

Wide Dynamic Range Cameras Using Pixim's Digital Pixel System® Technology

Bid-Spec

The Wide Dynamic Range (WDR) camera shall be a high-resolution color 1/3" Pixim type with a minimum of 500 lines of horizontal resolution, 460 lines of vertical resolution, and light sensitivity of 0.8 lux or better at F1.2.

- The camera shall support NTSC and PAL formats.
- The camera shall support Exposure Pre-sets (Indoor, Outdoor, etc), Auto Tracking and Push-to-Set White Balance, Wide Dynamic Range, Line Lock, Switchable Video Format (NTSC, PAL), Digital Slow Shutter and at least one flicker-reducing Fluorescent Mode.
- The camera shall support up to a maximum of 120dB of dynamic range.
- The camera will use a pixel by pixel exposure control system in which each pixel has its own shutter that supports independent shutter speeds.

Quick-Spec

Minimum Performance Specifications

All cameras, including mini-dome, box, board, bullet, composite, TCP/IP, turret, zoom, and PVM which use Pixim's Digital Pixel System technology must support the following minimum performance specifications.

Imager	Pixim Orca family chipset
Imaging technology.....	Digital Pixel System (DPS) technology
Optical format	1/3" (6.3mm diagonal)
Video output	1.0 Vp-p/75 ohm
Video format	NTSC and PAL switchable via menu or switch
Horizontal resolution	500+ HTVL
Vertical resolution	460+ VTVL
Active pixel count	720 (H) x 540 (V)
Minimum scene illumination	0.8 lux @ F1.2 (DSS off)
Digital slow shutter (DSS).....	2x (minimum) up to 32x (max)
Wide dynamic range (WDR).....	102dB (typical), up to 120dB (max)
Sync system	Phase-adjustable line-lock, or internal
S/N ratio	>50dB, 53dB (max)
White balance.....	ATW, AWB (push to set)
ATW range (normal).....	2800 K – 7500 K
ATW range (extended).....	2000 K – 11000 K
Flickerless mode	Selectable On, Off via menu or switch
Auto iris drive.....	DC or Manual
Composite video.....	BNC