# HUMAN/MACHINE INTERFACES & MONITORS

### High Quality, Slow Scan Legacy System Replacements

The 29LP1901A51UN/3 Series of 19.0" LCD monitors has been designed primarily for Slow Scan Legacy Systems as replacements for 20"/21" CRT monitors. They utilize a modern SXGA TFT (1280 x 1024 pixels) panel and a KME-designed Analog-Digital interface board. All elements, including a toughened glass protection screen, have been packaged in a compact metal housing. (Dimensions are compatible with previous 18.1" series).

By special development of our own Signal Recognition and Scaling software, and access to an extensive library of older signal timings gained from 30+ years of CRT monitor manufacturing, KME has created a Multiscan ("Universal") flat panel monitor with unique 15kHz to 80kHz display capabilities. Some common Slow Scan Signal timings are factory pre-set. (see table on next page) New ones may be added on request. Other signals, which are close to those listed, will give a display but some adjustment may be necessary for full screen performance. The final settings can be easily stored for future use.

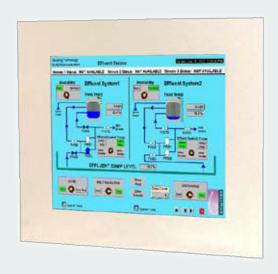
### **Features**

- Accepts signal types CGA, EGA & all VESA standards up to SXGA. TTL, analog & interlaced signals accepted
- KME have developed a deep diming solution for the slow scan range which provides smooth consistent diming 100% to 0%
- All monitors have BNC, 9-D & 15-D connectors
- The LCD monitor has been designed with solidity, being housed in a compact metal construction with a toughened glass protection screen

### Slow Scan Support - examples

H. kHz	V. Hz	Pixels	H. kHz	V. Hz	Pixels
15.625	50	714 * 288	15.63	50	560 * 275
15.63	60	808 * 238	15.72	60	564 * 240
15.72	60	508 * 240	15.72	60	604 * 240
15.72	60	640 * 200	16.10	50	564 * 304
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

# 19" Slow Scan LCD Panel Mount Monitor 29LP1901A51UN-3



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Specifications				
TFT Charateristics	Type Max. Resolution Active Display Area Responze time Contrast Ratio Brightness Viewing angles (at CR>10) Backlight life Nr. of colours	AM Colour TFT  1280 x 1024 pixels  376 x 301 mm  15ms average, typical  1000:1 typical  250 cd/m² typical  178°H, 178°V with CR≥10  50,000 hrs typical  16 million		
Slow Scan Support:	Pre-programmed Analog or TTL inputs in 15-40kHz range (see table examples on previous page)			
Video Signal	Analog RGB 0.7-1.0Vp-p	or TTL >2.75Vp-p		
Signal Sync	Separate H &V (+/ve) TTL or Composite (-ve) TTL or Sync- on - Green (-ve) 0.3V			
Synchronisation Range	Horizontal scan Vertical scan	15 - 80kHz 40 - 100Hz		
Clock Rates	150MHz			
Display Modes	VESA Support	640 x 480 VGA 800 x 600 SVGA 1024 x 768 XGA 1280 x 1024 SXGA (recommended)		
Power supply	AC Version	115/230V 50/60Hz Power Pack inside base. 12V Option		
Power consumption	50W (Max)			
Environmental	Storage temp. Operating temp.	-20°C to 60°C 0°C to 50°C		
Dimensions	Monitor	483 x 400 x 63 mm		
	Weight	9kg approx		
Input	9D, 15D, BNC x 5			
Housing	Painted aluminium			
User controls	Front mounted			
On screen buttons	Brightness, Contrast, Auto set-up Disable, H/V Position, Clock, Clock Phase and Priority			
Part numbers				
Model AC Version	29LP1901A51UN/3			
Model DC Version	29LP1901E51UN/3 (12VDC)			

Specifications are subject to change without notice.

# SIDE VIEW FRONT VIEW 483mm 467mm 130mm 1

### Monitors

Desktop Monitors Large screen Monitors Custom-made Monitors 19" Rack Mount Monitors Rear Mount Monitors Monitors for Panel Mount Monitors for VESA Mount Kiosks Accessories

### • Monitors - Specific applications

Stainless Steel Monitors Car Displays Marine Monitors Military Monitors Replacement Monitors Train Monitors

### • Panel PC's

High Performance Systems Custom made Panel PC's Low Power Systems Extreme environments

### Pointing devices

Accessories
Touchpads
Trackballs
Trackball Modules
Joysticks
Custom made Pointing Devices

### Keyboards

Desktop Keyboards with or without pointer Built-in Keyboards with or without pointer Cables & Connectors Custom made Keyboards



## mulder-hardenberg

Mulder-Hardenberg, est. 1927, is the answer to professional demands in the domain of electronic related environments. We don't just sell products. We use our multidiscipline knowledge to provide the best possible solution, designed to your specific interest.

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