The New Class of High-Speed

4,260fps @ 2048x1536 | 13GPx/s throughput | ISO 16,000 / 125,000

FEATURES

- High resolution 2048x1536 pixel sensor (3.1MPx)
- 1080p resolution at 6,380 frames/second
- Up to 288 GB of on-board memory for long recordings
- Internal or external SSD drive for fast data transfer
- Microlens sensor for exceptional light sensitivity
- Wide Dynamic Range recording
- Global electronic shutter to 313 ns*
- 1 hour battery life
- Compatible with all Nikon F and Canon EF mount lenses
- Maximum frame rate – 1,000,000 fps
- Flexible frame synchronization from 10 Hz to 200 kHz
- Environmentally rugged package available
- 32 point integrated real-time health monitoring system
- Upgrade path between models

* Subject to export regulations, shorter shutter speeds are available by request. Contact IX Cameras for more information.
SPECIFICATIONS

IMAGER

- Sensor type: Custom CMOS
- Sensor resolution: 2048 x 1536 pixel
- Sensor size: 27.972 mm x 20.736 mm
- Sensor diagonal: 34.82 mm
- Pixel size: 13.5 μm
- Bit depth: 12 bit (36 bit color)
- Light sensitivity Mono (Gain off/on): 16,000 / 125,000
- Light sensitivity Color (Gain off/on): 4,000 / 32,000
- Maximum frame rate: 1,000,000 fps
- Shutter time, fast mode: 313 ns
- WDR: Wide Dynamic Range

SYNCHRONIZATION and CAPTURE

- Trigger: TTL T0 to 0-100%
- Trigger modes: Circular, ROC, BROC
- Sync: 10 Hz - 200 kHz
- Luminance histogram: Iris setting aid tool
- i-CHEQ 360: Camera status LEDs
- i-FOCUS: Focusing aid tool
- i-EXPOSE: High/low exposure highlight
- Control: PC or CDUe
- IRIG input: IRIG – B to sub 1 μs
- IRIG sync: IRIG – B to sub 1 μs
- Internal memory: 36 GB standard, upgrade to 288 GB

PHYSICAL and ENVIRONMENTAL

- Dimensions
  - Instrumentation package
    - inches: 14.3 (W) x 6.2 (H) x 6.2 (L)
    - mm: 363 (W) x 157 (H) x 154 (L)
  - Rugged package
    - inches: 14.75 (W) x 6.0 (H) x 5.75 (L)
    - mm: 374 (W) x 150 (H) x 143.5 (L)
- Weight: 18.7 lb (8.5 kg) with battery
- Input voltage: 12-36 V
- Power consumption: 150 W Nominal, 200 W Max
- Mounting: ¼x20 and 3/8x16 tripod plate
- Battery: 2x 14.4 V 90 Wh
- Battery life: 1 hour
- Lens mount: Custom, swappable lens plate
- EMC: EN55032-A, EN55024
- Safety: BS EN61010-1 (camera), IEC60950 (PSU)
- CE marking: EMC Directive (Camera), LV Directive (PSU)
- Lead free: RoHS Directive
- WEEE: Compliant
- IP rating: IP 20
- Temperature “F: 32 to 104 operation, -4 to 140 storage
- Temperature “C: 0 to 40 operation, -20 to 60 storage
- Pressure: 71 kpa to 106 kpa
- Relative humidity: 95% at 104°F non-condensing
- G-shock, Instrumentation package: 10 G
- G-shock, Rugged package: 30 G @ 11 ms IEC 68-2-27 Ea, 30 G @ 2 ms IEC 68-2-29 Eb
- Power input connector: 6 pin Lemo
- Trigger input: BNC 75 Ω
- Feature connector: 18 pin Lemo, trigger in / sync / sync.out / exposure out / remote power

CONNECTIVITY

- Video outputs: 2x HD-SDI, HDMI
- USB: USB 3
- Network: 1 Gb RJ4S
- Video: IXV, AV (compressed or uncompressed)
- Image sequence: TIFF, JPEG, RAW
- Ethernet control: 1 Gb
- Remote control: Via supplied software

PC SOFTWARE

- CDUe: Portable Control Unit
- Sensor: Color / Mono
- Memory: 36 GB (std) / 72 GB / 96 GB / 144 GB / 288 GB
- Shutter time: 1 μs (std) / 313 ns (subject to export restrictions)
- Internal SSD: 500GB / 1TB / 2TB
- External SSD: 250GB / 500GB / 1TB / 2TB
- Lens mounts: F mount (Nikkor D) / F mount (Nikkor G) / C mount / EF mount
- Package type: Instrumentation / Rugged
- Warranty: 1 yr (std) / 2 yr / 3 yr
- Internal Batteries: Set of 2 batteries

FRAME RATES, RESOLUTION, and DURATION (in seconds)

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<tr>
<th>Frame Speed</th>
<th>Resolution 36GB</th>
<th>72GB</th>
<th>96GB</th>
<th>144GB</th>
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Note: Other resolutions and speeds are available.

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