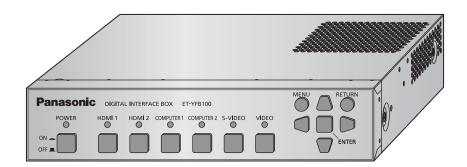
# **Panasonic** \*\*

# **Operating Instructions Functional Manual**

Digital Interface Box | Commercial Use

ET-YFB100G Model No.



Thank you for purchasing this Panasonic product.

- This manual is intended for products manufactured from May 2013 and beyond.
- Before operating this product, please read the instructions carefully and save this manual for future use.
- Before using this product, be sure to read "Read this first!" (→ pages 3 to 8).



### **■** Trademarks

- Trademark PJLink is a trademark applied for trademark rights in Japan, the United States of America and other countries and areas.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
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- Other names, company names or product names used in these operating instructions are the trademarks or registered trademarks of their respective holders.
   Please note that the operating instructions do not include the ® and TM symbols.

### Illustrations in these operating instructions

• Note that illustrations of the digital interface box and screens may differ from the ones you actually see.

### ■ Page references

In these instructions, references to pages are indicated as: (→ page 00).

### **■** Term

- In these instructions, the "Wireless remote control unit" supplied with the projector is referred to as the "Remote control".
- In these instructions, the "EIA standard rack" is referred to as the "Rack".

## Read this first!

**WARNING:** THIS APPARATUS MUST BE EARTHED.

#### WARNING:

- 1. Remove the plug from the mains socket when this unit is not in use for a prolonged period of time.
- 2. To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- 3. Do not remove the earthing pin on the mains plug. This apparatus is equipped with a three prong earthingtype mains plug. This plug will only fit an earthing-type mains socket. This is a safety feature. If you are unable to insert the plug into the mains socket, contact an electrician. Do not defeat the purpose of the earthing plug.

### **WARNING:**

This equipment is compliant with Class A of CISPR32.

In a residential environment this equipment may cause radio interference.

### **CAUTION:**

To assure continued compliance, follow the attached installation instructions, which include using the provided power cord and shielded interface cables when connecting to computer or peripheral device. If you use serial port to connect PC for external control of projector, you must use a commercial RS-232C serial interface cable with ferrite core. Any unauthorized changes or modifications to this equipment will void the user's authority to operate.

### **WARNING:**

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

### Power Supply:

This equipment is designed to operate on 100 V - 240 V, 50 Hz/60 Hz AC, house current only.

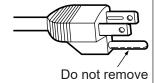
### **CAUTION:**

The AC power cord (for USA) which is supplied with the equipment as an accessory can only be used for power supplies up to 125 V. If you need to use higher voltages than this, you will need to obtain a separate 250 V power cord. If you use the accessory cord in such situations, fire may result.

### **CAUTION (USA and Canada)**

### **CAUTION:**

This equipment is equipped with a three-pin grounding-type power plug. Do not remove the grounding pin on the power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.



### **WARNING (USA and Canada)**

- Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.
- For permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring.
- For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

### **NOTIFICATION (Canada)**

This class B digital apparatus complies with Canadian ICES-003.

### Read this first!

### FCC NOTICE (USA)

**Supplier's Declaration of Conformity** 

Model Number: ET-YFB100G Trade Name: Panasonic

Responsible Party: Panasonic Corporation of North America
Address: Two Riverfront Plaza, Newark, NJ 07102-5490

General Contact: http://www.panasonic.com/support Projector Contact: https://panasonic.net/cns/projector/ 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.

To assure continued compliance, follow the attached installation instructions and do not make any unauthorized modifications.

#### Caution:

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.

### FCC Warning:

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer and/or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

### IMPORTANT: THE MOULDED PLUG (U.K. only)

### FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 13 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark ♠ or the BSI mark ♥ on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover, the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from an Authorised Service Center.

If the fitted moulded plug is unsuitable for the mains socket in your home, then the fuse should be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

**WARNING:** THIS APPLIANCE MUST BE EARTHED.

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

Green - and - Yellow: Earth
Blue: Neutral
Brown: Live

As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured GREEN - AND - YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  $\frac{1}{2}$  or coloured GREEN or GREEN - AND - YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse.



### Manufactured by:

Panasonic Connect Co., Ltd.

4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

Importer:

Panasonic Connect Europe GmbH

Authorized Representative in EU:

Panasonic Testing Centre

Winsbergring 15, 22525 Hamburg, Germany

Importer for UK;

Panasonic Connect UK,

a branch of Panasonic Connect Europe GmbH,

Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT



## Read this first!

### **WARNING:**

### POWER

The wall outlet or the circuit breaker shall be installed near the equipment and shall be easily accessible when problems occur. If the following problems occur, cut off the power supply immediately.

Continued use of the device in these conditions will result in fire or electric shock.

- If foreign objects or water get inside the device, cut off the power supply.
- If the device is dropped and the AC adaptor is damaged, cut off the power supply.
- If you notice smoke, strange smells or noise coming from the device, or notice the device is overheating, cut off the power supply.

Please contact an Authorized Service Center for repairs, and do not attempt to repair the device yourself.

During a thunderstorm, do not touch the device, power cord, power plug, power connector or AC adaptor.

Failure to observe this will result in electric shocks.

Do not do anything that might damage the power cord, power plug, power connector or AC adaptor. If the power cord is used while damaged, electric shocks, short-circuits or fire will result.

• Do not damage the power cord, make any modifications to it, place it near any hot objects, bend it excessively, twist it, pull it, place heavy objects on top of it or wrap it into a bundle.

Ask an Authorized Service Center to carry out any repairs to the power cord or AC adaptor that might be necessary.

Completely insert the power plug into the wall outlet, the power connector into the AC adaptor terminal, and the AC adaptor plug into the device terminal.

If the plug is not inserted correctly, electric shocks or overheating will result.

• Do not use plugs which are damaged or wall outlets which are coming loose from the wall.

### Do not use anything other than the provided AC adaptor or power cord.

Please note that not using the provided power cord or AC adaptor may result in fire or electric shocks caused by a short circuit or overheating.

### Clean the power plug regularly to prevent it from becoming covered in dust.

Failure to observe this will cause a fire. If dust builds up on the power plug, the resulting humidity can damage the insulation.

- Pull the power plug out from the wall outlet and wipe it with a dry cloth regularly.
- When not using the device for an extended period of time, disconnect the power plug from the wall outlet.

Do not handle the power cord, power plug, power connector or AC adaptor with wet hands.

Failure to observe this will result in electric shocks.

### Do not overload the wall outlet.

If the power supply is overloaded (ex., by using too many adaptors), overheating may occur and fire will result.

### **WARNING:**

### ON USE/INSTALLATION

Do not place the device on soft materials such as carpets or sponge mats.

Doing so will cause the device to overheat, which can cause burns, fire or damage to the device.

Do not set up the device in humid or dusty places or in places where the device may come into contact with oily smoke or steam, ex. a bathroom.

Using the device under such conditions will result in fire or electrical shock.

### Do not block the exhaust ports or cover them with cloth, paper, etc.

Doing so will cause the device to overheat, which can cause fire or damage to the device.

• Set the device in a location where the top and side exhaust ports will not be blocked.

### Do not handle the device for extended lengths of time.

Parts of the device and/or AC adaptor may become hot and cause low temperature burns\* if handled for an extended length of time.

\* Persons who suffer from blood complications (such as vascular diseases, diabetes, poor/restricted circulation) or with poor skin sensitivity (the elderly) are especially susceptible to low temperature burns.

### Never attempt to remodel or disassemble the device.

High voltages can cause fire or electric shocks.

• For any inspection, adjustment and repair work, please contact an Authorized Service Center.

## Do not allow metal objects, flammable objects, or liquids to enter inside of the device. Do not allow the device to get wet.

Doing so may cause short circuits or overheating, and result in fire, electric shock, or malfunction of the device.

- Do not place containers of liquid or metal objects near the device.
- If liquid enters inside of the device, consult your dealer.
- Particular attention must be paid to children.

### **■** ACCESSORIES

### Do not use the supplied power cord or AC adaptor with other devices.

Using the supplied power cord or AC adaptor with other devices may cause short circuits or overheating, and result in electric shock or fire.

### Only use the provided AC adaptor and power cord when using this device.

Using an AC adaptor or power cord other than those provided may result in fire.

Keep accessories (flat-head Phillips screws, set legs, set leg screws, mounting bracket for securing AC adaptor, mounting bracket screw for securing AC adaptor) out of the reach of small children. Accidentally swallowing them can cause physical harm.

• If you believe that parts have been swallowed, seek medical advice immediately.

### Read this first!

### **CAUTION:**

### POWER

When disconnecting the power cord, be sure to hold the power plug and power connector.

If the power cord itself is pulled, the lead will become damaged, and fire, short-circuits or serious electric shocks will result.

When not using the device for an extended period of time, disconnect the power plug from the wall outlet.

Failure to do so may result in fire or electric shock.

Disconnect the power plug from the wall outlet before carrying out any cleaning of the device.

Failure to do so may result in electric shock.

### ON USE/INSTALLATION

### Do not place heavy objects on top of the device.

Failure to observe this will cause the device to become unbalanced and fall, which could result in damage or injury. The device will be damaged or deformed.

### Do not put your weight on this device.

You could fall or the device could break, and injury will result.

• Be especially careful not to let young children stand or sit on the device.

Do not install this device in a place which is not strong enough to take its full weight or on top of a surface which is sloped or unstable.

Failure to observe this will cause the device to fall down or tip over the device, and severe injury or damage could result.

If installing the device to the underside of a table, be careful to choose a location where it will not be susceptible to impact from legs, etc.

Mount screws being loosened may cause the device to fall down, which will lead to damage to or deformation of the device.

Securely tighten the screws.

### Do not place the device in extremely hot locations.

Doing so will cause the outer casing or internal components to deteriorate, or result in fire.

• Take particular care in locations exposed to direct sunlight or near stoves.

### Always disconnect all cables before moving the device.

Moving the device with cables still attached can damage the cables, which will cause fire or electric shocks to occur.

### **■** ACCESSORIES

### Do not subject the AC adaptor to strong impact.

The adaptor being dropped, or suffering any other strong impact may cause a short circuit, fire or electric shock.

Ask an Authorized Service Center to carry out repairs to the AC adaptor.

## Features of this product

# Easy setup and improved serviceability

- ▶ Outputs the image, sound, ethernet, and serial control signals digitally by using one cable with CAT5e or higher grade to the projector\*1 at a distance up to 100 m (328'11").
- \*1: Supported only when the interface box is connected to a DIGITAL LINK compatible projector.
- ▶ The light-weight and compact-size body is achieved that can be easily attached to the rack or the underside of the tabletop of the meeting desk.

## **User-friendly interface**

- ▶ Both the projector and the interface box can be operated by using the remote control of the projector\*1. Even the interface box is installed at a separate place from the viewing location, switching the input signal and adjusting the image are possible.
- \*1: Supported only when the interface box is connected to a DIGITAL LINK compatible projector.

# Improvement of the connectivity

Analog inputs as well as the HDMI terminal are converted and output digitally. Therefore, transfer is possible without dropping the picture quality.

## **Quick Steps**

For details, refer to the corresponding pages.

- 1. Set up the interface box.
  - (**⇒** page 15)



- 2. Connect the interface box and the projector.
  - (**⇒** page 18)



- 3. Connect with other devices.
  - (**⇒** page 18)



- 4. Connect the AC adaptor.
  - (**⇒** page 23)



- 5. Switch on the interface box.
  - (**⇒** page 24)



- 6. Select the input signal.
  - (**⇒** page 25)

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## Precautions for use

## Cautions when transporting

When transporting the interface box, avoid excessive vibration and impacts. Doing so may damage the internal
parts and result in malfunctions.

## **Cautions when installing**

Do not set up the interface box outdoors.

The interface box is designed for indoor use only.

- Do not set up the interface box in the following locations.
  - Places where vibration and impacts occur such as in a car or vehicle: Doing so may cause damage to internal parts or malfunction.
  - Near lights (studio lamps, etc.) and other locations of great temperature fluctuation ("Operating environment" (→ page 51)): doing so may result in malfunctions.
  - Near high-voltage power lines or near motors: Doing so may interfere with the operation of the interface hox
- Always install the interface box with the bottom side down.
  - Doing so may shorten the life of the internal parts and result in malfunctions.
- Do not install the device at elevations of 2 700 m (8 858') or higher above sea level.

Doing so may shorten the life of the components and result in malfunctions.

- When installing the interface box at a place, where electric statistic occurs often, take a sufficient anti-static measure before start using.
  - When the interface box is used at a location, where static electricity occurs often, such as on a carpet, communications of the DIGITAL LINK and the wired LAN are disconnected more often.
     In that case, remove static electricity and the noise source that may cause problems with an antistatic mat, and re-connect the DIGITAL LINK and the wired LAN.
  - In rare cases, the LAN connection is disabled due to static electricity or noise.
     In that case, turn off the power of the interface box and the connected devices once and then re-turn on the power. Connect the DIGITAL LINK and the LAN.
- The interface box may not work properly due to strong radiowave from the broadcast station or the radio.
  - If there is any facility or equipment, which outputs strong radiowave, near the installation location, install
    the interface box at a location sufficiently far from the source of the radiowave. Or, wrap the LAN cable
    connected to the <DIGITAL LINK> terminal by using a piece of metal foil or a metal pipe, of which is
    grounded at both ends.

## Disposal

To dispose of the product, ask your local authorities or dealer for correct methods of disposal.

## **Precautions for use**

## **Accessories**

Make sure that the following accessories are provided with your interface box. Numbers enclosed in < > show the number of accessories.

AC adaptor <1> (CF-AA6373A or CF-AA6413A)	Power cord <1> (For USA) (K2CG3YY00152)	Power cord <1> (For Europe) (K2CM3YY00034)
Emmand of the second of the se		
Power cord <1> (For U.K.) (K2CT3YY00066)	CD-ROM <1> (TXFQB02VLC3)	Rack/table underside mounting bracket <2> (TKZX5277)
Rack mounting bracket <1>	Flat-head Phillips screw <6>	Set leg <4>
(TKZX5278-1)	(XSS3+8FJK)	(TBLX3014)
(TKZX5278-1)	(XSS3+8FJK)	(TBLX3014)
Set leg screw <4>, Mounting bracket screw for securing AC adaptor <1> (XSB3+6FJK)	Mounting bracket for securing AC adaptor <1> (TENC5824)	(TBLX3014)

### Attention

- After unpacking the interface box, discard the power cord cap and packaging material properly.
- For missing accessories, consult your dealer.
- Store small parts in an appropriate manner, and keep them away from small children.

### Note

• The model numbers of accessories and optional accessories are subject to change without notice.

## ■ Contents of the supplied CD-ROM

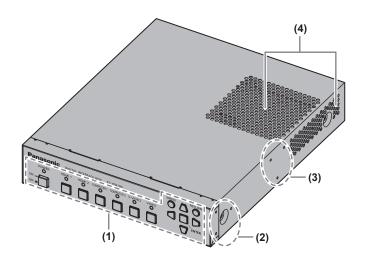
The contents of the supplied CD-ROM are as follows.

Instruction (PDF)	
Operating Instructions - Functional Manual	

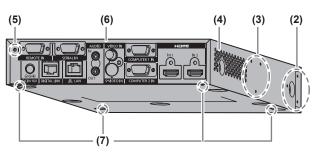
# About your interface box

## Main body

### Front and lateral sides



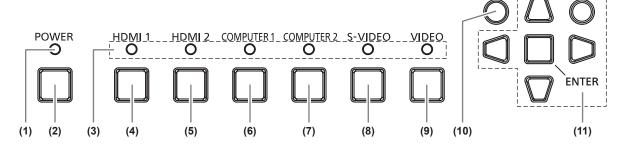
### Rear and bottom sides



- (1) Control panel (→ page 13)
- (2) Rack mount screw hole Screw holes for the fixing bracket that is used to mount the interface box to the rack.
- (3) Table underside mount screw hole Screw holes for the fixing bracket that is used to mount the interface box to the underside of the table.
- (4) Exhaust port

- (5) Mounting bracket screw hole for securing AC adaptor (→ page 23)
- (6) Connecting terminals (⇒ page 14)
- (7) Set leg screw hole Screw holes for fixing the set legs that are used for mounting the interface box on the desk.

## **■** Control panel



(1) Power indicator

Turns to green when the power is on. Lights off when the power is turned off.

- (2) <POWER> button
  Turns on/off the power.
- (3) Input terminal indicator
  Turns to green when it is selected.
- (4) <HDMI 1> button Switches the input to HDMI 1.
- (5) <HDMI 2> button Switches the input to HDMI 2.

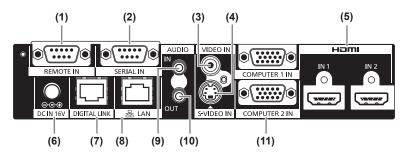
- (6) <COMPUTER 1> button
  Switches the input to the computer 1.
- (7) <COMPUTER 2> button Switches the input to the computer 2.
- (8) <S-VIDEO> button Switches to S-VIDEO input.
- (9) <VIDEO> button Switches to VIDEO input.
- (10) <MENU> button
  Displays the main menu.
- (11) ▲▼◀ ▶ selection button/<RETURN> button/<ENTER> button

Used to operate the menu screen.

RETURN

## About your interface box

### Connecting terminals



### (1) <REMOTE IN> terminal

Terminal to remotely operate the interface box via the external control circuit.

### (2) <SERIAL IN> terminal

The RS-232C compatible terminal used for the external control.

The projector connected by the DIGITAL LINK can be externally controlled. Controlling the interface box is disabled

### (3) <VIDEO IN> terminal

This is a terminal to input video signals.

#### (4) <S-VIDEO IN> terminal

This is a terminal to input S-video signals.

### (5) <HDMI IN 1>/ <HDMI IN 2> terminal

This is a terminal to input HDMI signals.

### (6) <DC IN> terminal

Connects the supplied AC adaptor.

### (7) <DIGITAL LINK> terminal

Connects to the DIGITAL LINK\*¹ compatible projector or the preferred twisted-pair-cable receiver by using the cable of CAT5e or the higher grade (▶ page 21).

\*1: DIGITAL LINK is the technique that transfers the image, sound, ethernet, and serial control signals via the twisted-pair-cable. The interface box can be connected to the projector compatible to DIGITAL LINK or the twisted-pair-cable receiver. For twistedpair-cable receivers of other manufacturers of which the operation has been verified with the DIGITAL LINK compatible projector and the digital interface box refer to website (https://panasonic.net/cns/projector/). Note that verification for the devices of other manufacturers has been made for the items determined independently by Panasonic Connect Co., Ltd., and not all operations have been verified. For operation or performance problems caused by the devices of other manufacturers, contact the respective manufacturers.

### (8) <LAN> terminal

Terminal to connect to the network.

The projector connected by the DIGITAL LINK can be controlled from the computer connected to this terminal.

### (9) <AUDIO IN> terminal

Terminal to input the sound signals.

### (10) < AUDIO OUT > terminal

Terminal to output the sound signal that is input to the interface box.

### (11) < COMPUTER 1 IN>/ < COMPUTER 2 IN> terminal

Terminal to input the RGB signal from the computer or the  $YC_BC_R/YP_BP_R$  signals.

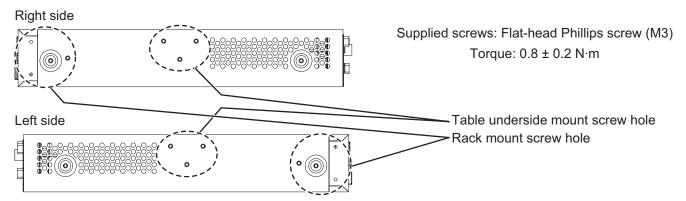
### Attention

• Wire the LAN cable, which is directly connected to the interface box, only indoors.

# Setting up

## Cautions when setting up the interface box

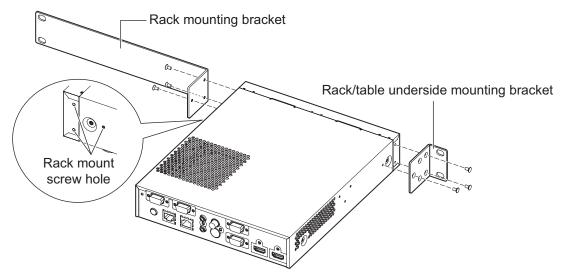
- When mounting the interface box to a rack or a table underside, use the supplied rack/table underside mounting bracket or the rack mounting bracket.
- Use a torque screwdriver or torque wrench to tighten bolts to their specified tightening torques. Do not use tools such as electric screwdrivers or impact screwdrivers. Tightening screws with over their specified tightening torques will damage mount screw holes, failing to mount the interface box using brackets.



## Mounting on the rack

### 1) Attach the supplied rack mounting bracket.

• Fix the rack mounting bracket to the rack mount screw holes on both sides of the interface box with supplied flat-head Phillips screws (3 pcs). Securely tighten the screws.



### 2) Attach the supplied rack/table underside mounting bracket.

• Fix the rack mounting bracket to the rack mount screw holes on the both sides of the interface box with supplied flat-head Phillips screws (3 pcs).

## Setting up

### 3) Fix to the rack by using the commercially available screws\*1 (4 pcs).

\*1: Use M5 or M6 screws for EIA standard rack.

Securely tighten the screws.

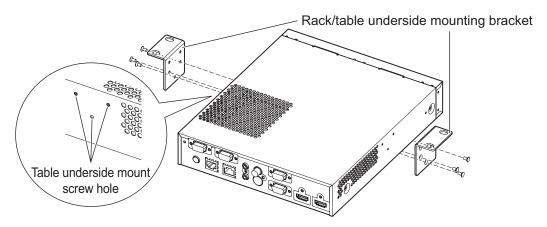
### Attention

- During attachment, be careful that the interface box does not slip.
- Be sure to fix the cables connected to the connecting terminals and the supplied AC adaptor nearby such as the supports of the rack to avoid the cable and AC adaptor weights directly applied to the interface box.
- Be sure that the temperature inside of the rack, of which the interface box is mounted, does not exceed 40°C (104°F).
- When mounting the interface box on the rack, leave 1 U (44.45 mm, 1.75") space at the upper side of the interface box and be careful not to cover exhaust ports.

## Mounting to the underside of the tabletop of the desk

### Mount the supplied rack/table underside mounting bracket to the interface box (on the left and right).

- Mount the bracket to the table underside mount screw holes at the lateral side of the interface box with the supplied flat-head Phillips screws (3 pcs, each).
- Be sure to tighten at the specified torque.



### 2) Attach the AC adaptor and a mounting bracket for securing AC adaptor.

- For the attachment procedures, refer to "Connecting the AC adaptor" (→ page 23).
- If the mounting bracket for securing AC adaptor is attached after the interface box is attached to the table underside, excessive force may be applied to the mounting section on the table underside, which may cause damage of the table or deformation of the interface box.

# 3) Fix to the underside of the tabletop by using the commercially available screws or wood screws (4 pcs).

- Check that the tabletop is strong enough to bear the weight of the interface box.
- Securely tighten the screws and the wood screws.

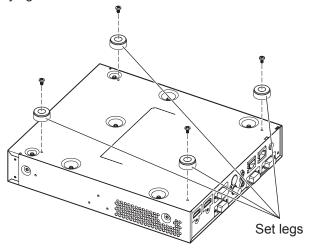
### Attention

- When mounting the interface box to the underside of the tabletop of the desk, request the mounting operation to the specialized engineer or to your dealer.
- If the connecting terminals on the rear side become invisible when the interface box is attached to the table
  underside, it is recommended to connect cables in advance before the interface box is attached to the table
  underside.
- During attachment, be careful that the interface box does not slip. Failure to observe this may cause a flaw on the table.
- When mounting to the underside of the tabletop of the desk, do not mount at a position, where an operator's leg may collide. Mount screws being loosened may cause the device to fall down, which will lead to damage to or deformation of the device.
- Be sure to fix the cables connected to the connecting terminals and supplied AC adaptors nearby such as the legs of the desk to avoid the cable and AC adaptor weights directly applied to the interface box.
- For heat release, leave 3 cm (1.2") or wider space at both sides of the interface box.
- When using the interface box, do not place objects on the interface box. Be careful not to cover exhaust ports.

## Mounting on the desk or the shelf

### Mount the supplied set legs to the interface box.

• Mount the legs to the set leg screw holes at the bottom side of the interface box with the supplied set leg screws (4 pcs). Securely tighten the screws.



### Attention

- When mounting the interface box on a table or on a shelf, always use the set legs. When buttons on the control panel are pressed, the interface box may slip and cause a flaw on the table or the shelf.
- When inverting the interface box, pay close attention not to drop or tumble.
- Mount the interface box without applying excessive force, so the buttons, indicators, and connecting terminals
  do not get damaged.
- Pay attention to tips of the screws at the bottom side of the interface box, for not to get hurt.
- Be careful that the weights of the cables and the AC adaptors connected to the connecting terminals are not applied on the interface box.
- When using the interface box, do not place objects on the interface box. Be careful not to cover exhaust ports. For heat release, leave 3 cm (1.2") or wider space at both sides of the interface box.

## **Connections**

## Before connecting

- Before connecting, carefully read the operating instructions of the devices to be connected.
- Turn off the power of all devices before connecting cables.
- Connect the cables by paying enough attention to the following points. If not, troubles may be led.
  - Before start connecting a cable to the interface box or to a device connected to the interface box, touch a metal to release the charge from the operator's body.
  - Do not use unnecessarily long cables when connecting the interface box and the projector. Longer the cable is, easier to be influenced by a noise. If the cable is used in a wrapped condition, it becomes an antenna, which more easily gets influenced by a noise.
  - When connecting the cable, insert to the connecting terminals of the interface box perpendicularly, connecting to GND first.
- If connecting cables necessary for the system connection are not supplied with the devices as accessories or not available as an option, prepare cables that are compatible to the connecting devices.
- Video signals containing too much jitter may cause the images on the screen to randomly wobble or wafture. In this case, a time base corrector (TBC) must be connected.
- The interface box accepts video signals, S-video signals, analog RGB signals (synchronous signals are TTL level), and digital signals.
- Some computer models are not compatible with the interface box.
- Refer to "List of compatible signals" ( page 48) for the input image signals that can be used for the interface box.

### <S-VIDEO IN> terminal pin assignments and signal names

Outside view	Pin No.	Signal name		
(1) (2)	(1) GND (luminance signal)			
	(2) GND (color signal)			
	(3)	Luminance signal		
(3) (4)	(4)	Color signal		

# COMPUTER 1 IN>/<COMPUTER 2 IN> terminal pin assignments and signal names

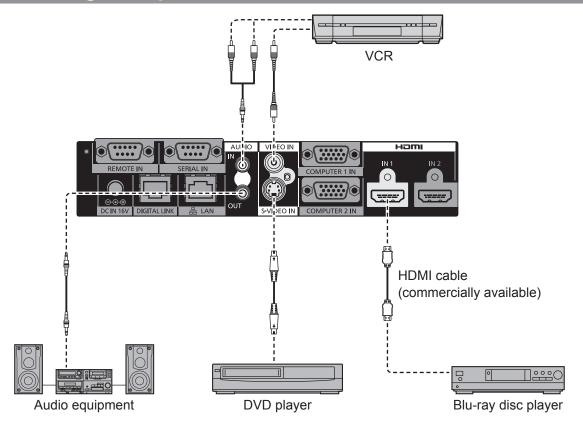
Outside view	Pin No.	Signal name
	(1)	R/P <sub>R</sub>
(5) ← (1)	(2)	G/G, SYNC/Y
	(3)	B/P <sub>B</sub>
(10) (6)	(12)	DDC data
(00000)	(13)	HD/SYNC
(1′5) ← (1′1)	(14)	VD
	(15)	DDC clock

(4) and (9) are not used. (5) - (8), (10), and (11) are GND terminals.

## <HDMI IN 1>/<HDMI IN 2> terminal pin assignments and signal names

Outside view	Pin No.	Signal name	Pin No.	Signal name
	(1)	T.M.D.S data 2 +	(11)	T.M.D.S clock shield
	(2)	T.M.D.S data 2 shield	(12)	T.M.D.S clock -
Odd-numbered pins (1) to (19)	(3)	T.M.D.S data 2 -	(13)	CEC
(19) ← (1)	(4)	T.M.D.S data 1 +	(14)	_
	(5)	T.M.D.S data 1 shield	(15)	SCL
	(6)	T.M.D.S data 1 -	(16)	SDA
(18) <b>←</b> (2)	(7)	T.M.D.S data 0 +	(17)	DDC/CEC GND
Even-numbered pins (2) to (18)	(8)	T.M.D.S data 0 shield	(18)	+5 V
	(9)	T.M.D.S data 0 -	(19)	Hot plug detection
	(10)	T.M.D.S clock +		

## Connecting example: Video and audio devices

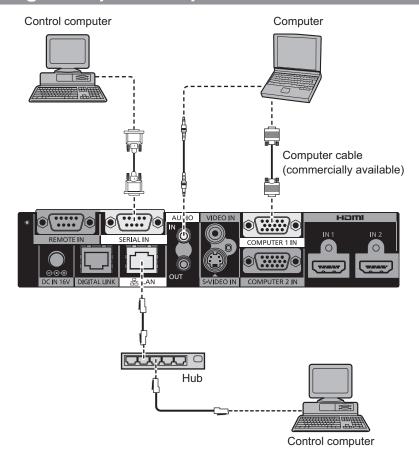


### Note

- Use an HDMI High Speed cable that conforms to HDMI standards. If a cable not conforming the HDMI standard is used, the image may be interrupted or may not be displayed properly.
- The interface box can connect to an external device, which has a DVI terminal, with the HDMI/DVI conversion cable. However, troubles may occur in some devices, such as the images are not properly displayed.
- [AUDIO IN SELECT] setting is not correct, troubles such as no sound is output may occur. (→ page 38)
- The interface box does not support VIERA Link (HDMI).

## **Connections**

## **Connecting example: Computers**



### Attention

- When connecting the interface box to a computer or an external device, use the power cord supplied with each device and commercially available shielded cables.
- The positions of the <SERIAL IN> and <LAN> terminals are close each other. Therefore, when connecting
  cables to both terminals, removing the cable connected to the <LAN> terminal may be difficult. When removing
  the cable connected to the <LAN> terminal, remove the cable connected to the <SERIAL IN> terminal
  beforehand.

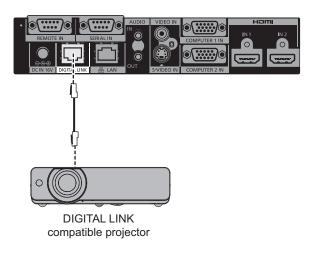
### Note

When connecting to the <SERIAL IN> terminal, refer to "<SERIAL IN> terminal" (→ page 45).

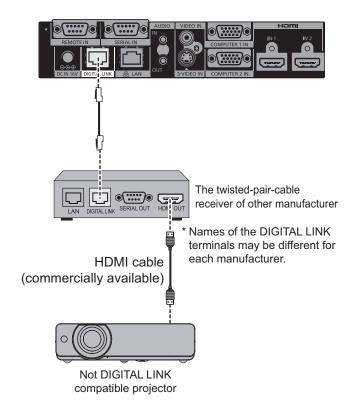
## Connecting to the DIGITAL LINK compatible device

### Connections

 When connecting to the DIGITAL LINK compatible projector



 When connecting to the projector that is not DIGITAL LINK compatible



### Attention

 When connecting to the projector using the twisted-pair-cable receiver of other manufacturer, do not use another twisted-pair-cable transmitter between the twisted-pair-cable receiver of other manufacturer and the projector.

The images and sounds may be interrupted or become unstable.

- Do not use the switching hub between the interface box and DIGITAL LINK compatible projector, and between the interface box and twisted-pair-cable receiver.
- Request the specialized technician or your dealer for wiring work of the cable for DIGITAL LINK. If the work is
  not properly conducted, the cable transmission characteristics do not meet, and the images and sounds may
  be interrupted or become unstable.
- Use the cable that conforms with the following conditions.
  - Compatible to the CAT5e or a higher standard
  - · Shield type (including the connector)
  - · Straight wire connection
  - · Single wire
- When installing the cable, confirm that the cable specification satisfies the characteristics of CAT5e or higher by using a cable tester or a cable analyzer.

When a relay connector is used in the middle, measure in a condition that the relay-connector is included.

- The interface box becomes easier to get affected by the internal noise, as well as the external noise. Therefore, install and use the cable without being wound as much as possible.
- Do not pull the cable with a strong force. In addition, do not bend or fold forcedly.
- Do not bind with other cables, especially the power cable. Keep the distance from other parallely set cables as far as possible.
- When connecting the interface box to the DIGITAL LINK compatible projector, open the DIGITAL LINK status menu of the projector after connecting the cable. Confirm that the signal quality is -12 dB or lower.

### **Connections**

### Note

- The maximum transferable distance is 100 m (328'11"). When the distance is longer than this maximum distance, the image or the sound may be interrupted, or erroneous performance occurs in LAN. If the interface box is used with the distance longer than the specified maximum transferable distance, the operation will be out of our warranty.
- When connecting with a projector made by Panasonic Connect Co., Ltd. that is not DIGITAL LINK compatible, the recommended twisted-pair-cable transmitter (receiver) is required. For twisted-pair-cable receivers of other manufacturers of which the operation has been verified with the digital interface box, refer to website (https://panasonic.net/cns/projector/).
   Note that verification for the devices of other manufacturers has been made for the items determined.

Note that verification for the devices of other manufacturers has been made for the items determined independently by Panasonic Connect Co., Ltd., and not all operations have been verified. For operation or performance problems caused by the devices of other manufacturers, contact the respective manufacturers.

# • Function restrictions when the twisted-pair-cable receivers of other manufacturers are used

When a projector, which is not DIGITAL LINK compatible, is connected without using the recommended twisted-pair-cable receiver, the following functions become disabled.

- · Operations of the interface box by the remote control of the projector
- No signal stop function

# Switching on/off the interface box

## Connecting the AC adaptor

Confirm that the <POWER> button of the interface box is off, and then connect the power cord and the AC adaptor.

For details of the AC adaptor and the power cord handling, refer to "Read this first!"(▶ pages 3 to 8).

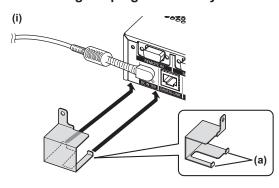
### ■ To attach the power cord

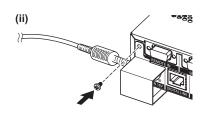
1) Fully and securely insert the power cord to the AC adaptor. Then, securely insert the AC adaptor plug to the <DC IN> terminal at the connecting terminals.



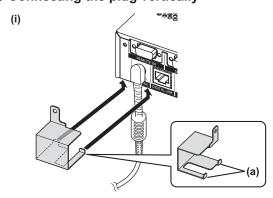
- 2) Fix the supplied mounting bracket for securing AC adaptor to the interface box.
  - (i) Hook the nails (a) of the mounting bracket for securing AC adaptor to two holes at the bottom surface of the interface box.
    - Turn the AC adaptor plug vertically or horizontally according to the condition.
  - (ii) Attach the mounting bracket as to cover the AC adaptor plug and fix with the supplied mounting bracket screw for securing AC adaptor. Securely tighten the screws.

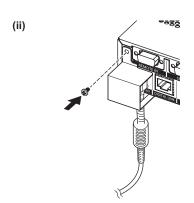
### Connecting the plug horizontally





### Connecting the plug vertically





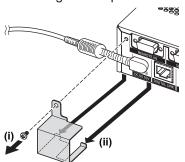
### Attention

- Do not attach the power cord and the AC adaptor with the front side of the interface box down.
- Be sure to fix the cables connected to the interface box and the supplied AC adaptor nearby such as the legs
  of the desk to avoid the cable and AC adaptor weights directly applied to the interface box.

## Switching on/off the interface box

### ■ To remove the power cord

- 1) Confirm that the <POWER> button of the interface box is off, and remove from the power outlet by holding the power plug.
- 2) Remove the mounting bracket for securing AC adaptor.
  - (i) Remove the mounting bracket screw for securing AC adaptor.
  - (ii) Remove the mounting bracket for securing AC adaptor.



3) Hold the AC adaptor plug and remove the AC adaptor from the <DC IN> terminal of the interface box.



## Switching on the interface box

Confirm the connection of the external device before turning on the power.

- 1) Connect the power plug to an outlet.
- 2) Press the <POWER> button to turn on the power.
  - Confirm that the power indicator is lighted on in green.



### Note

• If connecting a sound system to the <AUDIO OUT> terminal, you may hear noise from the external sound system when you turned off/on the interface box. In this case, turn off/on the interface box with the sound system turned off.

## Switching off the interface box

- 1) Press the <POWER> button to turn off the power.
  - Confirm that the power indicator turns off.

### Note

• If connecting a sound system to the <AUDIO OUT> terminal, you may hear noise from the external sound system when you turned off/on the interface box. In this case, turn off/on the interface box with the sound system turned off.

# Checking the image

Confirm the connections of the external device (▶ page 18) and the AC adaptor (▶ page 23) and then turn on the power (▶ page 24). Select the projecting image, and confirm that the selected image is projected from the projector.

## Select the input signal

Select an input signal.

- 1) Turn on the external device.
  - Turn on the external devices such as a projector and a Blu-ray disc player.
  - Operation may be required at the external device side, depending on the connecting external device. Refer to the operating instructions of the external devices.
- 2) Press the DIGITAL LINK button on the remote control of the projector or press the input selection button of the projector body to select the DIGITAL LINK input.
  - The operation method may vary depending on the projector.
- 3) Press the <HDMI 1> button, the <HDMI 2> button, the <COMPUTER 1> button, the <COMPUTER 2> button, the <S-VIDEO> button, or the <VIDEO> button on the control panel of the interface box.
  - The image of the signal being input in the selected terminal is projected.

### Attention

Images may not be projected properly depending on the external device, or Blu-ray disc or DVD to be played.
 Set the [SYSTEM SELECTOR] (→ page 30) of [PICTURE].

## Remote control operation

The interface box can be operated by the remote control of the connected projector (only DIGITAL LINK compatible models). Some remote controls do not have some buttons and perform differently.

• If the remote control signal receiver of the connected projector directly receives strong light, such as fluorescent light, the remote control may not operate properly. Use it in a place distant from the light source.

## Switching the input

The input for projection from the projector can be switched.

- 1) Press the DIGITAL LINK button on the remote control.
  - The input of the projector changes to the DIGITAL LINK, and the input select menu of the interface box is displayed.
- 2) Press ▲▼ on the remote control to select the input and press the enter button.
  - This operation can be also performed by using the DIGITAL LINK button on the remote control. The setting will change as follows each time you press the button.



## Displaying the On-screen menu (main menu)

On the main menu, settings can be changed.

- 1) Press the DIGITAL LINK button on the remote control.
  - [INPUT SELECT] menu is displayed.
- 2) Press the menu button on the remote control.
  - On-screen menu (main menu) is displayed.
  - If the remote control has the return button, the same operation is available.

### Note

For detailed operating method of the On-screen menu (main menu), refer to "On-screen menu navigation"
 (➡) page 27).

# On-screen menu navigation

The on-screen menu (Menu) is used to perform various settings and adjustments of the interface box.

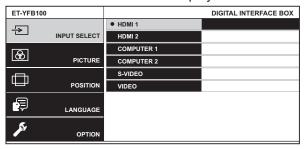
## Navigating through the menu

## Operating procedure

MENU button

# Press the <MENU> button on the control panel.

• The main menu screen is displayed.

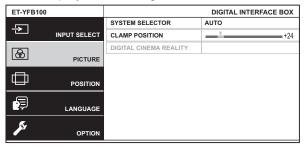


- When the interface box is connected to the DIGITAL LINK compatible projector and operated by a remote control, the method to display the main menu screen varies depending on the projector model.
  - When DIGITAL LINK is selected from the main menu of the projector
  - When the Digital Interface Box menu is selected from the network menu of the projector

For the operation procedures, refer to the Operating Instructions of the projector used.

# 2) Press ▲▼ to select an item from the menu item.

- The selected item is highlighted in yellow.
- The sub-menu items of the selected main menu are displayed on the right side.



### 3) Press the <ENTER> button.

• The sub-menu items become selectable.

### Press ▲▼ to select a sub-menu item, and press ◀ ▶ to change or adjust settings.

 For some items, press ◀ ▶ to display an individual adjustment screen with a bar scale as shown in the following diagram.



 If an item does not have any further information but only an item name, pressing the <ENTER> button displays the next screen, and detailed settings become possible.

### Note

- When the <RETURN> button or the <MENU> button is pressed when the menu screen is displayed, the screen returns to the previous screen.
- The remote control may not have the return button, depending on the DIGITAL LINK compatible projector model connected to the interface box.
- Some items cannot be adjusted and some functions cannot be used depending on the signal to be input to the interface box. The menu items that cannot be adjusted or used are shown in gray characters, and they cannot be selected.
- Some items can be adjusted even if signals are not input.
- Individual adjustment screen is cleared automatically if no operation is performed for approximately five seconds.
- For menu items, refer to "Main menu" (→ page 28) or "Sub-menu" (→ page 28).
- When 3D signals are input, the interface box menu is not displayed. To change the setting of the interface box, input the 2D signal or operate without inputting any signal.
- When 3D signals are input, all setting items of the interface box are disabled.
- The cursor color depends on the [OSD DESIGN]
   (⇒ page 36) settings on the menu. The selected item is displayed with the yellow cursor by default.

# ■ To reset adjustment values to the factory default

If the default button on the remote control is pressed, the values set and adjusted in the submenu items will be restored to the factory default settings.

# Press the default button on the remote control.

- The operation varies depending on the displayed screen.
  - When the sub-menu screen is displayed
     The displayed sub-menu items are restored to the factory default settings.
  - When the individual adjustment screen is displayed

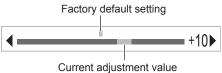
Only items during adjustment are restored to the factory default settings.

CLAMP POSITION	+24▶

## On-screen menu navigation

### Note

- The remote control may not have the default button, depending on the DIGITAL LINK compatible projector model connected to the interface box.
- To restore all settings to the factory default settings simultaneously, refer to [OPTION] on the menu → [INITIALIZE ALL] (→ page 40).
- The mark above the bar scale in the individual adjustment screen indicates the factory default setting. The position of this mark varies depending on the selected input signals.



## Main menu

The following items are included in the main menu. When a main menu item is selected, the screen changes to the sub-menu selection screen.

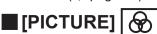
Main menu item		
<b>→</b>	[INPUT SELECT]	
8	[PICTURE]	
	[POSITION]	
	[LANGUAGE]	
	[OPTION]	

### Sub-menu

The sub-menu of the selected main menu item is displayed, and you can set and adjust items in the sub-menu.



Details (→ page 29)



Sub-menu item	Factory default	Page
[SYSTEM SELECTOR]	[AUTO]	30
[CLAMP POSITION]	[24]*1	30
[DIGITAL CINEMA REALITY]	[ON]	31

<sup>\*1:</sup> Depends on the input signal.

### Note

- The factory default settings may vary depending on the picture mode.
- Sub-menu items and factory default settings are displayed differently depending on the selected input terminal.

# ■[POSITION]

Sub-menu item	Factory default	Page
[SHIFT]	[0]	32
[CLOCK PHASE]	[0]	32
[OVER SCAN]	[0]*1	32
[ASPECT]	[AUTO]*1	33
[INPUT RESOLUTION]	_	34

\*1: Depends on the input signal.

### Note

 Sub-menu items and factory default settings differ depending on the selected input terminal.



Sub-menu item	Factory default	Page
[OSD DESIGN]	[TYPE1]	36
[RGB SYNC TERMINAL]	[LOW]	36
[CLOSED CAPTION SETTING]	[OFF]	36
[BACK COLOR]	[BLUE]	36
[SXGA MODE]	[SXGA]	37
[WIDE MODE]	[AUTO]	37
[NO SIGNAL SLEEP]	[10MIN.]	37
[AUDIO SETTING]	_	38
[AUTO SETUP]	_	39
[OUTPUT RESOLUTION]	_	39
[STATUS]	_	40
[INITIALIZE ALL]	_	40

# [INPUT SELECT] menu

Select [INPUT SELECT] from the main menu, and display the sub-menu.

Refer to "Navigating through the menu"

(➡ page 27) for the operation of the menu screen.

## **Switching the input**

An input terminal for the image can be selected.

 Press ▲▼ to select an input terminal and press the <ENTER> button to set.

[HDMI 1]	Switches to HDMI 1 input.
[HDMI 2]	Switches to HDMI 2 input.
[COMPUTER 1]	Switches to COMPUTER 1 input.
[COMPUTER 2]	Switches to COMPUTER 2 input.
[S-VIDEO]	Switches to S-VIDEO input.
[VIDEO]	Switches to VIDEO input.

# [PICTURE] menu

Select [PICTURE] from the main menu, and select the item from the sub-menu.
Refer to "Navigating through the menu"
(▶ page 27) for the operation of the menu screen.

## [SYSTEM SELECTOR]

The interface box will automatically detect the input signal, but you can set the system method manually when an unstable signal is input. Set the system method matching the input signal.

- Press ▲▼ to select [SYSTEM SELECTOR].
- 2) Press ◀ ▶ or the <ENTER> button.
  - The [SYSTEM SELECTOR] individual adjustment screen is displayed.
- 3) Press **♦** to switch [SYSTEM SELECTOR].
- When using <VIDEO IN> terminal, or <S-VIDEO IN> terminal

Select [AUTO], [NTSC], [NTSC4.43], [PAL], [PAL-M], [PAL-N], [SECAM], or [PAL60].

### Attention

- Set it to [AUTO] normally.
- Switch the setting to the signal method for the TV used.

### Note

- Setting [AUTO] will automatically select [NTSC], [NTSC4.43], [PAL], [PAL-M], [PAL-N], [SECAM], or [PAL60].
- When using <COMPUTER 1 IN> terminal, or <COMPUTER 2 IN> terminal
- During 480i, 576i, or 576p signal input Select from [AUTO], [RGB], or [YC<sub>B</sub>C<sub>R</sub>].
- During VGA60 or 480p signal input Select from [AUTO], [VGA60], [480p], or [480pRGB].
- When using other movie based input signals

Select from [AUTO], [RGB], or [YPBPR].

### Note

 Refer to "List of compatible signals" (→ page 48) for compatible signals.

# ■ When using <HDMI IN 1> terminal, or <HDMI IN 2> terminal

 During 480i, 576i, 480p, or 576p signal input

Select from [AUTO], [RGB], or [YCBCR].

When using other movie based input signals

Select from [AUTO], [RGB], or [YPBPR].

### Note

- Refer to "List of compatible signals" ( page 48) for compatible signals.
- This may not function properly for some external devices that are connected.

## [CLAMP POSITION]

You can adjust the optimal point when the black part of the image is blunt or it has turned green.

- Press ▲▼ to select [CLAMP POSITION].
- 2) Press ◀ ▶ or the <ENTER> button.
  - The [CLAMP POSITION] individual adjustment screen is displayed.
- 3) Press **♦** ▶ to adjust.
  - Adjustment value can be selected from 1 to 255.
  - Optimal value of clamp position adjustment When the black part is blunt:

The point where bluntness of the black part improves the most is the optimal value. When the black part is green:

The point where the green part becomes black, and the bluntness has improved is the optimal value.

### Note

- [CLAMP POSITION] can be adjusted only when a signal is input to the <COMPUTER 1 IN> terminal or the <COMPUTER 2 IN> terminal.
- Certain signals may not be adjustable.

## [DIGITAL CINEMA REALITY]

The vertical resolution can be improved when the function is used in the 2-2 and 2-3 pull down. Supported only when certain signals are input. 525i (480i), 625i (576i), 1125 (1080)/60i, 1125 (1080)/50i, S-video signal, and video signal

- Press ▲▼ to select [DIGITAL CINEMA REALITY].
- 2) Press **♦** ▶ or the **<ENTER>** button.
  - The [DIGITAL CINEMA REALITY] individual adjustment screen is displayed.
- 3) Press ◀ ▶ to switch [DIGITAL CINEMA REALITY].
  - The setting will change as follows each time you press the button.

[ON]	←→ [OFF]
[ON]	Enables [DIGITAL CINEMA REALITY].
[OFF]	Disables [DIGITAL CINEMA REALITY].

# [POSITION] menu

Select [POSITION] from the main menu, and select the item from the sub-menu.

Refer to "Navigating through the menu"

(➡ page 27) for the operation of the menu screen.

## [SHIFT]

You can move the image position vertically or horizontally if the image position projected on the screen is shifted even when the relative position of the projector and the screen is installed correctly.

- Press ▲▼ to select [SHIFT].
- 2) Press the <ENTER> button.
  - The [SHIFT] individual adjustment screen is displayed.
- 3) Press ▲▼◀ ▶ to adjust the position.
- For vertical (up and down) adjustment

Operation	Adjusti	nent
Press ▲ .	The picture position moves up.	0 0
Press ▼ .	The picture position moves down.	<b>O</b>

# For horizontal (right and left) adjustment

Operation	Adjusti	ment
Press ▶ .	The picture position moves to the right.	-
Press <b>◀</b> .	The picture position moves to the left.	

## [CLOCK PHASE]

You can adjust to achieve an optimal image when there is a flickering image or smeared outlines.

- Press ▲▼ to select [CLOCK PHASE].
- 2) Press **♦** ▶ or the **<ENTER>** button.
  - The [CLOCK PHASE] individual adjustment screen is displayed.
- 3) Press **♦** ▶ to adjust.
  - Adjustment value will change between 0 and +31. Adjust so that the amount of interference is at a minimum.

### Note

- Optimal value may not be achieved if the output from the input computer is unstable.
- When dot clock frequency of projecting signals is 162 MHz or higher, noise may not be eliminated even if [CLOCK PHASE] is adjusted.
- Adjustment is disabled when the component (YC<sub>B</sub>C<sub>R</sub>) signal of 525i (480i), or 625i (576i) is input.
- Adjustment is disabled while the computer (RGB) signal of 525i (480i), or 625i (576i) is input.
- Adjustment is disabled when a digital signal is input.

## [OVER SCAN]

 Supported only when S-VIDEO/VIDEO/ YC<sub>B</sub>C<sub>R</sub>/YP<sub>B</sub>P<sub>R</sub>/RGB (movie)/DVI (movie)/ HDMI (movie) signal is input

Adjusts the screen when characters or images at four edges of the screen are not completely displayed.

- Press ▲▼ to select [OVER SCAN].
- 2) Press **♦** or the **<ENTER>** button.
  - The [OVER SCAN] individual adjustment screen is displayed.
- 3) Press **♦** ▶ to adjust.
  - Adjustment value is from 0 to +10.

## [ASPECT]

You can switch the aspect ratio of the image.

- 1) Press ▲▼ to select [ASPECT].
- 2) Press **♦** ▶ or the **<ENTER>** button.
  - The [ASPECT] individual adjustment screen is displayed.
- 3) Press ◀ ▶ to switch the setting.
  - The aspect ratio changes as follows each time the button is pressed.



### Attention

 When an image in the aspect ratio of 4:3 is output in [FULL], the image may deform or the image at the edge section may be hidden. To respect the creator's intension, project the image in the original aspect ratio.

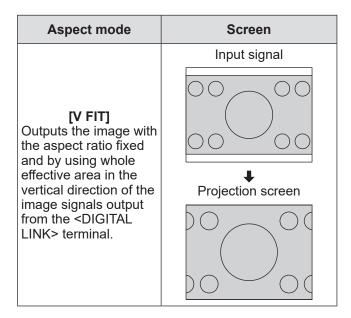
### Note

- [AUTO] is displayed only when NTSC, 525i (480i) is input.
- [S16:9] is displayed only when the wide signal of the aspect ratio 16:10, 16:9, and 15:9 is input.
- The projected image may not change even when the aspect mode is changed, depending on the input signal.
- Some aspect ratios may not be available depending on the input signal.
- If an aspect ratio, which is different from the aspect ratio for the input signals, is selected, the image appears differently from the original image.
- If using the interface box in places such as cafes or hotels to display programs for a commercial purpose or for public presentation, note that changing the aspect ratio to change the screen pictures may be an infringement of the rights of the original copyright owner for that program under copyright protection laws.
- In [AUTO] setting, when an identification signal for the aspect ratio is included in the input signal, the optimal aspect ratio is set automatically.
- In S-video, video, or component (YC<sub>B</sub>C<sub>R</sub>/YP<sub>B</sub>P<sub>R</sub>) signal, there is a case that [AUTO] is not displayed.
- When the image horizontally longer than the 16:9 aspect ratio of the cinema vision size is projected, the black region may appear at upper and lower sections of the screen.

Aspect mode	Screen
[NORMAL] Outputs the full image without any hidden section by using whole effective area of the image signals output from <digital link=""> terminal in either of the horizontal or vertical direction, by keeping the aspect ratio.</digital>	Input signal  Projection screen
[WIDE] Outputs by setting the aspect ratio to 16:9. When 15:9 signal, 16:9 signal, or 16:10 signal is input, the image is output without changing the aspect ratio.	Input signal  Projection screen
[S16:9] Outputs the image with the aspect ratio 16:9 to the screen size of 4:3.	Input signal  Projection screen

## [POSITION] menu

Aspect mode	Screen
[FULL] Outputs the image by using whole effective area of the image signals output from the <digital link=""> terminal.</digital>	Input signal  Projection screen
[NATIVE] Outputs the image in the resolution of the input signal without resizing.	Input signal  Projection screen
[H FIT] Outputs the image with the aspect ratio fixed and by using whole effective area in the horizontal direction of the image signals output from the <digital link=""> terminal.</digital>	Input signal  Projection screen



## [INPUT RESOLUTION]

You can adjust to achieve an optimal image when there is a flickering image or smeared outlines.

- Press ▲▼ to select [INPUT RESOLUTION].
- 2) Press the <ENTER> button.
  - The [INPUT RESOLUTION] screen is displayed.
- Press ▲▼ to select [TOTAL DOTS], [DISPLAY DOTS], [TOTAL LINES], or [DISPLAY LINES], then press ◀ ▶ to adjust it.
  - Values corresponding to the input signal are displayed automatically for each item. Change the displayed values and adjust to the optimal point viewing the screen when there is a vertical banding or missing in the screen.

### Note

- Previously mentioned vertical banding will not occur with all white signal input.
- The image may be disrupted while performing the adjustment, but it is not a malfunction.
- [INPUT RESOLUTION] can be adjusted only when a signal is input to the <COMPUTER 1 IN> terminal or the <COMPUTER 2 IN> terminal.

# [LANGUAGE] menu

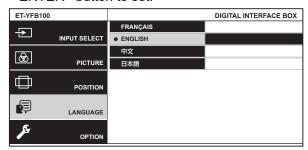
Select [LANGUAGE] from the main menu, and display the sub-menu.

Refer to "Navigating through the menu" (→ page 27) for the operation of the menu screen.

# Changing the display language

You can select the language of the on-screen display.

 Press ▲▼ to select a language, and press the <ENTER> button to set.



- Various menus, settings, adjustment screens, control button names, etc., are displayed in the selected language.
- French, English, Chinese and Japanese can be selected.

# [OPTION] menu

Select [OPTION] from the main menu, and select the item from the sub-menu. Refer to "Navigating through the menu" (▶ page 27) for the operation of the menu screen.

## [OSD DESIGN]

Set the color of the menu screen (OSD).

- Press ▲▼ to select [OSD DESIGN].
- 2) Press ◀ ▶ to switch [OSD DESIGN].
  - The setting will change as follows each time you press the button.

[TYPE1]	$\longleftrightarrow$	[TYPE2]

[TYPE1]	Displays the background in blue.
[TYPE2]	Displays the background in black.

## [RGB SYNC TERMINAL]

(Only the RGB signal input)

Switches an input impedance of the sync signal input.

- Press ▲▼ to select [RGB SYNC TERMINAL].
- 2) Press ◀ ▶ to switch [RGB SYNC TERMINAL].
  - The setting will change as follows each time you press the button.

[LOW]	$\longleftrightarrow$	[HIGH]
-		
[LOW]	Sets the input	impedance to [LOW].
[HIGH]	Sets the innut	impedance to [HIGH]

## [CLOSED CAPTION SETTING]

- Only when NTSC, 525i (480i) is input Sets the closed caption.
- Press ▲▼ to select [CLOSED CAPTION SETTING].
- 2) Press the <ENTER> button.
  - The [CLOSED CAPTION SETTING] screen is displayed.
- 3) Press ▲▼ to select an item, and press♦ to change the setting.

## **■** [CLOSED CAPTION]

Sets whether a closed caption is displayed or not.

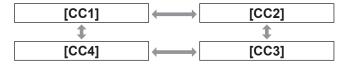
 The setting will change as follows each time you press the button.

[OFF]	(ON)	
	1	
[OFF]	Does not display a closed caption.	
[ON]	Displays a closed caption.	

### [MODE]

Sets the closed caption mode.

 The setting will change as follows each time you press the button.



[CC1]	Displays the CC1 data.	
[CC2]	Displays the CC2 data.	
[CC3]	Displays the CC3 data.	
[CC4]	Displays the CC4 data.	

### Note

- The closed caption is a function used to display the character information of the image signal mainly used in the North America. Closed captions may not be displayed depending on the connecting device and the contents to be played.
- While the menu screen of the interface box is displayed, the closed caption is not displayed.

## [BACK COLOR]

Set the color of the projection area when there is no signal input.

- Press ▲▼ to select [BACK COLOR].
- 2) Press ◀ ▶ to switch [BACK COLOR].
  - The setting will change as follows each time you press the button.

[BLUE]	<del></del>	[BLACK]
[BLUE]	The entire p blue.	rojection area appears
[BLACK]	The entire p	rojection area appears

### [SXGA MODE]

Sets when the entire image is not displayed while SXGA is input.

Set it to [SXGA] normally.

- 1) Press ▲▼ to select [SXGA MODE].
- 2) Press **♦** b to switch [SXGA MODE].
  - The setting will change as follows each time you press the button.

[SXGA]	←─── [SXGA+]
[SXGA]	When the entire image is displayed by setting to [SXGA]
[SXGA+]	When the entire image is not displayed by setting to [SXGA]

# [WIDE MODE]

Sets when the image is projected with the aspect ratio of 4:3 even when the wide signal is input.

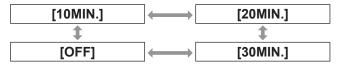
- 1) Press ▲▼ to select [WIDE MODE].
- 2) Press ◀ ▶ to switch [WIDE MODE].
  - The setting will change as follows each time you press the button.

[ON]	← [OFF]
[ON]	When inputting the wide signal
[OFF]	When inputting the 4:3 signal

## [NO SIGNAL SLEEP]

Sets the time to stop the output from the <DIGITAL LINK> terminal when the interface box detects that no signal is input to the selected video input terminal. With this function, the power consumption of the interface box and the projector can be reduced.

- Press ▲▼ to select [NO SIGNAL SLEEP].
- 2) Press ◀ ▶ to switch [NO SIGNAL SLEEP].
  - The setting will change as follows each time you press the button.



[10MIN.]	Stops output of the signal when no signal is input for 10 minutes.
[20MIN.]	Stops output of the signal when no signal is input for 20 minutes.
[30MIN.]	Stops output of the signal when no signal is input for 30 minutes.
[OFF]	Disables [NO SIGNAL SLEEP].

#### Note

- This setting is supported only when the DIGITAL LINK compatible projector is connected.
- To transfer the user logo to the projector by using the logo transfer software, turn this function to [OFF] before transferring. When the output is stopped for longer than the set time, the communication will be shut down and there are cases that the user logo cannot be transferred properly.
- When output from the <DIGITAL LINK> terminal stops, output from the <AUDIO OUT> terminal also stops.

# [OPTION] menu

## [AUDIO SETTING]

Sets the details of the sound function.

- Press ▲▼ to select [AUDIO SETTING].
- 2) Press the <ENTER> button.
  - The [AUDIO SETTING] screen is displayed.
- 3) Press ▲▼ to select an item.

### **■**[VOLUME]

When [AUDIO OUT SELECT] is set to [AUDIO OUT], the volume of the sound output can be adjusted.

- 4) Select [VOLUME] in step 3).
- 5) Press **♦** b to adjust the level.

Operation	Adjustment	Range
Press ▶ .	Volume turns up.	Maximum value 63
Press ◀ .	Volume turns down.	Minimum value 0

#### Note

 When [AUDIO OUT SELECT] is set to [OFF] or [DIGITAL LINK], this setting is disabled.

### [BALANCE]

When [AUDIO OUT SELECT] is set to [AUDIO OUT], the sound balance between the left and the right sound output can be adjusted.

- 4) Select [BALANCE] in step 3).
- 5) Press **♦** to adjust the level.

Operation	Adjustment	Range
Press ▶ .	Right side volume turns up.	1.46 to D16
Press ◀ .	Left side volume turns up.	L16 to R16

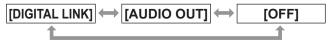
#### Note

When [AUDIO OUT SELECT] is set to [DIGITAL LINK], this setting is disabled.

### **■**[AUDIO OUT SELECT]

The sound output is set.

- 4) Select [AUDIO OUT SELECT] in step 3).
- 5) Press **♦ ▶** to switch [AUDIO OUT SELECT].



[DIGITAL LINK]	The sound is output to the <digital link=""> terminal.</digital>
[AUDIO OUT]	The sound is output to the <audio out=""> terminal.</audio>
[OFF]	The sound is not output.

## **■**[AUDIO IN SELECT]

Sets the audio input for each video input terminal.

- 4) Select [AUDIO IN SELECT] in step 3).
- 5) Press the <ENTER> button.
  - The [AUDIO IN SELECT] screen is displayed.
- 6) Press ▲▼ to select a setting.
- 7) Press **♦** to switch settings.
  - Each press of the button switches the settings as shown below.
- To set [HDMI 1] or [HDMI 2],

[AUDIO IN]



- \*1 [HDMI 2 Audio IN] is displayed when [HDMI 2] is selected.
- To set something other than [HDMI 1] or [HDMI 2],

[OFF]

[HDMI 1 AUDIO IN]	When video signals are input to the selected input terminal, audio is output from the <hdmi 1="" in=""> terminal.</hdmi>
[HDMI 2	When video signals are input to the selected input terminal, audio is output from the <hdmi 2="" in=""></hdmi>

[AUDIO IN]

When video signals are input to the selected input terminal, audio is output from the <AUDIO IN> terminal.

The sound is not output.

#### Note

[OFF]

 When no video signals are input to the selected input terminal, no audio is output.

## [AUTO SETUP]

Sets the auto setup function. Set it to [AUTO] normally.

- 1) Press ▲▼ to select [AUTO SETUP].
- 2) Press the <ENTER> button.
  - The [AUTO SETUP] screen is displayed.
- 3) Press ▲▼ to select [AUTO SETUP SETTING].
- 4) Press **♦ ▶** to switch [AUTO SETUP SETTING].
  - The setting will change as follows each time you press the button.

[AUTO]	(MANUAL)	
[OTUA]	When the projecting image signal is changed to the computer signal, the auto setup function starts operating.	
[MANUAL]	Manually enables the auto setup function. Refer to Steps <b>5)</b> to <b>7)</b> of "When manually enabling the auto setup function" for details of this item.	

# When manually enabling the auto setup function

- 5) Select [MANUAL] in Step 4).
- 6) Press ▲▼ to select [AUTO SETUP].
- 7) Press the <ENTER> button.

#### Note

 This function is supported only when the computer signal and the HDMI signal is input.

## [OUTPUT RESOLUTION]

Sets the resolution of the image output from the <DIGITAL LINK> terminal.

- Press ▲▼ to select [OUTPUT RESOLUTION].
- 2) Press the <ENTER> button.
  - The [OUTPUT RESOLUTION] screen is displayed.

#### 3) Press ▲▼ to select a setting item.

,	
[AUTO]	Sets the resolution automatically.
[1920x1200]	Outputs in WUXGA (1 920 x 1 200 dot) standard.
[1920x1080]	Outputs in 1080p (1 920 x 1 080 dot) standard.
[1280x800]	Outputs in WXGA (1 280 x 800 dot) standard.
[1024x768]	Outputs in XGA (1 024 x 768 dot) standard.

### 4) Press the <ENTER> button.

#### Note

- When set to [AUTO], the output resolution varies depending on the input signal.
  - 720/1080 signals: Outputs the image as it is.
  - 480/576 signals: Outputs the image converted to 1080p.
  - Other signals:
     Outputs the image converted to the panel resolution of the projector. If the panel resolution of the projector is unknown, the signals are output
- in 1 024 x 768.

  When set to [AUTO], the image is automatically output in the resolution and tone appropriate for the projector, but it takes while to output the image when switching the input. If set to any item other than [AUTO], the motion of the image may be unnatural when movie based signals are input, but the time to switch the input can be reduced.
- When [OUTPUT RESOLUTION] is set to any item other than [AUTO], the image is not projected depending on the connected projector. In this case, to return the [OUTPUT RESOLUTION] setting to [AUTO], press the <RETURN> button on the control panel for three times and then press the <ENTER> button and the <RETURN> button simultaneously.

# [OPTION] menu

### [STATUS]

Displays the status of the interface box.

- 1) Press ▲▼ to select [STATUS].
- 2) Press the <ENTER> button.
  - The **[STATUS]** screen is displayed.

#### [SIGNAL]

[NAME]	Displays the input signal name.
[FREQUENCY]	Displays the frequency of the input signal.

#### [SERIAL NUMBER]

[INTERFACE	Displays the serial number of the
BOX]	projector.

### [INITIALIZE ALL]

Return various setting values to their factory default settings.

After executing this operation, turn off and then turn on the <POWER> button of the interface box.

- 1) Press ▲▼ to select [INITIALIZE ALL].
- 2) Press the <ENTER> button.
  - [After data has been initialized, the unit will need to be restarted.] is displayed.
- 3) Press ◀ ▶ to select [OK].
- 4) Press the <ENTER> button.
  - [Initialization has been completed. Please, restart the digital interface box.] is displayed.
- 5) Press the <POWER> button to turn off the power.
- 6) Press the <POWER> button again to turn on the power.
  - During the initialization process, all input terminal indicators light on. Wait for a while.
  - When all input terminal indicators other than the selected input terminal turn off, the interface box can be used.

# **Maintenance**

After a long term usage, exhaust ports at upper and lateral sides of the interface box may be clogged with dust or trash. Clean the exhaust ports periodically.

Wipe off dirt and dust on the outer case with a soft, dry cloth.

- When removing dirt and dust, do not drop them inside the interface box.
- If the dirt is persistent, soak the cloth with water and squeeze firmly. Wipe with the wet cloth and finish with a dry cloth.
- When cleaning, do not use benzene, thinner, solvent such as alcohol, or household cleaners. When these materials are used for cleaning, ripping of the paint or discoloration may occur.
- When using chemical treated dusters, follow the instructions.

# **Troubleshooting**

Review the following points. For details, refer to the corresponding pages.

Problems	Points to be checked	Page
	Is the power plug firmly inserted into the outlet?	_
Power does not turn on.	Is the power connector firmly inserted into the AC adaptor?	_
	Is the AC adaptor plug securely inserted to the main body?	_
OII.	Is the wall outlet supplying electricity?	_
	Have the circuit breakers tripped?	_
	Are the image (output) device and the projector correctly connected?	18
	Is the projector input setting at DIGITAL LINK?	25
No image appears.	Is the input selection setting correct?	26
inage appears.	• Is the external device that is connected to the interface box working properly?	_
	● Isn't the external control enabled?	47
The color is pale or grayish.	Is the projector connected to the interface box adjusted correctly?	18
The count is not	● Is the <audio in=""> terminal connected correctly?</audio>	14
The sound is not output.	● Isn't the sound adjustment set at a minimum?	38
	Confirm [AUDIO IN SELECT] of [AUDIO SETTING].	38
The remote control does not respond.  ■ Isn't a projector that is not compatible to DIGITAL LINK connected?		_
The buttons on the control panel do not operate.	Isn't the external control enabled?	47
	Is the [SYSTEM SELECTOR] selection set correctly?	30
The image does not display correctly.	Is there a problem with the video tape or other image sources?	_
display correctly.	Is a signal which is not compatible with the interface box being input?	48
	● Is the cable too long? (Set to 10 m (32'10") or shorter.)	_
Image from a computer does not appear.	<ul> <li>Is the external video output of the laptop computer set correctly?</li> <li>Ex.: When "Fn" + "F3" keys are pressed simultaneously, the external output settings may be switched. Since the method varies depending on the computer type, refer to the user manual provided with your computer.</li> </ul>	_
Video from HDMI	Is the HDMI cable connected securely?	19
compatible device does not appear or it	<ul> <li>Turn the power of the interface box and the connected devices off and on.</li> </ul>	_
appears jumbled.	● Isn't a signal, which is not compatible with the interface box, input?	48
Cound is not suf	Set the sound of the externally connected device to the linear PCM.	_
Sound is not output from the HDMI	Confirm [AUDIO IN SELECT] of [AUDIO SETTING].	38
compatible device.	<ul> <li>If a sound is not output when the HDMI cable is used, use the <audio IN&gt; terminal.</audio </li> </ul>	14

### Attention

• If problems persist even after checking the preceding points, consult your dealer.

# **Frequently Asked Questions**

Check the following.

Video is not projected across the entire screen when HDMI signals are input from a computer.

Perform the following two steps.

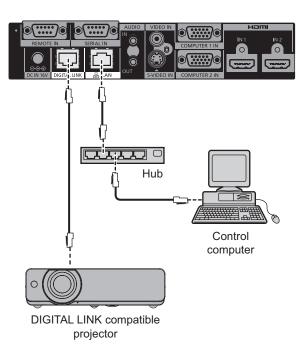
- Adjust the aspect ratio of screens output by a computer to suit projector pixels (aspect ratio).
   Example: If projector produces images of 1024 dots x 768 dots (4:3), set computer resolution to 800 x 600 (4:3).
- Set [Aspect] to [Full]. (→ page 33)

# **PJLink protocol**

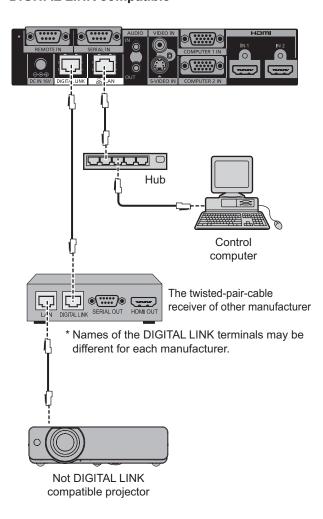
The <LAN> terminal of the interface box conforms with 100Base-T and 10Base-T. Signals are directly transferred to the using projector via DIGITAL LINK. Therefore, when PJLink protocol is used, follow the Operating Instructions of the using projector. The interface box cannot be controlled from this terminal.

### Connection

 When connecting to the DIGITAL LINK compatible projector



When connecting to the projector that is not DIGITAL LINK compatible

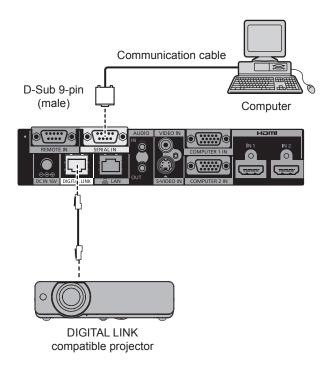


## <SERIAL IN> terminal

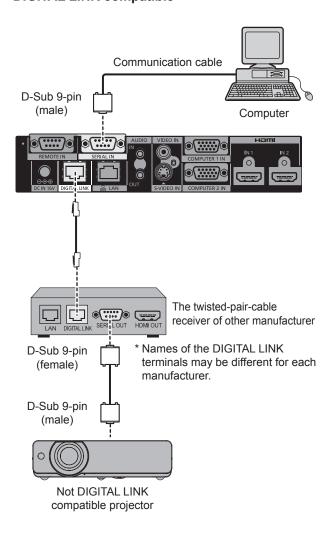
The <SERIAL IN> terminal of the interface box conforms with RS-232C. Signals are directly transferred to the using projector via DIGITAL LINK. For the detailed specifications of the control, see the Operating Instructions of the projector.

### Connection

When connecting to the DIGITAL LINK compatible projector



When connecting to the projector that is not DIGITAL LINK compatible



# ■ Pin assignments and signal names

D-Sub 9-pin (female) Outside view	Pin No.	Signal name	Details
	(1)	_	NC
(5) ← (1)	(2)	TXD	Transmitted data
\ /	(3)	RXD	Received data
	(4)	<del>_</del>	NC
	(5)	GND	Earth
	(6)	<del>_</del>	NC
	(7)	CTS	Connected internally
(9) ← (6)	(8)	RTS	Connected internally
	(9)	_	NC

### Communication conditions

Signal level	RS-232C-compliant
Sync. method	Asynchronous
Baud rate	9 600 bps
Parity	None

Character length	8 bit
Stop bit	1 bit
X parameter	None
S parameter	None

### **■** Cable specification

### When connected to a computer

Interface box (<SERIAL IN> terminal)

1	NC	NC	1
2			2
3			3
4	NC	NC	4
5			5
6	NC	NC	6
7			7
8			8
9	NC	NC	9

Computer (DTE specifications)

### **■** Control commands

When controlling the projector from a computer, the following commands are available: [Projector control command]

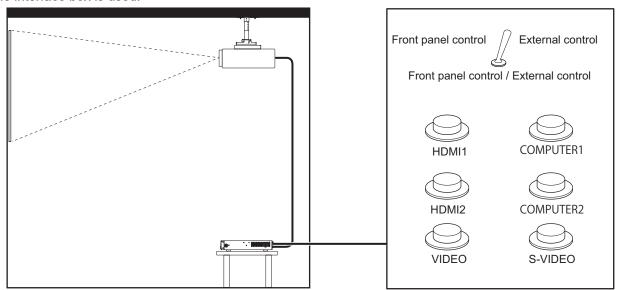
Command	Control contents	Parameter	Remarks
IIS	INPUT selection	DL1:VID DL1:SVD DL1:PC1 DL1:PC2 DL1:HD1 DL1:HD2	VIDEO S-VIDEO COMPUTER1 COMPUTER2 HDMI1 HDMI2

### Note

- The control commands are available only when the DIGITAL LINK compatible projector is connected.
- For the control commands of the connected projector, refer to the Operating Instructions of the projector used.

## <REMOTE IN> terminal

Even when the signal from the remote control cannot reach the projector, the interface box can be remotely controlled (external control) from a control panel installed at a separate place when the <REMOTE IN> terminal of the interface box is used.



Meeting room or other installation location

Remote control panel in another location

### ■ Pin assignments and signal names

D-Sub 9-pin (Outside view)	Pin No.	Signal name	Open (H)	Short (L)
	(1)	GND	_	GND
(5) ← (1)	(2)	_	_	_
	(3)	HDMI 1	Other	HDMI 1
	(4)	HDMI 2	Other	HDMI 2
	(5)	COMPUTER 1	Other	COMPUTER 1
	(6)	COMPUTER 2	Other	COMPUTER 2
/ \	(7)	VIDEO	Other	VIDEO
(9) ← (6)	(8)	S-VIDEO	Other	S-VIDEO
	(9)	Enable/disable	Front panel control	External control

### Attention

- When controlling, make sure to short-circuit pins (1) and (9).
- When No. (1) and No. (9) pins are short-circuited, the <HDMI 1>/<HDMI 2>/<COMPUTER 1>/<COMPUTER 2>/<S-VIDEO>/<VIDEO> buttons of the interface box, the [INPUT SELECT] item of the menu, and the switch input signal command of the RS-232C become disabled.

# List of compatible signals

Image signals that are compatible with the input of the interface box are as shown in the following table.

	Signal name	Resolution		nning iency	Dot clock		Plug ar	
Mode	display	(Dots)			Format*1	COMPUTER 1/2	HDMI 1/2	
NTSC/NTSC4.43/PAL-M/ PAL60	_	_	15.7	59.9	_	V/S	_	_
PAL/PAL-N/SECAM	_	_	15.6	50.0	_	V/S		_
525i (480i)	480i	720 x 480i	15.7	59.9	13.5	R/Y	_	_
625i (576i)	576i	720 x 576i	15.6	50.0	13.5	R/Y		
525p (480p)	480p	720 x 483	31.5	59.9	27.0	R/Y/H	_	<b>√</b>
625p (576p)	576p	720 x 576	31.3	50.0	27.0	R/Y/H		/
750 (720)/60p	720/60p	1 280 x 720	45.0	60.0	74.3	R/Y/H	_	1
750 (720)/50p	720/50p	1 280 x 720	37.5	50.0	74.3	R/Y/H		1
1125 (1080)/60i	1080/60i	1 920 x 1 080i	33.8	60.0	74.3	R/Y/H		1
1125 (1080)/50i	1080/50i	1 920 x 1 080i	28.1	50.0	74.3	R/Y/H		1
1125 (1080)/24p	1080/24p	1 920 x 1 080	27.0	24.0	74.3	R/Y/H		<b>√</b>
1125 (1080)/25p	1080/25p	1 920 x 1 080	28.1	25.0	74.3	R/Y/H		
1125 (1080)/30p	1080/30p	1 920 x 1 080	33.8	30.0	74.3	R/Y/H		
1125 (1080)/60p	1080/60p	1 920 x 1 080	67.5	60.0	148.5	R/Y/H		1
1125 (1080)/50p	1080/50p	1 920 x 1 080	56.3	50.0	148.5	R/Y/H		<b>✓</b>
VGA400	VGA85	640 x 400	37.9	85.1	31.5	R/H		
V 6/ (100	VGA70	640 x 400	31.5	70.1	25.2	R/H		
VGA	VGA60	640 x 480	31.5	59.9	25.2	R/H	1	1
	VGA67	640 x 480	35.0	66.7	30.2	R/H	_	
	VGA73	640 x 480	37.9	72.8	31.5	R/H	1	1
-	VGA75	640 x 480	37.5	75.0	31.5	R/H	1	<b>✓</b>
-	VGA85	640 x 480	43.3	85.0	36.0	R/H	_	
SVGA	SVGA56	800 x 600	35.2	56.3	36.0	R/H	/	/
-	SVGA60	800 x 600	37.9	60.3	40.0	R/H	1	
-	SVGA72	800 x 600	48.1	72.2	50.0	R/H	/	<u>/</u>
-	SVGA72 SVGA75	800 x 600	46.9	75.0	49.5	R/H	/	1
-	SVGA75 SVGA85	800 x 600	53.7	85.1	56.3	R/H	<b>✓</b>	<b>√</b>
MAC16	MAC16	832 x 624	49.7	74.6	57.3	R/H		_
XGA					51.9		<b>✓</b>	<b>√</b>
XGA -	XGA50 XGA60	1 024 x 768 1 024 x 768	39.6 48.4	50.0 60.0	65.0	R/H R/H	_	
-							/	<b>√</b>
-	XGA70	1 024 x 768	56.5	70.1	75.0	R/H	/	1
_	XGA75	1 024 x 768	60.0	75.0	78.8	R/H	<b>✓</b>	/
-	XGA82	1 024 x 768	65.5	81.6	86.0	R/H		
-	XGA85 XGA100	1 024 x 768	68.7	85.0	94.5	R/H		
-	XGA100 XGA120	1 024 x 768 1 024 x 768	80.0 99.0	100.0 119.8	105.0 137.8	R/H R/H	_	
MXGA	MXGA70	1 152 x 864	64.0	70.0	94.2	R/H	<del>                                     </del>	
WAGA	MXGA75	1 152 x 864	67.5	74.9	108.0	R/H		
-	MXGA85	1 152 x 864	77.1	85.0	119.7	R/H		
MAC21	MAC21	1 152 x 870	68.7	75.1	100.0	R/H	1	/
1280 x 720	1280 x 720/50	1 280 x 720	37.1	49.8	60.5	R/H	_	
	1280 x 720/60	1 280 x 720	44.8	59.9	74.5	R/H	_	
1280 x 768	1280 x 768/50	1 280 x 768	39.6	49.9	65.3	R/H	_	
	1280 x 768/60	1 280 x 768	47.8	59.9	79.5	R/H	_	
1280 x 800	1280 x 800/50	1 280 x 800	41.3	50.0	68.0	R/H	_	
	1280 x 800/60	1 280 x 800	49.7	59.8	83.5	R/H		
MSXGA	MSXGA60	1 280 x 960	60.0	60.0	108.0	R/H		

	Signal name	Signal name Resolution		Scanning frequency			Plug and play compatible	
Mode	display	(Dots)	Horizontal (kHz)	Vertical (Hz)	Frequency (MHz)	Format*1	COMPUTER 1/2	HDMI 1/2
SXGA	SXGA60	1 280 x 1 024	64.0	60.0	108.0	R/H	1	1
	SXGA75	1 280 x 1 024	80.0	75.0	135.0	R/H	1	<b>✓</b>
	SXGA85	1 280 x 1 024	91.1	85.0	157.5	R/H	_	_
SXGA+	SXGA+60	1 400 x 1 050	65.2	60.0	122.6	R/H	_	_
	SXGA+60	1 400 x 1 050	65.3	60.0	121.8	R/H	/	/
	SXGA+75	1 400 x 1 050	82.2	75.0	155.9	R/H	_	_
WXGA+	WXGA+60	1 440 x 900	55.9	59.9	106.5	R/H	_	_
UXGA	UXGA60	1 600 x 1 200	75.0	60.0	162.0	R/H	<b>✓</b>	/
WSXGA+	WSXGA+60	1 680 x 1 050	65.3	60.0	146.3	R/H	_	_
1920 x 1080	1920x1080/60	1 920 x 1 080*2	66.6	59.9	138.5	R/H	_	_
WUXGA	WUXGA60RB	1 920 x 1 200*2	74.0	60.0	154.0	R/H	/	<b>√</b>

<sup>\*1:</sup> Signals that show formats are as follows.

V: Video

S: S-video

R: RGB

 $Y: YC_BC_R/YP_BP_R$ 

H: HDMI

#### Note

- The "i" at the end of the resolution indicates an interlaced signal.
- When interlaced signals are connected, flickering may occur on the projected image.

## **Corresponding 3D signals list**

The 3D signals corresponding to the interface box are the HDMI signals in the following table.

• When the 3D signal is input while a projector that does not correspond to the 3D is connected, the icon that indicates the 3D image can not be output is displayed, and the image disappears. In this case, change the input signal to the 2D.

Mode		Format of the 3D image signal	
Mode	Frame packing	Side by side	Top and bottom
750 (720)/60p	<b>√</b> *1	1	<b>√</b> *1
750 (720)/50p	<b>√</b> *1	✓	<b>√</b> *1
1125 (1080)/60i	_	<b>✓</b> *1	<del>_</del>
1125 (1080)/50i	_	<b>✓</b> *1	_
1125 (1080)/24p	<b>✓</b> *1	✓	<b>√</b> *1
1125 (1080)/60p	_	✓	✓
1125 (1080)/50p	_	<b>√</b>	✓

<sup>\*1:</sup> HDMI standard 3D Mandatory format signal.

<sup>\*2:</sup> VESA CVT-RB (Reduced Blanking) compatible.

# **Specifications**

The following table describes the specifications of the interface box.

Power supply	/	DC 16 V (DC input terminal)
Power consu	mption	16 W (when the power is "off": 0.2 W) (including the supplied AC adaptor)
AC adaptor	CF-AA6373A	Input: AC 100 V - 240 V, 1.5 A - 0.8 A, 50 Hz/60 Hz Output: DC 16 V, 3.75 A
AC adaptor	CF-AA6413A	Input: AC 100 V - 240 V, 1.6 A - 0.9 A, 50 Hz/60 Hz Output: DC 16 V, 4.06 A
	For HDMI signals	Horizontal: 27.0 kHz to 99.0 kHz, Vertical: 24.0 Hz to 119.8 Hz Dot clock frequency: 25.2 MHz to 162.0 MHz
	For RGB signals	Horizontal: 15.6 kHz to 99.0 kHz, Vertical: 24.0 Hz to 119.8 Hz Dot clock frequency: 13.5 MHz to 162.0 MHz
Applicable scanning frequency*1	For YC <sub>B</sub> C <sub>R</sub> /YP <sub>B</sub> P <sub>R</sub> signals	525i (480i) Horizontal: 15.75 kHz, Vertical: 60 Hz 625i (576i) Horizontal: 15.63 kHz, Vertical: 50 Hz 525p (480p) Horizontal: 31.5 kHz, Vertical: 60 Hz 625p (576p) Horizontal: 31.25 kHz, Vertical: 50 Hz 750 (720)/60p Horizontal: 45.0 kHz, Vertical: 60 Hz 750 (720)/50p Horizontal: 37.5 kHz, Vertical: 50 Hz 1125 (1080)/60i Horizontal: 33.75 kHz, Vertical: 60 Hz 1125 (1080)/50i Horizontal: 28.13 kHz, Vertical: 50 Hz 1125 (1080)/25p Horizontal: 28.13 kHz, Vertical: 25 Hz 1125 (1080)/24p Horizontal: 27.0 kHz, Vertical: 24 Hz 1125 (1080)/30p Horizontal: 33.75 kHz, Vertical: 30 Hz 1125 (1080)/60p Horizontal: 67.5 kHz, Vertical: 60 Hz 1125 (1080)/60p Horizontal: 67.5 kHz, Vertical: 50 Hz ■Not corresponding to 3 value SYNC.
	For video signals (including S-video)	Horizontal: 15.75 kHz, Vertical: 60 Hz (NTSC/NTSC4.43/PAL-M/PAL60) Horizontal: 15.63 kHz, Vertical: 50 Hz (PAL/PAL-N/SECAM)

# **Specifications**

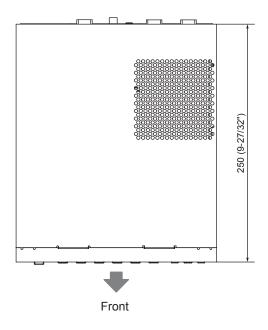
		2 set, high-densit	y D-Sub 15 p (female)			
	<computer 1="" in="">/ <computer 2="" in=""> terminal</computer></computer>	RGB signals	G: 0.7 V [p-p] 75 $\Omega$ (SYNC ON GREEN: 1.0 V [p-p] 75 $\Omega$ ) B,R: 0.7 V [p-p] 75 $\Omega$ SYNC/HD/VD TTL, automatic positive/negative polarity compatible			
		YP <sub>B</sub> P <sub>R</sub> signals	Y: 1.0 V [p-p] including synchronization signal, P <sub>B</sub> P <sub>R</sub> : 0.7 V [p-p] 75 $\Omega$			
	<video in=""> terminal</video>	1 set, pin jack 1.0	V [p-p] 75 Ω			
	<s-video in=""> terminal</s-video>	1 set, Mini DIN 4 բ	o Y 1.0 V [p-p], C 0.286 V [p-p] 75 Ω S1 signal compatible			
	<hdmi 1="" in="">/<hdmi< th=""><th></th><th>n, (HDCP, Deep Color compatible) ear PCM (sampling frequency: 48 kHz/44.1 kHz/32 kHz)</th></hdmi<></hdmi>		n, (HDCP, Deep Color compatible) ear PCM (sampling frequency: 48 kHz/44.1 kHz/32 kHz)			
Terminals	IN 2> terminal	1125 (1080)/60p,	525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/60p, 1125 (1080)/50p, 1125 (1080)/24p, 1125 (1080)/25p, 1125 (1080)/30p   ● Displayable resolution: VGA (640 x 480 dot) to WUXGA (1 920 x 1 200 dot)			
	<serial in=""> terminal</serial>	1 set, D-Sub 9 p, for external control (RS-232C compatible)				
	<audio in=""> terminal</audio>	1 set, M3 stereo n	nini jack, 0.5 V [rms], input impedance 22 kΩ or higher			
	<audio out=""> terminal</audio>		set, M3 stereo mini jack (variable) V [rms] to 2.0 V [rms], output impedance 2.2 k $\Omega$ or lower			
	<lan> terminal</lan>	1 set, RJ-45 netw	ork connection, PJLink compatible, 10Base-T/100Base-TX			
	<digital link=""> terminal</digital>	1 set, RJ-45 for D	IGITAL LINK connection			
	<remote in=""> terminal</remote>	1 set, D-Sub 9 p f	or external control			
Dimensions		Width: 210 mm (8 Height: 44 mm (1- Depth: 250 mm (9 (projecting section	.23/32 <sup>"</sup> ) -27/32")			
Weight*2			Approx. 1.15 kg (2.5 lbs) (main body) Approx. 0.20 kg (0.4 lbs) (AC adaptor)			
Operating en	vironment		nment temperature: 0°C (32°F) to 40°C (104°F)*3 nment humidity: 20% to 80% (no condensation)			

<sup>\*1:</sup> For the types of image signals that can be used with the interface box, refer to "List of compatible signals" (▶ page 48).

\*2: Accessories such as the power cord and mounting brackets are not included.

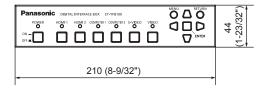
\*3: When using the device at elevations between 1 400 m (4 593') and 2 700 m (8 858') above sea level, the operating environment temperature should be between 0 °C (32 °F) and 35 °C (95 °F). The device cannot be used at elevations of 2 700 m (8 858') or higher above sea level.

# **Dimensions**



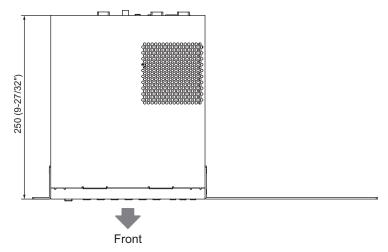
Units: mm

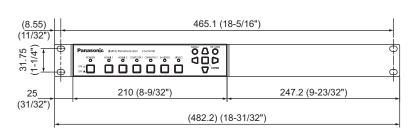
Units: mm

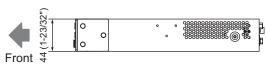




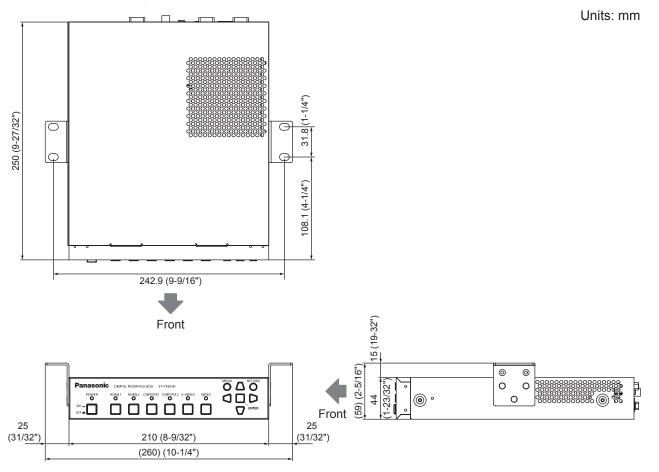
# ■ When mounting on the rack



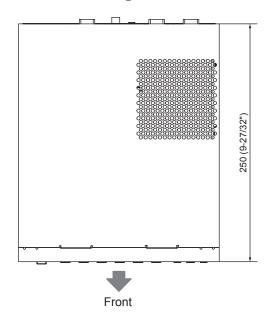


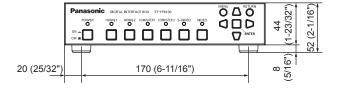


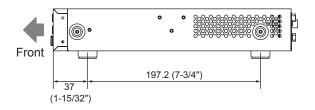
# ■ When mounting to the underside of the tabletop of the desk



## ■ When mounting on the desk or the shelf







Units: mm

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# Disposal of Old Equipment Only for European Union and countries with recycling systems



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local authority. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### **Product Information (for Turkey only)**

AEEE Yönetmeliğine Uygundur.

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