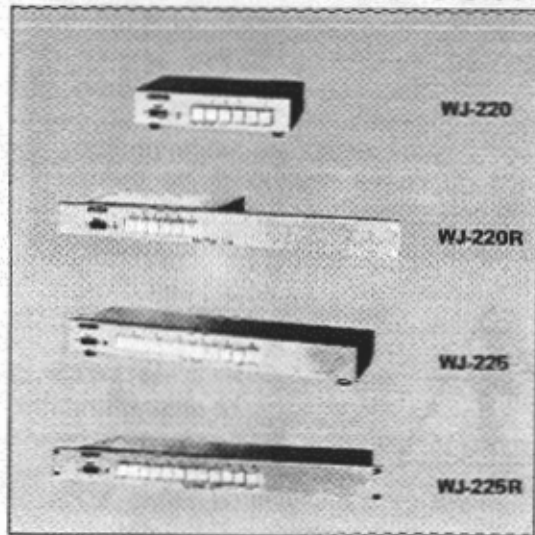


Operating Instructions

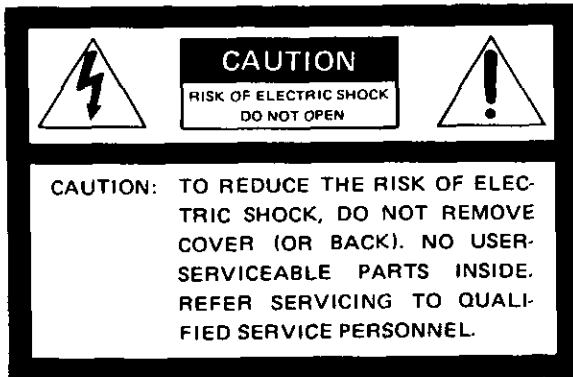
Video Switcher

WJ-220/220R/225/225R

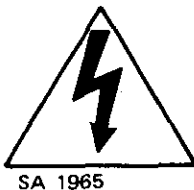


Panasonic

Before attempting to connect or operate this product, please read these instructions completely.



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.



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.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

■ PREFACE

Panasonic active switchers are compact accessories for use in color or black-and-white video production systems. Six (WJ-220) or twelve (WJ-225) composite video inputs can be switched to a single video output.

Panasonic active switchers are available in desk-top (WJ-220, WJ-225) or 1¾" high unit that fits standard EIA 19" rackmount (WJ-220R, WJ-225R) configurations.

Switching is accomplished during the vertical interval, when no signal is displayed.

The non-lock pushbuttons light up to show which input has been selected. Front panel card holders permit each input source to be labeled. For added flexibility, inputs can be Hi-Z looped or 75 ohm terminated (switchable) with BNC connectors.

■ FEATURES

- Designed with solid state circuitry for reliability.
- Excellent picture reproduction, with minimum crosstalk and low frequency transients.
- Electronic, vertical interval switching.
- Unterminated, loop-through video inputs; switchable for 75 ohms.
- Illuminated, non-lock switch.
- Card holder permits each input to be labeled.
- Desk top and rackmount versions available.

■ PRECAUTIONS

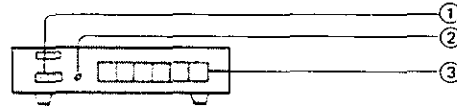
1. Do not use the unit beyond its temperature, humidity or power source ratings.
 - a) Designed for indoor use.
Ambient temperature must not range beyond 14° F ~ 122° F (-10° C ~ +50° C).
 - b) Avoid using the unit when humidity is above 90%.
 - c) The input power source must be 120V AC 60Hz.

■ MAJOR OPERATING COMPONENTS AND THEIR FUNCTIONS

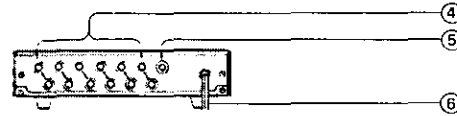
- DESK-TOP TYPE

WJ-220

Front View



Rear View

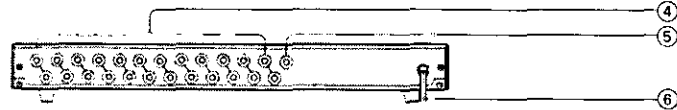


WJ-225

Front View



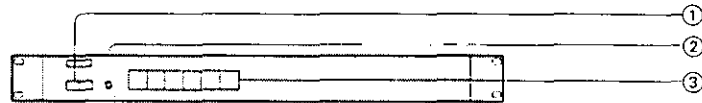
Rear View



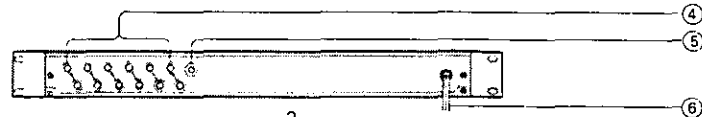
- RACKMOUNT TYPE: Fits standard 19" rack.

WJ-220R

Front View



Rear View

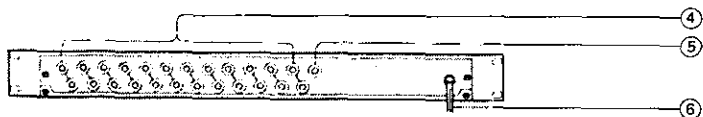


WJ-225R

Front View



Rear View



① **Power ON/OFF Switch [POWER ON/OFF]**

② **Power Indicator Pilot Lamp**

③ **Video Input Selecting Switch**

Select and depress the appropriate pushbutton and it will be illuminated, identifying the input selected.

Front panel card holders permit each input source to be identified and labeled.

④ **Video Input Connectors [VIDEO INPUT]**

There are two unterminated video input connectors for each channel, to allow loop-through hook-up. If looping through is not used, terminate the input with 75 ohm BNC Terminator Plugs. (not provided)

⑤ **Video Output Connector [VIDEO OUTPUT]**

The single BNC connector contains the video signal from the selected input.

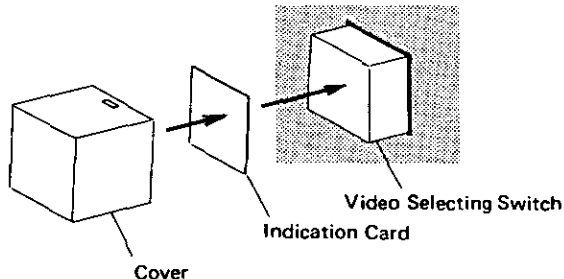
⑥ **Power Cord**

■ CARD LABELING

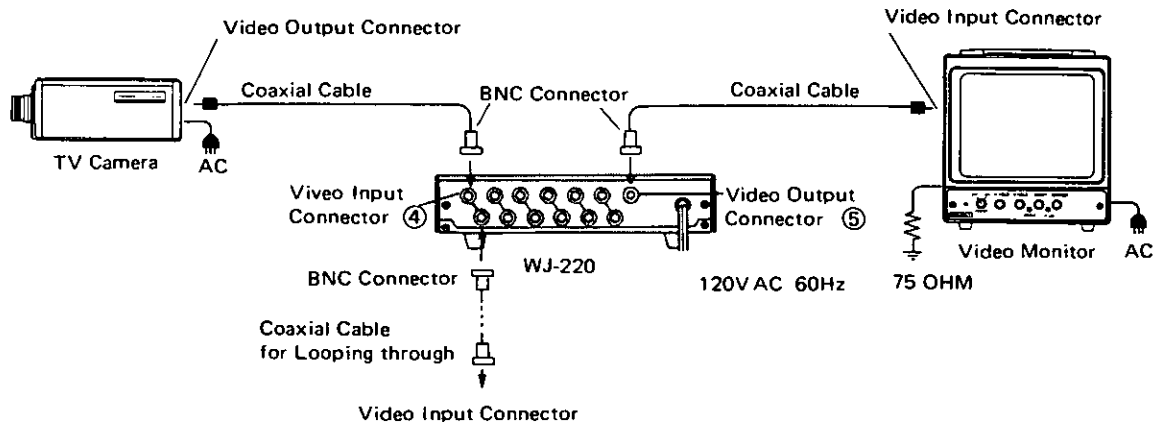
1. Write the camera position or number on the indication cards of standard accessory.



2. Pull off the covers of the Video Selecting Switches, place the indication cards and replace the covers.



■ CONNECTIONS



● Video Input Connectors ④

The vertical interval switching of the unit is triggered by the vertical sync within Video Input No. 1. Therefore, to obtain vertical interval switching, a video signal must be connected to input No. 1, and all other video signals must be synchronized to that signal. All of the Video Input Connectors are unterminated. If looping through is not desired 75 ohm BNC Termination Plugs (not provided) should be used for termination.

WIRING PRECAUTIONS:

1. Use 75Ω coaxial cable.
2. Never staple the cable — not even with circular staples. Do not bend coaxial cable into a curve whose radius is smaller than 10 times its diameter. Never crush or pinch the cable. Any of these will change the impedance of the cable and cause poor picture quality.

■ SPECIFICATIONS

Type	Desk-top		Rackmount	
Model No.	WJ-220	WJ-225	WJ-220R	WJ-225R
Power Source	120V AC 60Hz			
Power Consumption	Approx. 5W			
Video Input (1.0Vp-p composite/75Ω or Hi-Z BNC)	6	12	6	12
Video Output (1.0Vp-p composite/75Ω BNC)	ONE			
Switch	Non-lock illumination type			
Switching	Electronic/vertical interval switching			
Crosstalk	Better than 60dB (at 3.58MHz)			
Differential Gain	Less than 0.5% (10% ~ 90% APL (average picture level))			
Differential Phase	Less than 0.5° (10% ~ 90% APL)			
Frequency Response	10MHz ±0.5dB			
Ambient Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)			
Ambient Operating Humidity	Less than 90%			
Dimensions (W x H x D)	8¼"x1¼"x5¼" 210x44x135(mm)	16½"x1¼"x5¼" 420x44x135(mm)	19"x1¼"x5¼" 480x44x135(mm)	19"x1¼"x5¼" 480x44x135(mm)
Weight	Approx. 3 lbs 1.4 kg	Approx. 4½ lbs 2.2 kg	Approx. 3½ lbs 1.5 kg	Approx. 4½ lbs 2.2 kg

■ STANDARD ACCESSORIES

- Indication Card 1 set

Panasonic

Broadcast & Television Systems Company

Division of Matsushita Electric Corporation of America

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