

PremierView12ID

12.1" SVGA Multimedia LCD Monitor for Industrial & OEM Use

Calibre specialises in high performance LCD display solutions for industrial, OEM, military and aerospace applications. PremierView monitors feature flexible signal capability, excellent motion reproduction and accurate, artifact free image re-sizing.

Calibre's PremierView12ID is a very high performance TFT-LCD display. Based around Calibre's proprietary PremierView4 LCD driver technology, it is able to connect directly to a very wide range of video or computer image sources and display images full screen on its 12.1" viewable diagonal, wide viewing angle screen.

PremierView4 is one of the most flexible LCD systems on the market able to accept a wide range of input resolutions. PremierView4 features true autoscanning real-time software algorithms to allow it to be adjusted to suit most non-standard resolutions and signal timings within its resolution, line and field rate ranges. Specific compatibility with non-standard signal timings and custom resolutions can also be provided as a customer specific option.

PremierView12ID uses an 800x600 TFT LCD panel for display of real-time Video or computer VGA-XGA full screen, full-motion in real time. Through the standard VGA connector, composite sync and sync on green from high resolution sources such as workstations are also supported. A DVI digital graphics input is available as an optional extra.

A professional grade video decoder is available as an option which gives outstanding composite and YC video performance through the use of a 4-line comb filter and vertical noise reduction algorithm. This option also adds a selectable RGB/YUV component video input. SDI serial digital video with PAL or NTSC timings is also available as an additional option. A lower cost standard grade video decoder is also available for less demanding applications.

High performance scaling algorithms work without compromising image quality or resolution irrespective of the signal resolution implemented. It is compatible with Composite and Y/C (SVHS, S-video) inputs with automatic detection of PAL, NTSC & SECAM video, and/or most computer RGB signals from 640x350 up to 1024x768. Very flexible wide-ranging picture controls are provided via an on-screen menu. These controls include picture size/position controls as well as contrast, brightness, and colour/hue for video.

PremierView12ID is available with two LCD panel options, either a very high brightness Toshiba 12.1" 18-bit per pixel panel or a high brightness NEC 12.1" 18-bit per pixel panel. Both feature wide viewing angles and very bright images. All image scaling is performed at 24-bit per RGB pixel data width, it is then converted to 18-bits using an adaptive high-performance conversion algorithm. This ensures maximum colour depth and accurate grey-scale reproduction, with no field merging, no field dropping or repetition and no pixel or line dropping to ensure accurate motion reproduction and clean image scaling.

PremierView12ID comes as a an OEM open chassis module. Touchscreens are also available for all models.

Technical Information

Panel Specification:

Viewable image size 31cm/12.1" nominal.
Panel resolution 800x600.
Colour depth - 6 bits per colour, 18-bits total,
Viewing angles -
Toshiba panel deg TBA L/R, U/D,
NEC panel deg 55L/R, 40U/60D.
Panel brightness -
Toshiba panel 500cd/m² nominal,
NEC panel 350cd/m² nominal.
Panel contrast ratio -
Toshiba panel 250:1 typical,
NEC panel 350:1 typical.

Signal compatibility:

Input 1 – computer RGB via 15HDD socket.
640x350 up to 1024x768, 50-70Hz refresh, non-interlaced. (Note: 1024x768 support is via image downscaling to fit the 800x600 resolution panel. There may be a slight loss of image quality in downscale mode.)

Syncs: separate TTL/5V positive or negative, negative combined sync TTL level, or negative sync on green consisting of 0.3V sync and 0.7V video.

Input 2 – composite video via BNC

PAL, NTSC or SECAM, automatic standards detection. Pro Video model has automatic enhanced-bandwidth monochrome mode.

Input 3 – YC/S-Video via 4-pin Mini-DIN

PAL, NTSC or SECAM, automatic standards detection.

Input 4 – Pro Video Option Only

RGB or YUV component video via 3 or 4 BNCs.

Input 5 – Pro Video with SDI Option Only

SDI Serial Digital Video via BNC.

Input 6 – DVI Option Only

DVI Digital Visual Interface, DDC2B compatible for connection to DVI compatible graphics cards.

Touchscreen option:

Resistive touchscreen with RS232 serial controller available to special order.

Power requirement:

12VDC at approximately 35W with NEC panel, 40W with Toshiba panel.

An optional mains PSU is available.

Other power options available to order include ground isolated 12VDC, 24VDC and, 28VDC with optional industrial or military grade power filtering. These options may be subject to MOQs.

Model numbers:

31SLCD16 xx y zz

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| | | -SC = open chassis

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| | | -N = NEC panel
| | | -T = Toshiba panel

| | |
|-01 = VGA analogue only
|-02 = VGA analogue + DVI
|-03 = VGA analogue & Std Video
|-04 = 03 + DVI
|-05 = VGA analogue & Pro Video
|-06 = 05 + DVI
|-09 = 05 + SDI Video
|-10 = 05 + DVI + SDI Video
|-11 = Standard video only
|-13 = Professional video only
|-14 = Pro Video + SDI

Dimensions and Weights:

Open chassis models

Size TBA mm

Unit weight approx 1.5Kg, Shipping weight TBA

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