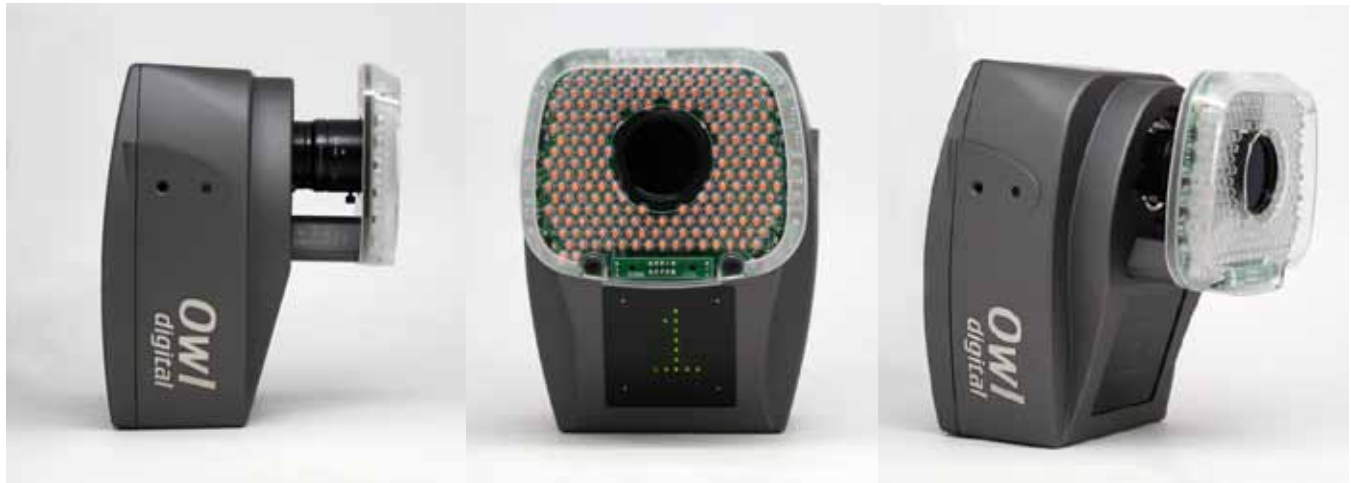


# Owl Specifications



## CAMERA

Frame size (pixels)	.3 megapixels
Resolution	640 x 480
Frame rate at full resolution	250 fps
Shutter type	TrueSNAP freeze-frame electronic shutter
Standard lens	6-15mm zoom
Camera power supply	HCP-8
Camera connectors	Ethernet, Sync in/out
Camera cabling	Standard Cat5E, power over ethernet
Camera body dimensions	147mm wide x 92mm deep x 189mm high
Camera weight, including ringlight	4.4 lbs. (2.0 kg)
Number of camera mount points	4
Power consumption	35 watts

## RINGLIGHT

Strobe Type	Near Infrared (750 nm)
Strobe electronics	Integrated, software reprogrammable
LEDs	208
Adjustable Illumination	Yes

## ENVIRONMENTAL

Temperature, Operating	10° to 35°C, (50° to 95°F)
Temperature, Storage	-40° to 65°C (-40° to 149°F)
Relative Humidity	20% to 80% (non-condensing)

## SYSTEM CONNECTIVITY

Plug and play compatability	Yes
System connectivity	Gigabit Ethernet
Custom control interface	Yes
Master camera indicator	Yes
Camera number indicator	Yes
Integrated camera display panel	200 bi-color LED array
Insight auto-focus	No
Communication status indicators	Yes
Maximum number of cameras	Unlimited
Multiple camera types in system	Yes
Genlock to external video source	Yes
Synchronize to external signal	Yes
IP addressable	Yes
IP reconfigurable	Yes
External A/D sync and clock	Yes

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# Owl Digital RealTime System



The Owl Digital RealTime System consists of Owl Digital Cameras and Cortex software, which captures complex motion with extreme accuracy. Real-time capabilities allow our customers to see capture results at the same instant as the subject is performing a specific task. The Owl can be mixed with other Motion Analysis digital cameras to optimize your capabilities.

## Owl Digital Camera

The Owl Digital Camera, with a 640 x 480 full resolution at up to 200 frames per second, offers the motion capture industry the benefit of all-digital technology at an economical price for smaller environments.

The Owl Digital Cameras provide today's motion capture technicians with a tool that assures reliable and accurate data. With digital technology there is no degradation of the signal over distance, less noise, and no resampling of data on another piece of electronics.

With today's motion capture facilities demanding multiple person capture within increasing volumes, the stability of the signal becomes critical. The Owl Digital Camera signal goes directly to the tracking computer via an Ethernet connection. The signal processing is embedded in the camera. This streamlined system of motion capture from camera to computer means less hardware and less potential for equipment problems. The FPGA (field programmable field array) built into the Owl is software and firmware upgradeable via the Internet - you don't even have to take the cameras down.

## Features

- 1-200 Hz selectable frame rates at full resolution
- Portable - up to 8 cameras in two suitcases
- C-Mount or zoom lens available
- Separate zoom, iris and focus settings independent of ringlight
- Available with visible red or near infrared ringlights
- LED display panel for camera identification and status
- 208 LED's for brighter and better light uniformity
- Strobed ringlight with camera body heat sink
- Four body mount points on camera for variable positioning
- Software controlled adjustable light output
- Software controlled electronic shutter

## Cortex

Cortex software provides a user with a simple and powerful interface. Under a single software environment you can set up, calibrate, capture motion in real-time, capture motion for post processing, edit and save data in the format of your choice.

## Integration

- Fully compatible with Cortex software
- Standard TCP/IP Protocol
- 128 channels of synchronized 16-bit analog data acquisition (forceplate and EMG data)
- Exportable to all major animation software packages

