

Video Monitor TR-930/TR-931/TR-932



Panasonic.

Read these instructions completely, before operating this set.

Dear Panasonic Customer:

Welcome to the Panasonic family of customers. It is our desire that you have many years of enjoyment from your new black and white video monitor.

In keeping with the state of the art, we have built quality, reliability, and performance into your unit. However, for best performance, a video monitor should be suitably situated in the video system and properly adjusted. Proper installation practices and adjustments are easy to accomplish.

As additional automatic circuits are designed into the product, it becomes beneficial for you to learn how to take advantage of these features.

This instruction booklet applies, in general, to all Panasonic black and white video monitor. We hope it will help you get the most out of your unit, and that you will be pleased with your Panasonic black and white video monitor.

Customer's Record

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

Model number

Serial number

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this video monitor to rain or moisture.

PRECAUTIONS

1. 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.



2. Do not use the monitor beyond its temperature, humidity.

- (a) Designed for indoor use. Ambient temperature must not range beyond $32^{\circ}F \sim 105^{\circ}F$ (0°C~+40°C).
- (b) Avoid using the monitor when humidity is above 65%.
- (c) Do not block the ventilation slots on the sides and rear panels.
- (d) The input power source must be 120V ±10%, AC Mains.

3. Do not snap the grounding pin.

This video monitor is equipped with a threewire grounding-type plug [a plug having a third (grounding) pin]. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician. Do not defeat the safety purpose of the grounding plug.

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OPERATING COMPONENTS

TR-930 [FRONT VIEW]



TR-931/TR-932 [FRONT VIEW]



[BACK VIEW]



OPERATING PROCEDURE

1. Set the On/Off Power Switch to "On" position.



2. Adjust the Bright and Contrast Controls for proper picture.



3. Adjust the Horizontal Hold until the picture is stabilized, if the picture slips to either side, or appears as a series of horizontal stripes.





4. Adjust the Vertical Hold, if the picture rolls up or down.

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CONNECTIONS

[Terminal]

[Signal level and Terminal Impedance]



Item Terminal		Level	Impedance	Remarks
JDE	IŅPUT	1 ∨р-р	75Ω /HIZ	Video Signal includes Sync Signal (Positive)
	ουτρυτ	1 Vp-p	75Ω /HIZ	

[Connector]

Video Input/Output : BNC-type connectors

[Application with other equipment]

Terminal	Signal	Equipment	Remarks	
INPUT	Input Signal from other equipment	VTR/VCR VHS VCR Video Camera	Input and output connectors are bridged (parallel connected).	
ουτρυτ	Input Signal	Monitor or VTR	When this connector is not used, then termination select switch should be set to 75Ω position. When another monitor's input is connected to this monitor's output connector, the termination select switch should be set to HIZ position. The last monitor in the series of monitors should then have it's switch set to 75Ω .	

$[75 \Omega - HIZ Switch]$



SPECIFICATIONS

(TR-930/931/932)

Power Source:	120V, 60Hz (AVR 120V±10%)		
Power Consumption:	23 Watts (Average)		
Picture Tube:	230 BRB4, 9 inches, 90° deflection		
Video Input Impedance:	75 Ω or high impedance		
Video Input Level:	1.0 Vp-p (Composite)		
Resolution:	Vertical: More than 320		
	Horizontal: More than 700		
	(Horizontal at center)		
Picture Linearity:	Vertical: Better than 7%		
	Horizontal: Better than 7%		
Operating Ambient Temperature:	32°F∼105°F (0°C∼+40°C)		
Operating Ambient Humidity:	Less than 65%		

Dimensions:	TR-930	TR-931	TR-932
Height:		221 mm	221 mm
-	(8-15/16 inches)	(8-11/16 inches)	(8-11/16 inches)
Width:		480 mm	480 mm
width.	(8-11/16 inches)	(18-7/8 inches)	(18-7/8 inches)
Depth:	249 mm	272 mm	272 mm
Deptil:	(9-13/16 inches)	(10-11/16 inches)	(10-11/16 inches)
Weight:	5.08 kg	7.80 kg	12.6 kg
weight:	(11.2 lbs)	(17.2 lbs)	(27.8 lbs)

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