

PremierView10ID

10.4" Multimedia LCD Monitor for Industrial, OEM and Desktop 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 PremierView10ID 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 10.4" 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.

PremierView10ID is available with two TFT LCD panel resolutions, 800x600 or 1024x768 for display of real-time Video or computer images full screen, full-motion in real time, with no frame rate conversion. 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 (model with 800x600 panel) or 1280x1024 (model with 1024x768 panel). 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.

PremierView10ID panel options are either a 1024x768 or an 800x600 10.4" NEC panel. Both feature wide viewing angles and 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.

PremierView10ID comes as a metal cased display unit or an OEM open chassis module. The metal cased display unit incorporates side mounting points and VESA-compatible rear mountings. Cased units include an anti-scratch, anti-glare front viewing window. Touchscreens are also available to special order. Optional accessories include a desk stand, wall mounts and telescopic arm mount.

Technical Information

Panel Specification:

Viewable image size 26cm/10.4" nominal.
Panel resolution -
1024x768 or 800x600 depending on model.
Colour depth - 6 bits per colour, 18-bits total,
Viewing angles -
1024x768 panel deg 60L/R, 45U/60D,
800x600 panel deg 50L/R, 35U/45D.
Panel brightness -
1024x768 panel 300cd/m² nominal,
800x600 panel 280cd/m² nominal.
Panel contrast ratio 300:1 typical.

Signal compatibility:

Input 1 – computer RGB via 15HDD socket.
Model with 1024x768 panel supports incoming resolutions from 640x350 up to 1280x1024.
Model with 800x600 panel supports incoming resolutions from 640x350 up to 1024x768 .
(Note: Incoming resolutions above actual panel resolution are supported via image downscaling to fit the panel. There may be a slight loss of image quality in downscale mode.)
All resolutions are supported up to 70Hz refresh, some modes may also be supported up to 75Hz.

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 9-way D connector.

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. DVI subject to MOQ on 10.4" models.

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. Touchscreen option subject to MOQ on 10.4" models.

Power requirement:

12VDC at approximately 25W with 800x600 panel, approximately 30W with 1024x768 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:

26vLCD16 xx N zz

| -M3 = industrial metal case

| -SC = open chassis

| -01 = VGA analogue only

| -02 = VGA analogue + DVI

| -03 = VGA analogue & Std Video

| -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

| -S = 800x600 panel

| -X = 1024x768 panel

Dimensions and Weights:

Metal cased models

Size 281x240x50mm excluding connectors
Unit weight 3Kg, Shipping weight TBA Kg

Open chassis models

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

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