

SPECIFICATION SHEET

Model XS-1440p PCIe 3.0

XStream

The IDT X-Stream 1440p PCIe 3.0 offers continuous frame streaming with a PCI Express 3.0 x4 interface that achieves a sustained transfer speed of 3.87 GB/s; surpassing the transfer rate of its PCIe 2.0 counterpart. Its flexible design has been implemented around our CMOS sensor with Global Shutter delivering up to 670 fps at full resolution (2560 x 1440 pixels). Advanced features include Frame to frame Auto-exposure, Motion Trigger and Double-exposure for PIV users. The especially tuned Motion Monitor application operates the camera in the Windows®, Linux® or Mac OS® X environments with features that include always-on live, record while saving and on-demand playback from disk. The X-Stream 1440p PCIe 3.0 camera is especially suited for a variety of uses ranging from industrial and packaging inspection, microscopy, media/cine including special effects, traffic control and surveillance.



- Streaming camera
- High-resolution and frame rate
- High sensitivity, low noise
- PCIe 3.0 x4 interface

APPLICATIONS

Research & Development, Instructional Labs, Media

KEY FEATURES

2560 x 1440	
670 fps	
109,644 @ 2560 x 8	
-40+40 °C / -40+104 °F	
	670 fps 109,644 @ 2560 x 8

FRAME PROPERTIES

Sensor Type	CMOS – Proprietary	
Sensor Size	17.9 x 10.1 mm	
Sensor Format	1.3 inch	
Pixel Size (micron)	7.00 x 7.00 um	
Pixel Depth	11 bit mono 30 bit color	
Sensitivity	6,000 ISO Mono 2,000 ISO Color	
Min. Exposure Time	1μs	
Array	3.7 megapixel	
Quantum Efficiency	1	

MECHANICAL

PIECHANICAE	
Weight	0.24 kg or 0.53 lbs
Dimensions	65 x 120 x 36.5 mm (W x H x L)
Shock & Vibration	Shock: 100G /Vibration: 40G - All axes
Mount	Manual Micro Four Thirds Mount (Standard), C- Mount or C/F-Mount optional

TRIGGERING AND SYNCHRONIZATION

Sync In	LVCMOS
Sync Out	Frame sync / Strobe
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger

POWER

Input Voltage	6 VDC
EMBEDDED LOGIC	
User defined ROI's and LUT's	Standard
Frame to frame Auto-Exposure and Motion Trigger	Standard

SOFTWARE

Plug-ins/SDK	SDK, LabVIEW [™] or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF