

Broadcast Monochrome Monitor

PM1430A/2



The PM1430A/2 monochrome monitor provides high resolution and brightness, have low geometric and differential gain distortion, with excellent stability over a wide temperature, input voltage and APL range.

The PM1430A/2 monitor also features 16:9 and 4:3 aspect ratio selectable, and configurations are for cabinet use or for 19-inch rack mounting in a 6U 10-1/2 inch height. Slides (TTM-14) and Handles (A-TM14-16) are optional for the rack mount version.

■ Features

- Back porch clamp, switchable to DC restoration
- Dual (A/B) inputs, front panel selectable
- Internal/External sync, front panel selectable
- Notch filter on/off, front panel selectable
- Tally light (Red and Green)
- Aspect Ratio 16:9 or 4:3
- Remote Control (VIDEO SELECT, SYNC SELECT, TALLY ON/OFF)

PM1430A/2 Broadcast Monochrome Monitor

Rating/Performance

GENERAL

Power	AC 100~120V/200~240V+/-10% 50/60Hz 55W approx.
Ambient Temp.	0°C ~ +40°C (+32°F ~ +104°F) 90% or less relative humidity (non-condensing)
Ext. Dimensions	W428 x H265 x D422mm (16.85 x 10.43 x 16.61 inches)
Weight	Approx. 13.3kg (29.1 lbs) with case
Connector	Video Input: BNC type 2 systems Sync Input: BNC type 1 system Remote Input Tally Input
Front Panel Control	Video A/B, Sync INT/EXT, Size UNDER/WIDE, Contrast(Manual/Preset), Brightness(Manual/ Preset), Power ON/OFF, Notch Filter ON/OFF,
Standard Accessories	Remote Connector, Power Cord and Operation Manual

RATING

Input Signal	2 Video Inputs, 1 Sync Input
Input Level	Video signal: VS 1.0Vp-p or 0.7Vp-p positive Sync signal: 1 ~ 4Vp-p
Input Impedance	Video input: High impedance, bridge connection (remote loss: 46dB, 100Hz ~ 4.2MHz) Sync input: High impedance, bridge connection (remote loss: 40dB at 5MHz)
Output Level	30Vp-p at CRT drive voltage
CRT	340CEB4 or equivalent
Phosphor Colorimetry	P4 Phosphor, 6500K
Brightness	60Ft-L at rated output level
Operation	Continuous
Video Display Screen	UNDER/WIDE switching system, pulse cross Circuit provided.

PERFORMANCE

Resolution at	Center 800TV lines or more
Brightness of 30FtL	Corner 500TV lines or more
Power Voltage	Should the voltage fluctuate +/-10% against the
Fluctuation	rated input voltage, monitor stability and picture quality do not deteriorate.

VIDEO CIRCUIT

Max. Gain	Max. contrast: 35dB or more
Freq. Response	100KHz reference, 50Hz ~ 10MHz +/-1dB (at 30Vp-p of output level)
Waveform	(When square wave of rise time 0.05usec is supplied at video input connector,) Rise Time: 250KHz, 0.1usec or less Overshoot: 250KHz, 8% or less Sag: 60Hz, 5% or less
Linearity	Less than 5% Differential Gain (at rated output 30Vp-p)
Noise	Coherent noise: -46dB Hum noise: -55dB Others: -55dB (except blanking period) (measured at output terminal in condition of terminating video input 75 ohms and contrast control maximum.)

DEFLECTION CIRCUIT

Sync Stability	The stability of operation shall be met for the following conditions. (1) Internal sync a. Video input level changed against rated value: -10dB b. For video amplitude changes of 0 to 120% and sync levels greater than -6dB(0.15 to 0.3V sync) (2) External sync Sync signal input level: 1 ~ 4Vp-p, negative Approx. 2m sec
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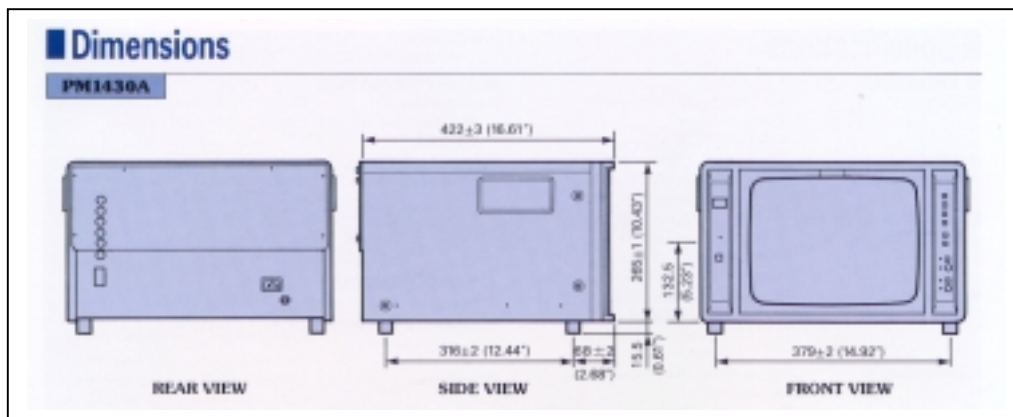
H. AFC Time Constant

Deflection Distortion Less than 2% of picture height.

HIGH VOLTAGE CIRCUIT

High Voltage	16kV +/-0.5kV
HV Fluctuation	+/-2% in range of 0 ~ 200uA as 100uA reference.

The design and specifications are subject to change without notice.



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