Panasonic

System Controller
Operating Instructions

Model No. WV-CU550CJ

Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

CONTENTS

Caution:

Before attempting to connect or operate this product, please read the label on the bottom.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

SA 1966

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A

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

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The serial number of this product may be found on the bottom of the unit.
You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____WV-CU550CJ_____

Serial No. _____

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

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not use near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the points where they exit from the apparatus.

11) Only use attachments/accessories specified by the manufacturer.

12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-overs.

S3125A

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

ENGLISH

PREFACE

The WV-CU550CJ System Controller, when combined with the optional WJ-SX550C Matrix Switcher and WJ-AD550 Extension Unit, allows for flexible control of 128 cameras and 16 monitors.

When used in a system with either Receivers (WV-RC100 or WV-RC150) or with Panasonic's Combination cameras, the WV-CU550CJ can control camera functions such as zoom and focus and can also control accessory equipment such as Pan/Tilt Heads.

In addition, the WV-CU550CJ can control sequential switching in systems programmed from the Set Up Menu of the WJ-SX550C Matrix Switcher.

FEATURES

The WV-CU550CJ System Controller, when combined with the WJ-SX550C Matrix Switcher and WJ-AD550 Extension Unit, enables control of the following functions:
- Routing of up to 128 cameras to any one of 16 monitors
- Remote control of up to 128 cameras and auxiliary equipment by using optional receivers and accessories, including:
    1. Remote control of Pan-Tilt Head and Camera Housing
    2. Remote control of Motorized Zoom Lenses: Focus, Zoom and Iris
    3. Remote control of camera settings, including Electronic Sensitivity Enhancement, Electronic Shutter, Electronic Zoom, and more
- Selection of various sequence functions such as Program Sequence, Tour Sequence and Group Sequence

Additional features of the WV-CU550CJ include:
- Up to 8 WV-CU550CJ System Controllers can be connected in a system by using standard RS-485 shielded 4-wire twisted pair cable. Can also be combined with standard communication media such as modems, fiber optics and microwave.
- Ergonomic design reduces the number of switches to only those with common functions. Secondary functions are accessed through function keys.
- Single-handed control of pan/tilt, zoom, and auto focus functions

PRECAUTIONS

• **Refer all work related to the installation of this product to qualified service personnel or system installers.**

• **Do not attempt to disassemble the appliance.**
To prevent electric shock, do not remove screws or covers.
There are no user-serviceable parts inside. Contact qualified service personnel for maintenance.

• **Handle the appliance with care.**
Do not strike or shake it, as this may damage the appliance.

• **Do not expose the appliance to water or moisture, nor try to operate it in wet areas.**
Take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture may damage the appliance and also cause electric shock.

• **Do not use strong or abrasive detergents when cleaning the appliance body.**
Use a dry cloth to clean the appliance when it is dirty. When the dirt is hard to remove, use a mild detergent and wipe gently.

• **Do not operate the appliance beyond its specified temperature, humidity or power source ratings.**
Use the appliance at temperatures within –10 °C to +50 °C (14 °F to 122 °F) and a humidity below 90 %. The input power source for this appliance is 120 V AC 60 Hz.

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS

■ Front View
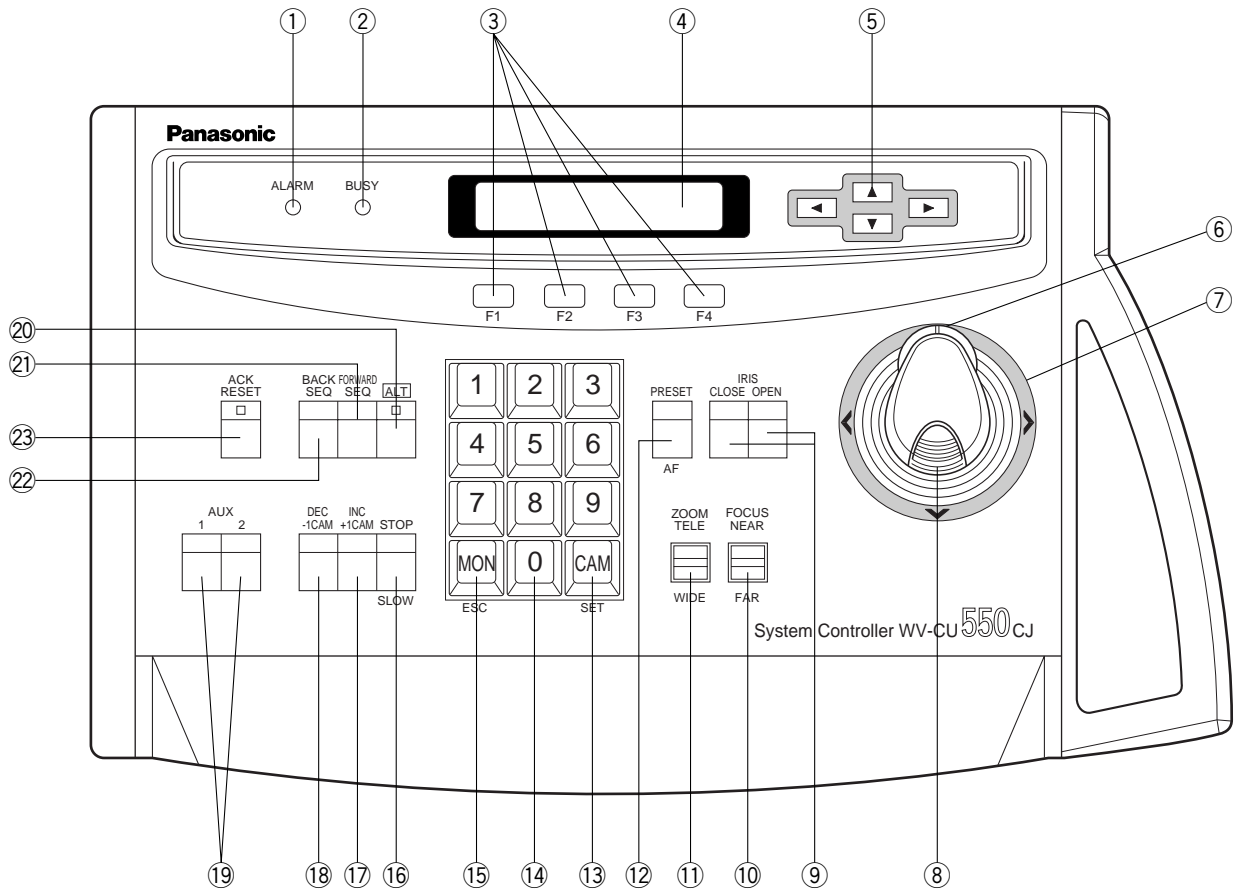
■ Rear View
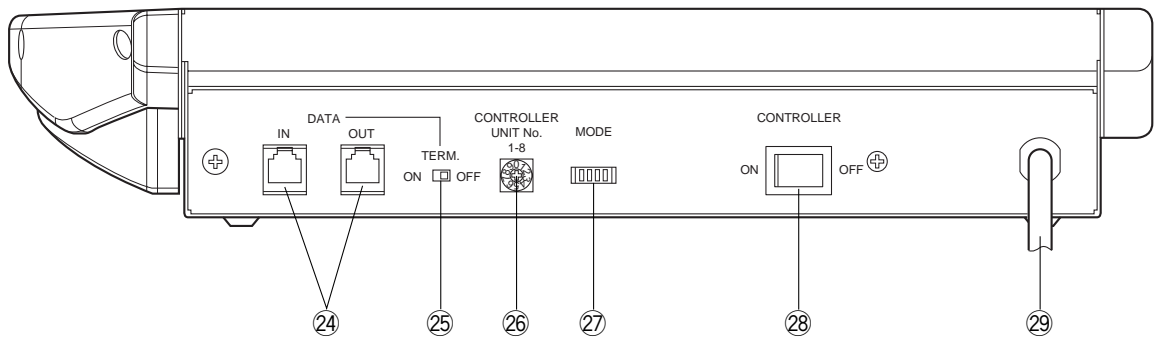
① **Alarm Indicator (ALARM)**
Blinks to indicate that an alarm condition exists.
It changes to steady light when the alarm is reset automatically.
To turn the indicator off, press the ACK RESET button.

② **Busy Indicator (BUSY)**
Lights up when you attempt to control a monitor or a camera that is already used by a higher priority operator, or when the higher priority operator selects the monitor or camera you are currently operating.
Operations from the System Controller are disabled until this indicator goes off.

③ **Function Buttons (F1/F2/F3/F4)**
Select functions displayed on the LCD (Liquid Crystal Display) display.

④ **LCD (Liquid Crystal Display) Display**
Displays function menus, numeric input, and system status.

⑤ **Direction Buttons (◄, ►, ▲, ▼)**
Select a function menu for display on the LCD display.

⑥ **Zoom Wheel Controller**
This control is used for zooming cameras equipped with the specified lens. Moving the control to the right will zoom in the image. Moving the control to the left will zoom out the image.

⑦ **Joystick Controller (UP/DOWN/LEFT/RIGHT)**
The joystick is used to manually operate the Pan/Tilt Head, or move the cursor in the Matrix Switcher's Setup Menu on the active monitor screen.

⑧ **Top Button**
Pressing this button will automatically set the lens focus of a specified camera.

⑨ **Iris Control Buttons (IRIS CLOSE, OPEN)**
Close or open the lens iris of cameras equipped with the specified lens.
When these buttons are pressed at the sometime for 3 seconds or more, the lens iris is reset to the factory default setting.

⑩ **Focus Control (FOCUS NEAR/FAR)**
Adjust the lens focus of cameras equipped with the specified lens.

⑪ **Zoom Control (ZOOM TELE/WIDE)**
This control is used for zooming cameras equipped with the specified lens.

⑫ **Preset Button (PRESET)**
Auto Focus Button (AF)
PRESET: This button, in combination with the Numeric keys, is used to move the selected camera to a preset position in a system equipped with the specified cameras.

AF: Pressing this button will automatically set the lens focus of a specified camera.

⑬ **Camera (Set) Key [CAM (SET)]**
CAM: Used for camera selection. To select a camera, enter the desired camera number with the Numeric keys, and then press the CAM key.

SET: This key, in combination with the Numeric keys, is used to enter numeric input, such as operator ID and password.
It is also used to execute the currently highlighted selection and to enter a submenu in the Setup Menu of the Matrix Switcher.

⑭ **Numeric Keys (0 to 9)**
These keys are used for numeric input into the system, such as the camera and monitor number, sequence number, preset position, etc.

⑮ **Monitor (Escape) Key [MON (ESC)]**
MON: This key is used to select a monitor.
To select a monitor, press the corresponding Numeric keys, followed by the MON key.

ESC: This key is used to escape from the currently highlighted selection on the Setup Menu of the Matrix Switcher.

Pressing this key, while the Alternate (ALT) indicator is on, will display the video that is connected to the Monitor Input (MONITOR IN) Connector on the WV-PB5504A Video Output Board.

⑯ **Stop/Slow Button (STOP/SLOW)**
STOP: Pauses a sequence that is being run on the active monitor.

SLOW: For fine pan/tilt control, move the joystick while holding down the SLOW button.

⑰ **Increment Button (INC +1CAM)**
When a sequence running in forward direction has been paused with the STOP button, pressing this button will move the sequence one frame to the next step (in forward run direction). If the sequence was running in reverse direction, the button will move the sequence one frame to the next step (in reverse run direction).
This button is also used to select a camera. Pressing this button will replace the currently selected camera with the next higher camera number, if the active monitor is in Spot mode.

⑱ **Decrement Button (DEC –1CAM)**

When a sequence running in forward direction has been paused with the STOP button, pressing this button will move the sequence one frame to the previous step (in forward run direction). If the sequence was running in reverse direction, the button will move the sequence one frame to the previous step (in reverse run direction).

This button is also used to select a camera. Pressing this button will replace the currently selected camera with the next lower camera number, if the active monitor is in Spot mode.

⑲ **Auxiliary Button (AUX 1, 2)**

These buttons toggle the auxiliary switches in the Receiver on and off.

The auxiliary switches can be used, for example, to activate equipment connected to the receiver, such as lamps and buzzers.

⑳ **Alternate Button (ALT)**

This button activates the alternate function of dual-function control buttons.

㉑ **Forward Sequence Button (FORWARD SEQ)**

This button is used to run a selected Program or Tour Sequence in forward direction on the active monitor.

It also restarts a sequence forward from the step that was previously paused by pressing the Stop button.

㉒ **Backward Sequence Button (BACK SEQ)**

This button is used to restart a sequence backward from the step that was previously paused by pressing the Stop button.

㉓ **Alarm Acknowledge and Reset Button (ACK RESET)**

This button cancels an activated alarm. To cancel an alarm, first select the alarmed monitor(s), then press the ACK RESET button once for alarm acknowledgment (the indicator on the button blinks rapidly), and finally press it again for alarm reset (the indicator goes off).

After an alarm acknowledgment, pressing this button while the Alternate (ALT) indicator is on will cancel all currently activated alarms at the same time.

㉔ **Data Ports (DATA IN, OUT)**

Exchanges control data with the WJ-SX550C Matrix Switcher in a system.

㉕ **Termination Switch (TERM ON/OFF)**

This switch enables termination of the controller's data port.

㉖ **Controller Unit Number Switch (CONTROLLER UNIT NO.)**

This switch is used to identify the unit number of the System Controller in multiple system controller applications. Up to eight controllers can be installed in a system.

㉗ **Mode Selection Switch (MODE)**

These switches are used to set the mode of the System Controller connected to the Matrix Switcher. Set the switches as shown below.

	MODE
Normal Mode	ON 1　2　3　4
CAM-P Mode	ON 1　2　3　4
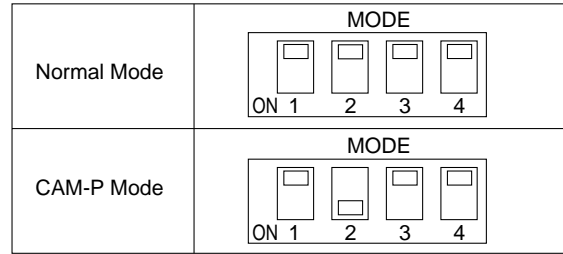
㉘ **Controller On/Off Switch (CONTROLLER ON/OFF)**

This switch is used to turn the WV-CU550CJ system controller power on and off.

㉙ **Power Cord**

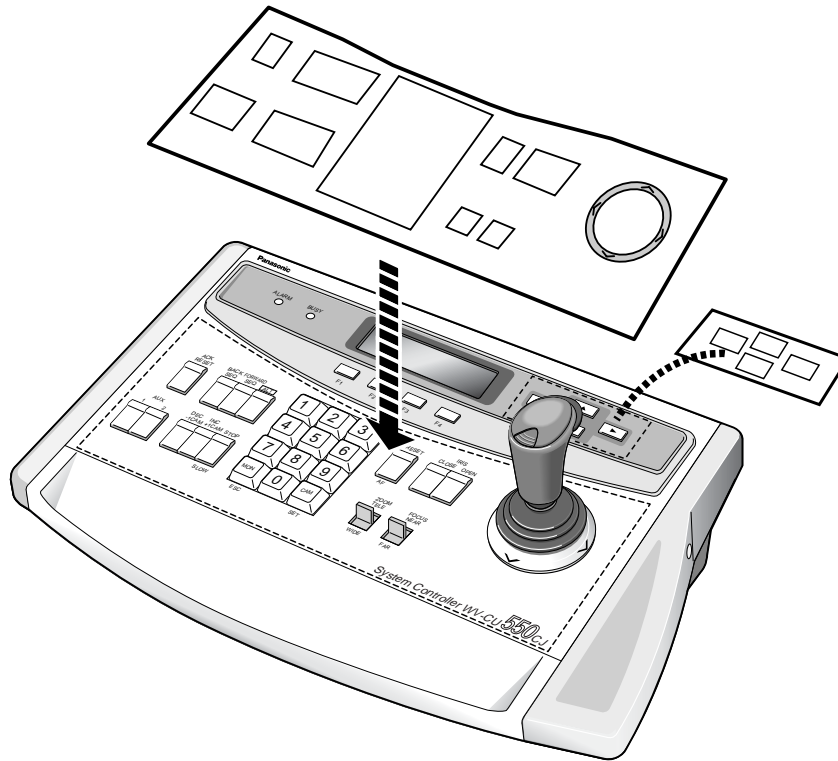––––––––––––––––– **NOTE** –––––––––––––––––

Refer to the Operating Instructions of the WJ-SX550C Matrix Switcher for further details.

INSTALLATION

■ System Controller for the WJ-FS616 Series Video Multiplexer

When combined this System Controller with the optional WJ-FS616 Series Video Multiplexer, place the display sheets and label on the controller shown below.
Refer to the Operating Instructions of WJ-FS616 Series for further details.

**Note:** Locate the System Controller in a level place.

Please note that the following functions were added to improve the operation of the combination cameras.

■ **Additions**

● **Selection of Pan/Tilt Speed**

The Pan/Tilt speed can be changed by selecting a mode in the menu (A1) displayed on the LCD display of the controller.

1. Select the desired monitor and camera.

```
Camera  cc        A1
Monitor mm ▪SLW □FST
```

```
 ⬜      ⬜      ⬜      ⬜
 F1      F2      F3      F4
```
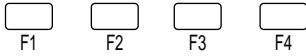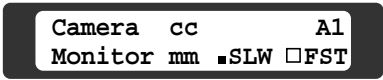
2. Select a mode by pressing the F3 or F4 button. "❏" indicates the currently selected mode.

   SLW: Moves the Pan/Tilt Head at lower speed.
   FST: Moves the Pan/Tilt Head at higher speed.

3. Move the Joystick to move the Pan/Tilt Head in the desired direction.

   Note: Changing the Pan/Tilt speed by pressing the STOP/SLOW button is enabled only when FST mode is selected.

The above function is available in a system that includes the following equipment:

WJ-SX550 Series   Matrix Switcher
                          CPU   Ver. 6.00 or later
                          Control Ver. 6.00 or later
WV-PB5548   Data Board   Ver. 6.00 or later

■ **Version Information**

● **WJ-SX550 Series Matrix Switcher**

The onscreen display indicates the version in "Cold Start" or "Normal Start" during the power up procedure.

```
Matrix Switcher

Model WJ-SX550C

"Normal Start"
```

CPU Board SW.	Position
Unit No.	01
Video	NTSC
Character Type	1
VD/VS	VS

ROM	Ver.
CPU	X.XX
Control	X.XX
Alarm No.1	X.XX
Output No.1	X.XX
RS-485 No.1	X.XX

Note: x.xx is a version number.

SPECIFICATIONS

Power Supply: 120 V, AC 60 Hz
Power Consumption: Approx. 4 W
Data Input/Output: 6-conductor Modular Jack (RS-485, 4-wire)
Switching Functions: Program Sequence/Tour Sequence
                                        Group Sequence/Backward Sequence
                                        Forward Sequence/Inc Dec
Camera Functions: Electronic Shutter: On/Off, Shutter Speed Select
                                        Electronic Sensitivity Up Mode Select: Auto/Manual/Off
                                        Electronic Zoom: On/Off, Zoom Position: Area Select
                                        Back Light Compensation: Auto/Preset/Off
Lens Functions: Iris: Open/Close/Preset (only with DC control lens)
                                        Focus: Near/Far
                                        Zoom: Tele/Wide
                                        Auto Focus: Activate
Housing: Wiper: On/Off, Defroster: On/Off, Camera: On/Off
Pan/Tilt: Manual Pan: Right/Left, Manual Tilt: Up/Down
                                        Auto Pan: On/Off, Random Pan: On/Off, Preset, Home
Auxiliary Switch: AUX 1 and 2: On/Off
Unit Number: 1 to 8
Ambient Operating Temperature: −10 °C to +50 °C (14 °F to 122 °F)
Ambient Operating Humidity: Less than 90 %
Dimensions: 370 mm (W) x 129 mm (H) x 221 mm (D)
                                        [14-9/16" (W) x 5-1/8" (H) x 8-11/16" (D)]
Weight: 2.2 kg (4.8 lbs.)

Weight and dimensions indicated are approximate.
Specifications are subject to change without notice.

STANDARD ACCESSORY

Data Cable 3 m (9.8 ft.) .... 1 pc.
Templates For WJ-FS616 ....1 set

MAJOR OPTIONAL UNITS AND ACCESSORIES

Matrix Switcher WJ-SX550C
Extension Unit WJ-AD550
Video Input Board WV-PB5508
Video Output Board WV-PB5504A
Alarm Input Board WV-PB5564
Data Board WV-PB5548
Blank Panel WV-Q63

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