

**29LPT1001T**

**RGB-to-DVI VIDEO SCALING**

## Legacy Signal Conversion

### SPECIFICATION

#### INPUTS:

RGB Signal : a. Analog RGB 0.7-1.0Vp-p  
b. TTL >2.75Vp-p (additional cables required)

Input Connectors: 15 pin D, BNC x 5

Sync. Type/Level: Separate H&V (+/-ve) TTL or Composite (-ve) TTL or Sync-on-Green (-ve) 0.3V

Slow Scan Support: Pre-programmed Analog or TTL inputs in 15-40kHz range + Autosave of new signals (see table examples)

Horizontal Scan: 15-80kHz

Vertical Scan: 40-80Hz

Clock Rate: 135MHz max

Controls: Brightness, Contrast, H/V size & position plus Full OSD Menu functions (On Screen Display) buttons at front)

#### OUTPUTS:

Digital Signal: DVI-D (using cable supplied with monitor)

Resolution: Selectable according to native resolution of monitor used

Controls: Full use of monitor controls



- Specially designed for Slow Scan Signals (e.g. Siemens WF470, ABB MOD300, GEM 80)
- TTL, Analogue & Interlaced Signals accepted
- Automatic Save of new signal timings
- Output to any standard DVI-D TFT Monitor
- BNC & 15-D input connectors
- Selectable Output Resolutions according to
- DVI-D monitor used
- Rugged Metal Construction with mounting points

### POWER INPUTS

Power Supply: 90-265Vac 50/60Hz Internal Switched Mode

Power Consumption: 20W Max.

### PHYSICAL/ENVIRONMENTAL

Dimensions (approx): 294 x 165 x 58 mm

Weight (approx): 2Kg.

Housing: Painted Steel (Black)

Operating Temp: 0 to 50°C

Storage Temp: -20 to 65°C

### PART NUMBERS

Analogue Video: 29LPT1001T

TTL Cables: \* 30PH1224 (3-Bit & 6-Bit)  
30PH1241 (4-Bit)

AC "Y" Lead \* 70KA6506 (AC In/AC Out)

\* Optional Items as required

All specification are subject to change without prior notice

The **29LPT1001T** is a unique RGB video scaler designed for Slow Scan signals. It transforms the low pixel count produced by legacy System controllers into full screen displays on modern TFT monitors.

It is proposed as an alternative to KME's UN Series of Slow Scan TFT monitors where benign environments allows the use of a commercial PC monitor instead of an industrial-grade unit.

The **29LPT1001T** accepts a wide range of non-standard RGB video signals (analogue or TTL) and transforms them into DVI-D format with scaling according to the native resolution of the PC monitor. (SVGA, XGA or SXGA) Low refresh rate or interlaced signals are displayed flicker-free with superb clarity. 60+ timings in the 15kHz – 40kHz range are pre-programmed at delivery. Unknown signals are automatically displayed but some fine adjustments will be required for optimization. New settings are stored and automatically recalled when connected again. The table below shows a small selection of

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

# 29LPT1001T

## VIDEO CONVERTER RGB TO DVI



### SEPARATE SYNCs

5 Wire system:

Video is on three cables, red, green and blue.

Synchronising pulses are on two separate cables, Horizontal syncs and Vertical syncs.

### COMPOSITE SYNCs

4 Wire system:

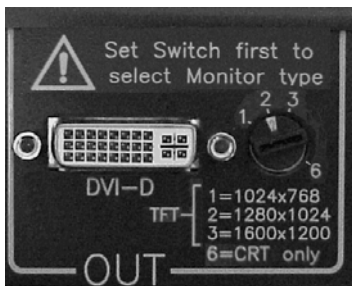
Video is on three cables, red, green and blue.

Synchronising pulses are combined onto a single cable. These Composite Syncs are connected to the "H" input of the LPT box.

### SYNC ON GREEN

3 Wire system:

Video is on three cables, red, green and blue. Synchronising pulses are added onto the green video cable.



### Connect the Monitor to the LPT Box.

Simply connect the monitor's DVI cable to this connector.

DVI Output connector on LPT Box.

