



WDR-2122-H Wide Dynamic Range CMOS Camera

Rev 1.0

Features and Benefits

- Supports WDR CMOS Sensors
 - Aptina MT9M021
- Multiple Video Outputs
 - HDMI
 - LVDS
- Simultaneous Video Inputs
 - HDMI/DVI
 - Display Port
 - RS170/ NTSC/ PAL
- Multiple Output Displays
 - eMagin WUXGA, SXGA OLEDs
 - HDMI/DVI enabled LCD Screen
- Image Processing
 - Data Fusion, Picture-in-Picture, and much more

Wide Dynamic Range (WDR) CMOS Camera System

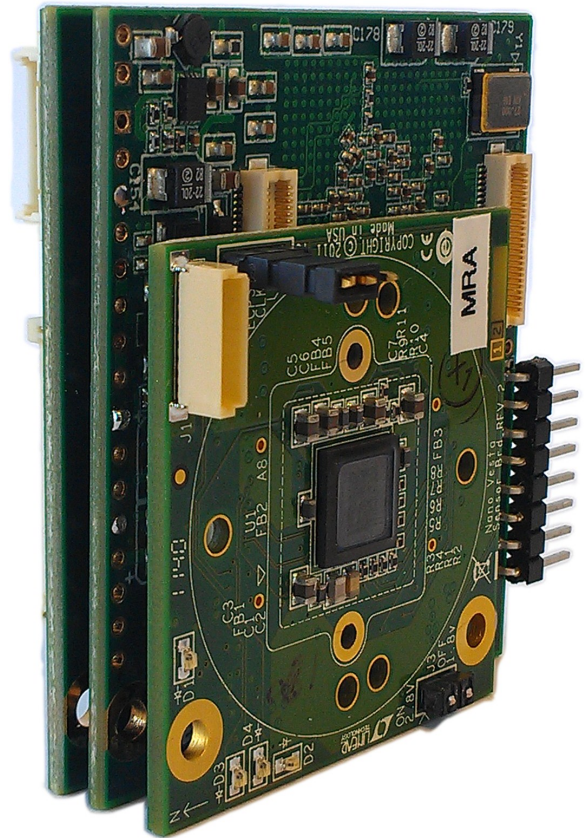
Designed for security, medical and surveillance applications the WDR-2122-H allows the user to see in environments where non WDR cameras fail. The WDR-2122H filters the intense back light surrounding a subject and thus enhances the ability to distinguish features and shapes on the subject. Conventional camera systems when placed in the same environment as the WDR-2122H will have a washed-out background.

The output video from the WDR-2122 can be displayed on any LCD screen via HDMI, eMagin SXGA or WUXGA OLEDs, and custom LVDS TFT panels.

In addition to its WDR CMOS sensor input, the WDR-2122H also supports simultaneous HDMI, and Dual RS170/NTSC/PAL video inputs.

With its onboard real-time FPGA and DDR memory, the WDR-2122H is designed to be a video processing hub for all sorts sensors and video inputs.

Output Video can be transmitted wirelessly with 10ms of latency to eMagin OLEDs, LCD TV and other display technology using our WLLV wireless low latency technology.



Power Consumption

Input Voltage	6 – 15 V DC
Power Consumption	500mW (Depends on Configuration)

Input Video Format

WDR CMOS Sensors	HDMI, RS170, NISTC, PAL
Aptina MT9M021	

Output Video Format

HDMI, LVDS, eMagin	SXGA, WUXGA OLEDs
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Software Configuration

USB - PC Application

Mechanicals

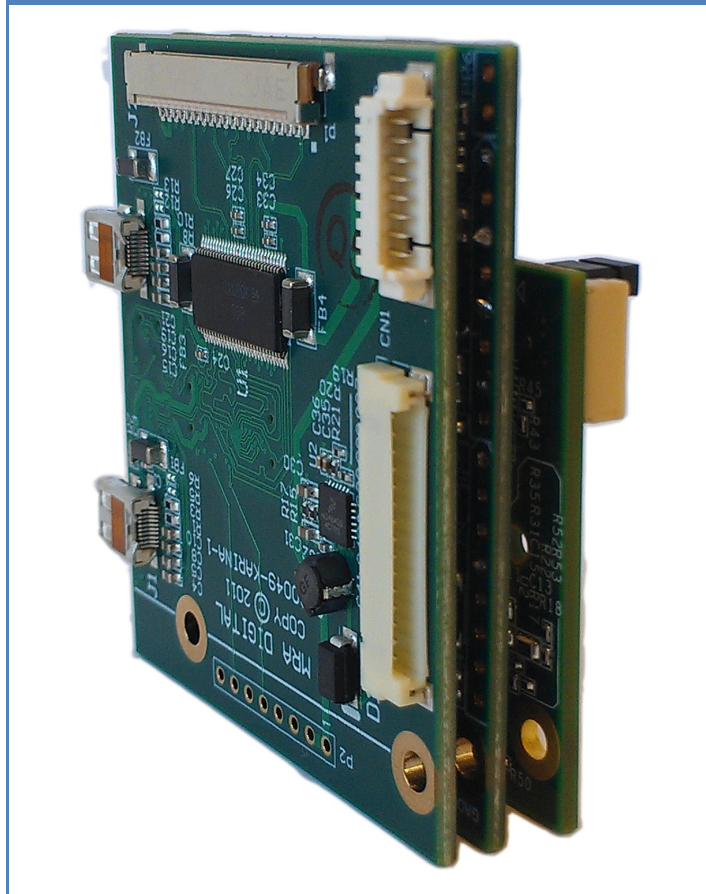
Dimension (L x W)	2.1 x 2.2 inches
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Auxiliary Features

12 Analog/ Digital Inputs/Outputs

Additional Software Features via On board embedded micro-controller

Additional Product Photo



Wireless Low Latency Video (WLLV)

Wireless Low Latency Video – Make your OLED based product wireless by using MRA Digital wireless video technology. Transmitting up to 1080p with 1-2 frame of latency at ranges over 100 meters with Wi-Fi and miles using microwave or Wi-Max. Contact us for more info.

Ordering Information

Part Number	Description
WDR-2122H	WDR Camera System with HDMI Video Output
WDR-2122H-1RNP	WDR Camera System with HDMI Video Output and RS170/NTSC/PAL Input
WDR-2122H-2RNP	WDR Camera System with HDMI Video Output and Dual RS170/NTSC/PAL Inputs
WDR-2122H-SXGA	WDR Camera System with HDMI and eMagin SXGA Video Outputs
WDR-2122G-WUXGA	WDR Camera System with HDMI and eMagin WUXGA Video Outputs
WDR-2122H-1RNP-SXGA	WDR Camera System with HDMI and eMagin SXGA Video Outputs, and RS170/NTSC/PAL input
WDR-2122H-RNP-WUXGA	WDR Camera System with HDMI and eMagin WUXGA Video Outputs, and RS170/NTSC/PAL input
WDR-2122H-	