Model XS II-1550

The XStream II 1550 is a rugged camera designed for flexibility in streaming environments. The Model 1550 supports 1440×1024 resolution up to 4,850 fps and comes standard with a motorized Micro Four Thirds lens mount. With its dual-mode USB-C and XStreamLink fiber capability, XStream II camera heads integrate seamlessly with IDT's XStream Thunderbolt 3 Processor in USB-C mode or with IDT's XStream Time Servers in XStreamLink mode. Experience LIVE with INSTANT REPLAY with IDT's intuitive XStream Motion Monitor software.

- High Speed Streaming
- Dual-Mode USB-C or Fiber Interface
- LIVE with INSTANT REPLAY

APPLICATIONS

Aerospace, Military Range testing, Research

KEY FEATURES

Maximum Resolution	1440 x 1024
Maximum FPS @ Maximum Res	4,850 fps
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS – Proprietary
Sensor Size	16.7 x 11.9 mm
Sensor Format	1.3 inch
Pixel Size (micron)	11.60 x 11.60 um
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	1.5 megapixel
Quantum Efficiency	60%

MECHANICAL

Weight	0.67 kg or 1.48 lbs
Dimensions	68.7 x 64.3 x 133.7 mm (W x H x L)
Mount	Motorized MFT Mount (Standard)

TRIGGERING AND SYNCHRONIZATION

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

POWER

Input Voltage	12VDC

COMMUNICATION INTERFACE

Copper	XStreamLink USB-C
Fiber Optic	XStreamLink Fiber

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
Mission Mode for Remote/Autonomous Operation	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	SDK, LabVIEW™ or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF

XS II

Model XS II-3530

The XStream II 3530 is a rugged camera designed for flexibility in streaming environments. The Model 3530 supports 2560×1440 resolution up to 3,000 fps and comes standard with a motorized Micro Four Thirds lens mount. With its dual-mode USB-C and XStreamLink fiber capability, XStream II camera heads integrate seamlessly with IDT's XStream Thunderbolt 3 Processor in USB-C mode or with IDT's XStream Time Servers in XStreamLink mode. Experience LIVE with INSTANT REPLAY with IDT's intuitive XStream Motion Monitor software.

- High Speed Streaming
- Dual-Mode USB-C or Fiber Interface
- LIVE with INSTANT REPLAY

APPLICATIONS

Aerospace, Automotive, Research

KEY FEATURES

Maximum Resolution	2560 x 1440
Maximum FPS @ Maximum Res	3,000 fps
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS – Proprietary
Sensor Size	19.2 x 10.8 mm
Sensor Format	1.3 inch
Pixel Size (micron)	7.50 x 7.50 um
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	3.7 megapixel
Quantum Efficiency	60%

MECHANICAL

Weight	0.67 kg or 1.48 lbs
Dimensions	68.7 x 64.3 x 133.7 mm (W x H x L)
Mount	Motorized MFT (Standard)

TRIGGERING AND SYNCHRONIZATION

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

POWER

Input Voltage	12VDC

COMMUNICATION INTERFACE

Copper	XStreamLink USB-C
Fiber Optic	XStreamLink Fiber

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
Mission Mode for Remote/Autonomous Operation	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	SDK, LabVIEW™ or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF

XS II

Model XS II-4K Veloce

The XStream II 4K Veloce is a rugged camera designed for flexibility in streaming environments. The Model 4K Veloce supports 3840×2160 resolution up to 1,000 fps and comes standard with a motorized Micro Four Thirds lens mount. With its dual-mode USB-C and XStreamLink fiber capability, XStream II camera heads integrate seamlessly with IDT's XStream Thunderbolt 3 Processor in USB-C mode or with IDT's XStream Time Servers in XStreamLink mode. Experience LIVE with INSTANT REPLAY with IDT's intuitive XStream Motion Monitor software.

• High Speed Streaming
• Dual-Mode USB-C or Fiber Interface
• LIVE with INSTANT REPLAY

APPLICATIONS

Aerospace, Automotive, Research

KEY FEATURES

Maximum Resolution	3840 x 2160
Maximum FPS @ Maximum Res	1,000 fps
Maximum FPS	5N/A
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS – Proprietary
Sensor Size	16 x 8.4 mm (Active)
Sensor Format	1.3 inch
Pixel Size (micron)	3.90 x 3.90 um
Pixel Depth	10 bit mono 30 bit color
Sensitivity	6000 ISO Mono 2000 ISO Color
Min. Exposure Time	1μs (*Shorter Integration optional)
Array	8.8 megapixel
Quantum Efficiency	60%

MECHANICAL

Weight	.67 kg or 1.48 lbs
Dimensions	68.7 x 2.53 x 5.26 mm (W x H x L)
Mount	Motorized MFT (Standard)

TRIGGERING AND SYNCHRONIZATION

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

POWER

Input Voltage	12VDC

COMMUNICATION INTERFACE

Copper	XStreamLink USB-C
Fiber Optic	XStreamLink

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
Mission Mode for Remote/Autonomous Operation	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	SDK, LabVIEW™ or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF

XS II

The XStream II 5K is a rugged camera designed for flexibility in streaming environments. The Model 5K supports 5120×2880 resolution up to 400 fps and comes standard with a motorized Micro Four Thirds lens mount. With its dual-mode USB-C and XStreamLink fiber capability, XStream II camera heads integrate seamlessly with IDT's XStream Thunderbolt 3 Processor in USB-C mode or with IDT's XStream Time Servers in XStreamLink mode. Experience LIVE with INSTANT REPLAY with IDT's intuitive XStream Motion Monitor software.

- 5K Resolution
- High Speed Streaming
- Dual-Mode USB-C or Fiber Interface
- LIVE with INSTANT REPLAY

APPLICATIONS

Aerospace, 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	18.4 x 10.4 mm
Sensor Format	1.3 inch
Pixel Size (micron)	3.6 x 3.6 um
Pixel Depth	12 bit mono 36 bit color
Sensitivity	6000 ISO Mono 2000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	8 megapixel
Quantum Efficiency	60%

MECHANICAL

Weight	.67 kg or 1.48 lbs
Dimensions	68.7 x 2.53 x 5.26 mm (W x H x L)
Mount	Motorized MFT (Standard)

TRIGGERING AND SYNCHRONIZATION

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

POWER

Input Voltage	12VDC

COMMUNICATION INTERFACE

Copper	XStreamLink USB-C
Fiber Optic	XStreamLink Fiber

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
Mission Mode for Remote/Autonomous Operation	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	SDK, LabVIEW™ or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF