

**RACK & PANEL MOUNT TECHNICAL SPECIFICATIONS**

**DESCRIPTION:** The QES1515 Series of 15 inch industrial LCD displays are designed for use in many harsh environments, such as those found in oil and gas, pulp and paper and petrochemical industries. At the heart of each display is a high quality, high brightness AMLCD with lightning fast response times and standard brightness levels of 450 Nits. Console mount open frame metal chassis, EIA 19 inch standard rack mount, panel mount NEMA 4/12 and 4X, and table top configurations are available. No matter the job, we are ready to see you through.

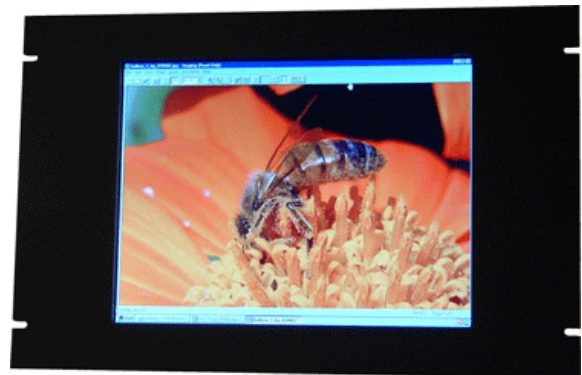
**APPLICATIONS:**

- Industrial Control
- Process Control Rooms
- Harsh Computing Environments

**SPECIFICATIONS:**

Flat Panel Display

- Panel Size: 15" TFT Active Matrix LCD
- Active Display Area: 304.1mm x 228.1mm
- Pixel Pitch: 0.297mm x 0.297mm
- Brightness: 450 cd/m<sup>2</sup> Typical
- Back Light: 50,000 Hours Typical
- Viewing Angle: ±60° L/R, ±45°T/B
- Contrast Ratio: 350:1 (Typical)
- Response Time: 30 mSec (Typical)
- Display Colors: 16.2 Million - (6 Bits + FRC for RGB)
- Panel Part Number: AUO # T150XG01 V0 Spec Ver 0.1



Synchronization Range

- Horizontal: 15 to 68KHz High Line Rate (See Legacy Timing Table )
- Vertical: 56 to 85Hz

Input Signal

- Video Input: Analog 0.7Vp-p/75 Ohms
- Sync: Separate Sync. TTL level
- Horizontal/Vertical: Sync: Positive/Negative
- Composite Sync: Positive/Negative
- Sync on Green: Video (Positive) 0.7Vpp-Sync (Negative) 0.3Vpp

Input Interface:

- HD15 (VGA-Analog)
- DVI-D
- RCA (NTSC/PAL) and 5 Pin Mini Din (S-Video) – Optional
- 5 BNC - Optional

Resolution Supported:

- 640 x 350 @ 85Hz
- 640 x 400 @ 85Hz
- 640 x 480 @ 60/72/75/85Hz
- 720 x 400 @ 70/85Hz
- 800 x 600 @ 56/60/72/75/85Hz
- 1024 x 768 @ 60/70/75/85Hz – Native Resolution
- 15 to 68KHz Ranges (See Legacy Timing Table)

User Controls:

- (Rear Controls) LCD ON/OFF
- Menu/Select
- Left/Up
- Down/Right



OSD Adjustments:  
Auto Setup  
Brightness  
Contrast  
Display Adjustments (H/V Position, Clock, Phase, Quality, Recall, Return)  
Color Temperature (9300, 7500, 6500, Auto Gain, Red, Green, Blue, Return)  
Language (English, French, Deutsche, Italian, Spanish)  
OSD Display (H/V Position, OSD Timer, OSD Transparency, Recall, Return)  
VGA/DVI (Analog or Digital Input)  
Audio  
Recall  
Exit

**ENVIRONMENTAL:**

Temperature:

Operating 0°C to +50°C  
Storage -20° to +60°C

Humidity:

Operating 10% to 90%  
Storage 10% to 90%

Altitude:

Operating 0 to 10,000 ft  
Storage 0 to 40,000 ft

Shock:

30 G's, 11ms, ½ Sine

Vibration:

2 G RMS 20-640 Hz

Agency Approvals:

UL1950, cUL, CE

EMI:

FCC Class A

**POWER REQUIREMENTS:**

Voltage 100-240VAC 50-60 Hz or 12DVC @ 3A.

Power Consumption 30Watts max.

**MECHANICAL:**

Dimensions & Weight:

	<u>Panel Mount</u>	<u>19" Rack Mount</u>
Height:	14.0"	12.22" (7U)
Width:	17.5"	19.00"
Depth:	2.75"	2.96"
Weight:	12 Lb.	12Lb

Viewing Area:

Height: 12.16"  
Width: 9.13"

Recommended Cutout (Panel Mount, Clip Mount)

(H) 12.2"  
(W) 15.06"  
(MS) 0.81"

Bezel Finish

Black Powder Coat (NEMA 4/12)

**WARRANTY:**

Three Year Limited

**OPTIONS:**

- Touch Screen Options: Resistive , Capacitive, and Surface Acoustic Wave.
- Stainless Steel (NEMA 4X)
- Vandal Shield – Screen Protected from impact
- Tempered Glass 1/8” thick.
- RCA (NTSC/PAL)/5 Pin Mini Din (S-Video)
- Audio: 1W/ 8 Ohms X 2 Stereo
- Front Remote Controls (Membrane Switch)
- Sunlight readable (Transflective Technology, (450 Nits Indoor/+1000Nits Outdoor)

**LEGACY TIMING TABLE:**

<b>Horizontal Freq.</b>	<b>Khz</b>	15.000	15.625	15.626	15.626	15.721	15.720	15.870	16.100
<b>Vertical Freq.</b>	<b>Hz</b>	40.00	63.00	24.11	60.10	60.00	60.00	61.04	50.00
<b>Horizontal Resolution</b>	<b>Pixels</b>	581	624	624	624	504	560	640	560
<b>Vertical Resolution</b>	<b>Lines</b>	360	232	632	233	238	238	200	301
<b>Horizontal Freq.</b>	<b>Khz</b>	16.506	16.858	17.850	17.800	17.851	18.416	21.495	21.802
<b>Vertical Freq.</b>	<b>Hz</b>	62.29	59.99	50.00	60.13	50.00	49.91	60.72	59.57
<b>Horizontal Resolution</b>	<b>Pixels</b>	526	512	560	640	504	720	476	640
<b>Vertical Resolution</b>	<b>Lines</b>	240	256	336	280	336	350	324	350
<b>Horizontal Freq.</b>	<b>Khz</b>	24.000	24.000	24.780	24.828	28.000	28.301	30.643	31.246
<b>Vertical Freq.</b>	<b>Hz</b>	60.15	59.33	60.44	61.45	70.00	59.96	59.97	66.20
<b>Horizontal Resolution</b>	<b>Pixels</b>	640	640	640	640	581	640	640	630
<b>Vertical Resolution</b>	<b>Lines</b>	375	385	384	378	378	400	480	448
<b>Horizontal Freq.</b>	<b>Khz</b>	31.548	31.515	32.000	32.500	36.360	36.693	38.000	40.000
<b>Vertical Freq.</b>	<b>Hz</b>	68.43	60.03	60.04	39.98	58.46	72.66	72.11	59.97
<b>Horizontal Resolution</b>	<b>Pixels</b>	583	729	706	1061	799	512	640	912
<b>Vertical Resolution</b>	<b>Lines</b>	431	432	498	791	600	480	480	644
<b>Horizontal Freq.</b>	<b>Khz</b>	42.000	48.000						
<b>Vertical Freq.</b>	<b>Hz</b>	120.00	69.97						
<b>Horizontal Resolution</b>	<b>Pixels</b>	800	890						
<b>Vertical Resolution</b>	<b>Lines</b>	325	651						

Dynamic Displays, Inc.  
 1625 Westgate Road - Eau Claire, WI 54703  
 (715) 835-9440 – Fax (715) 835-2436  
[www.dynamicdisplay.com](http://www.dynamicdisplay.com)

Document # 0020201 Rev A  
 Release Date: December 1, 2005