



## 7" CRT MONITOR

- HIGH PERFORMANCE: 700 LINES OF RESOLUTION
- LOW POWER: 12VDC @ 1150 mA
- HIGH RELIABILITY DESIGN: DOUBLE SIDED, PLATED THRU PCB
- CUSTOM DESIGNS AVAILABLE
- COMPETITIVE PRICE/QUICK RESPONSE

The design of the Omni Vision 7 monitor provides high performance at a reasonable cost. Display stability over a wide temperature range and crisp resolution are the cornerstones of Omni Vision 7's performance.

### FEATURES

- All circuitry is on a single, double sided plated through PCB.
- All controls 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 7 is designed to UL, CSA specifications and applicable DHHS rules on X-Radiation.
- 10 pin edge connector.
- Polished or anti-glare faceplates.
- Omni-Vision 7 Chassis.

### RESOLUTION

With a video amplifier response to 26MHz in either the TTL or Composite Video version, video and alpha numeric data is displayed clearly and crisply with a Center Resolution of 700 lines.

### POWER

When scanning full screen, the Omni Vision 7 operates nominally at 12VDC and 1150mA

### OPTIONS

- Remote Brightness Control
- Remote Contrast Control
- Wide range of Phosphors
- Omni Vision 7 Kit
- BNC Video Input Connector
- +12VDC Power Connector
- 10 or 20 Pin Header

**OMNI VISION INC.** The CRT Monitor Specialists

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# SPECIFICATIONS for 7" Chassis & Kit

## CRT

- 7" Diagonal
- Neck: 20mm
- Deflection Angle: 85°
- Viewing Area: 26 sq. in. maximum

## POWER

- Nominal: 12VDC @ 1150mA

## DIMENSIONS

- Height: 5.90 inches
- Width: 7.95 inches
- Depth: 8.20 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 3db from 10Hz to 26MHz

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 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 26MHz

## 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 10kV 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, 18.6kHz or 21.6kHz.

## 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 7 Kit: 10 lbs

Shipping Weight: 12 lbs.

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All specifications are subject to change without notice. Omni Vision reserves the right to make changes in the product at any time to improve the performance, reliability or quality.