



## 5" CRT MONITOR

- HIGH PERFORMANCE: 650 LINES OF RESOLUTION
- LOW POWER: 12VDC @ 650mA
- HIGH RELIABILITY DESIGN: DOUBLE SIDED, PLATED THRU PCB
- CUSTOM DESIGNS AVAILABLE
- COMPETITIVE PRICE/QUICK RESPONSE

The design of the Omni Vision 5 monitor provides high performance at a reasonable cost. Display stability over a wide temperature range and crisp resolution are the cornerstones of Omni Vision 5's performance.

### FEATURES

- All circuitry is on a single, double sided, plated through PCB.
- All controls are together and are easily accessible from the top of the monitor.
- The video display is stabilized through use of voltage controlled, temperature compensated feedback to synchronized free oscillators.
- Electronic horizontal video centering.
- The Omni Vision 5 is designed to UL, CSA specifications and applicable DHHS rules on X-Radiation.
- 10 pin edge connector.
- Polished or anti-glare faceplates.
- Omni Vision 5 Chassis.

### RESOLUTION

With a video amplifier response to 20MHz in either the TTL or Composite Video version, video and alpha numeric data is displayed clearly and crisply with a Center Resolution of 650 lines.

### POWER

When scanning full screen, the Omni Vision 5 operates nominally at 12VDC and 650mA.

### OPTIONS

- Remote Brightness Control
- Remote Contrast Control
- Wide range of Phosphors
- Omni Vision 5 Kit
- Omni Vision 5 Space Saving Chassis
- BNC Video Input Connector
- +12VDC Power Connector
- **6" CRT, CHASSIS VERSION**

**OMNI VISION INC.**

The CRT Monitor Specialists

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# SPECIFICATIONS for 5" Chassis & Kit

## CRT

- 5" Diagonal
- Neck: 20mm
- Deflection Angle: 70°
- Viewing Area: 15 sq. in. maximum

## POWER

- Nominal: 12VDC @ 650mA

## DIMENSIONS

- Height: 4.60 inches
- Width: 4.88 inches
- Depth: 8.61 inches

## INPUT SIGNALS

### A) TTL

Signal: Positive polarity: +2.5V to +5.0V; Reverse polarity signals may require board modification.

Video: Input Impedance: 470 Ohms  
Bandwidth: Within 3 db from 10Hz to 20MHz

Vertical: Input Impedance: Greater than 1k Ohms  
Typical Signal: 180 microSeconds  
Acceptable Range: 100 to 1200 microSeconds

Horizontal: Input Impedance: Greater than 6k Ohms  
Typical Signal: 4.5 microSeconds  
Acceptable Range: 2.5 to 30.0 microSeconds

### B) Composite Video

Signal: 0.7V to 1.8V of composite peak to peak video  
Input Impedance: 75 Ohms  
Bandwidth: Within 3db from 10Hz to 20MHz

## GEOMETRIC DISTORTION

Within 2% EIA Standard Dot/Ball Chart. Variation between adjacent characters not more than 10% in alpha numeric display application.

## HIGH VOLTAGE

Over 7kV at 50 microAmps of beam current with no more than 0.5kV variation from zero beam to 100 microAmps of beam current.

## SCANNING FREQUENCIES

Factory adjusted for operation within 1kHz of center frequencies at 15.7kHz or 18.6kHz.

## CONTROLS

Brightness, contrast, vertical size, vertical hold, vertical linearity, horizontal hold, horizontal video centering and focus.

## ENVIRONMENTAL

Operating Temperature: 0°C to 55°C  
Storage Temperature: -20°C to 65°C  
Operating Altitude: 10,000 ft maximum

## WEIGHT

Omni Vision 5 Kit: 3.0 lbs  
Shipping Weight: 4.5 lbs.

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