

PremierView6ID

6.3" XGA LCD Monitor for Industrial, OEM and Military Applications



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

Calibre's PremierView6ID 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 6.3" viewable diagonal, wide viewing angle screen.

PremierView6ID uses an exceptionally fine pitch LCD display panel with 1024x768 native resolution over its 6.3" (16cm) diagonal viewing area. This is the finest pitch commercial TFT-LCD panel commercially available for monitor use.

PremierView4 driver technology 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. PremierView4 is available with several video input options including a standard grade video decoder for non-critical applications and a professional grade video decoder with four-line adaptive comb filter, component video compatibility and a specially optimised true monochrome video display mode.

PremierView6ID displays real-time Video or computer VGA-SXGA full screen, full-motion in real time. 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 1280x1024. Very flexible wide-ranging picture controls are provided via an on-screen menu. These controls include picture size and position controls as well as contrast, brightness, and colour/hue for video.

Compatibility with non-standard signal timings and custom resolutions can also be provided as a customer specific option.

PremierView6ID with uses a high bright 6.3" wide viewing angle LCD panel with 250cd/m² typical brightness and typical viewing angles of 60 degrees left/right/down and 45 degrees up. PremierView6ID provides an exceptional image with accurate grey-scale reproduction and clean image scaling. The panel is run field-locked to the input signal to give best possible motion reproduction. In video display mode all memory usage is fully double-buffered to avoid frame tear on fast moving objects.

PremierView6ID is available as an OEM open chassis module. A semi-custom rugged cased unit is also available to special order.



Technical Information

Panel Specification:

Viewable image size 16.1cm/6.3" nominal.
Panel resolution 1024x768.
Colour depth 6 bits per colour, 18-bits total.
Viewing angles 60deg L/R//D, 45deg U typical.
Panel brightness 250cd/m² typical,
Panel contrast ratio 300:1 typical.

Signal compatibility:

Input 1 – computer RGB via 15HDD socket.
640x350 up to 1280x1024, 50-75Hz refresh,
non-interlaced. (Note: 1280x1024 support is via
image downscaling to fit the 1024x768 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 25W (TBC).

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:

16XLCD16 xx NSC

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|-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:

Metal cased models

Size TBA excluding connectors
Unit weight TBA, Shipping weight TBA Kg

Open chassis models

Size TBA mm
Unit weight approx 1.5Kg, Shipping weight TBA

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