



9-inch HDTV Monochrome Monitor

# HPM-9050



Ikegami's HPM-9050 9-inch high performance monochrome monitor with a high resolution CRT delivers over 800 lines of horizontal resolution. Switching power supply circuitry provides a wider range of supply voltages, while its back porch clamp assures consistent stability for the video black level.

The HPM-9050 can be combined with a WFM monitor and/or vectorscope, and also mounted in a 19-inch rack with a two-monitor configuration. The HPM-9050 is ideally suited for use in applications such as signal monitoring and adjustment for video equipment installed in broadcasting facilities.

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- **16:9/4:3 scan function.**
- **19-inch rack mountable.**
- **Switching power supply circuitry provides a wider range of power supply voltages.**
- **Back porch clamping assures consistent stability for the video black level.**
- **Dual (A/B) inputs, front panel selectable.**
- **Remote control (VIDEO, SYNC, 16:9/4:3, RED and GREEN TALLY ON/OFF).**
- **UL Listed.**

# HPM-9050 9-inch HDTV Monochrome Monitor

## Specifications

### GENERALS

<b>Power</b>	AC100V~240V 50/60Hz, approx. 60W or less
<b>Ambient Temperature</b>	0°C ~ +40°C (32°F ~ 104°F) 90% or less relative humidity
<b>External Dimensions (W x H x D)</b>	220 x 215 x 255mm (8.66 x 8.46 x 10.04 inches)
<b>Weight</b>	Approx. 7.5 kg (16.53 lbs)
<b>Connector</b>	Video input: BNC type (2 systems) Sync input: BNC type (1 system) Remote input Tally input
<b>Front Panel Controls</b>	Power ON/OFF, Video input A/B, Sync input EXT/INT, Size NOR/WIDE, 16:9/4:3, Contrast, Brightness
<b>Remote Operation</b>	Video input A/B, Sync input EXT/INT, 4:3/16:9, RED, GREEN tally ON/OFF,
<b>Safety Standard</b>	UL, FCC, DHHS
<b>Standard Accessories</b>	Remote Connector, AC Cable, Operation Manual
<b>RATING</b>	
<b>Input Signal</b>	<b>Analog</b> 1080i(Y)/60, 59.94Hz 1035i(Y)/60, 59.94Hz
<b>Input Level</b>	Video Signal: VS 1.0Vp-p or V 0.7Vp-p, positive Sync Signal: 0.3Vp-p
<b>Input Impedance</b>	Video input/Video sync: 75Ω terminated or high impedance bridge connection
<b>Output Level</b>	25Vp-p
<b>CRT</b>	E8069B4
<b>Phosphor Colorimetry</b>	6500°K
<b>Operation</b>	Continuous
<b>Scanning Size</b>	Normal Scan: W160 x H90 mm
<b>&lt;16:9 mode&gt;</b>	Wide Scan: Area of 16:9 aspect ratio where the picture with touch to the right and left of the escutcheon.

### <4 : 3 mode>

Wide Scan: Area of 4:3 aspect ratio where the picture height in 16:9 touch to the top and bottom of the escutcheon.

### PERFORMANCE

<b>Horizontal Resolution</b>	800TV Lines or more at center
<b>Power Voltage Fluctuation</b>	Will maintain stable picture quality with a ± 10% AC input voltage fluctuation.
<b>X-ray Radiation</b>	Less than 0.1mR/H under normal operation at the place 50mm away from the monitor. (Should not be over 0.5mR/H even when damaged.)

### VIDEO Signal System

<b>Frequency Response</b>	50Hz ~ 30MHz: within +1/-3dB Over 30MHz: Falling From video input terminal to CRT drive output referred to 100KHz under the rated output.
<b>Max Gain</b>	Approx. 33dB or more
<b>Gain (contrast) Adjustment</b>	Continuously variable from 0 ~ max. gain

### DEFLECTION SYSTEM

<b>Sync Stability</b>	Stability of synchronization will be met for the following conditions.
<b>Internal Sync</b>	VS Level Change ± 6dB
<b>External Sync</b>	0.3V ~ 6Vp-p
<b>Scanning Amplitude</b>	Must be adjusted to the rated size of 4:3 or 16:9 aspect ratio.

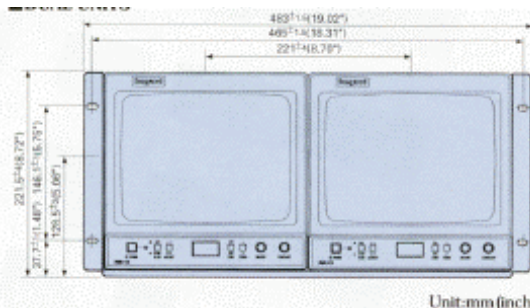
**Deflection Distortion** Less than 1% both for deflection linearity and raster distortion.

**Hum Oscillation** 0.2mm or less

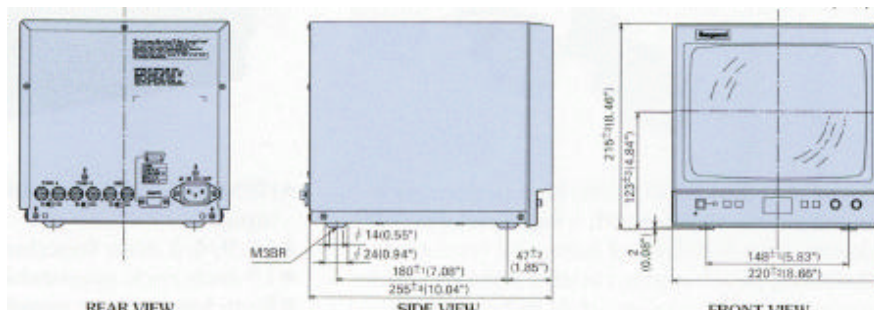
### HIGH VOLTAGE

<b>Tolerance Regulation</b>	Approx. 12KV ± 1KV (cut off) Less than ± 3% over the range of 0 to 200μA Referred to 100μA.
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### DUAL UNITS



## Dimensions



Design and specifications are subject to change without notice.

**Ikegami** IKEGAMI ELECTRONICS ( U. S. A. ), Inc.

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