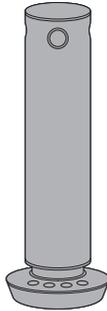


Panasonic[®]

Operating Instructions Functional Manual

360 degree camera speakerphone For business use

Model No. **TY-CSP1**



PressIT360

Thank you for purchasing the Panasonic product.

- Please read these instructions before operating this product and retain them for future reference.
- **Be sure to read “Safety Precautions” (page 2 to 3) before use.**

English

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WARNING:

Stop using the product immediately when an abnormality or malfunction occurs.

Remove the power plug in the case of an abnormality.

- Smoke is emitted, or abnormal smell or sound occurs.
- Video or audio is not reproduced in some cases.
- Liquid such as water or a foreign object has entered inside the product.
- The product is deformed or damaged.

Using the product in such states may cause a fire or electric shock.

- Remove the power plug from the outlet and request repair to the dealer where you purchased the product.
- It is necessary to remove the power plug to completely turn off the power of this product.
- Do not repair the product by the customer since it is dangerous.
- Use an outlet located at a position where the hand can reach easily so that the power plug can be removed quickly.

Do not insert foreign objects into the product.

Do not insert or drop metals or flammable items into the inside the product.

Doing so may cause a fire or electric shock.

- Keep an eye on children in particular.

■ About AC adaptor

Do not use an AC adaptor other than those supplied with this product.

Using an AC adaptor other than those supplied may cause an electric shock or fire due to short circuit or heat generation.

Clean the power plug periodically to prevent dust from accumulating.

Failure to do so may cause a fire or electric shock due to moisture.

- Remove the power plug and wipe it with dry cloth.

Do not insert or remove the power plug with wet hand.

Doing so may cause an electric shock.

Do not use the outlet or wiring devices exceeding rated values or with currents other than 100 – 240 V AC.

Using them exceeding rated values by connecting too many plugs in one outlet may cause a fire due to heat generation.

Insert the power plug securely to the end.

Insufficient insertion may cause a fire due to an electric shock or heat generation.

- Do not use the product with a damaged plug or loose outlet.

Do not damage the AC adaptor and power plug.

(by damaging, modifying, forcibly bending, twisting, pulling or bundling them, bringing them close to heat appliances, placing heavy items on them, etc.)

Doing so may cause a fire or electric shock due to short circuit or disconnection.

- Request the dealer for repair of the AC adaptor or power plug.

Do not use the product while touching it for a long time.

Touching the hot parts of the product and AC adaptor for a long time may cause a low-temperature burn*.

* Persons with poor bloodstream (due to vascular impairment, poor blood circulation, diabetes or strong compression) or poor skin sensitivity (elderly persons) tend to get a low-temperature burn.

Do not touch the product and AC adaptor if it begins to thunder.

Doing so may cause an electric shock.

Do not wet the product.

Doing so may cause a fire or electric shock.

Do not place the product on unstable locations.

Placing the product on a shaky table or an inclined location may cause an injury due to falling over or dropping.

Do not try to disassemble or modify the product.

CAUTION:

Do not place the product at a high-temperature location, humid or dusty location, or location subject to oil smoke or steam (such as a cooking table and humidifier).

Doing so may cause a fire or electric shock.

Do not drop the product or expose it to strong impacts.

Doing so may cause injury or fire.

When the product has been mounted on a tripod, do not move by holding this product.

The mounting parts can break due to the weight of the tripod and injury can result.

When removing the connection cables, be sure to hold the connector and pull it.

Pulling the cord may damage the cord, resulting in a fire due to an electric shock or short circuit.

When transferring the product, remove the connection cables of equipment beforehand.

Failure to do so may damage the cord or product, resulting in a fire or electric shock.

When not using the product for a prolonged period, remove the power plug from the outlet.

Dust may accumulate in the power plug, resulting in a fire or electric shock.

Do not pull or hang the connection cables.

Doing so may cause the product to fall over or drop, resulting in an injury.

- Keep an eye on children in particular.

■ Maintenance

For maintenance, remove the power plug from the outlet for safety.

Failure to do so may cause an electric shock.

Operating precautions

■ When transporting this product

Do not apply excessive vibrations or impacts during transport.

Doing so may damage the internal parts, resulting in a malfunction.

■ To ensure a stable performance in the long term

Using the unit for prolonged periods in locations where the temperature and humidity levels are high will cause its parts to deteriorate, resulting in a reduction of its service life.

(Recommended temperature: Max. 35 °C (95 °F))

Ensure that a cooling unit or heating unit will not blow any air directly toward the installation location.

■ Operating temperature range

Avoid using the unit in cold locations where the temperature drops below 0 °C (32 °F) or hot locations where the temperature rises above 40 °C (104 °F) since these temperatures downgrade the picture quality and adversely affect the internal parts.

■ When storing the unit

Store indoors in a dry location.

■ When the unit is not in use

Turn off the unit's power when it is not in use.

When the unit is no longer going to be used, do not leave it lying around, but be absolutely sure to dispose of it properly.

■ Do not touch the optical system parts.

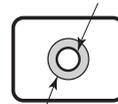
Under no circumstances must they be touched.

In the unlikely event that they have become dusty, remove the dust by using a camera blower or by wiping them gently with a lens cleaning paper.

■ Do not point the camera at strong lights.

When parts of the MOS sensor are exposed to spotlights or other strong lights, blooming (a phenomenon where the edges of strong lights become blurred) may occur.

Bright subject



Blooming

■ What happens with high-brightness subjects

Flare may occur if an extremely bright light source is pointed at the lens. In a case like this, change the angle or take some other remedial action.

■ Note regarding image distortion

Edges of the image will be distorted due to the characteristics of the lens.

■ Do not point the camera directly at the sun or a laser beam no matter whether it is turned on or not.

Taking images of the sun, laser beams, or other brightly lit subjects for prolonged periods of time may damage the CCD.

■ Keep the unit away from water.

Do not splash water onto the product. Otherwise, problems may occur.

■ Do not swing the main unit around.

■ It is not recommended to install upside down.

■ **Do not use at loud volumes over long periods. Also check that the volume on the PC is not too loud before connecting.**

There is a danger of hearing damage. Furthermore, the power turns on when you connect, and if a loud noise is emitted, there is a danger of hearing damage.

■ **Cleaning and maintenance**

Ensure that you unplug the AC adaptor from the outlet, then disconnect the power supply cable and the USB cable before proceeding.

Gently wipe the surface of the case by using a soft cloth to remove dirt.

- To remove stubborn dirt or fingerprints, dampen a cloth with diluted neutral detergent (1 part detergent to 100 parts water), wring out the cloth firmly, and then wipe away the dirt. Finally, wipe away all the moisture with a dry cloth.
- If water droplets get inside the unit, operating problems may result.

Usage of a chemical cloth

- Follow the instructions for the chemical cloth.

Avoid contact with volatile substances such as insect sprays, solvents and thinner.

- This may cause damage to the case or cause peeling of the paint. Furthermore, do not leave it in contact with a rubber or PVC substance for a long time.

Note when using alcohol

- Soak a small amount of alcohol at a concentration of 60 % or less in a soft cloth and wipe the housing. Then be sure to use a dry cloth to wipe it.

Note that wiping the housing with a hard cloth or rubbing it strongly may cause damage. Also, do not allow water droplets to enter the inside to prevent malfunction. Do not directly spray alcohol.

- Do not use antiseptic solutions other than alcohol.

■ **Disposal**

When disposing of the product, ask your local authority or dealer about the correct methods of disposal.

■ **Power for this product**

There is no power switch on this product.

Turn off the power as follows:

- When supplying power with the USB Type-C to USB Type-C cable
Hold the plug of the cable on the PC side to unplug first, then hold the plug on the product side to unplug.
- When supplying power with the AC adaptor
Unplug the AC adaptor first from the outlet, then hold the plug on the product side to unplug.

■ **Notice regarding security**

You can anticipate the following types of attacks when using this product:

- Unauthorized operation of the product by a malicious third party
- Blocking or stopping of the product by a malicious third party

Be sure to have sufficient security measures in place.

- Discard the product only after initializing the data.

Refer to "Factory default settings" (→ page 22) to restore the factory settings.

Accessories

Check that you have the accessories and items shown.

AC adaptor (DPVF4350ZA/X1)..... 1
(including 3 conversion plugs)

USB Type-C to USB Type-C cable
(Approx. 1.0 m) (DPVF4351ZA/X1) 1

USB Type-C to USB Type-A cable
(Approx. 1.8 m) (DPVF4352ZA/X1) 1

Attention

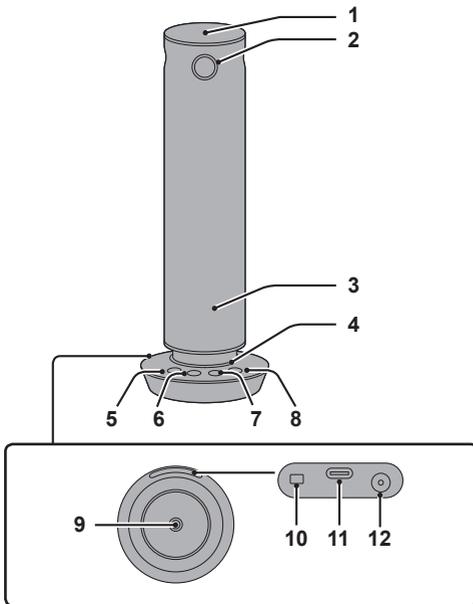
- Store small parts in an appropriate manner, and keep them away from young children.
- The part numbers of accessories are subject to change without notice.
(The actual part number may differ from the ones shown above.)
- In case you lost accessories, please purchase them from your dealer. (Available from the customer service)
- Dispose the packaging materials appropriately after taking out the items.

Note

- This product and the cables included do not support output of images and audio using the Alternate Mode.

Part Names

■ On the 360 degree camera speakerphone



1 Microphone

Attention

- Do not block the microphone hole as this may cause a reduction in performance.

2 Cameras (4 facing 4 directions)

3 Speaker

4 Indicator

5 Audio muting button

6 Speaker volume [-] button

7 Speaker volume [+] button

8 [Mode] button

9 Camera mounting screw hole (screw: 1/4-20UNC)

Used when mounting on a tripod, etc.

10 Security slot

You can connect a security cable that is compatible with Noble Wedge slots with mounting surfaces of 11 mm ϕ or less.

11 USB-C terminal

Outputs video and audio to the PC. It also receives power supplied from the Type-C interface of the Listed PC (5 V/3 A).

12 Power input terminal

Connect the AC adaptor.

Connection

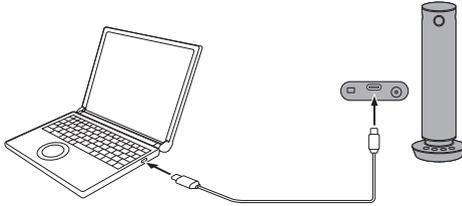
Carefully read the operating instructions of the PC to be connected to this product before connecting. Turn off the power of each device before connecting cables.

Connections with this product

1 Connect the PC and this product with the supplied USB cable.

■ When connecting via a USB Type-C port on a PC capable of supplying 5 V/3 A power

- Only the supplied USB Type-C to USB Type-C cable can be used.



USB Type-C to USB Type-C cable

Note

- When using only the USB Type-C to USB Type-C cable, volume output is limited compared to when the AC adaptor is used.

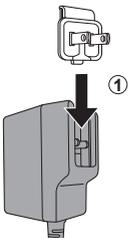
■ When other connections are used

Use the AC adaptor to supply power.

<Get the AC adaptor ready>

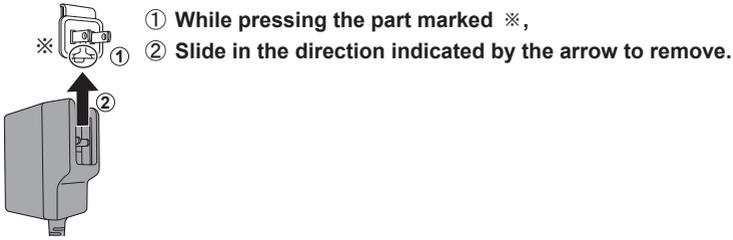
Use by inserting the conversion plug into the supplied AC adaptor.

▶ Use the conversion plug that suits your outlet's shape.



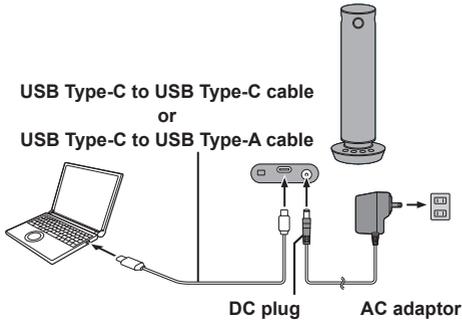
- ① Slide and press in the direction indicated by the arrow until you hear the click.

<How to remove the conversion plug>



Note

- Do not attempt to separate the AC adaptor and the conversion plug while plugged into the outlet.
 - Do not plug the conversion plug into the outlet on its own.
- ① Connect the DC plug of the AC adaptor to the power input terminal on this product, then plug the AC adaptor into the outlet.
 - ② Connect the PC to this product using the supplied USB cable.

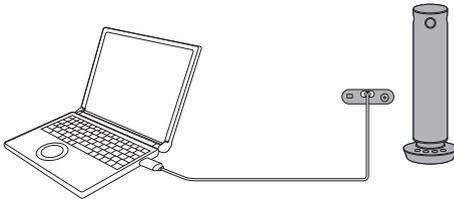


Note

- USB Type-C is labeled as “USB-C” on the main unit.

2 Start the online meeting application or camera application on your PC to show the video and play the audio from this product.

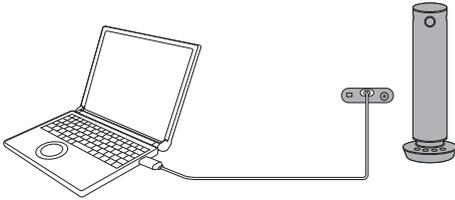
- For details on how to use this product with your online meeting application or camera application, refer to the operating instructions for the application.



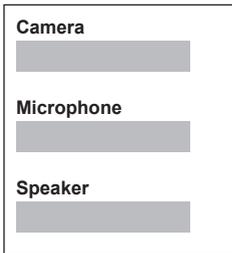
Configuring the applications on the PC

This section describes how to configure the online meeting application on your PC.

1 Connect this product to a PC. (→ page 8)



2 In the application, set this product as the camera, microphone, and speaker.



* Example configuration screen for your application

■ If this product does not appear as a choice

- Also connect the AC adaptor when connected only to the USB-C terminal.

3 Use the test feature of the application (if there is one) to run a test of the product's operations.

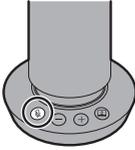
4 Start using the application after you have completed the test.

■ If the functions did not work properly when tested

- If the camera images are not output, see whether the camera muting function of the application is off.
- If sound is not output from the speaker, check whether the speaker volume is correct and if the speaker is on.
- If the microphone audio is not heard, see whether the microphone muting function of the application is off.

Operations with the buttons on the main unit

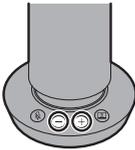
Muting the microphone



Muting is switched on or off each time you press [].

This works in conjunction with the muting features of some online meeting applications.

Adjusting speaker volume

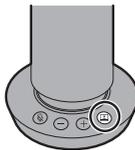


[−]: Lowers the volume.

[+]: Raises the volume.

This works in conjunction with the volume adjusting features of some operating systems and online meeting applications.

Changing the mode for displaying video



Press or press and hold [] to switch the video mode. (→ page 12)

Note

- The sound of the button press is linked to the volume of the speaker of the main unit.

Video display modes

Dual View



Use when you want to show the whole conference room, while making sure the facial expressions and voice of the speaker are clear.

- The focus shifts to the face of the person that has spoken. (to a maximum of 2 people)
- If a conversation is occurring between more than 2 people, the screen with a person who is not in the conversation is switched out.
- The 360 degree view of the room is shown constantly at the bottom of the screen.

Single View



Use when you want to show the face of the speaker at the maximum when conducting online meetings, etc., even if each screen is small.

- The view of the person currently speaking takes up the entire screen.
- When another person joins the conversation, the screen switches to show that speaker.

Multi View



Use when you want to enlarge the faces of the participants.

- The focus shifts to the people in the meeting room. (to a maximum of 4 people)
- If there are 4 or more people, the screen switches to people in the conversation.
- If there are 3 people or fewer, the screen is split into the same number as there are people.

Surround View

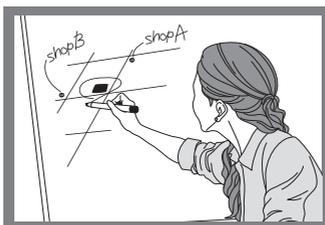


The 360 degree overall view is split into 2 screens of 180 degrees each.

Use when you want to show the expressions on the faces of all participants and give a feel for the atmosphere of the entire meeting room.

- There is no switching of the screens when people move or talk, so the entire 360 degree view is shown constantly.

Stable View



Use when you want to use the product as a web camera with a fixed position.

- The video from only one of the four camera screens is displayed. The video from the camera on the side with the buttons on this product is displayed.

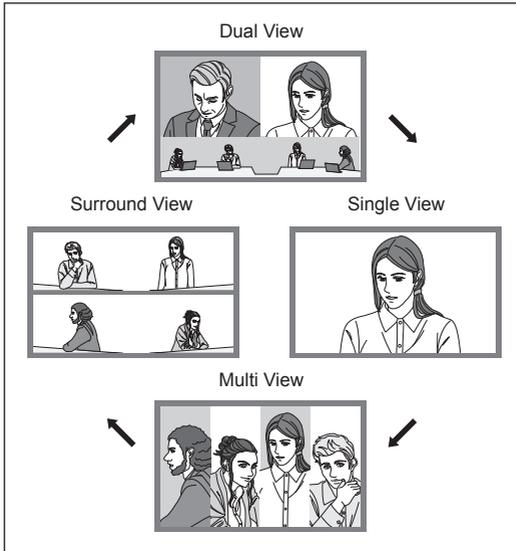
Transition of the display modes

When you press the [Mode] button, the modes transition in the order “Dual View” → “Single View” → “Multi View” → “Surround View”.

When you press and hold the [Mode] button for 3 seconds or more, the mode transitions to the “Stable View”.

Press the [Mode] button to cancel the “Stable View”.

Pressing the [Mode] button to switch modes



Pressing and holding the [Mode] button for 3 seconds or more



↓ ↑
Stable View

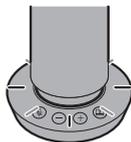
Pressing the [Mode] button



Indicator displays



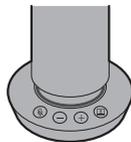
Preparing to start up
Red LED blinks
(Blinks about 10 times in 10 seconds)



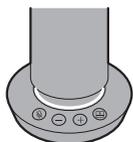
Updating firmware
Red LED blinks slowly
(Blinks about 5 times in 10 seconds)



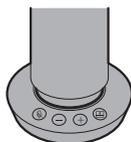
Device error
Red LED blinks rapidly
(Blinks about 20 times in 10 seconds)



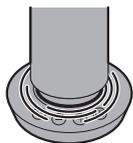
Normal circumstances (camera and
microphone on)
Green LED



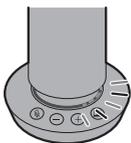
Camera off
White LED



Microphone is muted
Red LED



Camera off and microphone is muted
(Red LED circulates)



The gradation of the green LED changes only in the direction of the speaker's voice.

* This may not work in some modes.

Installation

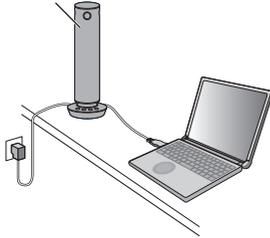
Installing on a table

Place this product on a flat, horizontal location.

Attention

- Install this product in a stable location where it will not be shaken. The video will shake if the location where the product is installed shakes.
- Take precautions to make sure the product does not fall and get damaged while you are installing it.
- Take care not to pull on the connected cables. This can cause the product to fall and may cause injury.

Take precautions to make sure the product does not fall.

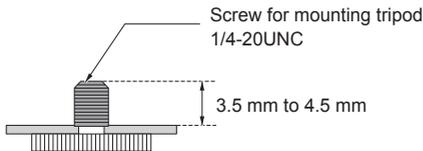


Mounting on a tripod

Mount the product on a tripod using the screw hole in the base of the product. Place the tripod on a flat, horizontal location.

Turn the screw to securely fix the tripod to this product.

Use a tripod that has a screw that meets the following specifications:



Attention

- Do not install the unit where people will be passing back and forth.
- When using the unit mounted on a tripod, do not put the tripod high above the floor level.
- Mount the unit securely so there is no looseness. Looseness can cause the unit to fall and may cause injury.
- When using over long periods, take precautions to prevent toppling or falling. Pack the product away as soon as you can after you have finished using it.

Notes on the application

Operations available with the PC application

The application in this product can perform the following tests and configurations, etc., when installed on a PC:

- Viewing the version on the main unit
- Displaying the video from the cameras
- Controlling the video (zooming in and out, moving up, down, left, and right)
 - * This may not work in some modes.
- Adjusting video quality
- Testing speaker operation
- Updating firmware of the main unit

Note

- The PC application is supported on the Microsoft Windows (Windows 10/Windows 11), and macOS operating systems.

Getting the installer

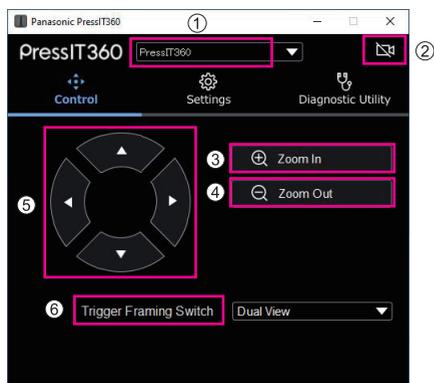
- 1 When you connect the product to a PC, “PressIT360” appears in the list of devices and drives.**
- 2 When you open the PressIT360 drive, the installer is saved to your PC.**
- 3 By running the installer, the PC application is installed on your PC.**

Note

- If there are cases where you are unable to access the product as a USB memory device, such as due to PC settings or security policies, etc., download the application from the following location:
<https://panasonic.net/cns/prodisplays/>

PressIT360 application

■ [Control] menu



- ① **PressIT360:** Displays the connected device name.
- ②  Displays the images from the cameras of the connected device.
- ③ **Zoom In:** Zooms in the camera images.
- ④ **Zoom Out:** Zooms out the camera images.
- ⑤  Adjusts the camera images vertically and horizontally.
- ⑥ **Trigger Framing Switch:** Changes the image display mode.

Note

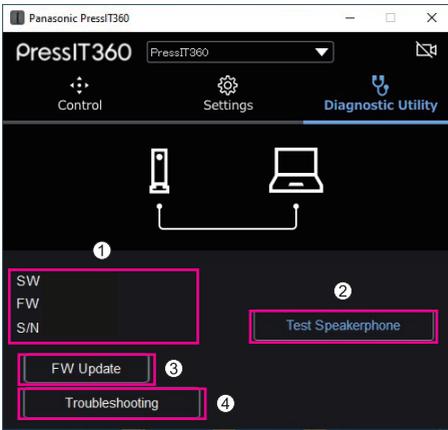
- Adjustment of the camera images and the zoom in and zoom out features work only on the camera image screen of this application.
- Adjustment of the camera images occurs only within the area being taken by the camera, and the area itself cannot be moved.

■ [Settings] menu



- ① **Brightness:** Sets the brightness.
Setting range: 0 to 10
- Contrast:** Sets the contrast.
Setting range: 0 to 10
- Sharpness:** Sets the sharpness.
Setting range: 0 to 6
- Saturation:** Sets the depth of color.
Setting range: 0 to 6
- Frequency:** Sets the image frequency.
Setting values: 50Hz / 60Hz
- Noise Suppression Value:** Sets the noise reduction value.
Setting range: 0 to 10
- Echo Cancellation:** Sets echo reduction.
Setting values: OFF / ON
- Keyboard Noise Suppression:** Sets keyboard sound reduction.
Setting values: OFF / ON
- ② **Factory Default:** [Factory Default] button
All setting values are initialized.
- ③ **Save:** [Save] button
Saves the setting values to the device.
- ④ **Cancel:** [Cancel] button
Cancels the current setting values.

■ [Diagnostic Utility] menu



- ① **SW:** Displays the version of the application.
- FW:** Displays the version of the connected device.
- S/N:** Displays the serial number of the connected device.

- ② **Test Speakerphone:** Tests operation of the speaker.
- ③ **FW Update:** Updates the firmware on the device.
(→ page 21)
- ④ **Troubleshooting:** Use this feature when a problem occurs.
Use only when directed by the dealer or manufacturer.
(This is not a feature for performing recovery when a problem occurs.)

Updating the firmware

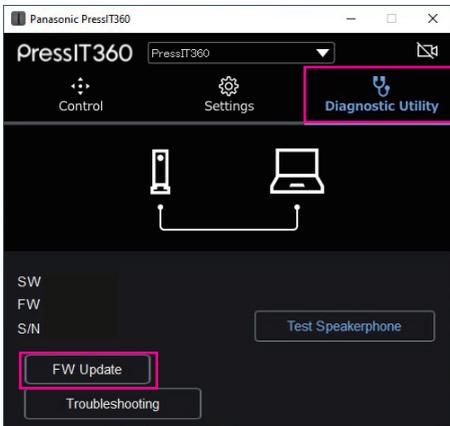
Update of the firmware on TY-CSP1 is done using the PC application (the PressIT360 application).

The most recent firmware file and the installer for the PressIT360 application are available on the website for the product, etc.

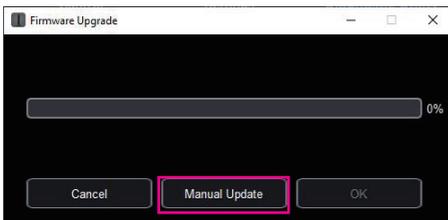
<https://panasonic.net/cns/prodisplays/>

Procedure for updating the firmware

- 1 Download the most recent firmware file and the installer for the PressIT360 application from the website for the product.
- 2 Install the PressIT360 application onto your PC.
- 3 Connect this product to the PC. Connect both the DC cable and the USB cable.
- 4 Run the PressIT360 application and select [Diagnostic Utility] → [FW Update].



- 5 Select [Manual Update] and select the firmware file you downloaded in Step 1.



Updating of the firmware starts.

Note

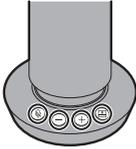
- Update of the firmware is supported only by the Windows version of the PressIT360 application.

Factory default settings

Restores the settings on the device to the factory default settings.

The following items are initialized.

- Display mode: Reverts to Dual View.
- Image quality setting values: All image quality setting values are initialized.



Press and hold all 4 buttons for 5 seconds or more.

- 1 Press and hold the [], [+], [-], and [] buttons simultaneously for 5 seconds or more.**
The LED blinks red.
- 2 Press the [+] button.**

Note

- While the LED is blinking red, if you press any button other than the [+] button or allow 30 seconds or more to elapse, the normal state is restored.

Specifications

■ Main unit

Model No.	TY-CSP1
Product name	360 degree camera speakerphone
Model No.	TY-CSP1
Imaging element	1/2.7" 5MP CMOS
Field of view	360(H) × 60(V)
USB video formats	UVC 1.5 1280 × 720 30fps or 1920 × 1080 30fps Motion JPEG
F number of the lens	2.5
Lens TTL	14.7 mm
Distortion	-14.9 %
Microphone	MEMS Microphone array
Number of microphones	7
Beam forming	Supported
Microphone sensitivity	-35 dBFS
S/N ratio	68.75 dBA
USB audio formats	UAC 1.0 PCM 16 bit
Speaker output	1.5 W (When supplying power from USB Type-C) or 3 W (When AC adaptor is connected)
Connection terminals	USB Type-C (Receptacle/USB2.0) DC plug 12 V/2 A
Power supply	USB Type-C (5 V/3 A) or AC adaptor DC 12 V/2 A
Power consumption (when outputting video)	11 W
Dimensions (Φ × H)	Φ64 mm × 285 mm/Φ2.52" × 11.23" (Operation base Φ100 mm (Φ3.94"))
Mass	950 g/2.1 lbs
Operating condition	Temperature: 0 °C to 40 °C (32 °F to 104 °F) Humidity: 20 % to 80 % (no condensation)
Usable altitude range	0 m to 2800 m/0 ft to 9186 ft

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Contact Information:

oss-cd-request@gg.jp.panasonic.com

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FCC STATEMENT

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 technician for help.

FCC CAUTION:

To assure continued compliance, follow the attached installation instructions and use only the provided power supply cord. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

Supplier's Declaration of Conformity

Model No.

TY-CSP1

Responsible Party:

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, New Jersey

07102-5490

Contact Source:

Panasonic Connect North America

1-877-655-2357

General Contact:

<http://shop.panasonic.com/support>

This device complies with Part 15 of the FCC Rules and all applicable IC RSS standards. 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.

Disposal of Old Equipment

Only for European Union and countries with recycling systems



This symbol on the products, packaging, and/or accompanying documents mean 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.

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Notice (U.S.A. only)

Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website:

<https://holdings.panasonic/global/corporate/sustainability.html>

or call 1-888-769-0149.

Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

Serial Number

Panasonic Connect North America

Unit of Panasonic Corporation of North America

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