



### **VM5094 / VM5124 / VM5154 9-, 12-, and 15-Inch High-Resolution Monochrome Video Monitors**

- **Convenient front panel controls**
- **Rugged steel cabinet with built-in carrying handle**
- **Crisp, high-resolution picture**
- **VCR compatible horizontal and vertical time constants**

The VM5094, VM5124 and VM5154 Monochrome Monitors, with a horizontal resolution of 1000 lines, produce crisp, high-contrast pictures. The VM5094 has a 9-inch (230 mm) screen; the VM5124 has a 12-inch (305 mm) screen; the VM5154 has a 15-inch (381 mm) screen. These compact units are housed in a rugged yet attractively-styled cabinet with a convenient carrying handle. Both units are dual scanning (EIA and CCIR) and incorporate a universal power supply that accommodates 120 or 230 VAC. Both a 120 VAC and 230 VAC line cord are supplied with each monitor.

Loop-through connectors and a 75-ohm termination switch are provided on the rear-panel, along with the removable line cord. Operating controls for power, brightness, contrast and horizontal and vertical hold are located behind a front panel door to provide an uncluttered look and prevent accidental movement of the controls. A power LED indicator is located outside the front panel door for easy viewing. Compatible horizontal and vertical time constants allow for stable playback from a video cassette recorder (VCR).

The VM5094, VM5124 and VM5154 monitors meet UL safety standard 2044 and comply with FCC requirements for a Class A device.

## **Contractors' Specification**

### **9-Inch Monochrome Video Monitor**

The monitor shall be a monochrome video monitor with a 9-in. (230 mm) picture tube. It shall have a resolution of 1000 TV lines (center). It shall provide looping video output with switchable 75 ohm termination located on the rear panel.

Front panel controls shall include power on/off, brightness, contrast, vertical hold, and horizontal hold. Input power shall be 120 VAC or 230 VAC, 50/60 Hz. Power consumption shall be 19.5 W typical.

Dimensions shall not exceed: height, 9.4 in. (239 mm); width, 8.6 in. (218 mm); depth, 10.25 in. (260 mm). The weight shall not exceed 13.2 lb (6.0 kg). The monitor shall comply with UL 2044 standards and with FCC limits for a Class A computing device in accordance with the specifications in Part 15 of FCC rules. Single and double rack mounting kits shall be available. The monitor shall be Vicon model VM5094.

### **12-Inch Monochrome Video Monitor**

The monitor shall be a monochrome video monitor with a 12-in. (305 mm) picture tube. It shall have a resolution of 1000 TV lines (center). It shall provide looping video output with switchable 75 ohm termination located on the rear panel.

Front panel controls shall include power on/off, brightness, contrast, vertical hold, and horizontal hold. Input power shall be 120 VAC or 230 VAC, 50/60 Hz. Power consumption shall be 20.5 W typical.

Dimensions shall not exceed: height, 11.96 in. (304 mm); width, 12.2 in. (310 mm); depth, 12.43 in. (316 mm). The weight shall not exceed 20.9 lb (9.5 kg). The monitor shall comply with UL 2044 standards and with FCC limits for a Class A computing device in accordance with the specifications in Part 15 of FCC rules. The monitor shall be Vicon model VM5124.

### **15-Inch Monochrome Video Monitor**

The monitor shall be a monochrome video monitor with a 15-in. (381 mm) picture tube. It shall have a resolution of 1000 TV lines (center). It shall provide looping video output with switchable 75 ohm termination located on the rear panel.

Front panel controls shall include power on/off, brightness, contrast, vertical hold, and horizontal hold. Input power shall be 120 VAC or 230 VAC, 50/60 Hz. Power consumption shall be 38 W typical.

Dimensions shall not exceed: height, 12.5 in. (318 mm); width, 14.25 in. (362 mm); depth, 13.1 in. (332 mm). The weight shall not exceed 28.7 lb (13 kg). The monitor shall comply with UL 2044 standards and with FCC limits for a Class A computing device in accordance with the specifications in Part 15 of FCC rules. The monitor shall be Vicon model VM5154.

# Technical Information

## VIDEO

**Screen Size:** VM5094: 9 in. (230 mm) measured diagonally.  
VM5124: 12 in. (305 mm) measured diagonally.  
VM5154: 15 in. (381 mm) measured diagonally.

**Horizontal Resolution:** 1000 TV lines at center of picture tube.

**Video Input Signal:** 0.5 - 2.0 V p-p composite video (sync negative).

### Video

**Input Impedance:** 75 ohms/high-impedance, switchable.

**Scanning System:** EIA: RS-170 525 lines, 60 fields/second, 2:1 interlace.  
CCIR: 625 lines, 50 fields/second, 2:1 interlace.

**Video Gain:** 30 dB.

## ELECTRICAL

**Input Voltage:** 100-240 VAC  $\pm$ 10%.

**Power Consumption:** VM5094: 19.5 W.  
VM5124: 20.5 W.  
VM5154: 38 W.

**Heat Equivalent:** VM5094: 1.1 btu/min (0.28 kg-cal/min).  
VM5124: 1.2 btu/min (0.29 kg-cal/min).  
VM5154: 2.2 btu/min (0.55 kg-cal/min).

NOTE: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

**Safety Standard:** UL 2044.

### Radio

**Emission Standard:** FCC Class A.

## CONTROLS

**Front Panel Controls:** Power ON/OFF with LED indicator.  
Contrast adjustment.  
Brightness adjustment.  
Vertical hold.  
Horizontal hold.

**Rear Panel Controls:** Select 75 ohm/high impedance termination slide switch.

## CONNECTORS

**Video Input:** BNC connector.

**Video Output:** BNC connector.

**Power Cable:** 3-conductor removable line cord with grounding plug; a 120 VAC and 230 VAC line cord are supplied.

## MECHANICAL

**Dimensions:** VM5094

Height (H): 9.4 in. (239 mm).  
Width (W): 8.6 in. (218 mm).  
Depth (D): 10.25 in. (260 mm).  
VM5124

Height (H): 11.96 in. (304 mm).  
Width (W): 12.2 in. (310 mm).  
Depth (D): 12.43 in. (316 mm).

VM5154

Height (H): 12.5 in. (318 mm).  
Width (W): 14.25 in. (362 mm).  
Depth (D): 13.1 in. (332 mm).

**Weight:** VM5094: 13.2 lb (6.0 kg).  
VM5124: 20.9 lb (9.5 kg).  
VM5154: 28.7 lb (13 kg).

**Shipping Dimensions:** VM5094

Height: 12.0 in. (305 mm).  
Width: 12.0 in. (305 mm).  
Depth: 11.0 in. (280 mm).  
VM5124

Height: 15.1 in. (384 mm).  
Width: 14.9 in. (378 mm).  
Depth: 14.75 in. (375 mm).

VM5154

Height: 15.5 in. (394 mm).  
Width: 17.5 in. (445 mm).  
Depth: 16 in. (406 mm).

**Shipping Weight:** VM5094: 14.3 lb (6.5 kg).  
VM5124: 21.7 lb (9.8 kg).  
VM5154: 30.7 lb.

**Shipping Volume:** VM5094: 0.9 ft<sup>3</sup> (0.025 m<sup>3</sup>).  
VM5124: 1.9 ft<sup>3</sup> (0.05 m<sup>3</sup>).  
VM5154: 2.5 ft<sup>3</sup> (0.07 m<sup>3</sup>).

## ENVIRONMENTAL

### Operating

**Temperature Range:** 14 to 122° F (-10 to 50° C).

**Humidity Range:** -20 to 80%, relative.

### Storage

**Temperature Range:** -20 to 140° F (-20 to 60° C).

**Storage Humidity:** 85% relative, noncondensing.

