

# 19.0" SLOW SCAN LCD HEAD MONITOR

29LM1901E51UN/3

# DATASHEET

## HIGH QUALITY, SLOW SCAN LEGACY SYSTEM REPLACEMENTS

The 29LM1901E51UN/3 series of Industrial LCD monitors have been designed as replacements for 19" CRT monitors now that supplies of 19" CRTs are difficult to obtain. Ease of integration into a wide range of Measurement, Instrumentation and Human-Machine interface applications has been a key consideration.

KME has designed a rugged LCD monitor module, of minimum width, to match the dimensions of its 19" CRT monitor chassis. The monitor is housed in a rugged metal case with rear fixing points. The LCD module is ventilated for best reliability when mounted within the OEM enclosure. EMC considerations include the use of a metal shield over the front of the LCD panel. Toughened, non-glare safety glass protects the LCD.

The A/D board has been designed to accept a wide range of signal timings from 15kHz up to SVGA standard, including CGA & EGA legacy signals. Set-up controls for fine-tuning of the display are located at the rear of the monitor. Once set, no further adjustments should be required, and the last setting is stored in memory.

### SOLUTIONS FOR SLOW SCAN MONITORS

- > CGA/EGA/VGA/SVGA compatible
- > Analogue Video inputs via BNC/15HD
- > TTL Inputs via 9D- 15D Accessory Cable
- > Programmable for non-standard Legacy signals
- > Rear OSD Controls for maximum versatility
- > Optional Touchscreen Integration



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Electrical Description		Mechanical Description					
<b>TFT Characteristics:</b>				<b>Dimensions:</b>		Weight: 9kg approx	
Type:	AM Colour TFT	<b>Input:</b>		9D, 15D, BNC x 5			
Max Resolution:	1280 x 1024 pixels	<b>Housing</b>		Painted Steel			
Active Display Area:	376 x 301 mm	<b>User Controls:</b>		Front Mounted			
Response Time:	10ms average, typical	<b>On Screen buttons</b>		Brightness, Contrast, Auto set-up Disable, H/V Position, Clock, Clock Phase and Priority			
Contrast Ratio:	1000:1 typical	<b>Slow Scan Support:</b> (see table examples below)		Pre-programmed Analog or TTL inputs in 15-40kHz range			
Brightness:	250cd/m <sup>2</sup> typical						
Viewing Angles (at CR>10):	178 ° / 178° with CR≥10						
Backlight Life:	50,000 hours typical						
No. Colours:	16 million	H.kHz	V.Hz	Pixels	H.kHz	V.Hz	Pixels
<b>Video Signal:</b>	Analog RGB 0.7-1.0Vp-p Or TTL >2.75Vp-p	15.625	50	714*288	15.63	50	560*275
		15.63	60	808*238	15.72	60	564*240
<b>Signal Sync:</b>	Separate H & V (+/ve) TTL or Composite (-ve) TTL or Sync- on - Green (-ve) 0.3V	15.72	60	508*240	15.72	60	604*240
		15.72	60	640*200	16.10	50	564*304
<b>Synchronisation Range:</b>	Horizontal scan: 15 to 80kHz Vertical scan: 40 to 100Hz	16.276	70	640*220	16.79	70	577*215
		17.85	50	508*338	21.83	60	640*350
		20.65	50	640*384	24.78	60	640*384
<b>Clock Rates:</b>	150MHz						
<b>Display modes:</b>	VESA Support: 640 x 480 VGA 800 x 600 SVGA 1024 x 768 XGA 1280 x 1024 SXGA (recommended)						
<b>Power Supply:</b>	12V DC						
<b>Power Consumption:</b>	50W (Max)	<b>Part Numbers:</b>					
<b>Environmental:</b>	Storage Temp: -20 to 60°C Operating Temp: 0 to 50°C			Head Model:	29LM1901E51UN/3		

Due to a policy of continuous product development KME reserves the right to change specifications and descriptions without prior notification. All trademarks acknowledged.

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