OS II

Model OS II-5K

The OS II 5K is a compact camera offering crisp, high resolution 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, including the XStream Time Capsule. Model 5K comes standard with a Motorized MFT mount and supports up to 5120 x 2880 resolution at 400 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	5120 x 2880
Maximum FPS @ Maximum Res	400 fps
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS – Proprietary
Sensor Size	18.2 x 10.2 mm
Sensor Format	1.3 inch
Pixel Size (micron)	3.55 x 3.55 µm
Pixel Depth	12 bit mono 36 bit color
Sensitivity	6,000 ISO Mono, 2,000 ISO Color
Min. Exposure Time	1µs (*Shorter integration optional)
Array	12 megapixel
Quantum Efficiency	60%

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

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

XStream Motion Monitor	Windows 64
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