



Hawk-I Digital RealTime System Specifications

CAMERA

Sensor type	CMOS
Sensor resolution	659 x 494 active pixels; 640 x 480 visible pixels
Number of pixels	307,200
Sensor maximum frame rate at full resolution	200 fps
Sensor maximum frame rate at partial scan	>2,000 fps
Camera maximum frame rate at full resolution	200 fps
Camera frame rates	1-200 Hz
Infinitely variable frame rate	Yes
Shutter type	TrueSNAP freeze-frame electronic shutter
Zoom lens available	No
Zoom lens mount type	Not Applicable
Zoom lens (35 mm SLR)	Not Applicable
C-mount lens available	No
C-mount lens offerings	Not Applicable
CS-mount lens available	Yes
CS-mount lens offerings	3.7mm, 6mm, 12mm
Camera body dimensions	142mm (H), 55mm (W), 34mm (D)
Camera weight, including ringlight	15 ounces (.467 Kg)
Camera housing	Machined aluminum
Number of camera mount points	3
Multiple camera types on one system	Yes
Camera software and firmware upgradeable	Yes
Upgrade methods	FTP, email, or CD
Camera cabling	Custom PoE
Camera connectors	Proprietary PoE
Camera power supply	via custom Hub
Grayscale depth	10 bit
On-camera masking	No
In-camera dynamic large blob eliminator	No
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	Yes
Back focus mode	Yes

RINGLIGHT / STROBE

Ringlight strobe type	Infrared (850nm), Near Infrared (750nm)
Ringlight cover types	Clear
Strobe electronics	Integrated, software reprogrammable
Number of LED's per ringlight	53
Adjustable illumination	Yes

SYSTEM CONNECTIVITY / ACCURACY

Plug and Play compatibility	Yes
System connectivity	Gigabit Ethernet
Maximum number of cameras in system	Unlimited
Custom control interface	Yes
Communication status indicators	Yes
Integrated camera display panel	Dual 7-segment display
Camera number indicator	Yes
Master camera indicator	No
IP addressable	Yes
IP reconfigurable	Yes
Genlock to external video source	Yes
Synchronize to external signal	Yes
Additional 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

Motion Analysis Corporation
3617 Westwind Blvd.
Santa Rosa, California
USA 95403

www.motionanalysis.com
(T) 707.579.6500
(F) 707.578.8473
info@motionanalysis.com