

XStream Stick HD

The XStream Stick HD camera is IDT's ultra-compact high frame-rate camera that streams crisp images up to 1000 fps with a resolution of 1920 x 1536 pixels when configured for continuous streaming with IDT's Thunderbolt 3 Adapter and up to 1475 fps with a resolution of 1920 x 1080 pixels when configured for concurrent LIVE streaming and SLOW MOTION playback with IDT's XStream Time Capsule. Capable of withstanding 100G impact forces, the camera supports C, NF and S mount lenses and manages power, data and synchronization are through a single USB-C cable.

- Ultra-compact form factor
- Versatile lens support
- Plug and play connectivity
- Power, data and synchronization in one cable

APPLICATIONS

Automotive Crash Safety (Off-Board), Research & Development, Airborne, Broadcast & Cinema



KEY FEATURES

Maximum Resolution	1920 x 1536
Maximum FPS @ Maximum Res	1000 fps
Operating Temperature	-40+40°C / -40+104°F

FRAME PROPERTIES

Sensor Type	CMOS Proprietary
Sensor Size	8.5 x 6.8 mm
Sensor Format	2/3 inch
Pixel Size (micron)	4.4 x 4.4 μm
Pixel Depth	10 bit mono 30 bit color
Sensitivity	10,000 ISO Mono, 3,000 ISO Color
Array	2.9 megapixel
Quantum Efficiency	50%

MECHANICAL

Weight	0.06 kg or 0.14 lb
Dimensions	25 x 92 x 17 mm (W x H x L)
Shock & Vibration	100G
Mount	C, NF & S Mount (Standard)

TRIGGERING AND SYNCHRONIZATION

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

POWER

Input Voltage	12VDC
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COMMUNICATION INTERFACE

Ethernet	via USB-C
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EMBEDDED LOGIC

Debayering	Color Cameras Only
User defined ROI's and LUT's	Standard

SOFTWARE

Motion Studio	Windows 32/64 - MAC OS X- Apple iOS
Plug-ins/SDK	TBD
File Formats	TBD