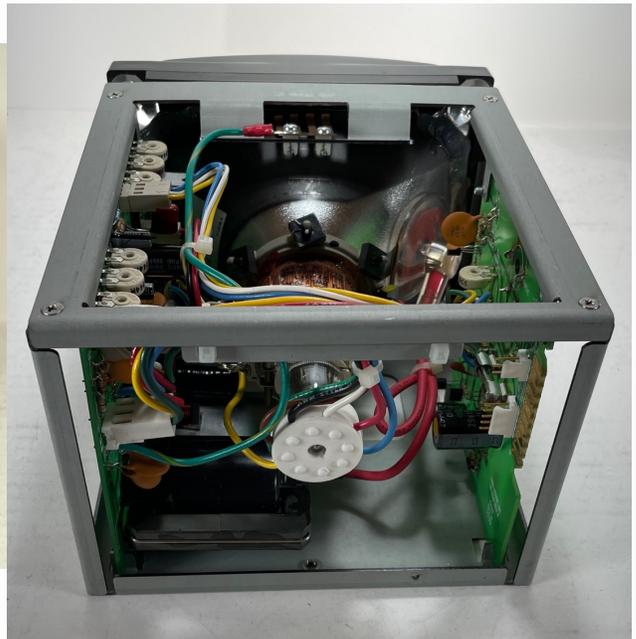


# OMNI VISION INC

LP0615E3Y AND LP0619E3Y

## Standard Monochrome CRT Monitors (6" Models)



Specialists in CRT Displays  
Meeting Your Application Requirements

## General Information

Omni Vision's display monitors incorporate circuitry that provides the finest presentation of data through the use of the latest state-of-the-art components. High quality, reliability, and dependability are assured through the all-solid state design that is adaptable to most environments. The mechanical configurations provide for customer flexibility and versatility. The double-sided printed circuit board with plate through holes improves the mechanical and electrical integrity of all inserted components.

### Electrical

The power requirement for any of the units in the family is +12 volts DC with a maximum current of 1.25 amps; however, the typical current drain will be about 900 milliamps. Power can be supplied through the 10-pin edge connector or through an optional power input connector.

Signals are applied as composite video, separate TTL or VGA depending on application. They are applied through the 10-pin edge connector or through an optional connector. The amplitude of the applied signals is specified in the specification section of this document.

### Mechanical

The unit can be purchased in an open frame chassis version.

#### Safety Notes -- IMPORTANT INFORMATION --

In operation, the CRT has a high voltage charge stored on the anode connection of the tube. This charge may be retained for a period of time and must be discharged when handling the CRT. This warning applies even when power has been removed from the unit for some period of time.

CRT manufacturers recommend that any user of the CRT take extra precautions and use safety glasses when handling the CRT. It is also recommended that gloves be used during the handling of the tubes.

# SPECIFICATIONS

## CRT

Deflection angle.....	70 Degrees
Phosphor types .....	Green (P31) is standard, but white (P4) is an option
Viewing Area .....	5.0 x 3.5 inches

## ELECTRICAL

Power requirements .....	+12 Vdc@ 0.2 Vdc at 900 milliamps, 18 Watts Maximum, 2A fusing is recommended
Synchronization	
Horizontal .....	15 kHz +/- 1kHz (standard) either TTL or composite 31 kHz for VGA applications
Vertical .....	47-63 Hz
Blanking, Horizontal .....	10 usec at 15.75 kHz
Vertical .....	800 usec
Video performance .....	Bandwidth to 26 MHz
Resolution .....	650 lines center screen
Linearity, Horizontal .....	Less than 10% variation between adjacent characters
Linearity, Vertical .....	Less than 10% variation between adjacent rows
Geometry .....	Within 1.5% overall deviation from a perfect rectangle
High Voltage .....	Greater than 7 KV at 50 @ amps

MECHANICAL

Dimensions with chassis

Width ..... 6.0 inches  
Height ..... 4.5 inches  
Depth ..... 7.25 inches

Weight ..... 3 lbs.

Connectors, power and signal ..... Card Edge or optional connectors

Chassis version ..... Only version available

Other Data

Environment

Operating Temperature ..... +10 to +55 degree C  
Storage Temperature ..... -20 to +85 degree C

Humidity ..... 95% relative humidity

Altitude ..... up to 10,000 ft

Warranty ..... One-year parts and labor

Regulatory Agency Compliance ..... UL/cUL 1950, 2601 TUV  
No. 950-93