

PremierView18ID

18.1" SXGA Multimedia LCD Monitor for Industrial, OEM and Desktop



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 PremierView18ID 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 18.1" 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.

PremierView18ID uses a high resolution 1280x1024 TFT LCD panel for display of real-time Video or computer VGA-UXGA full screen. 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 1600x1200. 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.

PremierView18ID uses a high brightness very high contrast ratio 18.1" wide viewing angle LCD panels from IDtech (IBM). This panel has 270cd/m2 typical typical brightness, 24-bits per pixel and ultra-wide viewing angles of typically 85deg left/right and up/down. PremierView18ID provides an exceptional image with accurate grey-scale reproduction and clean image scaling. When driving the IDtech panel with video images PremierView4 uses a double-buffered video frame-rate tracking algorithm to avoid frame tear on fast moving objects.

PremierView18ID is available as a metal cased display unit or as an OEM open chassis module. The metal cased display unit incorporates side mounting points. Cased units include an anti-scratch, anti-glare front viewing window. Touchscreens are also available to order. Optional accessories include a desk stand, wall mounts, telescopic arm mount and a 19" rackmount kit.

Technical Information

Panel Specification:

Viewable image size 46cm/18.1" nominal.
Panel resolution 1280x1024.
Colour depth 8 bits per colour, 24-bits total.
Viewing angles 85deg L/R/U/D typical,
Panel brightness 270cd/m² nominal
Panel contrast ratio 400:1 nominal

Signal compatibility:

Input 1 – computer RGB via 15HDD socket.
640x350 up to 1600x1200, 50-75Hz refresh,
non-interlaced. (Note: 1600x1200 support is via
image downscaling to fit the 1280x1024
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.
Touchscreen has anti-glare finish, fitted in place
of anti-scratch anti-glare viewing window.

Power requirement:

12VDC at approximately 70W.

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.

Model numbers:

46ELCD26 xx | zz

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| | | -M3 = industrial metal case
| | | -SC = open chassis

| | |
| | | -I = IDtech 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

Size & Weight: - cased units

Outside dimensions 442mmx389mmx66mm
Approx. weight 7-7.5Kg depending on config.

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