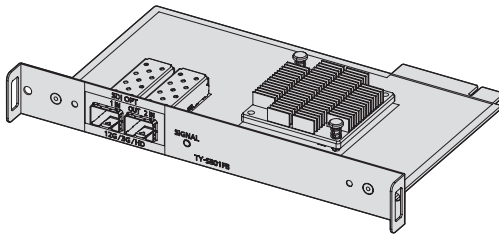


# Panasonic®

## Operating Instructions

Function Board for 12G-SDI Optical Commercial Use

Model No. **TY-SB01FB**



ENGLISH

FRANÇAIS

日本語

Thank you for purchasing this Panasonic product.

- Before using this product, please read these “Operating Instructions” and the “Operating Instructions” of the projector carefully and save the manuals for future use.
- Before using this product, be sure to read “Read this first!” (➔ page 3).

**4K**  
PROFESSIONAL

ENGLISH

DPQX1679ZA/X1

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# Read this first!

## **WARNING:**

**Do not spill water on this product or allow this product to get wet.**

Doing so may cause electric shock, fire, or malfunction due to short circuit or overheating.

- Do not place a container with liquid close to this product.
- Consult your dealer when liquid such as water is spilled on this product.

**Do not place the supplied port covers and screws in a location that a child can reach.**

Accidentally swallowing them can cause a physical harm.

- Seek a medical advice immediately if a child might have swallowed them.

**Do not disassemble or modify.**

Doing so may cause electric shock or fire. It may also cause a malfunction.

## **CAUTION:**

**Do not place this product in a location with excessive humidity or dust, or in a location exposed to oil smoke or steam.**

Doing so may cause fire or electric shock.

**Do not place this product in extremely hot location.**

Doing so may deteriorate the part, or may cause fire.

- Do not install or store in a location with direct sunlight or close to the heating device, etc.

**Disconnect the power plug from the wall outlet before installing or removing this product to/from the projector.**

Failure to do so may cause electric shock.

The SFP module to be attached to this product is a Class 1 laser product. Do not look at the SFP module or the connector of the optical fiber cable while the projector is turned on. The laser beam may enter the eyes and cause damage to the eyes.

# Precautions for use

This product is a 12G-SDI signal compatible Function Board equipped with two ports that can install the SFP (Small Form-Factor Pluggable)/SFP+ module (referred to as “SFP module” hereinafter). By installing this product to the projector manufactured by Panasonic Connect Co., Ltd., long-distance transmission of the SDI signal via optical fiber cable will be possible without a separate converter to convert from optical signal to electric signal.

## Supported projector

This product can be used with following projectors. However, this product cannot be used if the firmware version of the projector is earlier than the following compatible firmware version. Use the product after updating the projector to the latest firmware.

| Supported projector          | Compatible firmware version |
|------------------------------|-----------------------------|
| PT-RQ25K, PT-RQ18K           | 2.00 or later               |
| PT-RZ24K, PT-RZ17K           | 2.00 or later               |
| PT-REQ12, PT-REQ10, PT-REQ80 | 2.00 or later               |
| PT-REZ12, PT-REZ10, PT-REZ80 | 1.00 or later               |

(As of June 2023)

## Note

- This manual omits the alphabets at the end of projector model numbers.
- This product may support the projectors that are not described in the table. Confirm the “Operating Instructions” of the projector. The “Operating Instructions” can be found on the following URL.  
<https://panasonic.net/cns/projector/>
- The firmware version can be confirmed in the on-screen menu of the [PROJECTOR SETUP] menu → [STATUS].
- For the update procedure of the firmware, access the latest information regarding the firmware in the PASS website (<https://panasonic.net/cns/projector/pass/>). It is necessary to register and login to PASS\*1 to access the PASS website.

\*1 PASS: Panasonic Professional Display and Projector Technical Support Website

## Supported SFP module

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The 12G-SDI/3G-SDI/HD-SDI compatible optical fiber SFP module that is compliant with MSA (Multi-Source Agreement), and the optical fiber SFP module that the operation has been verified with the projector manufactured by Panasonic Connect Co., Ltd.

- Receiver (for receiving)
- Transmitter (for sending)
- Transceiver (for sending and receiving)

### Note

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- The SFP module is an extension module for converting optical signal to electric signal or electric signal to optical signal.
- Operation of the sending function is restricted depending on the port where the SFP module is installed.
- Prepare the commercially available SFP module and the optical fiber cable required for connection according to the usage, video signal to be input, specification of the external device to be connected, etc.
- The SFP module that the operation has been verified with the projector manufactured by Panasonic Connect Co., Ltd. can be confirmed from the following URL.

<https://panasonic.net/cns/projector/>

Confirmation of operation for SFP module from other manufacturer has been performed with the items set independently by Panasonic Connect Co., Ltd., and not all the operations are warranted. For operation or performance problems caused by the SFP module, contact the respective manufacturers.

## Handling of the product

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### ■ Do not touch the connector section of the Function Board directly with your hands

The component may be damaged by the static electricity. Before handle this product, remove the charge in the body by touching the surrounding metal, etc.

### ■ Do not look into the connector of the SFP module.

The SFP module to be installed on this product is a Class 1 laser product. Do not look into the SFP module or the connector of the optical fiber cable with the power of the projector turned on. Your eyes may be damaged when the laser goes into your eyes.

## Disposal

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

## Accessories

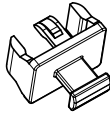
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Make sure that the following accessories are provided with the product. Numbers enclosed in < > show the number of accessories.

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### Port cover <2>

(DVHR1128ZA/X1)



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### Screw <2>

(XSB3+8FN)



(Attached to the product at the time  
of purchase)

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## Attention

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

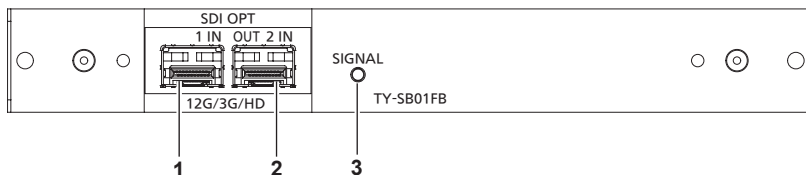
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## Note

- Supplied screws are spare parts. Use them when the screws to fix the slot cover of the projector are lost.
- The model numbers of accessories are subject to change without prior notice.

## Part names and functions



### 1 SFP port 1

This is the port to install the SFP module for receiving.

### 2 SFP port 2

This is the port to install the SFP module for sending and receiving.

### 3 Input indicator <SIGNAL>

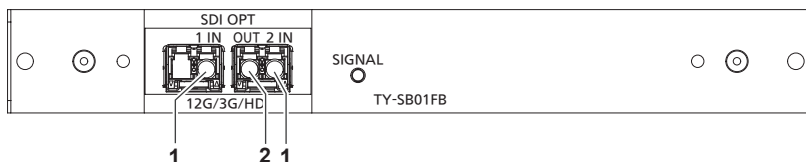
This is the indicator to indicate the detection state of the video signal. This is illuminated when input of the video signal is detected in either or both of the <SDI OPT 1 IN> terminal and the <SDI OPT 2 IN> terminal.

## Note

- The sending function of the SFP module for sending or for sending and receiving will not operate when it is installed in the SFP port 1.
- In addition to the SFP module for sending and receiving, the SFP module for receiving or for sending can be installed in the SFP port 2.

## ■ When the SFP modules are installed

This is an example when the SFP module for receiving (LC connector) is installed in the SFP port 1, and the SFP module for sending and receiving (LC connector) is installed in the SFP port 2.



### 1 <SDI OPT 1 IN> terminal/<SDI OPT 2 IN> terminal

These are terminals to input SDI signal (optical signal).

### 2 <SDI OPT OUT> terminal

This is an active through terminal to output the signal input to the <SDI OPT 1 IN> terminal/<SDI OPT 2 IN> terminal.

## Note

- The input signal to the <SDI OPT 1 IN> terminal or the <SDI OPT 2 IN> terminal that is selected for input is output from the <SDI OPT OUT> terminal.

# Installing the Function Board

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Requesting a qualified technician to install or remove the Function Board to the projector is recommended. A malfunction may occur due to static electricity. Consult your dealer.

## Before installing or removing the Function Board

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- Always turn off the power of the projector before installing or removing the Function Board.
  - When turning off the projector, make sure to follow the procedures described in the “Operating Instructions” of the projector.
- Do not touch the connector section of the Function Board directly with your hands.
  - The component may be damaged by the static electricity.
- Remove the static electricity from your body by touching to surrounding metal, etc., in advance to prevent the static electricity damage.
- Take care not to get injured when installing or removing the Function Board.
  - Hands may be injured by the opening of the empty slot of the projector, the edge of the bracket of the Function Board, socket of the SFP port, etc.
- When installing the Function Board to the slot, insert it into the connector straight and slowly.
  - It may not operate or cause malfunction if it is not correctly installed.
- The illustrations in the procedure are examples when installing the Function Board in PT-REZ12.



## How to install the Function Board

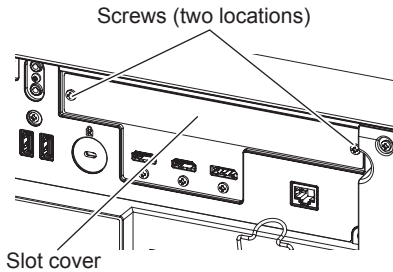


Fig.1

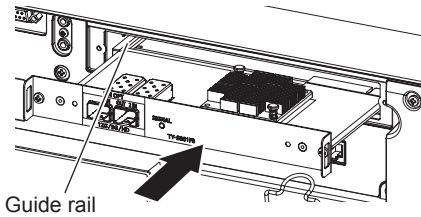


Fig.2

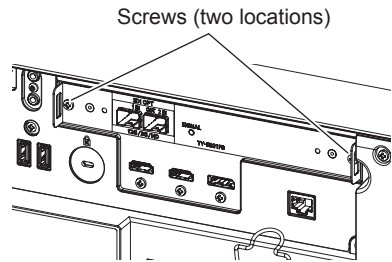


Fig.3

### 1) Remove the slot cover. (Fig. 1)

- Remove the two screws fixing the slot cover of the projector by rotating counterclockwise with a Phillips screwdriver. The removed screws are used to fix the Function Board.
- When removing the second screw, hold the slot cover with your hand so it will not fall.
- To replace from other Function Board, remove the Function Board following the procedure in “How to remove the Function Board” (➔ page 10).

### 2) Install the Function Board to the projector. (Fig. 2)

- Insert the Function Board along the groove of the guide rail at both sides inside the slot. Insert the bracket firmly all the way in.

### 3) Fix the Function Board. (Fig. 3)

- Tighten and fix with the two screws removed in Step 1).

### Attention

- The removed slot cover is required when the unnecessary Function Board is removed. Store it so it can be attached in the future.

## How to remove the Function Board

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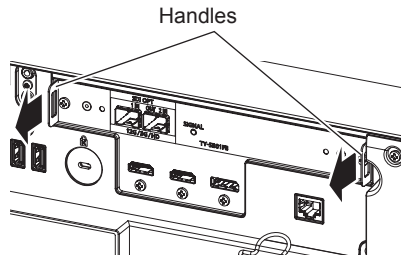


Fig.1

### 1) Remove the Function Board. (Fig. 1)

- Remove the two screws fixing the Function Board by rotating counterclockwise with a Phillips screwdriver. The removed screws are used to fix the slot cover.
- Hold the handle of the Function Board and remove it slowly.

### 2) Attach the slot cover.

- Attach the stored slot cover to the empty slot, and tighten and fix with the two screws removed in Step 1).

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### Attention

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- Always attach the slot cover on the empty slot.
- Store the removed Function Board inside an antistatic bag.

# Installing the SFP module

This section explains an example of a procedure to install and remove the SFP module. Please also check the operating instructions and setup guide of the SFP module to be installed.

## How to install the SFP module

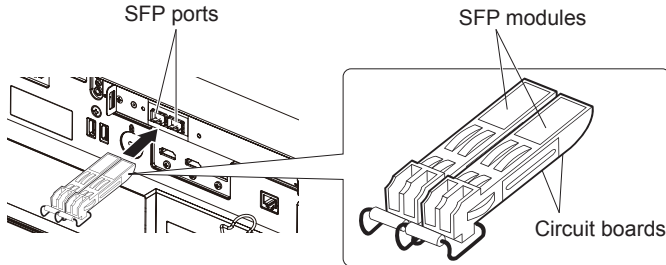


Fig.1

- 1) **Remove the port cover.**
  - Pull out the port cover of the SFP port.
- 2) **Install the SFP module to the SFP port. (Fig. 1)**
  - With the circuit board of the SFP module visible from the bottom, securely insert the SFP module all the way.
  - Remove the protection cap on the <SDI OPT 1 IN> terminal, <SDI OPT 2 IN> terminal, or <SDI OPT OUT> terminal, if there is any, before using.

### Attention

- The removed port cover and the protection cap will be needed in following cases. Store them so that they can be attached in the future.
  - When the SFP module not required anymore is removed
  - When there is a terminal not to be used
  - When storing the SFP module

## How to remove the SFP module

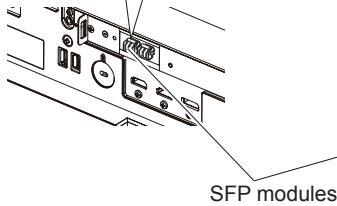
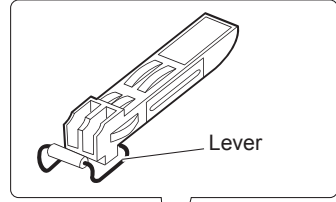
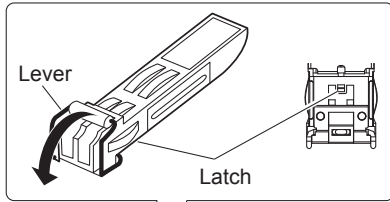


Fig.1

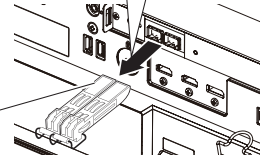


Fig.2

### 1) Disconnect the optical fiber cable.

- If the optical fiber cable is connected to the SFP module, remove the cable while releasing the latch of the optical fiber cable.

### 2) Release the latch of the SFP module. (Fig. 1)

- Pull down the lever on the SFP module to release the latch.

### 3) Remove the SFP module. (Fig. 2)

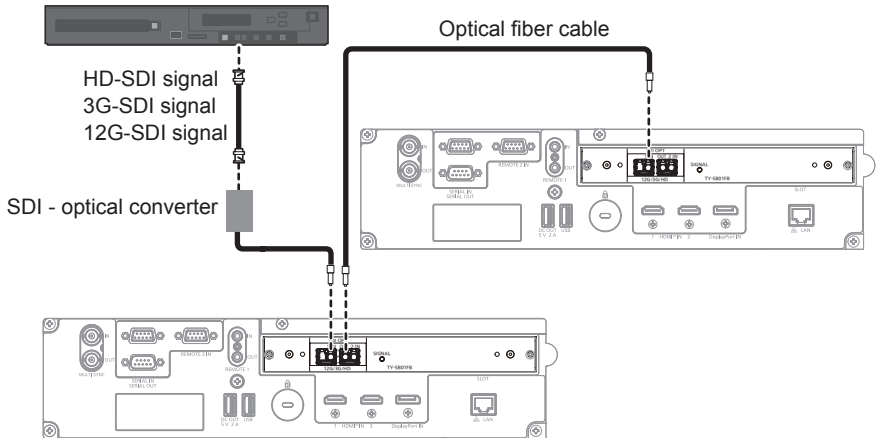
- Hold the lever and slowly pull out the SFP module.

### Attention

- Make sure to attach the port cover on the SFP port that the SFP module is not installed.
- Store the removed SFP module with the protection cap, etc., attached so that dust does not accumulate or the SFP module does not get dirty.

# Connecting example

12G-SDI signal output compatible device



## Note

- Prepare the commercially available SFP module and the optical fiber cable required for connection according to the usage, video signal to be input, specification of the external device to be connected, etc.
- The transmission distance may become shorter and the image may not display correctly when there is dust on the connector of the SFP module or optical fiber cable, or it is dirty. Attach the protection cap or cover supplied by each product to the connector of the SFP module or the optical fiber cable if the optical fiber cable is not connected.

# Specifications

|                             |               |  |
|-----------------------------|---------------|--|
| <b>Compatible slot</b>      |               | Intel® SDM specification   |
| <b>Connecting terminals</b> |               | Two SFP ports<br>MSA compliant   |
| <b>Compatible signal</b>    | <b>Input</b>  | <b>Single link HD-SDI signal</b> SMPTE ST 292 compliant<br><b>Single link 3G-SDI signal</b> SMPTE ST 424 compliant<br><b>Single link 12G-SDI signal</b> SMPTE ST 2082-1, 2082-10 compliant |
|                             | <b>Output</b> | The signal input to the <SDI OPT 1 IN> terminal or the <SDI OPT 2 IN> terminal is output from the <SDI OPT OUT> terminal (active through output).  |
| <b>Dimensions</b>           | <b>Width</b>  | 195 mm (7-11/16")  |
|                             | <b>Height</b> | 25 mm (31/32")   |
|                             | <b>Depth</b>  | 123.2 mm (4-27/32")  |
| <b>Weight</b>               |               | 200 g (7.1 ozs.)   |

## Note

- For the video signals supported by this Function Board, refer to the Operating Instructions of your projector.  
The video signal that the projector can actually display differs depending on the SFP module installed in the SFP port.  
The Operating Instructions of your projector can be found on the following URL.  
<https://panasonic.net/cns/projector/>

## Indication of the manufacturer and the importer with EU Directive requirements

|           |   |
|-----------|---|
| English   | <p><b>Manufactured by:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japan</p> <p><b>Importer:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Germany</p> <p><b>Authorized Representative in EU:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Germany</p>            |
| Български | <p><b>Производител:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Япония</p> <p><b>Вносител:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Германия</p> <p><b>Упълномощен представител в ЕС:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Германия</p>              |
| Čeština   | <p><b>Vyrobil:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japonsko</p> <p><b>Dovozce:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Německo</p> <p><b>Oprávněný zástupce v EU:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Německo</p>                          |
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|           |   |
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| Ελληνικά  | <p><b>Κατασκευάστηκε από:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Ιαπωνία</p> <p><b>Εισαγωγέας:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Γερμανία</p> <p><b>Εξουσιοδοτημένος αντιπρόσωπος στην ΕΕ:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Γερμανία</p> |
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| Hrvatski  | <p><b>Proizvodi:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japan</p> <p><b>Uvoznik:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Njemačka</p> <p><b>Ovlašteni zastupnik u EU-u:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Njemačka</p>                          |
| Íslenskur | <p><b>Framleitt af:</b> Panasonic Connect Co., Ltd.<br/>4-1-62, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan</p> <p><b>Innflytjandi:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Þýskalandi</p> <p><b>Viðurkenndur fulltrúi í ESB:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Þýskalandi</p>            |
| Italiano  | <p><b>Fabbricato da:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Giappone</p> <p><b>Importatore:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Germania</p> <p><b>Rappresentante autorizzato nell'UE:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Amburgo, Germania</p>       |
| Latviešu  | <p><b>Ražotājs:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japāna</p> <p><b>Importētājs:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Vācija</p> <p><b>Oficiālais pārstāvis ES:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Vācija</p>                             |



|                   |   |
|-------------------|---|
| <b>Lietuvių</b>   | <p><b>Gamintojas:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japonija</p> <p><b>Importuotojas:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Vokietija</p> <p><b>Igaliotasis atstovas ES:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburgas, Vokietija</p>           |
| <b>Magyar</b>     | <p><b>Gyártotta:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japán</p> <p><b>Importőr:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Németország</p> <p><b>Hivatalos képviselő az EU-ban:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Németország</p>            |
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| Slovenščina | <p><b>Proizvajala:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japonska</p> <p><b>Uvoznik:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Nemčija</p> <p><b>Pooblaščen zastopnik v EU:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hamburg, Nemčija</p>          |
| Suomi       | <p><b>Valmistaja:</b> Panasonic Connect Co., Ltd.<br/>4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japani</p> <p><b>Maahantuojaja:</b> Panasonic Connect Europe GmbH<br/>Hagenauer Strasse 43, 65203 Wiesbaden, Saksa</p> <p><b>Valtuutettu edustaja EU:ssa:</b> Panasonic Connect Europe GmbH<br/>Panasonic Testing Centre<br/>Winsbergring 15, 22525 Hampuri, Saksa</p>         |
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# MEMO

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**Manufactured by:**

Panasonic Connect Co., Ltd.

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

**Importer:**

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**Authorized Representative in EU:**

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Panasonic Testing Centre

Winsbergring 15, 22525 Hamburg, Germany

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**Product Information (for Turkey only)**

AEEE Yönetmeliğine Uygundur.

**Environment care information for users in China**

This symbol is only valid in China.

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# Panasonic Connect Co., Ltd.

Web Site : <https://panasonic.net/cns/projector/>

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