



SPECIFICATION SHEET

Model XS II-1550

The XStream II 1550 is a rugged camera designed for flexibility in streaming environments. The Model 1550 supports 1440x1024 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

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|---------------------|-------------------------------------|
| 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

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|------------|------------------------------------|
| 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

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



POWER

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

COMMUNICATION INTERFACE

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|-------------|-------------------|
| 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 |