



# SPECIFICATION SHEET

## OS II

The OS II HD is a compact camera offering crisp, HD images in buffered or streaming mode. With its flexible design, OStreaming cameras can connect to a host PC via the 10Gbps ethernet interface or to XStream camera infrastructure via the XStreamLink interface. The HD model comes standard with a Motorized MFT mount and supports up to 1920 x 1080 resolution at 5,850 fps in buffered mode. For high-G applications, the camera can be configured with an optional C mount. Additional connectivity options offer easy out-of-the box implementation for single or multi-camera installations.

- Compact form factor
- Flexible buffer or streaming options
- Motorized MFT Standard

### APPLICATIONS

Automotive, Research

### KEY FEATURES

|                           |                      |
|---------------------------|----------------------|
| Maximum Resolution        | 1920 x 1080          |
| Maximum FPS @ Maximum Res | 5,850 fps            |
| Operating Temperature     | -40+50°C / -40+122°F |

### FRAME PROPERTIES

|                     |                                     |
|---------------------|-------------------------------------|
| Sensor Type         | CMOS - Proprietary                  |
| Sensor Size         | 17.5 x 9.85 mm                      |
| Sensor Format       | 1.3 inch                            |
| Pixel Size (micron) | 9.13 x 9.13 µm                      |
| Pixel Depth         | 12 bit mono 36 bit color            |
| Sensitivity         | 30,000 ISO Mono, 10,000 ISO Color   |
| Min. Exposure Time  | 1µs (*Shorter integration optional) |
| Array               | 2.0 megapixel                       |
| Quantum Efficiency  | 50%                                 |

### MECHANICAL

|                   |   |
|-------------------|---|
| Weight            | 0.4 kg or 0.9 lbs                       |
| Dimensions        | 72 x 64 x 85 mm (W x H x L)             |
| Shock & Vibration | Shock: 200G / Vibration: 40G - All axes |
| Mount             | Motorized MFT Mount (Standard), C Mount |

### TRIGGERING AND SYNCHRONIZATION

|          |   |
|----------|---|
| Sync In  | Phase-lock TTL, IEEE1588 UDP, 1PPS                              |
| Sync Out | Frame sync / Strobe   |
| Trigger  | TTL & Switch/Circular buffer with on-camera or software trigger |

## Model OS II-HD



### POWER

|               |         |
|---------------|---------|
| Input Voltage | 7-14VDC |
|---------------|---------|

### COMMUNICATION INTERFACE

|          |         |
|----------|---------|
| Ethernet | 10 Gbps |
|----------|---------|

### EMBEDDED LOGIC

|   |                    |
|---|--------------------|
| Debayering                                      | Color Cameras Only |
| Temporal Noise Reduction                        | Standard           |
| Dynamic Noise Reduction                         | Standard           |
| User defined ROI's and LUT's                    | Standard           |
| Frame to frame Auto-Exposure and Motion Trigger | Standard           |

### SOFTWARE

|                       |  |
|-----------------------|--|
| Motion Studio         | Windows 32/64                                    |
| Motion Inspector      | Windows 32/64 - MAC OS X - Apple iOS             |
| Plug-ins/SDK          | LabVIEW™ or MatLab®                              |
| File Formats          | Proprietary RAW                                  |
| On-the-fly Conversion | TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF |