Eagle-4 Digital RealTime System Specifications

CAMERA	
Sensor type	CMOS
Sensor resolution	2352 x 1728
Number of pixels	4,064,256
Sensor maximum frame rate at full resolution	200 fps
Sensor maximum frame rate at partial scan	>10,000 fps
Camera maximum frame rate at full resolution	166 fps
Camera maximum frame rate at partial scan	2,000 fps
Camera frame rates	1-2000 Hz
Infinitely variable frame rate	Yes
Shutter type	Electronic rolling shutter
Zoom lens available	Yes
Zoom lens mount type	K (bayonet)
Zoom lens (35 mm SLR)	18-55 mm
C-mount lens available	Yes
C-mount lens offerings	12.5mm, 25mm, 50mm
CS-mount lens available	No
CS-mount lens offerings	Not Applicable
Camera body dimensions	189mm (H), 147mm (W), 95mm (D)
Camera weight, including ringlight	4.8 lbs (2.18 Kg)
Camera housing	Custom die-cast aluminum
Number of camera mount points	4
Multiple camera types on one system	Yes
Maximum number of cameras	Unlimited
Camera software and firmware upgradeable	Yes
Upgrade methods	FTP, email, or CD
Camera cabling	Custom (thin Ethernet, power)
Camera connectors	Proprietary PoE
Camera power supply	via custom Hub
Grayscale depth	10 bit
On-camera masking	Yes
In-camera dynamic large blob eliminator	Yes
Software masking	Yes
Auto-masking	Yes
Camera output modes	Consistent on-camera grayscale edge detection for every marker at all frame rates
Full frame preview output	Quad-corner
Back focus mode	Yes
RINGLIGHT / STROBE	
Ringlight strobe type	Infrared (850nm), Near Infrared (750nm), Visible Red (630nm)
Ringlight cover types	Clear, diffused
Strobe electronics	Integrated, software reprogrammable
Number of LED's per ringlight	237
Adjustable illumination	Yes
SYSTEM CONNECTIVITY	
Plug and Play compatability	Yes
System connectivity	Gigabit Ethernet
Maximum number of cameras in system	Unlimited
Custom control interface	Yes
Communication status indicators	Yes
Integrated camera display panel	200 bi-color LED array
Camera number indicator	Yes
Master camera indicator	Yes
IP addressable	Yes
IP reconfigurable	Yes
Genlock to external video source	Yes
Synchronize to external signal	Yes
Additonal sync box needed	No
External sync output	Yes
Additional external sync box needed	No
External A/D sync + clock	Yes
External VGA	Yes
Camera diagnostic interface	Yes

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