

All Digital Time Domain Imaging WXGA-R3-XD

For the best in the world image quality.

Forth Dimension Displays' WXGA-R3-XD system is a fast switching, all digital high performance reflective microdisplay and interface electronics with an extended length drive cable. Using no colour sub-pixels, the proprietary Time Domain Imaging (TDI) technology provides full colour high resolution images from one all digital microdisplay.

To meet the needs expressed by customers of the WXGA-R3, an extended drive option (-XD) is available which features a longer, thinner and more flexible umbilical cable. This is applicable to end customers requiring 5 metres or more between the main interface electronics and the microdisplay. The WXGA-R3-XD performs to the high standards set by the WXGA-R3, specifically with the increased refresh rate which enhances the performance of the microdisplay in both display and spatial light modulating applications.

BENEFITS

High resolution

Single microdisplay for multiple applications

Full colour and all digital

No sub-pixels or colour filters

Compatible with multiple illumination sources

FEATURES

WXGA resolution – 1280 x 768 pixels

Reflective microdisplay with 0.8" / 20.3mm diagonal

24-bit native colour depth (8-bit per colour)

Optional dither algorithms to increase greyscale resolution

Fast switching liquid crystal with typical 40 μ sec switching

Refresh rate up to 85Hz at full colour depth

Analogue (VGA) and Digital Video (DVI) inputs

High fill factor > 96%

Electronics remote to microdisplay at lengths of 5m or 10 m

Different display addressing sequences available for diverse applications

Optional customization service for special requirements

RS232/ USB interface for system control



Applications

TRAINING AND SIMULATION

Monocular viewers

Binocular viewers

Head Mounted Displays (HMDs)

Head-up displays

MEDICAL IMAGING

Image injection for surgical microscopes

Stereoscopic imaging

Ophthalmic metrology

MEDIA

High resolution electronic viewfinders (EVFs)

Holographic Printing

3D METROLOGY

Confocal microscopy

Fringe projection

Phase shift profilometry



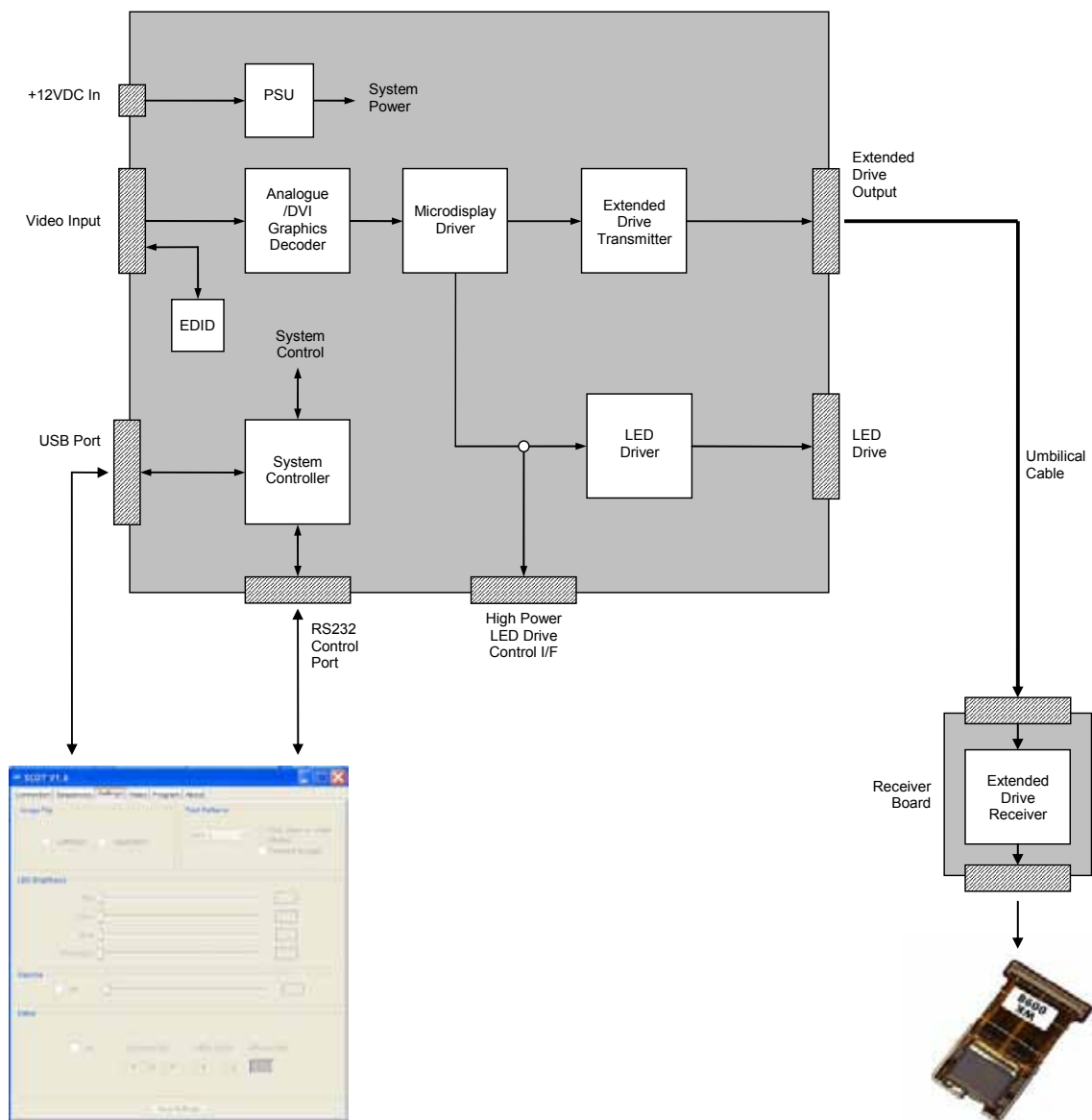
All Digital

Time Domain Imaging

WXGA-R3-XD

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A system level overview of the WXGA-R3-XD is given below:



For further information or to
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