



SPECIFICATION SHEET

XStream SugarCube™

Model XS SugarCube

The SugarCube™ camera is IDT's ultra-mini, high frame-rate camera that streams crisp images up to 1000 fps with a resolution of 1920 x 1536 pixels when paired with IDT processors. Capable of withstanding 200G impact forces, the camera is ideal for small spaces where standard camera sizes won't fit. The camera supports C, NF, and S mount lenses and manages power, data, and synchronization through a single ruggedized 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	1,000 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	0.054 kg or 0.12 lb
Dimensions	28 x 30 x 42 mm (W x H x L)
Shock & Vibration	200G
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

POWER

Input Voltage	12VDC
---------------	-------

COMMUNICATION INTERFACE

XStreamLink	via USB-C
-------------	-----------

EMBEDDED LOGIC

Debayering	Color Cameras Only
User defined ROIs and LUTs	Standard

SOFTWARE

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