Photo
ENTER Mark   ●REC

If both [HD Video] and [SD Video] types are selected for recording:

HD (High Definition) and SD (Standard Definition) videos are recorded onto separate discs.

For details, see "Notes on copying multiple types of image" on page 23.

⊘ Note

• You cannot select image types that cannot be recorded. (For example, a camera or memory card containing no video/photo data, or standard definition (SD) video taken by another digital video camera.)

Copying From a Camera

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4 Press the ⦿ (record) button to start recording.

The DVDirect starts the recording process. The ⦿ (record) button lights up during recording. The following appears in the display window.

When recording HD (High Definition) videos, [AVCHD] appears in the display window.


5 Change to a blank disc when the message [Insert a new disc.] appears.

If the contents of the camera do not fit onto a single disc, the disc will be ejected automatically when it becomes full. Remove the created disc and insert a blank one. Recording will resume automatically.

Next disc/number of required discs

6 Remove the created disc.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

Press the ⦿ (stop) button when replacing a disc.
You cannot stop while recording is in progress.

ᐎ Hint
• The DVDirect stores the recording history of a camera (built-in memory), or a memory card, copying only newly-recorded video (to be recorded to a disc). The DVDirect can store a combined total of 10 recording history stored in a camera or memory card.

Notes on using a memory card

When copying from a memory card that has been shared between cameras, make sure that the clock on each camera is set correctly. If the clock setting is not correct, copying only new video/photo may not be performed as desired.

Copying Playlist

Sony Camera   📀 **HDD**   ▣ **Built-in Memory**   ▤ **Memory Card**

This mode allows you to record videos within a Playlist created on your camera. For details on creating a Playlist, refer to your camera's operating instructions.
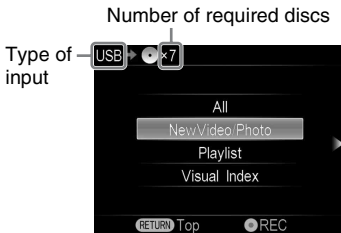Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect cables for recording (page 31).

1 Make sure that the copy mode select screen appears.

When the DVDirect detects signals from a camera connecting to the USB port or memory card inserted into the slot, the copy mode select screen appears.

Number of required discs

Type of input

2 Press ▲ or ▼ to select [Playlist] and press ►.

�i� Hint

• If you do not need to select the type of images, simply select [Playlist] and press the ⊙ (record) button to start recording. Go straight to step 5.

3 Make sure that the type of Playlist images you wish to copy is marked.

Press ▲ or ▼ to select a Playlist to copy. Pressing the ENTER button toggles the selection between marked and unmarked.

Marked video to copy

If both [HD Video] and [SD Video] types are selected for recording:

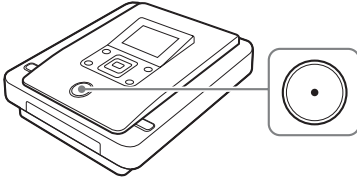HD (High Definition) and SD (Standard Definition) videos are recorded onto separate discs.

For details, see "Notes on copying multiple types of image" on page 23.

✦ Note

• You cannot select image types that cannot be recorded. (For example, a camera or memory card containing no video/photo data, or standard definition (SD) video taken by another digital video camera.)

Copying From a Camera

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4 Press the ⊙ (record) button to start recording.

The DVDirect starts the recording process. The ⊙ (record) button lights up during recording. The following appears in the display window.
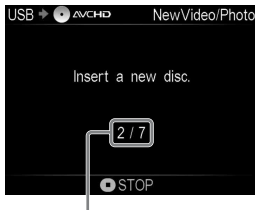
When recording HD (High Definition) videos, [AVCHD] appears in the display window.

USB → ● AVCHD   Playlist

Recording to disc …

1 / 7
10 % recorded

5 Change to a blank disc when the message [Insert a new disc.] appears.

If the contents of the camera do not fit onto a single disc, the disc will be ejected automatically when it becomes full. Remove the created disc and insert a blank one. Recording will resume automatically.

USB → ● AVCHD   Playlist

Insert a new disc.

2 / 7

●STOP

Next disc/number of required discs

6 Remove the created disc.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

Press the ⊙ (stop) button when replacing a disc.
You cannot stop while recording is in progress.

Copying Visual Index Lists

Sony Camera 📷 HDD □ Built-in Memory ▪️ Memory Card

Other Camera ▪️ Memory Card

You can record images selected by viewing thumbnails.

Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect cables for recording (page 31).

1 Make sure that the copy mode select screen appears.

When the DVDirect detects signals from a camera connecting to the USB port or memory card inserted into the slot, the copy mode select screen appears.

Number of required discs

Type of input

All
NewVideo/Photo
Playlist
Visual Index

RETURN Top
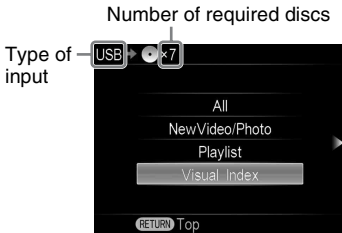
2 Press ▲ or ▼ to select [Visual Index] and press ▶.

3 Press ▲ or ▼ to select the type of images you wish to copy and press ▶.

⚙ Hint

• Unmark the contents type for easier navigation when:
  – you have only a few videos/photos to select, or
  – you have types of images that you do not wish to record.

Marked image to copy

USB ➜ ●×7 Visual Index

HD Video √ ALL
SD Video
Photo √ ALL

ENTER Mark ●REC

If both [HD Video] and [SD Video] types are selected for recording:

HD (High Definition) and SD (Standard Definition) videos are recorded onto separate discs.
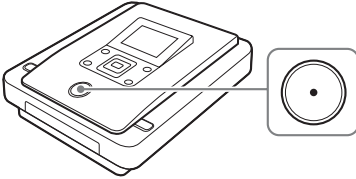
For details, see "Notes on copying multiple types of image" on page 23.

⊘ Note

• You cannot select image types that cannot be recorded. (For example, a camera or memory card containing no video/photo data, or standard definition (SD) video taken by another digital video camera.)

4 Make sure that the shooting date folders of the images you wish to copy are marked.

Press ▲ or ▼ to select a shooting date folder. Pressing the ENTER button toggles the selection between marked and unmarked.

To record all videos/photos taken on a particular shooting date, select (mark) the shooting date folder and press the ⊙ (record) button to start recording. Go straight to step 9.

Quality of image currently selected

USB ➜ ●×7 HD Visual Index

☑ 12.24.2007 √32
☐ 1. 1.2008
☑ 3.20.2008 √125
☑ 4.29.2008 √48

ENTER Mark ●REC

Shooting date

Number of selected images in same shooting date

5 Press ▲ or ▼ to select a shooting date folder and press ▶.

Copying From a Camera

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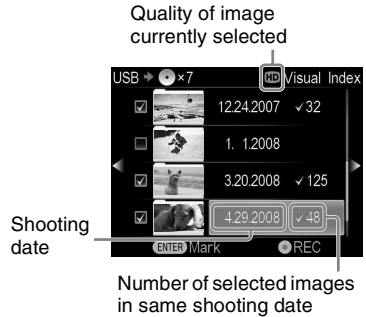
6 Press ▲ or ▼ to select a video or photo you wish to copy and press the ENTER button to mark.

Shooting time (not length of recording time)

� Hint

• When selecting a photo, the selected photo appears with one press of the → button. The photo can be rotated 90 degrees clockwise with each subsequent press of the → button.

7 To select a video or photo stored in a different shooting date folder, press ◄ and repeat steps 5 and 6.

To select different types of image, press ◄ repeatedly.

8 Press the ⊙ (record) button to start recording.

The DVDirect starts the recording process. The ⊙ (record) button lights up during recording. The following appears in the display window.

When recording HD (High Definition) videos, [AVCHD] appears in the display window.

9 Change to a blank disc when the message [Insert a new disc.] appears.

If the contents of the camera do not fit onto a single disc, the disc will be ejected automatically when it becomes full. Remove the created disc and insert a blank one. Recording will resume automatically.

Next disc/number of required discs

10 Remove the created disc.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

Press the ⊙ (stop) button when replacing a disc.
You cannot stop while recording is in progress.

Copying Manually

Sony Camera 📷 HDD ▭ Built-in Memory 💿 8cm Disc ▭ Memory Card

This mode allows you to record video on the DVDirect while controlling playback manually on the connected camera.
Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect an audio/video cable (AV cable) for recording (page 34).

◐ Note

• For copying from a DV tape, follow the instructions in "Copying Manually" of "Copying From Video Devices" (page 53).

☼ Hint

• When the prompt message [Format disc to record SD video?] appears after inserting a blank disc, select [Yes]. Formatting a disc may take several seconds to complete. You cannot record HD (High Definition) videos onto the formatted disc under this message.

1 **Press the ENTER button on the Top screen.**

2 **Select the input ([S-VIDEO] or [VIDEO]) connected to the camera in [Select input].**
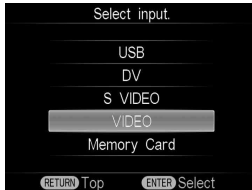
The connected camera image appears.

3 **Operate your camera to start video playback, and press the ⊙ (record) button of the DVDirect.**
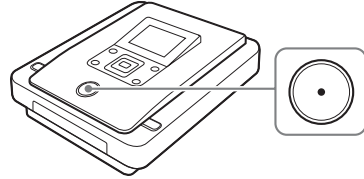
The message [Recording] appears in the display window, and the ⊙ (record) button lights up during recording. The following appears in the display window.

To pause recording

Press the ⊙ (record) button during recording. To resume recording, press the ⊙ (record) button again.

4 **Press the ⊙ (stop) button to stop recording.**

5 **To record an additional video, repeat steps 3 and 4.**

6 **Press the ▲ (eject) button to eject the disc when recording is complete.**

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7 To finalize the disc, press ↟ or ↡ to select [Yes] and press the ENTER button.

If you select [No] and press ➜, disc will be ejected without being finalized. You can skip step 8.

Finalize the disc for
playback on another device?

Yes

No

✷ Note
- To finalize a disc means to make the disc playable on other DVD devices. For details about finalizing, refer to [Auto Finalizing] or [Finalize disc] on page 67.

8 Press ↟ or ↡ to select [OK] and press the ENTER button.

Additional recordings cannot
be made to a finalized disc.

OK

Cancel

When finalizing has completed, the disc tray automatically opens.

Notes on copying manually from a camera

- Start recording immediately after inserting a disc. The recording process may take a few seconds to start after pressing the ⊙ (record) button if the disc was inserted more than 10 minutes prior to starting.
- When you press the ⊙ (stop) button, you may hear the noise of the disc turning momentarily.

One Touch Disc Burn

Sony Camera   HDD   Built-in Memory   Memory Card

This mode allows you to record video from a camera onto a disc by simply pressing DISC BURN on the camera. You can record additional video onto a disc that has been previously recorded on, as with copying only new images (page 41).

1 Turn on the DVDirect (page 29) and insert a disc (page 30).

2 Turn on the camera.

Note

• For the camera, make sure that the AC adapter is connected to the AC power cord.

3 Connect the camera to the DVDirect.

USB port (Type A)

USB cable (Not supplied)

USB port (Type Mini-B)
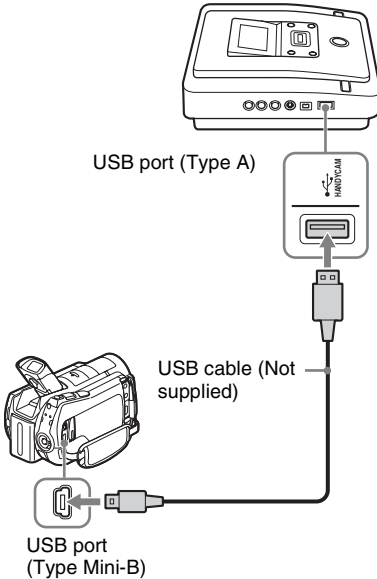
The USB SELECT screen appears on the camera's LCD screen.

4 Touch DISC BURN on the camera's LCD screen, or press the DISC BURN (⊙) button on the camera.

Touch [DISC BURN] or [DVD BURN]
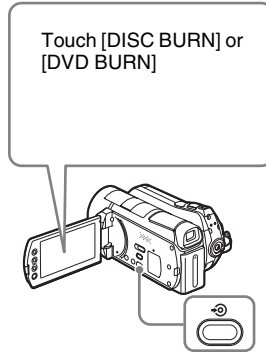
The DVDirect starts the recording process.

If the camera's media has both HD (High Definition) and SD (Standard Definition) videos:

HD (High Definition) and SD (Standard Definition) videos are recorded onto separate discs.

For details, see "Notes on copying multiple types of image" on page 23.

Notes

• Depending on the camera, the display that appears on the camera's LCD screen or button names on the camera may differ. (e.g. DVD BURN)
• In One Touch Disc Burn mode, you can record videos from an attached video camera; however, depending on the camera, the recordable media may vary. For example, in the case of a Handycam® containing both HDD and memory card media, only the HDD content can be recorded by One Touch Disc Burn.
• The DUBBING button of "HYBRID Plus" Handycam® does not work in the same manner as the DISC BURN button. Pressing the DUBBING button does not start recording with the DVDirect.

Copying From a Camera

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5 Change to a blank disc when the message [Insert a new disc.] appears.

If the contents of the camera do not fit onto a single disc, the disc will be ejected automatically when it becomes full. Remove the created disc and insert a blank one. Recording will resume automatically.

Next disc/number of required discs

6 Remove the created disc.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

Press the ⊙ (stop) button when replacing a disc.
You cannot stop while recording is in progress.

Copying All Contents (from a DV tape)

Sony Camera 📼 **DV Tape**
Other Camera 📼 **DV Tape**

This mode allows you to record the entire video tape content onto a disc. The DVDirect automatically controls playback on the connected video device.

Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect DV (i.LINK) cable for recording (page 33).

1 Make sure that the copy mode select screen appears.

When the DVDirect detects a signal from a camera connected to the DV IN connector, the copy mode select screen appears.

Type of input

⊘ Note

• If the copy mode select screen does not appear, press the ENTER button on the Top screen, and select [DV] in [Select input].

2 Press ▲ or ▼ to select [All] and press the ⊙ (record) button.
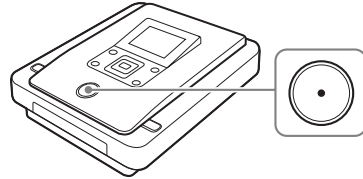
The DVDirect starts recording at the same time the video device starts playback. If the video tape is not at its beginning, it will automatically rewind and the DVDirect will start recording. During recording, the message [Recording] appears in the display window, and the ⊙ (record) button lights up. The following appears in the display window.

To pause recording

Press the ⊙ (record) button during recording.

To resume recording, press the ⊙ (record) button again.

To stop recording

Press the ⊙ (stop) button, and then press the RETURN button. The DVDirect stops recording and returns to the copy mode select screen in step 1.

3 Remove the created disc.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

⫶ Hint

• Recording automatically stops when a blank portion over 2 minutes or the end of the DV tape is reached.

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Copying All Contents (Photo)

Sony Camera · Memory Card
Other Camera · Memory Card

You can record all photos taken with your digital still camera from its memory card onto a disc. Before selecting this copy mode, insert a disc and memory card (pages 30 and 37).

1 Make sure that the copy mode select screen appears.

When the DVDirect detects a memory card inserted into any of the memory card slots, the copy mode select screen appears.

Number of required discs

Type of input
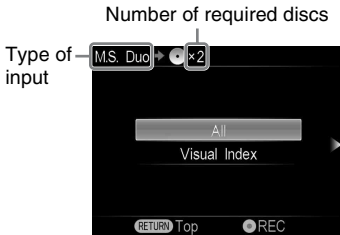
2 Press ▲ or ▼ to select [All] and press the ⊙ (record) button.
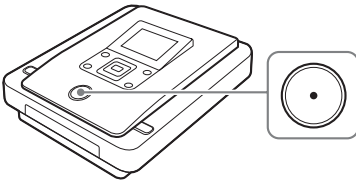
The DVDirect starts the recording process. The ⊙ (record) button lights up during recording. The following appears in the display window.

3 Change to a blank disc when the message [Insert a new disc.] appears.

If the media contents do not fit onto a single disc, the disc will be ejected automatically when it becomes full. Remove the created disc and insert a blank one. Recording will resume automatically.
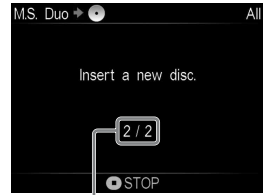
Next disc/number of required discs

4 Remove the created disc.

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

Press the ⊙ (stop) button when replacing a disc.
You cannot stop while recording is in progress.

Copying Manually

Sony Camera   DV Tape   Video Device

Other Camera   DV Tape

This mode allows you to record video on the DVDirect while controlling playback manually on the connected video device.

Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc (page 30) and connect cables for recording (pages 33 and 34).

Hint

• When the prompt message [Format disc to record SD video?] appears after inserting a blank disc, select [Yes]. Formatting a disc may take several seconds to complete. You cannot record HD (High Definition) videos onto the formatted disc under this message.

---

1 **Make sure that the video device is correctly connected to the DVDirect.**

For connection with DV (i LINK) cable:

When the DVDirect detects a signal from a camera connecting to the DV IN connector, the copy mode select screen appears. Press ▲ or ▼ to select [Manual] and press ➡.

Type of input

Note

• If the copy mode select screen does not appear, press the ENTER button on the Top screen, and select [DV] in [Select input].

For connection with A/V cables:

Press the ENTER button on the Top screen and select the input ([S-VIDEO] or [VIDEO]) connected to the video device in [Select input].

2 **Operate the video device to start playback, and press the ⊙ (record) button of the DVDirect to start recording.**
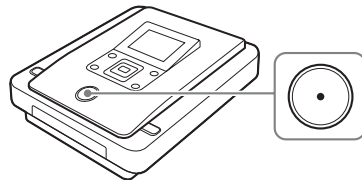
During recording, the message [Recording] appears in the display window, and the ⊙ (record) button lights up. The following appears in the display window.

To pause recording

Press the ⊙ (record) button during recording. To resume recording, press the ⊙ (record) button again.

Hint

• The DVDirect starts and stops recording automatically as it detects video input signals from a connected video device. For example:

– When you press the ⊙ (record) button before the connected video device starts playing, the DVDirect pauses. When the video device starts playing back, the DVDirect automatically starts recording video.

– If you stop playback on the video device during recording, video signal is interrupted and the DVDirect pauses recording. If you resume playback on the video device, the DVDirect resumes recording.

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When the DVDirect waits a video signal to resume recording, the message [Waiting for input signal.] appears in the DVDirect's display window. If no video signal is detected for 2 minutes, the DVDirect stops recording. (As video devices always output video signals from their operation screen or TV screen other than playback, some video devices may not operate as above.)

3 Press the ⊙ (stop) button to stop recording.

4 To record an additional video, repeat steps 2 and 3.

5 Press the ⏏ (eject) button to eject the disc when recording is complete.

6 To finalize the disc, press ▲ or ▼ to select [Yes] and press the ENTER button.

If you select [No] and press ▶, the disc will be ejected without being finalized. You can skip step 7 below.

Finalize the disc for
playback on another device?

Yes
No

💡 Hint

• To finalize a disc means to make the disc playable on other DVD devices. For details about finalizing, refer to [Auto Finalizing] or [Finalize disc] on page 67.

7 Press ▲ or ▼ to select [OK] and press the ENTER button.
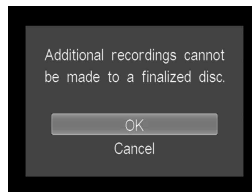
Additional recordings cannot
be made to a finalized disc.

OK
Cancel

When finalizing has completed, the disc tray automatically opens.

Notes on copying manually from a video device

• When connecting the camera to the DVDirect with a DV (i LINK) cable, a video appears in the DVDirect's display window a little behind appearing in the camera's LCD screen. When copying a video, operate the DVDirect while monitoring the DVDirect 's display window.
• Start recording immediately after inserting a disc. The recording process may take a few seconds to start after pressing the ⊙ (record) button if the disc was inserted more than 10 minutes prior to starting.
• When you press the ⊙ (stop) button, you may hear the noise of the disc turning momentarily.

Copying Visual Index Lists (Photo)

Sony Camera **Memory Card**
Other Camera **Memory Card**

This method allows you to select and record photos from a camera's memory card onto a disc. You can select them by viewing thumbnails or by the shooting date.

Before selecting this copy mode, turn on the DVDirect (page 29), insert a disc and the memory card (pages 30 and 37).

1 Make sure that the copy mode select screen appears.

When the DVDirect detects a memory card inserted into any of the memory card slots, the copy mode select screen appears.

Number of required discs

Type of memory card
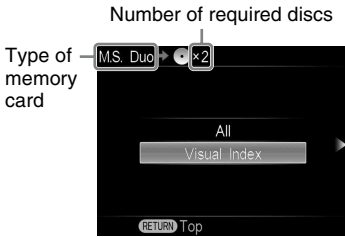
2 Press ▲ or ▼ to select [Visual Index] and press ➜.

3 Make sure that [Photo] is selected and press ➜.

Marked photo to copy
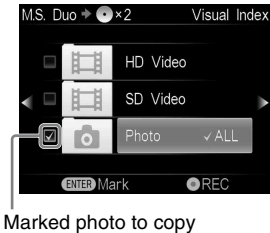
☼ Hint

• If you wish to record all photos, press the ⊙ (record) button to start recording. Go straight to step 9.

4 Make sure that the shooting date folders of the photos you wish to copy are marked.

Press ▲ or ▼ to select a shooting date folder. Pressing the ENTER button toggles the selection between mark and unmark.

To record all photos taken on a particular shooting date, select (mark) the shooting date folder and press the ⊙ (record) button to start recording. Go straight to step 9.

Shooting date

Number of selected images of same shooting date

5 Press ▲ or ▼ to select a shooting date folder and press ➜.

6 Press ▲ or ▼ to select a photo you wish to copy and press the ENTER button to mark.

Shooting time (not length of recording time)

Thumbnail

✦ Note

• Depending on the photo, thumbnails may not appear.

☼ Hint

• The selected photo appears with one press of the ➜ button. The photo can be rotated 90 degrees clockwise with each subsequent press of the ➜ button.

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7 **To select a photo stored in a different shooting date folder, press ◄ and repeat steps 5 and 6.**

8 **Press the ⦿ (record) button to start recording.**

The DVDirect starts the recording process. The ⦿ (record) button lights up during recording. The following appears in the display window.

9 **Change to a blank disc when the message [Insert a new disc.] appears.**

If the media contents do not fit onto a single disc, the disc will be ejected automatically when it becomes full. Remove the created disc and insert a blank one. Recording will resume automatically.

Next disc/number of required discs

10 **Remove the created disc.**

If [Auto Finalizing] is set to [ON], the disc will be finalized automatically when recording is complete (page 67).

To stop recording

Press the ⦿ (stop) button when replacing a disc.
You cannot stop while recording is in progress.

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Connecting to a TV

You can use the DVDirect to playback created discs. Simply view them in the display window of the DVDirect, or connect the DVDirect to a TV.

To view on a TV, you need to connect and setup the DVDirect first. The video quality varies depending on the type of TV and the connection used. Choose the connection ([1] - [3]) that best suits for your TV.

❹ Notes

- Only images or operation display can be displayed on the TV screen during playback. Images other than playback cannot be displayed on the TV screen.
- No picture appears on the DVDirect's display window when an external output is selected.
- If you connect the DVDirect to a TV with an HDMI cable or component video cable, play an SD (Standard Definition) disc, and then switch from the Top screen to the playback display (or vice versa), the TV screen image may be distorted. This is not a malfunction.

ʊ̈ Hint

- HDMI and component video cables produce better picture quality for playing back HD (High Definition) discs.

HDMI IN ➡ [1] → Page 58

COMPONENT IN
AUDIO IN ➡ [2] → Page 58

AV IN ➡ [3] → Page 59

Viewing a Created Disc

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1 HDMI cable

HDMI cable
(not supplied)

HDMI IN connector
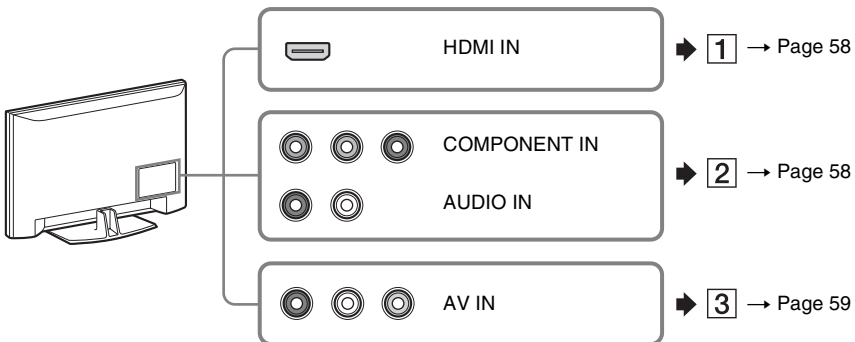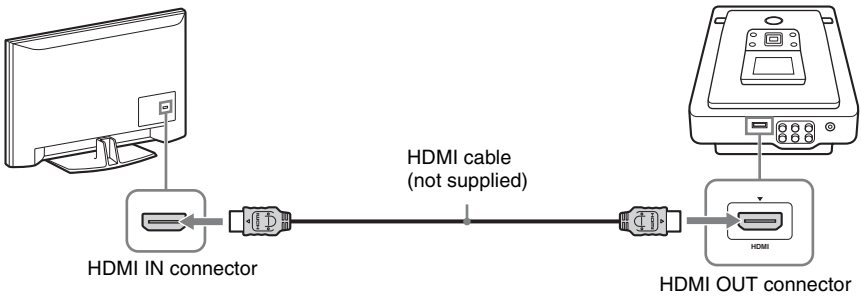
HDMI OUT connector

⚙ **Notes**

- Use an HDMI cable that is HDMI compliant (look for the HDMI logo).
- Some TV sets may not work with the DVDirect. (e.g., no sound or picture)
- Be sure to connect the HDMI IN and the HDMI OUT with a cable. Connecting the HDMI OUT on both the TV and the DVDirect may cause damage.
- When the HDMI input on the TV supports Dolby Digital 5.1ch surround sound, it outputs 5.1ch surround audio for a disc recorded in 5.1ch surround sound.
- The DVDirect does not support HDMI CEC, such as BRAVIA® Theatre Sync™.

2 Component video and audio cables

Component video cable (not supplied)

COMPONENT IN
connectors

COMPONENT OUT
(Y, P$_B$, P$_R$) connectors

AUDIO IN
connectors

Audio/video cable
(supplied) or audio
cable (not supplied)

AUDIO OUT
connectors
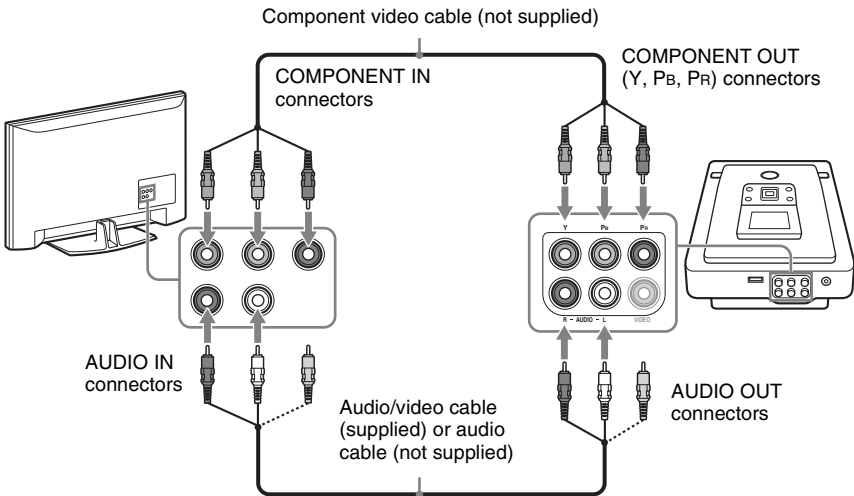
⚙ **Note**

- You will get no sound, if only the COMPONENT (Y, P$_B$, P$_R$) connectors are connected. The AUDIO L/R (white and red) connectors must also be connected to obtain sound.

3 Audio/video cable

AV IN connectors

Audio/video cable (supplied)

AUDIO OUT connectors
VIDEO OUT connector
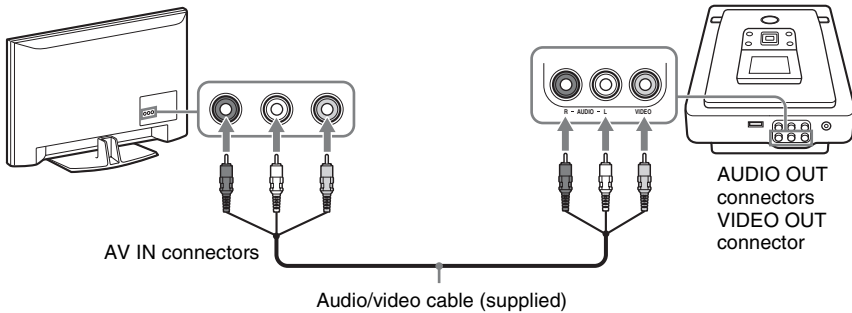
Connecting to a TV through a video device

Check the input connectors on the video device and use appropriate cables.
Connect a cable to the external input connector on the video device. If the video device has an input selector, select an appropriate external input (e.g., Video 1, Video 2, etc.).

Connecting to a monaural TV (with only one AUDIO IN connector)

Connect the VIDEO (yellow) connector of the audio/video cable to the VIDEO IN on the TV. Connect the AUDIO L (white) connector to the MONO AUDIO IN on the TV.

Viewing Videos

You can play back only discs created with the DVDirect.

⊘ Notes

- You cannot play back discs created with a video device other than the DVDirect. The DVDirect does not support playback of commercial DVDs or contents on a memory card inserted to the DVDirect.
- When you view a video on the DVDirect's display window, there is no sound.

☼ Hints

- The DVDirect is compatible with "x.v.Color." When connecting the DVDirect to an x.v.Color-compliant TV (BRAVIA) with an HDMI cable (not supplied), colors in a video recorded by a x.v.Color-compliant High Definition Handycam® can be more faithfully reproduced. ([X.V.COLOR] setting on Handycam® must be set to [ON].)
- HD (High Definition) videos recorded in 720p resolution are output in 720p resolution, even if [HDMI settings] is set to [1080i].

Viewing on a TV

Before you begin, connect a TV to the DVDirect (page 57).

1 On your TV, select the input from the DVDirect.

For details, refer to the operating instructions for your TV.

2 Turn on the DVDirect.

The Top screen appears.

3 Press the OUTPUT button.
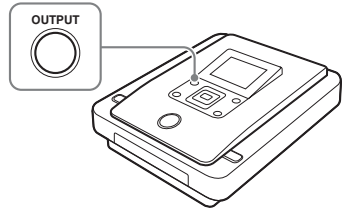
⊘ Note

- When only the Top screen appears on the DVDirect's display window in step 2, external output can be selected by pressing the OUTPUT button.

4 Press ▲ or ▼ to select [Yes] and press the ENTER button.

LED of the selected output lights up on the DVDirect when an external output is selected (page 27).

5 Press the OUTPUT button repeatedly to change the output of the DVDirect.

Every time you press the OUTPUT button, the DVDirect changes its video output (VIDEO → COMPONENT → HDMI → DVDirect's display window).

6 Insert a disc created with the DVDirect, and press the ⊙ (playback) button.

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7 If the disc contains both videos and photos, press ↑ or ↓ to select [Video] and press ►.
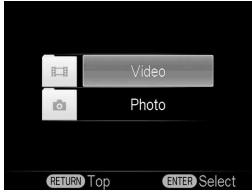
Playback starts automatically when an unfinalized disc is inserted.

When playing back a finalized disc, go to step 8.

8 Press ↑/↓/◄/► to select the title you want to view, and press the ⊙ (playback) button.
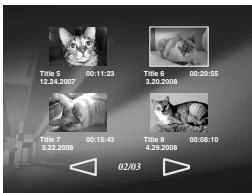
Example: Disc Menu of SD (Standard Definition) disc (page 78)

The DVDirect starts playback.

To stop playback

Press the ⊙ (stop) button. When you press the ⊙ (play) button again, the DVDirect starts playback from the point when you pressed the ⊙ (stop) button. To play from the beginning of the disc, reinsert the disc and press the ⊙ (play) button.

☆ Hint
• If you play the finalized disc, you can display the Disc Menu and play from the beginning of the selected title (pages 62 and 78).

Note on playback display

If you press the DISPLAY button on the remote during playback, the following playback information appears. When the DISPLAY button is pressed again, the information is not shown.

Chapter or scene number (Current number/total number)

Title number (Current number/total number)

Playing   Playing time
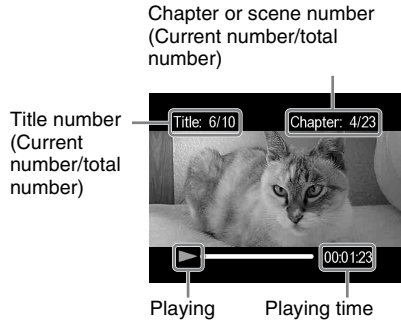
For details on chapter, scene, or title number, refer to "About Created Discs" on page 78.

☆ Hint
• When you connect the DVDirect to High Definition TV and playback HD (High Definition) disc, scene number and title number appear on the bottom of display.

Viewing on the DVDirect

1 Turn on the DVDirect and insert a disc created with the DVDirect.

2 Press the ⊙ (playback) button.

3 Follow steps 7 to 8 of "Viewing on a TV" (page 60).

Playing videos with the Disc Index function

You can play back sequentially the first 10 seconds of each scene of an HD (High Definition) video, from its beginning.

Select [Disc Index] on the Disc Menu of HD (High Definition) disc displayed in step 8 of "Viewing on a TV."
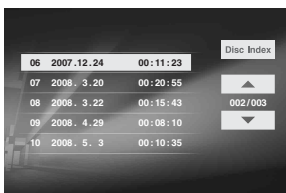
Each scene is played sequentially for 10 seconds from the beginning. If a scene recorded is too long, indexes will be automatically created every 5 minutes and played for 10 seconds.
If you press the ENTER button during playback with the Disc Index, normal playback starts.
During playback with the Disc Index, playback information appears. If the DISPLAY button on the remote is pressed, the information is not shown.

Operation with remote control

Button	Operation
DISPLAY	Display info
▶/▶▶	Fast forward (during playback) Change the search speed in three stages (during fast forward) Slow motion (during pause until the button is released)
◀◀	Fast reverse (during playback) Change the search speed (during fast reverse)
▶▶I	Display the next title/chapter/scene
I◀◀	Display the beginning of the current title/chapter/scene or the previous title/chapter/scene (Press twice to display the previous title/chapter/scene)
PLAY (◎)*1	Return to normal playback
PAUSE	Pause/Resume
STOP (◉)*1	Stop playback (return to the Top screen or video/photo selection screen)
MENU	Display the Disc Menu*2
◀/▶ (◀/▶)*1	Fast forward/Fast reverse (during playback) Change the search speed (during fast forward or fast reverse)
RETURN*1	Return to the Top screen or video/photo selection screen

*1 The VRD-MC10 has an equivalent button for this operation.
*2 For finalized discs only.

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Viewing Photos

You can play back only discs created with the DVDirect.

⚡ Note

• You cannot playback discs created with a video device other than the DVDirect. The DVDirect does not support playback of commercial DVDs or contents on a memory card inserted to the DVDirect.

Viewing on a TV

Before you begin, connect a TV to the DVDirect (page 57).

1 On your TV, select the input from the DVDirect.

For details, refer to the operating instructions for your TV.

2 Turn on the DVDirect.

The Top screen appears.

Insert memory card
or connect camera.

RETURN Setup ENTER Copy ▶ Play

3 Press the OUTPUT button.

OUTPUT

⚡ Note

• When only the Top screen appears on the DVDirect's display window in step 2, external output can be selected by pressing the OUTPUT button.

4 Press ⬆ or ⬇ to select [Yes] and press the ENTER button.

Switch to external video output?

Yes

No

LED of the selected output lights up on the DVDirect when an external output is selected (page 27).

5 Press the OUTPUT button repeatedly to change the output of the DVDirect.

Every time you press the OUTPUT button, the DVDirect changes its video output (VIDEO → COMPONENT → HDMI → DVDirect's display window).

6 Insert a disc created with the DVDirect, and press the ◉ (playback) button.

7 If the disc contains both videos and photos, press ⬆ or ⬇ to select [Photo] and press the ENTER button.

Video

Photo

RETURN Top ENTER Select

Viewing a Created Disc

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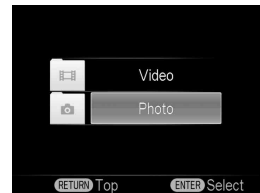
8 **Press ↟ or ↡ to select a date and press ➡.**

	12.25.2007
	3.20.2008
	3.22.2008
	5. 3.2008
▶ Slideshow	

9 **Press ↟ or ↡ to select a photo and press the ENTER button.**

12.25.2007		10:15AM
3.20.2008		11:25AM
		11:28AM
3.22.2008		12:18PM
▶ Slideshow		
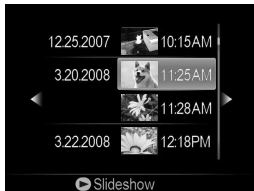
The selected photo is displayed on the display window of the DVDirect.

Press ↟ or ↡ to display the next or the previous photo.

Note on playback display

If you press the DISPLAY button on the remote during playback, the following playback information appears. When the DISPLAY button is pressed again, the information is not shown.

Shooting date

Photo number (Current number/total number) — 68/145   3.20.2008

⊙: Playing slideshow
❚❚: Displaying photo

Progress bar for playback

Viewing on the DVDirect

1 **Turn on the DVDirect and insert a disc created with the DVDirect.**

2 **Press the ⊙ (playback) button.**
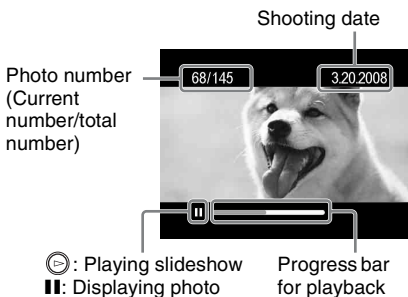
3 **Follow steps 7 to 9 of "Viewing on a TV" (page 63).**

Playing a photo slideshow

Select a date or photos in "Viewing on the DVDirect" (page 64) and press the ⊙ (playback) button.
The photos stored in the selected date, or the selected photos are continuously played in rotation. All photos after the selected date or selected photos are played. The DVDirect plays a factory-set background music or imported favorite music during a photo slideshow (page 67).

Operation with remote control

Photo display

Button	Function
DISPLAY	Display info
▶▶▌	Display the next photo
▐◀◀	Display the previous photo
PLAY (⊚)*	Play the slideshow
STOP (▣)*	Stop display (return to the Top screen or video/photo selection screen)
▲/▼ (♦/♦)*	Display the next or the previous photo
▶ (♦)*	Rotate the photo 90 degrees clockwise
◀ (♦)*	Display the photo list
RETURN*	Display the photo list

Slideshow

Button	Function
DISPLAY	Display info
PAUSE	Continue to display the photo playback (play the slideshow again by pressing the PLAY button)
STOP (▣)*	Stop display (return to the Top screen or video/photo selection screen)
RETURN*	Display the photo lists

* The VRD-MC10 has an equivalent button for this operation.

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Using the Setup Menu

You can change the various settings for creating discs in the Setup Menu screen.

1 Turn on the DVDirect and press the RETURN button.

Insert memory card
or connect camera.

RETURN Setup   ENTER Copy   ▶ Play

2 Press ⬆ or ⬇ to select a menu item, and press the ENTER button.

Setup

Rec Quality	HQ
Auto Stop Timer	OFF
Auto Chapter	OFF
Auto Finalizing	ON
Slideshow Music	Built-in Music
Disc Menu	A

RETURN Top
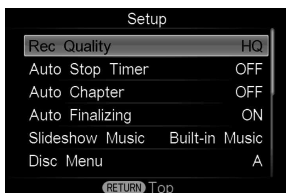
➜ indicates the default settings.

Rec Quality (REC mode)

Select the recording quality for recording in SD (Standard Definition) quality.
These options are available when you use an audio/video cable, an AV cable, an S-video cable or a DV (i.LINK) cable to connect your video device.

➜ **HQ**

Highest image quality

HSP

High image quality

SP

Standard image quality

LP

Low image quality. You can record more videos on a disc.

☼ **Hint**
• Disc recording capacity depends on the REC mode (page 77).

Auto Stop Timer

Select the preset time used to stop recording automatically when recording in the SD (Standard Definition) quality.
Auto Stop Timer is available when you use an audio/video cable, an AV cable or an S-video cable to connect your video device.

➜ **OFF**

Recording does not stop automatically.

30 minutes - 4 hours

Recording automatically stops when the preset time has passed after recording starts. Select 30 min, 60 min, 90 min, 2h, 3h, or 4h.

✪ **Note**
• The Auto Stop Timer setting is canceled when:
  – the recording is completed,
  – the ⬤ (stop) button is pressed during recording, or
  – the power is turned off.

Auto Chapter

Specify the time interval at which chapters are created automatically on an SD (Standard Definition) disc.
Auto Chapter is available when you use an audio/video cable, an AV cable, an S-video cable or a DV (i.LINK) cable to connect your video device.

OFF

No chapters are inserted.

➜ **5 min**

Inserts chapters at approximately 5-minute intervals.

10 min

Inserts chapters at approximately 10-minute intervals.

15 min

Inserts chapters at approximately 15-minute intervals.

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Auto Finalizing

Specify whether or not to finalize the disc automatically when recording is completed. This allows immediate playback on DVD players.

→ ON

The disc will be finalized automatically when recording is completed. You can play back the finalized disc on other playback devices.

OFF

The disc will not be finalized when recording is completed. You can add videos and/or photos onto the same disc later.

✪ Notes

- To playback the recorded disc on other playback devices, you need to finalize it with the DVDirect.
- You cannot add videos and/or photos to a finalized disc.
- When copying all contents or selecting the another copy mode requires more than one disc, the recorded discs will be finalized once full, regardless of the Auto Finalize setting. Only the last disc will remain unfinalized.
- When you copy both SD (Standard Definition) and HD (High Definition) videos at one time, the recorded discs will be finalized once full, regardless of the Auto Finalize setting. Only the last disc of all HD (High Definition) and SD (Standard Definition) discs will remain unfinalized. If recorded onto only one disc or for the last disc, you can select whether or not to finalize the disc when prompted after recording is completed.
- The disc will not be finalized in the Manual copy mode, even though [Auto Finalizing] is set to [ON].

Disc Menu

Select a background image (A - D) to apply to the Disc Menu screen for the discs created with the DVDirect. The background image is set to [A] by default.

Slideshow Music

You can import your favorite music for Slideshow Music (background music).

① **Insert a CD of your favorite music, press ↑ or ↓ to select [Slideshow Music], and press the ENTER button.**

```
        Slideshow  Music

             OFF
        Built-in  Music
        Imported  Music

       Import  New  Music

  RETURN Cancel    ENTER Select
```

② **Press ↑ or ↓ to select track number, and press the ⊙ (record) button.**

```
        Import  New  Music

               ▲
        Track  03      04:56
               ▼

  RETURN Cancel    ● Import
```
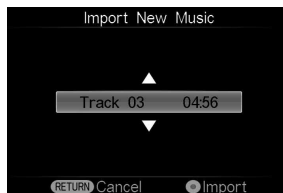
The DVDirect starts importing the music, and the message [Importing music …] appears in the display window.

When the message [Complete] appears, importing has completed.

♔ Hint

- When connecting the audio device with AUDIO IN connectors to the DVDirect's AUDIO OUT connectors, you can play back the music by selecting a track number.

✪ Notes

- You can import only one track, with a maximum of 10 minutes playing time.
- Do not use a nonstandard disc, such as copy control CD.

Setup

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Finalize disc

If you eject a disc without finalizing, you can finalize it later.

① **Insert a disc to finalize, press ▲ or ▼ to select [Finalize disc], and press the ENTER button.**

```
                    Setup
Disc Menu                        A
Finalize disc
Erase disc
COMPONENT Settings            480i
HDMI Settings
System Info
                              RETURN Top
```

② **Press ▲ or ▼ to select [Yes] and press the ENTER button.**

```
                Finalize disc

            Finalize the disc for
         playback on another device?

                    Yes
                    No
```

③ **Press ▲ or ▼ to select [OK] and press the ENTER button.**

```
                Finalize disc

         Additional recordings cannot
          be made to a finalized disc.

                    OK
                  Cancel
```

The DVDirect starts finalizing the disc.

When the message [Complete] appears, finalizing has completed.

✪ **Note**

• It takes a few minutes to complete finalizing a disc. (Depending on the contents of a disc, time to complete finalizing a disc may vary.)

Erase disc

You can erase videos or photos recorded on a DVD+RW or DVD-RW disc. The erased disc is reusable as a blank disc.

✪ **Note**

• Be aware that this operation erases all data.

① **Insert a disc to erase, press ▲ or ▼ to select [Erase disc], and press the ENTER button.**

```
                    Setup
Finalize disc
Erase disc
COMPONENT Settings            480i
HDMI Settings
System Info
Demo                            ON
                              RETURN Top
```
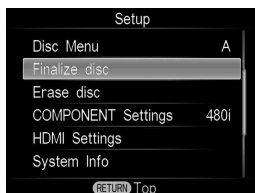
② **Press ▲ or ▼ to select [Yes] and press the ENTER button.**

```
                Erase disc

             Erase the disc?

                    Yes
                    No
```

③ **Press ▲ or ▼ to select [Yes] and press the ENTER button.**

```
                Erase disc

         All content will be erased.
                 Continue?

                    Yes
                    No
```
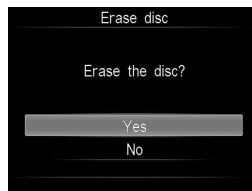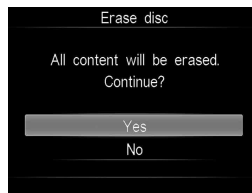
The DVDirect starts erasing the disc.

When the message [Complete] appears, erasing has completed.

COMPONENT Settings

Specify the type of video signals from COMPONENT OUT connectors.

→ **480i**

Outputs 480i resolution.

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480p

Outputs 480p resolution.

1080i

Outputs 1080i resolution.

HDMI Settings

YPbPr/RGB

Specify the color space for converting video signals from the HDMI OUT connector.

➔ **Auto**

Select [Auto] unless necessary to specify the signal format.

Y/Pb/Pr 4:2:2

Converts the video signal format to Y/Pb/Pr 4:2:2.

Y/Pb/Pr 4:4:4

Converts the video signal format to Y/Pb/Pr 4:4:4.

RGB 16-235

Converts the video signal format to RGB 16-235.

RGB 0-255

Converts the video signal format to RGB 0-255.

Resolution

Specify the resolution to output over HDMI OUT connector.

➔ **Auto**

Select [Auto] unless necessary to specify the output resolution.

480p

Outputs 480p resolution.

1080i

Outputs 1080i resolution.

ʾϙʾ **Hint**
• HD (High Definition) videos recorded in 720p resolution are output in 720p resolution, even if [1080i] is set.

Sound

Specify the audio signal from the HDMI OUT connector.

➔ **Auto**

Select [Auto] unless necessary to specify the audio output. This outputs the audio signal suitable for the TV.

PCM

Down-mixes the audio signal to Linear PCM 2ch and outputs from HDMI OUT.

 Note
• If your TV does not support Dolby Digital, DTS or AAC, connecting it to the DVDirect and selecting [Auto] may not get sound. Select [PCM], if you get no sound.

System Info

You can check the system software version of the DVDirect.
Select [System Info] to view the version of system software.
Select [Reset System] to clear the history stored on the DVDirect and revert the settings to the factory default.

ʾϙʾ **Hints**
• The system software is the built-in software that makes the DVDirect work.
• Selecting [Reset System] clears the recording history necessary for copying only new video/photo and resets the customized settings.

Demo

The DVDirect automatically plays a demo when it is not operated for a set period of time.

OFF

Disables the demo.

➔ **ON**

Enables the demo.

Setup

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TV Type

You can select the aspect ratio of the connected TV.

→ **16:9**

Select this when you connect a wide-screen TV.

4:3

Select this when you connect a 4:3 screen TV.

Language

Select the language display for the display window.

Troubleshooting

If you experience any of the following difficulties while using the DVDirect, use this troubleshooting guide to help remedy the problem before requesting repairs. Refer also to the operating instructions of your camera or video devices.

General

To create an SD (Standard Definition) video disc by down-converting an HD (High Definition) video

- Connect a camera to the DVDirect using an audio/video cable, an AV cable or AV cable with S VIDEO (page 34). You cannot use a USB cable for connection.

Power

The DVDirect does not turn on.

- Make sure that the AC power cord is connected securely (page 29).
- Unplug the power cable and disconnect the video device from the DVDirect. Remove the memory card. Then, reconnect the video device to the DVDirect (or insert the memory card again) and turn it on.

Connection and operation

The camera is connected with a USB cable, but the DVDirect does not work.

- Make sure that your Sony camera is supported by the DVDirect.
- Make sure that the camera is configured for USB connection correctly and the USB cable is connected properly to the camera (page 31).
- Disconnect the USB cable from the DVDirect. Turn both the camera and the DVDirect off, then on again.

The camera is connected with a DV (i.LINK) cable, but the DVDirect does not work.

- Make sure that the camera is set to the PLAY/EDIT mode. If it is in the CAMERA mode, you cannot copy videos with the DVDirect (page 33).
- Disconnect the DV (i.LINK) cable from the DVDirect. Turn both the camera and the DVDirect off, then on again.

A video device is connected to VIDEO IN or S VIDEO IN of the DVDirect, but playback displays no video on the DVDirect's display window.

- Make sure that the audio/video cable or the S-video cable is connected properly to A/V OUT or S VIDEO OUT of the video device.
- The DVDirect is not detecting input signals from the connected video device. Turn on the video device, and configure or operate it to start playback.
- Make sure that a correct input type is selected. On the Top screen, press the ENTER button and select the input connector (S VIDEO or VIDEO) to which the video device is connected.

The number of discs required does not appear on the screen when recording.

- If many videos are recorded, display may take some time.

When copying Visual Index, ⊘ appears on images.

- Images displaying ⊘ cannot be copied.

Playback on a TV

The DVDirect is connected to a TV, but there is no sound or image.

- Using your TV's menu, specify the input type in use to connect the DVDirect.
- Press the OUTPUT button of the DVDirect and select the output type in use to connect to your TV. Make sure that the LED for the correct output type is lit (page 27).

The aspect ratio of an image played on a TV connected to the DVDirect differs from the aspect ratio of the recorded image.

- Make sure that the TV type setting on the DVDirect (page 70) corresponds with your TV.
- Change the aspect ratio of your TV. For details, refer to the operating instructions for your TV.

Playback

Other video devices do not playback the created SD (Standard Definition) disc.

- The disc may not be finalized. Use the DVDirect and finalize the disc first (page 68).

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- Some video devices may not work properly for the created discs type.
- Your video device may not support the disc type (e.g., DVD+R, DVD+RW, DVD+R DL). Check if your video device supports the disc type.

Other video devices do not playback the created HD (High Definition) disc.

- A generic DVD player cannot playback HD (High Definition) discs. You need an AVCHD-compatible player (e.g., Blu-ray Disc player/recorder) to playback HD discs (page 24).

Other video devices do not playback the created photo disc.

- You need a video device capable of playing JPEG files.
- Some devices have different playback operation for JPEG files and videos. For details, refer to the operating instructions for your device.

Messages

You cannot select OUTPUT during this operation.

- You cannot display images via external outputs during recording or when using the Setup Menu.

Unknown USB device found. Check the connected device.

- An unsupported USB device is connected to the USB port of the DVDirect.
- The camcorder is supported by the DVDirect, but the USB connection or setting on the connected camera may not be correct.

Insert a recordable disc supported by this recorder.

- An incompatible disc is inserted. Insert a disc compatible with the DVDirect.
- DVD-RW or DVD+RW discs recorded on other video devices are not supported. Use [Erase disc] and erase videos or photos recorded on a disc. The erased disc is reusable as a blank disc (page 68).

The disc is finalized. Cannot record.

- The disc has already been finalized. You cannot use a finalized disc to record videos and/or photos.

No recordable content found.

- The camera or memory card has no video or photo to record.
- One or more videos in the Playlist created on the camera are missing (for copying Playlist only).
- The camera or memory card has no new video or photo to record (for copying new images only).
- A correct storage media is not selected on the USB SELECT screen after the camera is connected.

No recordable content found for One Touch Disc Burn.

- The camera or memory card has no new video or photo to record in the One Touch Disc Burn mode.

Cannot copy to this disc. Insert a new disc.

- You cannot add an HD (High Definition) video to a disc that contains a SD (Standard Definition) video.
- You cannot add an SD (Standard Definition) video to a disc that contains a HD (High Definition) video.

This disc cannot be played by this recorder.

- The DVDirect does not support playback of commercial DVDs or discs recorded on other video devices.

Too many photos. Will import maximum number of allowable photos only.

- If too many photos are saved into the camera or memory card, the DVDirect is copying the number of photos available.

XX/YY videos are not recordable. Continue copying?

- HD (High Definition) video taken in REC mode at a bit rate exceeding 18Mbps, such as in [HD FX] mode (for example, High Definition Handycam®) is contained in a camera or memory card. Such video does not comply with AVCHD format. Select [Yes] to record other than the above condition videos. (XX/YY: number of un-recordable videos/total number of videos)

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Supported Discs and Memory Cards

Discs

The following writable discs are compatible with the DVDirect. However, not all disc operations are supported.

Disc type	Logo	Copying with DVDirect	Writing speed
DVD+R	RW DVD+R	✓	Up to 16x
DVD+R DL (Double layer)	RW DVD+R DL	✓	Up to 8x
DVD+RW	RW DVD+ReWritable	✓	Up to 8x
DVD+RW High speed	RW DVD+ReWritable High Speed	✓	Up to 8x
DVD-R	DVD R	✓	Up to 16x
DVD-R DL (Double layer)	DVD R RDL		–
DVD-RW	DVD RW	✓	Up to 6x

՛Ö′ Hint
• The DVDirect supports both CPRM and non-CPRM discs.

⚡ Note
• Blu-ray disc, DVD-R DL (Double layer), CD-R, CD-RW and 8cm disc are not supported.

Notes on using discs
• You cannot add recordings to a disc created on a PC or other DVD device.
• The quality of commercially made recordable discs can vary. Sub-standard discs may not record normally.
• Some recorded discs cannot be played on playback devices due to the recording quality or physical condition of the disc, or the characteristics of the playback device and playback software. The disc will not play if it has not been correctly finalized.

Troubleshooting/References

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"Memory Stick"

The DVDirect supports the following types of "Memory Stick." However, proper operation is not guaranteed for all "Memory Stick" products.

"Memory Stick" type	Read
Memory Stick	○
Memory Stick (MagicGate/High-speed data transfer compatible)	○[1]
Memory Stick Duo	○
Memory Stick Duo (MagicGate/High-speed data transfer compatible)	○[1]
MagicGate Memory Stick	○[1]
MagicGate Memory Stick Duo	○[1]
Memory Stick PRO	○[1]
Memory Stick PRO Duo	○[1][2]
Memory Stick PRO-HG Duo	○[1]

[1] Reading of data that requires MagicGate functions cannot be performed with the DVDirect.

[2] Sony Memory Stick PRO Duo or Sony Memory Stick PRO-HG Duo operation is supported, up to 32 Gbytes. The memory card slot of the DVDirect does not support capacities exceeding 32 Gbytes. Even if you insert such a card into the camera's memory card slot and connect the camera to the DVDirect with the USB cable, recording will not be available (as of January 2010).

Notes on using "Memory Stick"

- If you slide the write-protect switch to LOCK with a fine-tipped object, you cannot record, edit, or delete images.

Terminal

Write enable position

Write protect position

LOCK

LOCK

Memo area
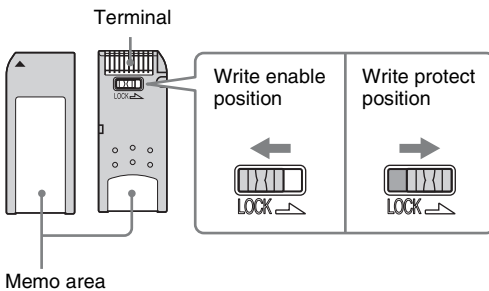
- Insert a "Memory Stick" into the Multi memory card slot, and insert a "Memory Stick Duo" into the Memory Stick Duo slot. When inserting a "Memory Stick Duo" with an adapter into the Multi memory card slot, the DVDirect may not work properly.
- Not all memory card operations are supported with card adapters.
- Use your camera to format the "Memory Stick." When formatted on a computer, "Memory Stick" may not work properly.
- The position and shape of the write-protect switch may differ depending on the "Memory Stick" you use.
- Do not remove the "Memory Stick" while recording or when the Memory card access LED is on.
- Data may be corrupted if:
  - the "Memory Stick" is removed or the DVDirect is turned off while reading data, or
  - the "Memory Stick" is used in locations subject to static electricity or electrical noise.

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SD Card/xD-Picture Card/CompactFlash

The DVDirect has slots for the following memory cards. However, not all memory card operations are supported.
- SD Memory Card[1]
- SDHC Memory Card[2]
- xD-Picture Card
- CompactFlash (Type I/Type II) and CF+Card (Type I/Type II)-compatible CompactFlash[3]

[1] SD Memory Card operation is supported up to 2 Gbytes.

[2] SDHC Memory Card operation is supported up to 32 Gbytes. The memory card slot of the DVDirect does not support capacities exceeding 32 Gbytes. Even if you insert such a card into the camera's memory card slot and connect the camera to the DVDirect with the USB cable, recording will not be available (as of January 2010).

[3] Use CompactFlash with a power specification of 3.3V or 3.3V/5V. Cards with a power specification of 3V or 5V should not be used. Inserting other types of CompactFlash into the DVDirect's card slot may cause damage.

Notes on using memory cards
- Do not use a commercial card adapter. The DVDirect may not work properly.
- Do not use a metallic card adapter as malfunction may result.
- The DVDirect does not read copyright protected data.

Troubleshooting/References

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Recording Time and Video Lengths

Time required for recording

When recording video, the length of time required for recording depends on the REC mode setting (FH, XP, HQ, SP, or LP) used to shoot the video and the number of scenes the video contains. Typically, more time is required to record videos onto a disc if the video was recorded with a higher image quality (bit rate) setting. The chart below provides a general estimate of time required to record for Sony devices.

Recording HD (High Definition) video
(Time required to copy a 1-hour video in SP mode on a disc)

Camcorder connected via a USB cable (Media other than 8cm disc)	Camcorder connected via a USB cable (8cm disc)	Memory card slot on DVDirect
approx. 15 minutes	approx. 30 minutes	approx. 30 minutes

Recording SD (Standard Definition) video
(Time required to copy a 1-hour video in SP mode on a disc)

Camcorder connected via a USB cable (Media other than 8cm disc)	Camcorder connected via a USB cable (8cm disc)	Memory card slot on DVDirect
approx. 15 minutes	approx. 30 minutes	approx. 30 minutes

ʤ **Hint**

- When a camcorder is connected to the DV IN, VIDEO IN or S VIDEO IN connector on the DVDirect, the length of time required for recording is the same as the playback time of the video.

✱ **Note**

- You cannot record HD (High Definition) video taken in REC mode at a bit rate exceeding 18Mbps, such as in [HD FX] mode (for example, High Definition Handycam®) in AVCHD format. For REC mode or bit rate, refer to the operating instructions of your camera.

Disc space (recordable time) available for recording videos

The chart below provides a general estimate of disc space (recordable time) available for recording videos onto a disc for Sony devices.

HD (High Definition) discs (AVCHD format)

The recordable video length depends on the REC mode setting on the camera.

REC mode setting used to shoot the video	DVD-R/-RW/+R/+RW
FH	approx. 30 minutes
XP	approx. 30 minutes
FS	approx. 35 minute
HQ+	approx. 40 minute
HQ	approx. 55 minutes
SP	approx. 1 hour 10 minutes
LP	approx. 1 hour 35 minutes

SD (Standard Definition) discs (USB connection or Memory card slot)

The recordable video length depends on the REC mode setting on the camera.

REC mode setting used to shoot the video	DVD-R/-RW/+R/+RW
HQ	approx. 1 hour
SP	approx. 1 hour 30 minutes
LP	approx. 3 hours

SD (Standard Definition) discs (DV IN, VIDEO IN or S VIDEO IN connector)

The recordable video length depends on the [Rec Quality] (REC mode) setting on the DVDirect (page 66).

REC mode (Rec Quality) setting on the DVDirect	DVD-R/-RW/+R/+RW
HQ	approx. 1 hour
HSP	approx. 1 hour 30 minutes
SP	approx. 2 hours
LP	approx. 3 hours

✫ Hint

- When using DVD+R DL, it takes 1.8 times longer than the above time.

♦ Note

- You cannot record HD (High Definition) video taken in REC mode at a bit rate exceeding 18Mbps, such as in [HD FX] mode (for example, High Definition Handycam®) in AVCHD format. For REC mode or bit rate, refer to the operating instructions of your camera.

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About Created Discs

The DVDirect creates a Disc Menu at the beginning of a disc recorded. The Disc Menu is displayed each time a disc is inserted into a player and available for selecting videos from dates or thumbnails.
According to the type of disc to create and device connection used for recording, titles and chapters are created in the following manner:
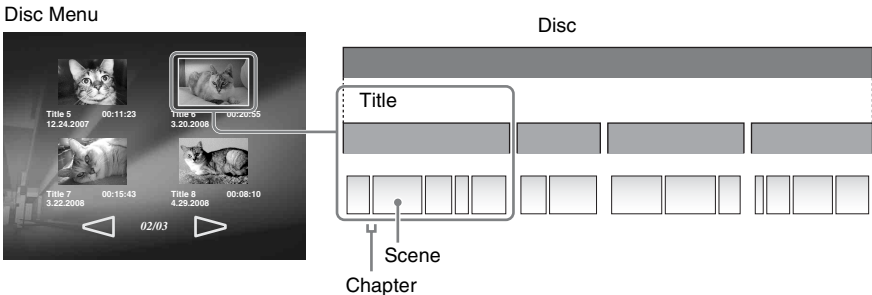
SD (Standard Definition) discs
(DV IN, VIDEO IN or S VIDEO IN connector)
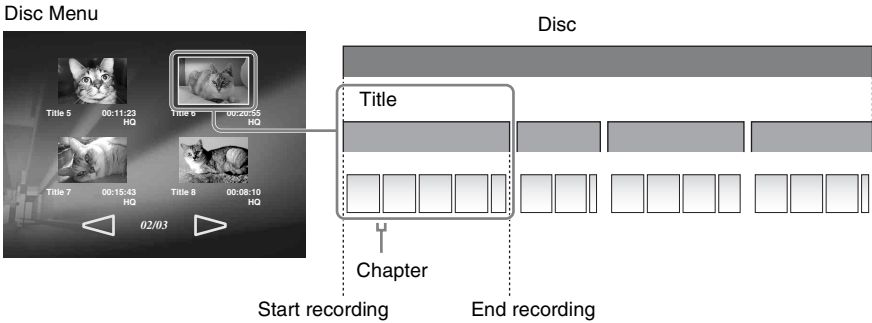
Disc Menu

The Disc Menu displays thumbnails of the titles created between the points where you start and stop recording on the DVDirect.
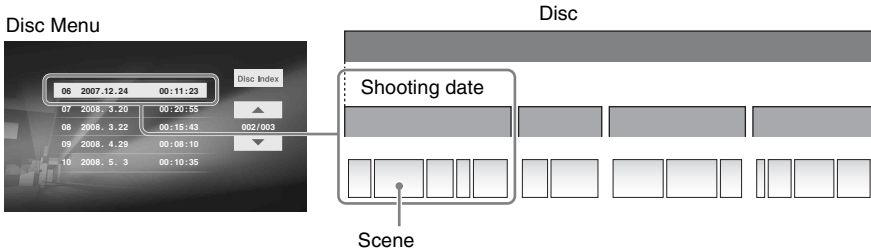For each title, chapters are automatically created according to the [Auto Chapter] setting configured in the Setup Menu (page 66).

SD (Standard Definition) discs
(USB port or Memory card slot)

Disc Menu

- The Disc Menu displays thumbnails of the titles created at points in the video where the shooting date changes.
  For each title, chapters (breakpoints of a video on the disc) are automatically created by scene between the point where you start and stop shooting on the camera.
- If you copy videos recorded in a variety of REC modes (HQ, SP, etc. setting on the camera), different aspect ratios (16:9 or 4:3 setting on a camera), or add videos to the disc, titles (even of the same shooting date) may be separated.

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HD (High Definition) discs

Disc Menu

Disc

06	2007.12.24	00:11:23
07	2008. 3.20	00:20:55
08	2008. 3.22	00:15:43
09	2008. 4.29	00:08:10
10	2008. 5. 3	00:10:35

Disc Index

002/003

Shooting date

Scene

- The Disc Menu lists the shooting dates of scenes. Each shooting date is configured by scene created between the point where you start and stop shooting on the camera.
- If you copy videos recorded in a variety of REC modes (HQ, SP, etc. setting on the camera), or add videos to the disc, titles (even of the same shooting date) may be separated.
- When an HD (High Definition) disc is played on the DVDirect, every shooting date appears on the playback screen as a title. You can select the shooting date by the remote.
- When selecting [Disc Index] in the top right of the Disc Menu, each scene is played sequentially for 10 seconds from the beginning. If a scene recorded is too long, indexes will be automatically created every 5 minutes and played for 10 seconds.

Notes

- Some players may not be able to display the Disc Menu.
- When photos and videos are recorded onto the same disc, the Disc Menu does not show thumbnails or shooting dates for photos.

Hint

- You can use factory-set images as a background image for the Disc Menu screen (page 67).

Troubleshooting/References

Precautions

Operation and storage conditions

Avoid using or storing the DVDirect in hot or humid locations, or places where it might be subject to severe vibration or direct sunlight.

Cleaning

Use a soft, dry cloth to clean the external surfaces of the DVDirect. Do not use an abrasive, disposable cloth such as paper towels, as they may damage the surface finishes.

Transportation

Please repack the DVDirect in its original carton when shipping by itself.
If the DVDirect is to be shipped, remove any disc beforehand.

Moisture condensation

Do not expose the DVDirect to sudden temperature changes. Do not use the DVDirect immediately after moving it from a cold to warm location or raising the room temperature suddenly, as condensation may have formed within the DVDirect. If the temperature changes suddenly while using the DVDirect, keep the power on, but stop using it for at least an hour.

Handling discs

- Handle discs only by the edges. Never touch the recording surface.
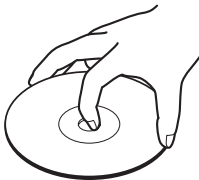
- Do not affix labels on discs.
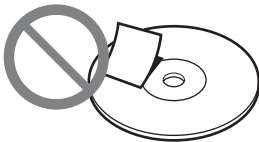
- Do not store discs in dusty or humid locations, in direct sunlight, or near heat generating devices.
- To protect important data, always keep discs in their cases.

- Clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Data may not be recorded properly if there are scratches or dust on the unrecorded area of writable discs. Handle discs very carefully.

Handling memory cards

- Do not drop, bend, or submit the memory cards to external shock.
- Do not disassemble or modify the memory cards.
- Avoid touching the terminal of a memory card or touching it with a metal object.
- Avoid getting liquids on a memory card or using them in areas subject to high humidity.
- Avoid using or storing a memory card in a location subject to:
  - extremely high temperature, such as the interior of a car, outdoors exposed to direct sunlight, or near a heater.
  - direct sunlight
  - high humidity
  - corrosive substances
  - excessive dust
  - electrostatic or electronic noises
  - magnetic fields
- When storing or carrying a memory card, keep it in its original case to ensure protection of important data.
- Avoid removing a memory card from its slot or turning off the power button while the DVDirect is accessing it, as data may be rendered unreadable.

Handling an HDMI cable

- Position the HDMI cable correctly when connecting it to the HDMI connector.
- Be sure to insert the HDMI cable until it hits the positive stop.
- When carrying the DVDirect, or if it is to be shipped, remove the HDMI cable beforehand.

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Specifications

Recording/Copying

Creatable discs

- Standard Definition (SD) disc (DVD-VIDEO format)[1]
- High Definition (HD) disc (AVCHD format)[1]
- Photodisc (JPEG files)

    [1] You can record both videos and photos onto these discs.

Recordable discs

DVD+R, DVD+RW, DVD-R, DVD-RW, DVD+R DL 12cm discs

Supported input devices (Video recording)

- Sony digital camcorder
  - HDD
  - Built-in memory
  - Memory card
  - 8cm disc
  - DV/D8 tape
- Sony digital still camera
  - Built-in memory
  - Memory card
- Other digital camcorder
  - Memory card
  - DV tape
- Video devices with video/audio outputs

Supported input devices (Photo recording)

- Sony digital camcorder
  - HDD
  - Built-in memory
  - Memory card
  - 8cm disc
- Sony digital still camera
  - Built-in memory
  - Memory card
- Other digital camcorder
  - Memory card

Supported photo format[2]

JPEG, DCF2.0 compliant

    [2] The following JPEG file is supported.
    Number of pixels: up to 8192×8192
    File size: up to 7.2 MB

Playback

Playable discs

Discs created with VRD-MC10
(Other commercial or recorded discs are not supported.)

Output

DVDirect's built-in LCD display or display devices connected to the VIDEO OUT of the DVDirect (for playback only)

Input/Output Interface

DV IN[1]

4-pin i.LINK (IEEE1394)

    [1] For DV input from DV digital video camera only. You cannot record videos from MICROMV or HDV camcorders (HDV format) and other digital video devices that have the i.LINK connector.

VIDEO IN

1 Vp-p/75 ohms

S VIDEO IN

4-pin mini-DIN
Y: 1 Vp-p/75 ohms
C: 0.286 Vp-p/75 ohms

AUDIO IN

2 Vrms (Impedance more than 47 kilohms)

USB port

Type A[2]

    [2] For Sony camera connection only.

COMPONENT OUT

Y: 1 Vp-p/75 ohms
P$_B$: 0.7 Vp-p/75 ohms
P$_R$: 0.7 Vp-p/75 ohms

VIDEO OUT

1 Vp-p/75 ohms

AUDIO OUT

2 Vrms (Load impedance more than 10 kilohms)

HDMI OUT

Type A (19-pin)

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Additional Information

Memory Card Slot

"Memory Stick Duo"
"Memory Stick"*
SD Memory Card*
xD-Picture Card*
CompactFlash
   * Multi card slot

General

Power

DC 16V (supplied from the DC IN jack)

Consumption

64W

AC adapter[*1]

Type: AC-NB16A
Input: AC 100 V - 240 V
Output: DC 16 V/4A
   [*1] Use an AC power cord appropriate for the region or
      country of use.

Size

Approx. 198 × 75 × 230 mm (W×H×D)

Weight

Approx. 1.75 kg

Operating temperature

5 ºC to 35 ºC

Design and specifications are subject to change
without notice.

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