

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 690 lines of effective horizontal resolution, 460 lines of vertical resolution, and light sensitivity of 0.1 lux or better at F1.2, color, 30FPS.

- 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 a minimum of both 17-bits and 102dB of dynamic range, up to a maximum of 20-bits and 120dB dynamic range image capture.
- The camera will use a pixel by pixel exposure control system in which each pixel has its own shutter that supports independent shutter speeds.
- The camera shall employ progressive image capture with global electronic shutter.

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 Seawolf Chip
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	690 HTVL effective
Vertical resolution.....	460+ VTVL
Active pixel count	720 (H) x 540 (V)
Minimum scene illumination	0.1 lux @ F1.2 color, 30FPS
Digital slow shutter (DSS)	2x (minimum) up to 32x (max)
Wide dynamic range (WDR)	17-bits and 102dB (min); 20-bits and 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
Image Capture.....	Progressive Scan
Shuttering.....	Global Electronic Shuttering



Pixim, Inc.
 1395 Charleston Rd.
 Mountain View, CA 94043

P: 650 934.0550
 F: 650 934.0560
 www.pixim.com