

Monitor Control Unit

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

BKM-17R

Owner's Record

The model and serial numbers are located at the bottom. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____
Serial No. _____

Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 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.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.



WARNING

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

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

This unit has no power switch. When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the unit. If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.

WARNING

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

IMPORTANT

The nameplate is located on the bottom.

Attention-when the product is installed in Rack:

1. Prevention against overloading of branch circuit

When this product is installed in a rack and is supplied power from an outlet on the rack, please make sure that the rack does not overload the supply circuit.

2. Providing protective earth

When this product is installed in a rack and is supplied power from an outlet on the rack, please confirm that the outlet is provided with a suitable protective earth connection.

3. Internal air ambient temperature of the rack

When this product is installed in a rack, please make sure that the internal air ambient temperature of the rack is within the specified limit of this product.

4. Prevention against achieving hazardous condition due to uneven mechanical loading

When this product is installed in a rack, please make sure that the rack does not achieve hazardous condition due to uneven mechanical loading.

5. Install the equipment while taking the operating temperature of the equipment into consideration

For the operating temperature of the equipment, refer to the specifications of the Operation Manual.

6. When performing the installation, keep the following space away from walls in order to obtain proper exhaust and radiation of heat.

**Lower, Upper: 4.4 cm (1 3/4 inches) or more
Right, Left: 1.0 cm (13/32 inches) or more**

The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
No naked flame sources, such as lighted candles, should be placed on the apparatus.

WARNING: THIS WARNING IS APPLICABLE FOR USA ONLY.
If used in USA, use the UL LISTED power cord specified below.
DO NOT USE ANY OTHER POWER CORD.

| | |
|----------|---|
| Plug Cap | Parallel blade (NEMA 1-15P Configuration) |
| Cord | Type NISPT-2 or SPT-2, two 16 or 18 AWG wires |
| Length | Minimum 1.5 m (4 ft 11 in), Less than 2.5 m (8 ft 3 in) |
| Rating | Minimum 7A, 125V |

Using this unit at a voltage other than 120V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

WARNING: THIS WARNING IS APPLICABLE FOR OTHER COUNTRIES.

1. Use the approved Power Cord (2-core mains lead) / Appliance Connector / Plug that conforms to the safety regulations of each country if applicable.
2. Use the Power Cord (2-core mains lead) / Appliance Connector / Plug conforming to the proper ratings (Voltage, Ampere).

If you have questions on the use of the above Power Cord / Appliance Connector / Plug, please consult a qualified service personnel.

For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in

which case the user will be required to correct the interference at his own expense.

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

All interface cables used to connect peripherals must be shielded in order to comply with the limits for a digital device pursuant to Subpart B of part 15 of FCC Rules.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For the customers in Canada
CAN ICES-3 (A)/NMB-3(A)

For the customers in Europe
This product is intended for use in the following Electromagnetic Environment: E4 (controlled EMC environment, ex. TV studio).

This apparatus shall not be used in the residential area.

For the customers in Europe, Australia and New Zealand

WARNING
This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

For the customers in the U.S.A.

SONY LIMITED WARRANTY - Please visit <http://www.sony.com/psa/warranty> for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in Canada

SONY LIMITED WARRANTY - Please visit <http://www.sonybiz.ca/pro/lang/en/ca/article/resources-warranty> for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in Europe

Sony Professional Solutions Europe - Standard Warranty and Exceptions on Standard Warranty. Please visit <http://www.pro.sony.eu/warranty> for important information and complete terms and conditions.

For the customers in Korea

SONY LIMITED WARRANTY - Please visit <http://bping.sony.co.kr/handler/BPAS-Start> for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

ΠΡΟΕΙΔΟΠΟΙΗΣΗ

Η συσκευή δεν πρέπει να εκτίθεται σε σταγόνες ή πιτσιλιές. Αντικείμενα που περιέχουν υγρό, όπως βάζα, δεν πρέπει να τοποθετούνται επάνω σε αυτήν.

**Türkiye'deki müşteriler için
AEEE Yönetmeliğine Uygundur****WAARSCHUWING**

Het apparaat mag niet worden blootgesteld aan druppelende of opspattende vloeistoffen. Er mogen nooit objecten gevuld met vloeistoffen, zoals vazen, op het apparaat worden geplaatst.

AVISO

O equipamento não deverá ser exposto a gotas ou salpicos. Objectos contendo líquidos, tais como jarras, não devem ser colocados em cima do equipamento.

ADVARSEL

Apparatet må ikke udsættes for væskedryp eller væskesprøjt. Genstande, der indeholder væske (f.eks. vaser), må ikke anbringes på apparatet.

VAROITUS

Laite ei saa altistua tippuville tai roiskuville nesteille. Laitteen päälle ei myöskään saa asettaa nesteellä täytettyjä esineitä, kuten maljakkoja.

ADVARSEL

Apparatet skal ikke utsettes for væskedrypp eller -sprut. Ingen genstander fylt med væske, f.eks. vaser, skal settes opp på apparatet.

VARNING

Enheten får inte utsättas för dropp eller stänk. Föremål fyllda med vätska, t ex vaser, får inte placeras på enheten.

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Features

The BKM-17R is a control unit for the BVM/PVM series business & professional video monitor. Use it to power monitors on and set in sleep mode, perform menu operations, and carry out monitor setup and adjustment.

For monitors connectable to this unit and usable functions, see page 7.

Remote control function (Ethernet control)

The unit controls up to 32 monitors by the Ethernet (10BASE-T/100BASE-TX) connection. Up to three units are connected to one monitor in single mode. You can control individual monitors or monitor groups simply by entering the monitor ID number or group ID number. You can also execute the same operation on all connected monitors, or put all connected monitors into the same setup and adjustment state.

Setup and adjustment with a USB memory stick

You can use a USB memory stick (sold separately) to save and load monitor setup and adjustment data. If your system includes more than one monitor, you can use the USB memory stick to exchange data between monitors. This makes it easy to match all monitors in your system to the same setup and adjustment conditions.

Rack mounting

You can mount the unit in an EIA standard 19-inch rack with the supplied rack mount brackets and screws.

Assignable function key

Other functions are assigned to the F1 to F16 buttons in the Controller menu of the monitor.

Available Monitors and Functions

For details on how to use each function, refer to the manual of your monitor.

| Available function | Monitor | | | | |
|--|----------------------|-----------------|-----------------|---|------------------------------|
| | BVM-E251 BVM-E171 | BVM-X300 | PVM-X550 | BVM-E series except BVM-E251/ BVM-E171 BVM-F series | BVM-L series PVM-L series |
| Setup/adjustment with USB memory | ○ | × | × | ○ | ○ |
| CAPTURE | ○ | × | × | ○ | ○ |
| Function assignment to function buttons | ○ ¹⁾ | ○ ²⁾ | ○ ²⁾ | ○ | ○ |
| Aperture modification adjustment | ○ | × | × | ○ | ○ |
| Marker display mode setting | ○ | × | × | ○ | ○ |
| Menu operation | ○ | ○ | ○ | ○ | ○ |
| Monitor selection | ○ | ○ | ○ | ○ | ○ |
| Display mode setting for the display window | ○ | × | × | ○ | ○ |
| MANUAL adjustment buttons and knobs | ○ ¹⁾ | ○ | ○ | ○ | ○ |
| Picture adjustment presetting on MANUAL adjustment knobs | ○ | ○ | ○ | ○ | ○ |
| MONITOR / ⏻ | ○ | ○ | ○ | ○ | ○ |
| Scan Mode | ○ | × | × | ○ | ○ |
| Native Scan | ○ | ○ | ○ | ○ | ○ |
| 16:9 | ○ | × | × | ○ | ○ |
| H Delay | ○ | × | × | ○ | ○ |
| V Delay | ○ | × | × | ○ | ○ |
| External Sync | × | × | × | ○ | ○ |
| Comb | × | × | × | ○ | ○ |
| Char Off (Character Off) | ○ | ○ | ○ | ○ | ○ |
| Color Temp | ○ | × | × | ○ | ○ |
| Status | ○ | × | × | ○ | × |
| Aperture | ○ | ○ | ○ | ○ | ○ |
| Mono | ○ | ○ | ○ | ○ | ○ |
| Blue Only | ○ | ○ | ○ | ○ | ○ |
| R Off | ○ | ○ | ○ | ○ | ○ |
| G Off | ○ | ○ | ○ | ○ | ○ |
| B Off | ○ | ○ | ○ | ○ | ○ |
| Chroma Up | ○ | × | × | ○ | ○ |
| Interlace | ○ | ○ | × | ○ | ○ |
| Pixel Zoom | ○ | × | × | ○ | ○ |
| Capture Load | ○ | × | × | ○ | ○ |
| Marker | ○ | ○ | ○ | ○ | ○ |
| Aspect Marker | ○ | ○ | ○ | ○ | ○ |
| Area Marker 1 | ○ | ○ | ○ | ○ | ○ |
| Area Marker 2 | ○ | ○ | ○ | ○ | ○ |
| Center Marker | ○ | ○ | ○ | ○ | × |
| Aspect Marker-Line | ○ | ○ | ○ | ○ | × |

| Available function | Monitor | | | | |
|-----------------------|----------------------|----------|----------|---|------------------------------|
| | BVM-E251 BVM-E171 | BVM-X300 | PVM-X550 | BVM-E series except BVM-E251/ BVM-E171 BVM-F series | BVM-L series PVM-L series |
| Aspect Blanking-Half | ○ | ○ | ○ | ○ | × |
| Aspect Blanking-Black | ○ | ○ | ○ | ○ | × |
| Side by Side | ○ | × | × | ○ | ○ |
| Wipe | ○ | × | × | ○ | ○ ³⁾ |
| Butterfly | ○ | × | × | ○ | ○ ³⁾ |
| Blending | ○ | × | × | ○ | ○ ³⁾ |
| Error Notify Clear | ○ | × | × | ○ | ○ |
| Audio Level Meter | ○ | × | × | ○ | ○ |
| ALM Hold Reset | ○ | × | × | ○ | ○ |
| Time Code | ○ | × | × | ○ | ○ |
| Difference | × | × | × | ○ | × |
| Checkerboard | × | × | × | ○ | × |
| L/R Switch | × | × | × | ○ | × |
| Horopter Check | × | × | × | ○ | × |
| Flip H | × | × | × | ○ | × |
| Black Frame Insertion | × | × | × | × | ○ |
| Black Detail Mode | × | × | × | × | ○ |
| Flicker Free | ○ | × | × | × | × |

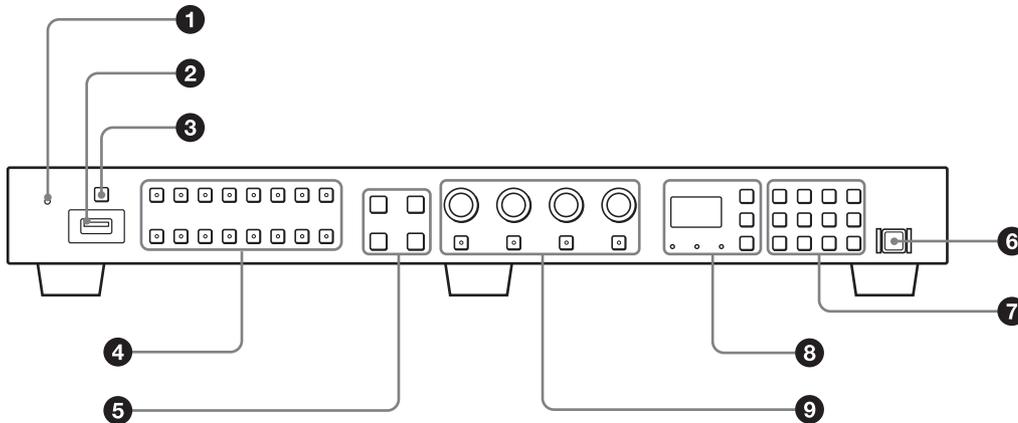
○ : available
 × : not available

- 1) Some buttons and knobs may not function, depending on the input signal. For details on limitations with each type of input signal, refer to the manual of your monitor.
- 2) The functions are assigned to the numeric keypad. For details, refer to the manual of your monitor.
- 3) Available functions vary depending on the models. For details, refer to the manual of your monitor.

Location and Function of Parts

For functions available with your monitor, see page 7.

Front Panel



1 OPERATE lamp

The lamp lights when the unit is turned on.

2 USB connector

You can use a USB memory stick (sold separately) to save and load monitor setup and adjustment data.

For inserting/ejecting the USB memory stick, see “Handling a USB memory stick” (page 13).

3 CAPTURE button

Press to capture the 3G/HD-SDI input signal as the still picture in frame.

4 Function buttons

Press to change the operation conditions for the monitor.

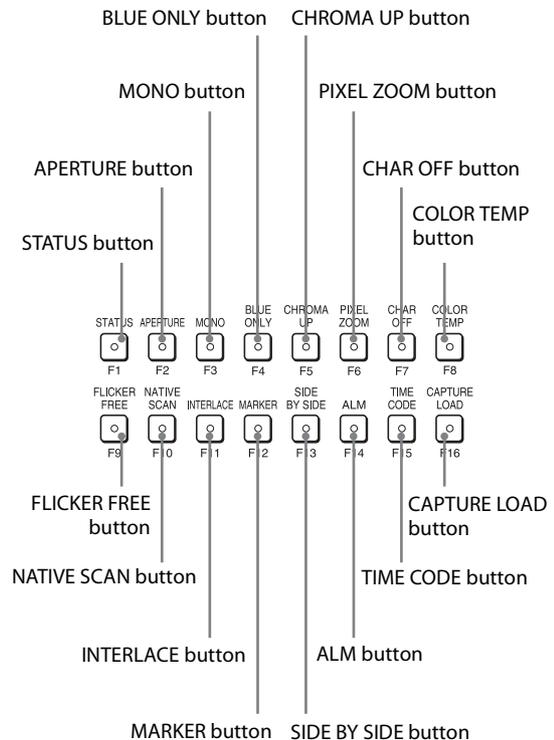
Each time the button is pressed, the LED on the button turns on and turns off, and the operation conditions are changed. (The LED may not turn on depending on the function.)

You can assign other functions to the F1 to F16 buttons.

Note

The button may not function due to the input signal. For the limitations with each type of signal, refer to the manual of your monitor.

Factory preset setting



STATUS button: Press to display the current status of the monitor.

APERTURE button: Press to modify the frequency response.

The degree of modification is set in the menu of the monitor.

MONO button: Press to display a monochrome picture.
When the button is set to off, the monitor switches automatically between color and monochrome mode, depending on the color discrimination of the input adaptor.

BLUE ONLY button: Press to cut red and green signals and display only the blue signal as a monochrome picture. This function is useful for adjusting chroma and phase, and for checking signal noise.

CHROMA UP button: Press to increase the chroma setting by 12 dB.

PIXEL ZOOM button: Press to enlarge part of the image up to 8 times using the pixel zoom function.

CHAR OFF button: Press to hide the characters from the monitor during manual adjustment.

COLOR TEMP button: Press to display the Manual Adjust menu of the color temperature on the monitor.

FLICKER FREE button: Press to change the flicker free setting.

NATIVE SCAN button: Press to display the picture in native scan mode.

INTERLACE button: Press to display interlaced picture.

MARKER button: Press to display all markers on the screen.
The marker display mode is set in the menu of the monitor.

SIDE BY SIDE button: Press to display the picture in side-by-side format.

ALM button: Press to display the audio level meter.

TIME CODE button: Press to display the time code.

CAPTURE LOAD button: Press to display the menu for loading captured images from the USB memory stick.

5 Menu operation buttons

MENU button:

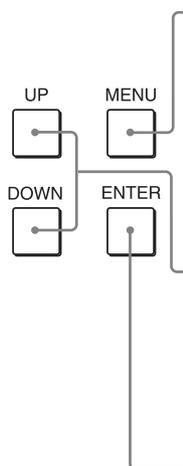
Displays the monitor menu.
Press again to clear the menu in the main menu. Each time the button is pressed in other menu, the menu returns to the upper level.

UP/DOWN buttons:

Move the cursor upward or downward. In setting mode, the setting or adjustment value is increased by pressing UP and decreased by pressing DOWN.

ENTER button:

Changes the item. In setting mode, confirms the adjustment or setting value. (Ent button on the numeric keypad has the same function.)

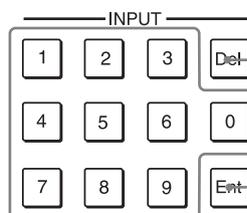


6 MONITOR | / ⏻ switch

Each time the switch is pressed, the monitor is turned on or set in sleep mode. When several monitors are connected to the unit, it is possible to turn on the power of the specified monitors only, or of all monitors at the same time or to set in sleep mode by setting with the monitor selection button.

7 Numeric keypad

Use to designate the channel number for the input signal to be monitored, or to enter the setting values with the menus.



Del button:

Deletes the entered values and characters one by one.

Numeric buttons

Ent button:

Changes the item. In setting mode, confirms the adjustment or setting value. (ENTER button of the menu operation buttons has the same function.)

Channel number entry method

When selecting a one-digit number, press the button of the channel number.

When selecting a two-digit number, first press the 0 button, then press a two-digit channel number.

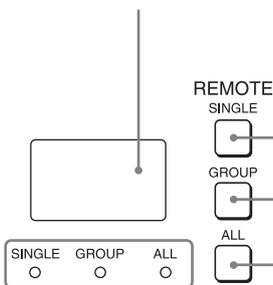
8 Monitor selection buttons and lamps

When multiple monitors are connected by the network connection, one particular monitor, monitor group or all monitors are selected by setting the monitor ID number, Group ID number or ALL.

Display mode of the display window is set in the menu of the monitor.

Display window:

Displays the selected ID number or ALL. The display flashes until the remote connection is completed. “---” is displayed when the monitor and controller are in 1 to 1 connection (PEER TO PEER mode connection).



SINGLE button:

Selects single connection mode. The designated monitor is connected remotely. The monitor ID number is displayed on all connected monitors when the button is held pressed.

GROUP button:

Selects group connection mode. The monitor of the designated group is connected remotely. The group ID number is displayed on all connected monitors when the button is held pressed.

ALL button:

Selects all connection mode. All monitors are connected remotely.

Lamps:

The lamp corresponding with the pressed button flashes and lights after recognizing the monitor.

9 MANUAL adjustment buttons and knobs

Each time one of these buttons is pressed, the LED on the button lights in green or turns off. When the corresponding button is set to on (lit), it is possible to manually adjust the contrast, brightness (black level), chroma (color saturation) and phase by turning the corresponding knobs.

When the corresponding button is set to off, the picture adjustment preset value set in the menu of the monitor is applied.

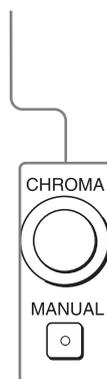
It is possible to set the preset value for each knob in the menu of the monitor.

The PHASE knob is also used to enter the setting values in the menus of the monitor.

PHASE button and knob



CHROMA button and knob



BRIGHT button and knob



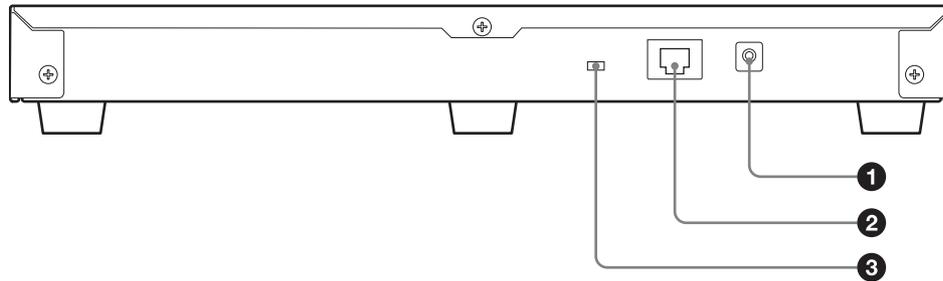
CONTRAST button and knob



Note

The button and knob may not function due to the input signal. For the limitations with each type of signal, refer to the manual of your monitor.

Rear Panel



❶ DC 12V connector

Connect to the DC 12V OUT connector of the monitor by using the supported cables.

Supported cables vary depending on the monitor.

For BVM-E251/BVM-E171

The output cable of the supplied AC adaptor, SMF-17R20, or the cable supplied with the controller attachment stand such as BKM-37H

For another monitors

The output cable of the supplied AC adaptor

❷ LAN (10/100) connector (10BASE-T/100BASE-TX)

Connect to the LAN (10/100) connector of the monitor by using the SMF-17R20 or the cable supplied with the controller attachment stand such as BKM-37H. Or connect to the network or the LAN (10/100) connector of the monitor by using a 10BASE-T/100BASE-TX LAN cable (shielded-type, optional).

CAUTION

- For safety, do not connect the connector for peripheral device wiring that might have excessive voltage to this port. Follow the instructions for this port.
- When you connect the LAN cable of the unit to peripheral device, use a shielded-type cable to prevent malfunction due to radiation noise.
- To connect the unit to the LAN (10/100) connector of the monitor in 1 to 1 connection (NETWORK switch is set to PEER TO PEER), use a straight (shielded-type) cable.
- The connection speed may be affected by the network system.

❸ NETWORK switch

LAN: To connect to the network.

PEER TO PEER: To connect to the LAN (10/100) connector of the monitor in 1 to 1 connection.

Handling a USB memory stick

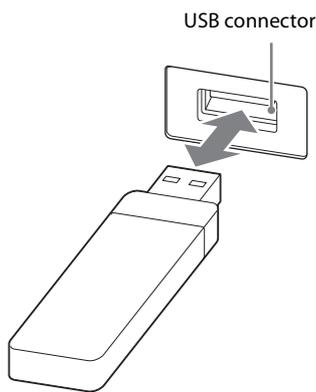
This product has a USB connector. Proceed as illustrated to insert and eject a USB memory stick (sold separately).

See each menu on the monitor for information about operations using data from the USB memory stick.

Note

Do not eject the USB memory stick while data is being saved or loaded.

To insert and eject the USB memory stick



Notes

- Make sure to insert the USB memory stick into the USB connector in the correct direction.
- When ejecting the USB memory stick, make sure that the unit is not accessing the USB memory stick.

Notes on USB memory sticks

The USB 3.0 memory sticks up to 8 GB have been tested with this product.

Note

This does not guarantee complete support of all USB memory sticks.

Note on data read/write speed

Data read/write speed may vary depending on the combination of the USB memory stick and the product that you use.

Notes

- Image data may be damaged in the following cases:

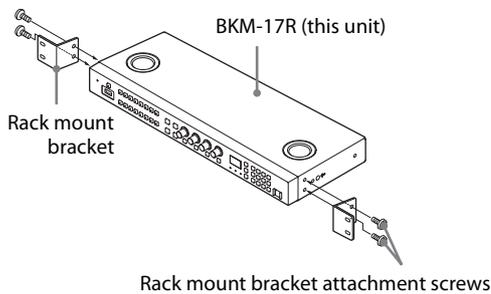
- If you eject the USB memory stick, or turn the unit off while accessing the data
- If you use a USB memory stick near static electricity or a magnetic field
- We recommend backing up important data.
- Do not touch the connector of the USB memory stick with anything, including your finger or metallic objects.
- Do not strike, bend, or drop the USB memory stick.
- Do not disassemble or modify the USB memory stick.
- Do not allow the USB memory stick to get wet.
- Do not use or store the USB memory stick in a location that is:
 - Extremely hot, such as in a car parked in the sun
 - Under direct sunlight
 - Very humid or subject to corrosive substances
- The USB connector of this unit is compatible with USB memory sticks. Do not insert other devices than USB memory sticks, such as USB conversion adaptors.
- You cannot use any other devices than USB memory sticks with the USB connector of this unit, such as USB hubs.
- Do not insert multiple USB memory sticks at the same time. This may cause damage to the product.
- When you use a USB memory stick with this product, be sure to insert it in the right direction. Inserting it in the wrong direction may cause damages to the product.
- The USB memory stick should be kept away from small children to prevent them from accidentally swallowing it.
- The USB memory stick must be formatted with the FAT32 file system. If you insert the USB memory stick which has been formatted with another file system, a format error occurs and the USB memory stick is not usable for this unit.

It is against the copyright law to use any audio or picture you recorded without prior consent of the copyright holder. Accordingly, USB memory sticks with content protected image or data can be only used within the law.

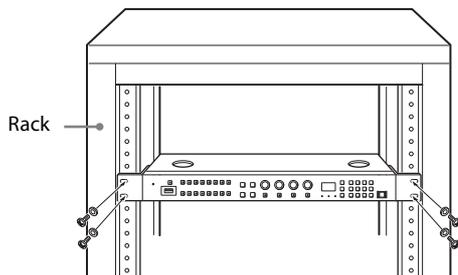
Mounting the Unit in a Rack

To mount the unit in an EIA standard 19-inch rack, use the supplied rack mount brackets and screws.

- 1 Remove the five feet from the bottom of the unit.
- 2 Attach the rack mount brackets to each side of the unit with the rack mount bracket attachment screws.



- 3 Screw the rack mount brackets to the rack to mount the unit. (Use the commercially available screws that match the size of the rack's holes.)

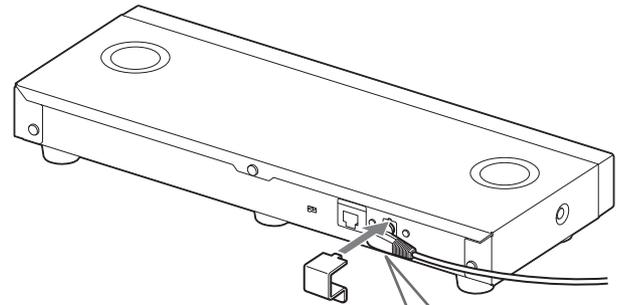


Connections

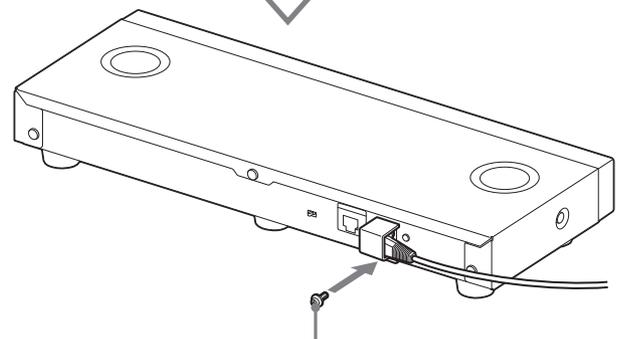
The illustrations of the monitor used in this manual are BVM-E251.

Note on connecting the cable to the DC 12V connector

Firmly connect the supplied DC-cord secure connection attachment, and secure it using the supplied screw to prevent cable disconnection.



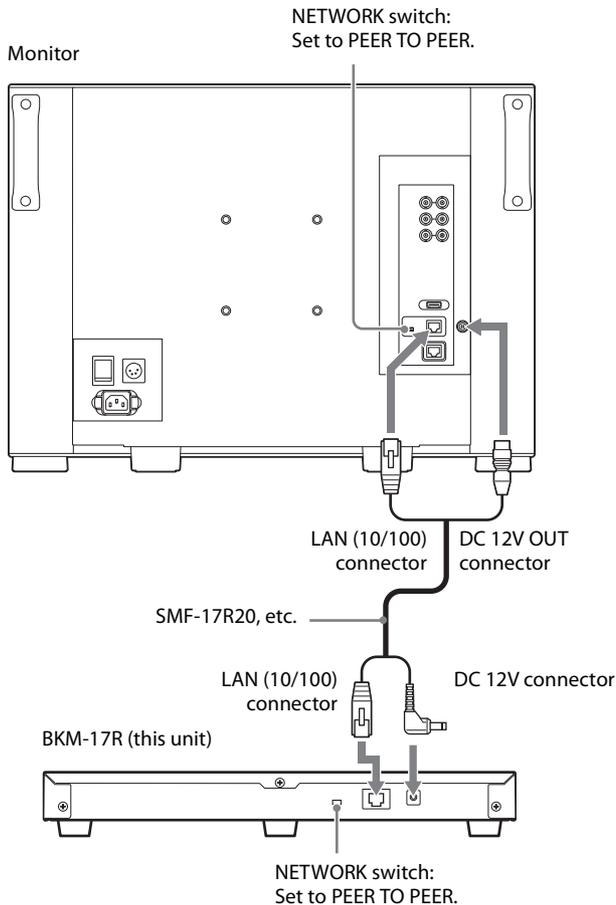
After connecting the cable to the DC 12V connector, set the attachment to the unit. (Be sure to set the attachment so that the hole of the attachment is aligned to the screw fastening position of the unit.)



Note

Do not use a screw other than the one supplied, as doing so may damage the interior of the unit.

Connecting One Monitor



- 1 Turn off the power switch of the monitor before connecting the unit.
- 2 Set the NETWORK switch of the monitor and the unit to PEER TO PEER.
- 3 Connect the LAN (10/100) connector of the monitor and the LAN (10/100) connector of the unit by using the SMF-17R20 or the cable supplied with the controller attachment stand such as BKM-37H, or a 10BASE-T/100BASE-TX straight LAN cable (shielded-type, optional).

Note

When an optional LAN cable is connected, use a shielded-type cable to prevent a malfunction due to noises.

- 4 Connect the DC 12V OUT connector of the monitor and the DC 12V connector of the unit by using the SMF-17R20 or the cable supplied with the controller attachment stand such as BKM-37H. Or connect the output cable of the AC adaptor

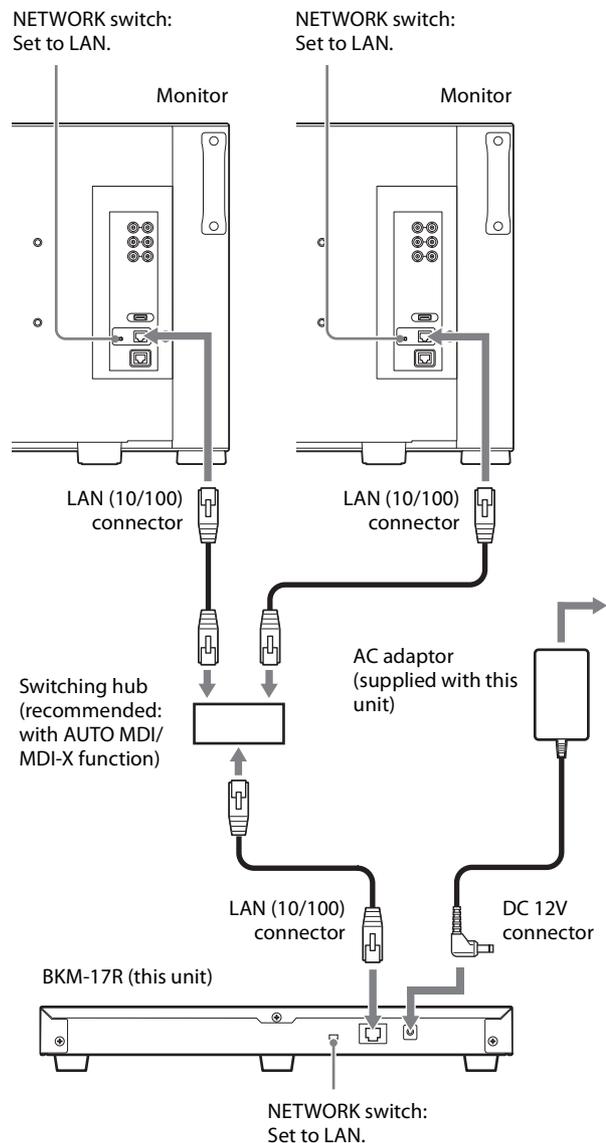
supplied with the unit to the DC 12V connector of the unit.

Connecting the Multiple Units with the LAN

The unit controls up to 32 monitors. Up to three units are connected to one monitor in single mode.

Note

The unit cannot control monitors in another subnetwork.



- 1 Turn off the power switch of the monitor before connecting the units.
- 2 Connect to the network by using a 10BASE-T/100BASE-TX cable (shielded-type, optional).

Notes

- When an optional LAN cable is connected, use a shielded-type cable to prevent a malfunction due to noises.
- We recommend to use an optional switching hub with auto selection function (AUTO MDI/MDI-X) of a straight/cross cable.
When the switching hub without auto selection function is used, connect the monitor and switching hub with the straight cable, and the unit and switching hub with the cross cable.

- 3** Connect the output cable on the AC adaptor supplied with the unit to the DC 12V connector of the unit.

Note

When the multiple units are connected, set for the LAN in the menu of the monitor before setting the NETWORK switch to LAN.

- 4** Set the NETWORK switches of each monitor and the unit to LAN.

Note

For connection, also refer to the manual of the connected monitor.

Specifications

Input/Output

| | |
|-------------------------------------|--------------------|
| LAN (10BASE-T/100BASE-TX) connector | RJ-45 × 1 |
| DC 12V | Circle pin × 1 |
| USB (USB2.0) connector | USB Standard A × 1 |

General

Power requirements

| |
|--|
| BKM-17R |
| DC IN: 12 V, 0.5 A (supplied with the connected monitor or the connected AC adapter) |
| AC adapter (For the model name, see the plate on the AC adapter.) |
| AC IN: 100 - 240 V, 50 - 60 Hz |
| DC OUT: 12 V, 3 A |

Current consumption

12 V DC, 0.5 A

Power consumption

Approx. 6 W

Operating temperature

0 °C to 35 °C (32 °F to 95 °F)
Recommended: 20 °C to 30 °C (68 °F to 86 °F)

Operating humidity

0% to 90% (no condensation)

Storage/transport temperature

- 10°C to + 40°C (14°F to 104°F)

Storage/transport humidity

0% to 90%

Operating/storage/transport pressure

700 hPa to 1060 hPa

Mass

Approx. 2.1 kg (4 lb 10 oz)

Supplied accessories

| |
|---|
| AC adapter (For the model name, see the plate on the AC adapter.) (1) |
| AC power cord (1) |
| Rack mount brackets (2) |
| Rack mount bracket attachment screws (4) |
| Function labels (2) |
| DC-cord secure connection attachment (1) |
| DC-cord secure connection screw (1) |
| Before Using This Unit (1) |
| CD-ROM (1) |
| European Representative (1) |

Design and specifications are subject to change without notice.

Notes

- Always make a test recording, and verify that it was recorded successfully.
SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF FAILURE OF THIS UNIT OR ITS RECORDING MEDIA, EXTERNAL STORAGE SYSTEMS OR ANY OTHER MEDIA OR STORAGE SYSTEMS TO RECORD CONTENT OF ANY TYPE.
- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
- SONY WILL NOT BE LIABLE FOR CLAIMS OF ANY KIND MADE BY USERS OF THIS UNIT OR MADE BY THIRD PARTIES.
- SONY WILL NOT BE LIABLE FOR THE LOSS, REPAIR, OR REPRODUCTION OF ANY DATA RECORDED ON THE INTERNAL STORAGE SYSTEM, RECORDING MEDIA, EXTERNAL STORAGE SYSTEMS OR ANY OTHER MEDIA OR STORAGE SYSTEMS.
- SONY WILL NOT BE LIABLE FOR THE TERMINATION OR DISCONTINUATION OF ANY SERVICES RELATED TO THIS UNIT THAT MAY RESULT DUE TO CIRCUMSTANCES OF ANY KIND.

Depending on the operating environment, unauthorized third parties on the network may be able to access the unit. When connecting the unit to the network, be sure to confirm that the network is protected securely.

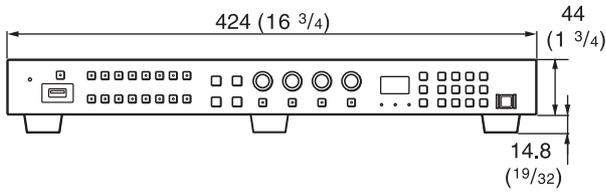
If the unit is suddenly taken from a cold to a warm location, or if ambient temperature suddenly rises, moisture may form on the outer surface of the unit and/or inside of the unit. This is known as condensation. If condensation occurs, turn off the unit and wait until the condensation clears before operating the unit. Operating the unit while condensation is present may damage the unit.

SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND RESULTING FROM A FAILURE TO IMPLEMENT PROPER SECURITY MEASURES ON TRANSMISSION DEVICES, UNAVOIDABLE DATA LEAKS RESULTING FROM TRANSMISSION SPECIFICATIONS, OR SECURITY PROBLEMS OF ANY KIND.

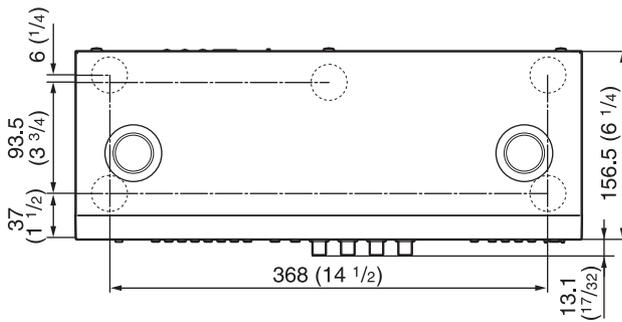
Dimensions

Unit: mm (inches)

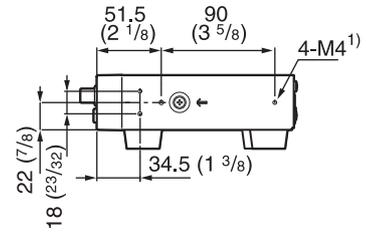
Front



Top



Side



- 1) When using this hole, use a screw which can be inserted into the unit to a depth of 6 to 9 mm ($\frac{1}{4}$ to $\frac{3}{8}$ inches).

