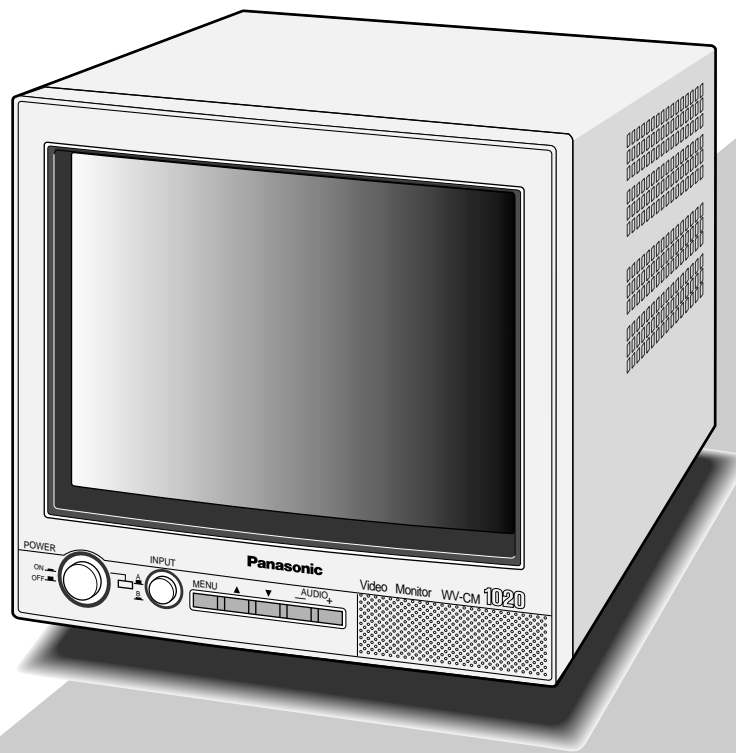


Panasonic

Video Monitor Operating Instructions Model No. WV-CM1020





ENGLISH

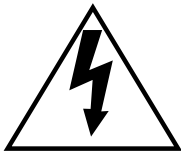
FRANÇAIS

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

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 <div style="display: inline-block; text-align: center; border: 1px solid black; padding: 2px;"> CAUTION <small>RISK OF ELECTRIC SHOCK DO NOT OPEN</small> </div> 
<p>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.</p>



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.

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

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 rear 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. _____

Serial No. _____

PREFACE

The Panasonic's Video Monitor WV-CM1020 produces sharp color pictures and audio output.

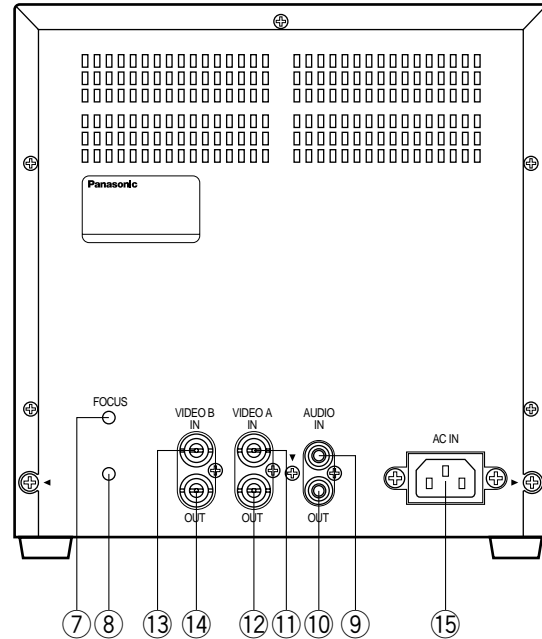
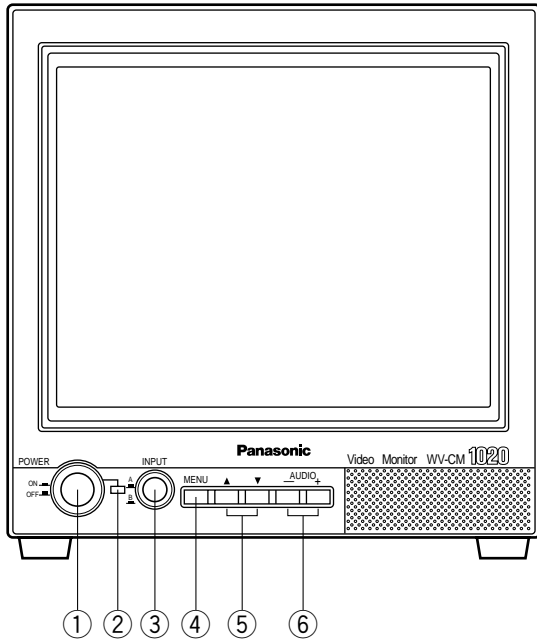
FEATURES

- Approx. 223 mm (8-3/4" inches) actual diagonal visual size.
- A or B channel selectable for input and output signals.
- Looped through BNC connectors for video inputs and outputs.
- Operations controlled by moving the cursor in the setup menu.
- Automatic frequency control activated from setup menu.
- Looped through RCA connectors for audio input and output.
- Maximum 0.5 W speaker output.
- For mounting in optional 19" rack with adapter WV-Q52A (up to two monitors).

PRECAUTIONS

- Do not block the ventilation slots.
- Place the video monitor at least 5 cm (2 inches) apart from the wall.
- Do not expose the monitor to water or moisture.
- Do not operate the monitor if it becomes wet.
- Take immediate action if ever the monitor becomes wet. Turn power off and refer servicing to qualified service personnel. Moisture can damage the monitor and also create the danger of electric shock.
- Do not drop metallic parts through slots. This action could permanently damage the monitor. Turn power off immediately and refer servicing to qualified service personnel.
- Do not attempt to disassemble the monitor. To prevent electric shock, do not remove screws or cover. There are no user serviceable parts inside. Refer servicing to qualified service personnel.
- Do not use the monitor beyond its temperature, humidity or power source ratings.
 - a) Ambient temperature must not range beyond -10°C - $+50^{\circ}\text{C}$ (14°F - 122°F).
 - b) Avoid using the monitor when humidity is above 90 %.
 - c) The input power must be 120 V AC.
- Do not stack two or more sets.
If more than one monitor is used, place them not less than 5 cm apart. Otherwise, the monitors may produce noise on the display screen.

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



① **Power Switch (POWER, ON/OFF)**

This is a push-push type switch which turns the power of this monitor on and off.
 Press once (switch remains down (▬)) to turn on the power of the monitor.
 Press again (switch comes up (▬)) to turn off the power of the monitor.

Note: There may be a delay of several seconds until the monitor display comes on.

② **Power Indicator**

Is on when the monitor's power is turned on.

③ **Input Signal Select Switch (INPUT A/B)**

This is a push-push type switch which selects the signal input A or B.
 Press once (switch remains down (▬)) to select the INPUT B signal.
 Press again (switch comes up (▬)) to select the INPUT A signal.

④ **Menu Button (MENU)**

Press to display the setup menu.

⑤ **Cursor Buttons (▲, ▼)**

Press these buttons to select a parameter by moving the cursor up or down in the parameter rows.

⑥ **Increment/Decrement Buttons (AUDIO -, +)**

- Setup screen adjustment (Menu displayed)
 Press these buttons to adjust the level of an item selected in the setup menu.

Note: If you select NORMAL SETTING in the Setup menu, and press the Increment/Decrement button (-) or (+), all menu parameters will be restored to the factory default settings.

- Audio adjustment (Menu not displayed)
 Press these buttons to increase or decrease the sound volume.

⑦ **Focus Control (FOCUS)**

This control adjusts the screen focus.

⑧ **Screen Control**

This control is preset at the factory.

⑨ **Audio Input Connector (AUDIO IN)**

For input of audio signal from an outboard device.

⑩ **Audio Output Connector (AUDIO OUT)**

The audio input signal connected to the audio input connector ⑨ is looped through to this connector.

- ⑪ **Video A input Connector (VIDEO A IN)**
For input of the NTSC composite video signal from an outboard device.
- ⑫ **Video A output Connector (VIDEO A OUT)**
The video input signal connected to the video input connector ⑪ is looped through to this connector and terminated automatically.
- ⑬ **Video B input Connector (VIDEO B IN)**
For input of the NTSC composite video signal from an outboard device.

- ⑭ **Video B output Connector (VIDEO B OUT)**
The video input signal connected to the video input connector ⑬ is looped through to this connector and terminated automatically.
- ⑮ **AC Connector (AC IN)**
Connector for AC power supply cord.

CABLE INFORMATION

■ Power Cable

1. Keep the Power Switch ① in the OFF position during installation.
2. Connect the Power Cord to a grounded electrical outlet.

- Never crush or pinch the cable. This will change the impedance of the cable and cause poor picture quality.

Recommended maximum cable length

■ Video Cable

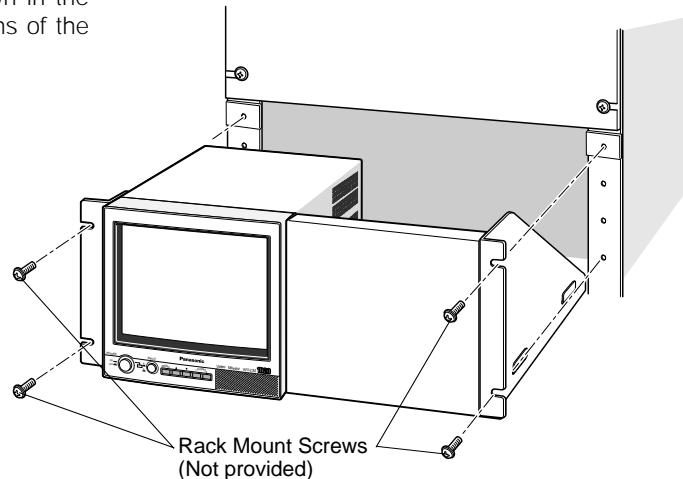
1. Use RG-59/U (3C-2V), RG-6/U (5C-2V), RG-11/U (7C-2V) or RG-15/U (10C-2V) coaxial cable.
2. Wiring Precautions:
 - Do not bend a coaxial cable into a curve whose radius is smaller than 10 times its diameter.

Cable	RG-59/U (3C-2V)	RG-6/U (5C-2V)	RG-11/U (7C-2V)	RG-15/U (10C-2V)
Recommended maximum cable length	250 m (825 ft)	500 m (1 650 ft)	600 m (1 980 ft)	800 m (2 650 ft)

INSTALLATIONS

■ Mounting in the Rack

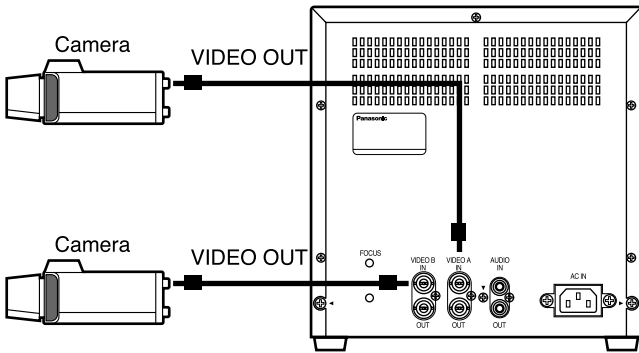
This monitor can be mounted in the rack as shown in the figure. For more information, refer to the instructions of the Rack Mount Bracket WV-Q52A.



SYSTEM CONNECTION

■ Single Monitor Connection

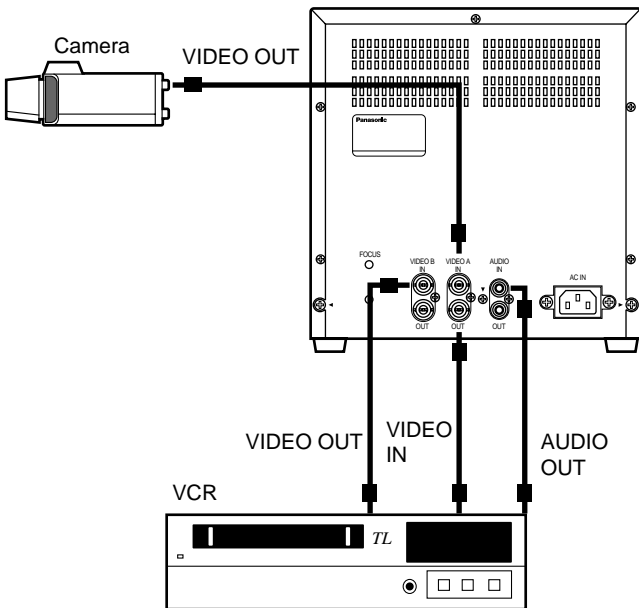
● Connecting Cameras



1. Connect the Video Output terminal of the camera to the Video Input Connector A or B of the monitor with a 75-ohm coaxial cable.

Note: Keep the Power Switch in the OFF position before connecting the camera.

● Connecting VCR



● Recording on the VCR

Connect the Video Output terminal A or B of the camera, to the Video Input Connector of the VCR with a 75-ohm coaxial cable.

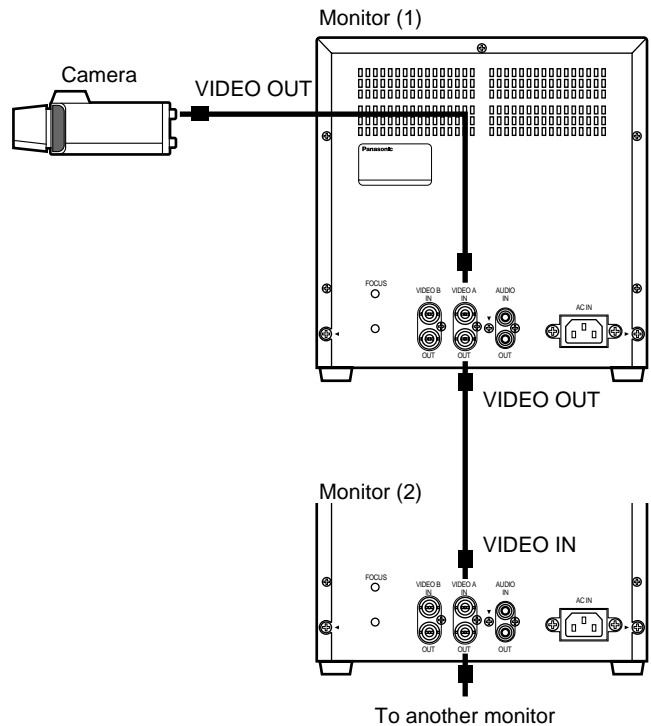
● Monitoring the Playback picture

Connect the Video Input terminal A or B of the monitor to the Video Output Connector of the VCR with a 75-ohm coaxial cable.

● Monitoring the sound

Connect the Audio Out Terminal of VCR to the Audio Input Connector of the monitor.

● Multiple Monitor Connection



1. Connect the Video Output of the camera or the VCR to the Video Input of monitor 1 with 75-ohm a coaxial cable.
2. Connect the Video Output of the monitor 1 to the Video Input of the monitor 2 with 75-ohm coaxial cable.

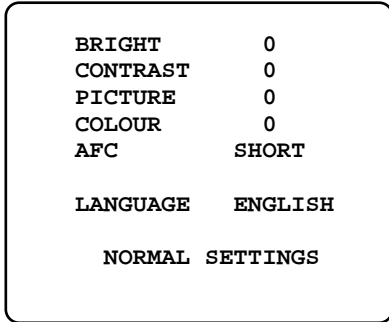
Notes:

- Automatic termination will not function, if the connections are not correct.
- Up to 10 monitors can be hooked up in this configuration before signal loss occurs. Total cable length should not exceed 150 m (500 feet).

ADVANCED CONTROL OPERATION

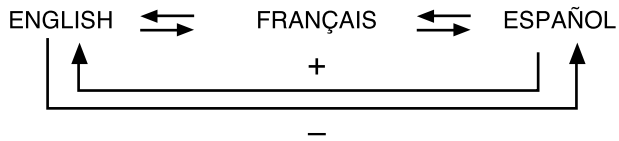
■ Displaying the Setup Menu

1. Press the power switch once (switch remains down (—)) to turn on the power of the monitor.
2. Power Indicator is on.
3. Select the input channel by pressing the input signal select switch.
Press the **MENU** button to open the setup menu.
It will close automatically if no operation takes place within about 10 seconds.



■ Adjustment

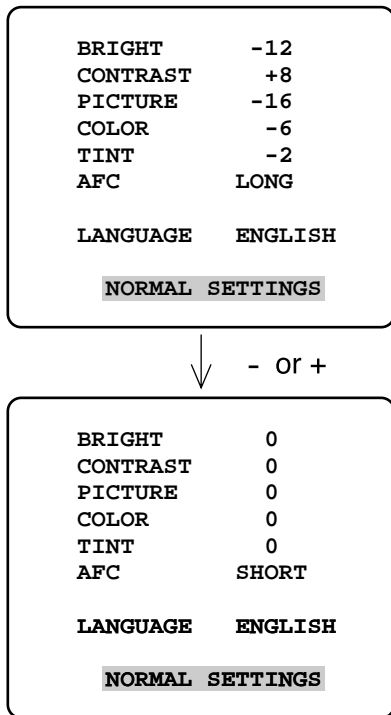
4. Move the cursor to LANGUAGE by pressing the (▲) or (▼) button.
5. Select the desired LANGUAGE parameter by pressing the (-) or (+) button. Pressing the button will toggle the language of the setup menu as shown below.



6. Move the cursor to BRIGHT, CONTRAST, PICTURE, COLOR, TINT or AFC by pressing the (▲) or (▼) button, then adjust the level of the selected item by pressing the (-) or (+) button.
While the level of an item is being adjusted, the indicator displays the changed level as shown below.

Item	Effect	Indicator
BRIGHT	<input type="checkbox"/> <input type="checkbox"/> Darker Brighter	BRIGHT 20
CONTRAST	<input type="checkbox"/> <input type="checkbox"/> Less More	CONTRAST 20
PICTURE	<input type="checkbox"/> <input type="checkbox"/> Soft Sharp	PICTURE 20
COLOR	<input type="checkbox"/> <input type="checkbox"/> Less More	COLOR 20
TINT	<input type="checkbox"/> <input type="checkbox"/> Greenish Reddish	TINT 20
AFC	<input type="checkbox"/> <input type="checkbox"/> Short Long	

7. To reset the monitor to the default settings, move the cursor to **NORMAL SETTINGS** by pressing the (▲) or (▼) button. Then press the (-) or (+) button to restore the factory default settings.



8. To exit the setup display, press the Menu button or wait for about 10 seconds until it closes automatically.

SPECIFICATIONS

Power Source	: 120 V AC 60 Hz
Power Consumption	: Approx. 48 W
Screen Size	: 250 mm (9-13/16") diagonal tube screen size, 90° deflection 223 mm (8-3/4") diagonal actual visual size
Horizontal Resolution	: 300 TV lines at center
Video Input	: 1.0 V[p-p] composite/75 Ω, BNC with Auto Termination
Audio Input	: -8 dB/Hi-z, RCA standard jack
Speaker Output	: 0.5 W
Sweep Linearity	: Horizontal: Less than 5 % Vertical: Less than 5%
Sweep Geometry	: Less than 2 %
Ambient Operating Humidity	: Less than 90 %
Ambient Operating Temperature	: -10°C - +50°C (14°F - 122°F)
Dimensions	: 220(W) x 220 (H) x 309(D)mm [8-11/16"(W) x 8-11/16"(H) x 12-3/16"(D)]
Weight	: 6.5 kg (14.3 lbs.)

Weights and dimensions shown are approximate.
Specifications are subject to change without notice.

OPTIONAL ACCESSORY

Rack Mount Bracket WV-Q52A

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