

# Omni Vision Inc

504 Congress Circle N  
Unit B  
Roselle, IL 60172

## Display Monitor Specialist

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### Industrial TFT Color LCD Display Monitors 12.1" kit version models

**Made in the USA**

VGA & NTSC (dual mode)	Model #	
DC Version- open frame	DM12B1G1-XX---Series	<u>input</u> : + 12 vdc
AC Version- open frame	DM12B4G1-XX---Series	<u>input</u> : 110/220 VAC
DC Version- with bezel	DM12B1G1-B1---Series	<u>input</u> : +12 vdc
AC Version- with bezel	DM12B4G1-B1---Series	<u>input</u> : 110/220 VAC



## FEATURES

- Easy to mount open frame, metal chassis (top & bottom flanges or side flanges)
- Optional-front mount bezel (panel mount ready) with option for [NEMA rated applications](#)
- User service controls of brightness, contrast, auto set up, etc
- User service controls accessed in rear standard
- Different models for different input signals-VGA/SVGA and NTSC or PAL
- Input power flexibility-standard +12 vdc at 2.0 Amps, other DC voltages or auto ranging AC power input from 100-240 VAC at 47-63 Hz.
- [RoHS compliant](#)
- Safety agency compliance - UL, cUL, and others
- Standard model has anti-reflective polycarbonate protective panel that prevents damage to LCD face

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### ELECTRICAL & DISPLAY SPECIFICATIONS

<b>Active Matrix</b>	12.1" TFT color LCD (307.4 mm diagonal)
<b>Usable Viewing Area (Size)</b>	9.68" x 7.26" (246.0 x 184.5 mm)
<b>Viewing Angle</b>	Horizontal – right & left 70 degrees Vertical - upper 50 degrees & lower 60 degrees
<b>Dot Pitch</b>	0.3075 x 0.3075 mm
<b>Max Resolution</b>	1024 x 768
<b>Max Colors</b>	16.2 M /262K
<b>Response Time</b>	Rise time – 10 millisec (typical) Fall time – 25 millisec (typical)
<b>Horizontal Frequency</b>	VGA mode 31.5 to 48 kHz / NTSC mode 15.6 kHz
<b>Vertical Frequency</b>	56 to 85 Hz
<b>Brightness (full white)</b>	400 nits
<b>Contrast Ratio</b>	600:1
<b>Input Signal</b>	
VGA / SVGA models	31.5 kHz to 48 kHz @ 60 Hz Thru standard analog 15 -pin HD mini "D" sub connector
NTSC / PAL models	Standard BNC adapter
<b>Power input</b>	
DC voltage input	Standard +12vdc @ 2 Amps with option to request models with Other DC voltages ranging from 9 volts to 48 volts
AC voltage input	Standard 100-240 VAC auto ranging @ 47 to 63 Hz thru Standard IEC-320 connector or 3-wire AC power cord
<b>Temperature</b>	
Operating	-30 to +80 degrees C
Storage	-30 to +80 degrees C

### Mechanical Details

<b>VGA/SVGA &amp; NTSC/PAL models</b>	<b>Model #</b>	<b>Drawing #</b>
<b>Open frame – Flanges: All Sides</b>		
DC Version	<b>DM12B1G1-01</b>	<b>Drawing 94-514</b>
AC Version	<b>DM12B4G1-01</b>	<b>Drawing 94-514</b>
<b>Open frame – Flanges: Top/Bottom</b>		
DC Version	<b>DM12B1G1-02</b>	<b>Drawing 94-514</b>
AC Version	<b>DM12B4G1-02</b>	<b>Drawing 94-514</b>
<b>Open frame – Flanges: Sides</b>		
DC Version	<b>DM12B1G1-03</b>	<b>Drawing 94-515</b>
AC Version	<b>DM12B4G1-03</b>	<b>Drawing 94-515</b>
<b>Bezel models (Panel Mount Ready)</b>		
DC Version	<b>DM12B1G1-B1</b>	<b>Drawing 94-516</b>
AC Version	<b>DM12B4G1-B1</b>	<b>Drawing 94-516</b>