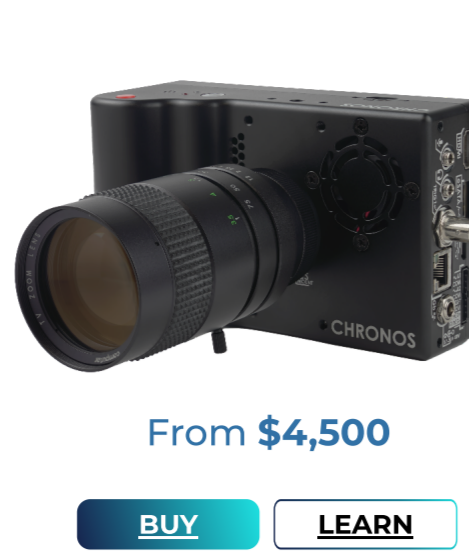


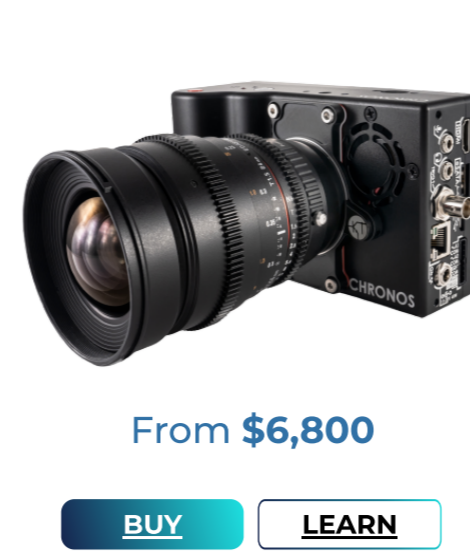
**Chronos 1.4**



From \$4,500

[BUY](#) [LEARN](#)

**Chronos 2.1-HD**



From \$6,800

[BUY](#) [LEARN](#)

**Chronos 4K12**



From \$14,495

[BUY](#) [LEARN](#)

**Chronos Q12**



From \$19,995

[BUY](#) [LEARN](#)

**OVERVIEW**

<b>Maximum Resolution</b>	1280 x 1024 at 1,069 FPS	1920 x 1080 <b>HD</b> at 1,000 FPS	4096 x 2160 <b>4K</b> at 1,397 FPS	2048 x 2016 at 2,782 FPS
<b>Minimum Resolution</b>	320 x 96 at 40,413 FPS	640 x 96 at 24,046 FPS	128 x 32 at 29,002 FPS	128 x 32 at 29,411 FPS
<b>Throughput</b>	1.4 GigaPixels per second	2.1 GigaPixels per second	11.8 GigaPixels per second	11.8 GigaPixels per second
<b>Memory Options</b>	8 GB, 16 GB, 32 GB	8 GB, 16 GB, 32 GB	64 GB, 128 GB	64 GB, 128 GB
<b>Record Time at Max Resolution</b>	4s (8GB), 8s (16GB), 16s (32GB)	2.7s (8GB), 5.5s (16GB), 11s (32GB)	5.5s (64GB), 11s (128GB)	5.9s (64GB), 11.8s (128GB)
<b>Save Formats Uncompressed</b>	CinemaDNG Raw, TIFF Raw	CinemaDNG Raw, TIFF Raw	CinemaDNG Raw	CinemaDNG Raw
<b>Save Formats Compressed</b>	H.264/AVC MPEG-4 File Format	H.264/AVC MPEG-4 File Format	H.264/AVC & H.265/HEVC MPEG-4 File Format	H.264/AVC & H.265/HEVC MPEG-4 File Format
<b>Built-In Storage</b>	—	—	1 TB NVMe SSD	1 TB NVMe SSD
<b>Built-In Touchscreen</b>	5" 800x480 High Brightness LCD	5" 800x480 High Brightness LCD	5" 800x480 High Brightness LCD	5" 800x480 High Brightness LCD
<b>Built-In Battery</b>	Removable, 1.5 Hour Runtime	Removable, 1.5 Hour Runtime	—	—
<b>Power Input</b>	17-20 Volts DC 40W	17-20 Volts DC 40W	12-24 Volts DC 60W	12-24 Volts DC 60W
<b>Size &amp; Weight (Without Lens)</b>	Handheld 1.06 kg (2.34 lbs)	Handheld 1.06 kg (2.34 lbs)	Handheld 1.32 kg (2.91 lbs)	Handheld 1.32 kg (2.91 lbs)

**IMAGE SENSOR**

<b>Format</b>	2/3"	4/3"	4/3"	S35
<b>Pixel Size</b>	6.6µm	10µm	4.5µm	9µm
<b>Diagonal</b>	10.8mm	22.0mm	22.9mm	25.86 mm
<b>Active Area</b>	8.45mm x 6.76mm	19.20mm x 10.80mm	20.74mm x 9.79mm	18.44mm x 18.14mm
<b>Crop Factor</b>	3.9	2	2	1.6
<b>Sensitivity (ISO) Color Sensors</b>	320 - 5120	500 - 8000	100, 150, 200, 400	200, 280, 400, 600
<b>Sensitivity (ISO) Mono Sensors</b>	740 - 11840	1000 - 16000	200, 300, 400, 800	400, 560, 800, 1200
<b>Shutter Type</b>	Global Electronic	Global Electronic	Global Electronic	Global Electronic
<b>Shutter Duration</b>	1/FPS to 1µs (1/1,000,000s)	1/FPS to 10µs (1/100,000s)	1/FPS to 1µs (1/1,000,000s)	1/FPS to 4µs (1/250,000s)
<b>Dynamic Range</b>	9.4 stops (56.7 dB)	10.3 stops (62.4 dB)	11.3 stops (68 dB)	11.3 stops (68 dB)
<b>Bit Depth</b>	12-bit	12-bit	8-bit, 10-bit, 12-bit	8-bit, 12-bit
<b>Crop Factor at 1920 x 1080 (HD)</b>	—	2	4.4	2.2
<b>Black Calibration Method</b>	Manual	Manual	Automatic	Automatic

**LENS MOUNTS**

<b>Standards Lens Mount</b>	CS/C Mount	CS/C Mount	Universal Plate	Universal Plate
<b>User-Installable Mount Plates</b>	MFT-Mount	MFT-Mount	C-Mount, E-Mount, F-Mount, EF-Mount, MFT-Mount	C-Mount, E-Mount, F-Mount, EF-Mount, MFT-Mount
<b>Electronic Lens Control</b>	—	—	—	—
<b>Backfocus Adjustment</b>	Adjustable, Locking Ring	Adjustable, Locking Ring	Adjustable, Shim Kit	Adjustable, Shim Kit
<b>Infrared Filter</b>	Removable - 650nm	Removable - 650nm	Removable - 650nm	Removable - 650nm

**RECORDING**

<b>Frame Buffer (RAM)</b>	8 GB, 16 GB, 32 GB	8 GB, 16 GB, 32 GB	64 GB, 128 GB	64 GB, 128 GB
<b>Simultaneous 60 FPS Recording</b>	✓	✓	✓	✓

**ASSISTIVE & VIDEO PROCESSING FEATURES**

<b>Focus Aid / Peaking</b>	✓	✓	✓	✓
<b>Over-Exposure Indicator (Zebras)</b>	✓	✓	✓	✓
<b>1:1 Viewfinder Zoom on LCD</b>	✓	✓	✓	✓
<b>Histogram (Linear &amp; Logarithmic)</b>	—	—	✓	—
<b>Gain</b>	✓	✓	✓	✓
<b>Color Temperature / White Balance</b>	✓	✓	✓	✓
<b>Color Matrix</b>	✓	✓	✓	✓
<b>Text Overlays</b>	✓	✓	✓	✓
<b>Calibrated ICC Profile</b>	—	—	✓	✓

**PLAYBACK & SAVING**

<b>Built-In Storage Media</b>	—	—	1 TB NVMe SSD	1 TB NVMe SSD
<b>Save to External Media</b>	✓	✓	✓	✓
<b>Save to Networked Drive</b>	✓	✓	✓	✓
<b>On-Camera Review</b>	Play / Pause / Mark-Start / Mark-End	Play / Pause / Mark-Start / Mark-End	Play / Pause / Mark-Start / Mark-End	Play / Pause / Mark-Start / Mark-End
<b>On-Camera File Browser</b>	✓	✓	✓	✓
<b>Play Footage Once Saved to Media</b>	—	—	✓	✓

**CONNECTIVITY**

<b>USB Port 1</b>	Type-A (USB 2.0, 480 Mbps)	Type-A (USB 2.0, 480 Mbps)	Type-C (USB 3.2 Gen 1, 5 Gbps)	Type-C (USB 3.2 Gen 1, 5 Gbps)
<b>USB Port 1 - Supported Modes</b>	Peripheral Connections (SSD, etc.)	Peripheral Connections (SSD, etc.)	PC Connection or Peripheral Connections	PC Connection or Peripheral Connections
<b>USB Port 2</b>	Micro-B (USB 2.0, 480 Mbps)	Micro-B (USB 2.0, 480 Mbps)	Type-C (USB 3.2 Gen 2x2, 20 Gbps)	Type-C (USB 3.2 Gen 2x2, 20 Gbps)
<b>USB Port 2 - Supported Modes</b>	PC Connection	PC Connection	Peripheral Connections (SSD, etc.)	Peripheral Connections (SSD, etc.)
<b>eSATA</b>	✓	✓	—	—
<b>SD Card</b>	✓	✓	✓	✓
<b>Gigabit Ethernet</b>	✓	✓	via USB-C Adapter	via USB-C Adapter
<b>Wireless</b>	—	—	via USB-C Adapter	via USB-C Adapter
<b>HDMI Output</b>	720p or 1080p at 60 FPS	720p or 1080p at 60 FPS	1080p at 60 FPS or 4K at 30 FPS	1080p at 60 FPS or 4K at 30 FPS

**TRIGGERING & SYNCHRONIZATION**

<b>Trigger Input/ Output Channels</b>	3	3	3	3
<b>Trigger Interface</b>	1x BNC + 2x Terminal Block	1x BNC + 2x Terminal Block	4-pin 3.5mm TRRS Connector	4-pin 3.5mm TRRS Connector
<b>Multiple Camera Synchronization</b>	✓	✓	✓	✓

**POWER**

<b>Built-In Battery</b>	✓	✓	—	—
<b>Battery Type</b>	EN-EL4a	EN-EL4a	—	—
<b>Runtime</b>	1.5 Hours	1 Hour	—	—
<b>Charge Time</b>	2 Hours (0-80%) with in-camera charger	2 Hours (0-80%) with in-camera charger	—	—
<b>Power Input Jack</b>	Locking Barrel Jack, 5.5mm x 2.5mm	Locking Barrel Jack, 5.5mm x 2.5mm	Locking Barrel Jack, 5.5mm x 2.5mm	Locking Barrel Jack, 5.5mm x 2.5mm
<b>Input Voltage</b>	17-20 Volts DC	17-20 Volts DC	12-24 Volts DC	12-24 Volts DC
<b>Typical Power Consumption</b>	40 Watts	40 Watts	60 Watts	60 Watts
<b>D-Tap Battery Cable Included?</b>	—	—	✓	✓

**MECHANICAL & ENVIRONMENTAL**

<b>Enclosure Material</b>	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
<b>Cooling System</b>	Single Fan	Single Fan	Dual Fan	Dual Fan
<b>Dimensions (Metric)</b>	155mm x 96mm x 67.3mm	155mm x 96mm x 67.3mm	188mm x 111mm x 53mm	188mm x 111mm x 53mm
<b>Dimensions (Imperial)</b>	6.11" x 3.78" x 2.65"	6.11" x 3.78" x 2.65"	7.40" x 4.37" x 2.08"	7.40" x 4.37" x 2.08"
<b>Weight</b>	1.06 kg (2.34 lbs)	1.06 kg (2.34 lbs)	1.32 kg (2.91 lbs)	1.32 kg (2.91 lbs)
<b>Operating Temperature</b>	-20 °C to +40 °C (-4 °F to +104 °F)	-20 °C to +40 °C (-4 °F to +104 °F)	0 °C to +40 °C (32 °F to +104 °F)	0 °C to +40 °C (32 °F to +104 °F)

**SOFTWARE & REMOTE CONTROL**

<b>REST API</b>	✓	✓	✓	✓
<b>Network Video Streaming</b>	✓	✓	✓	✓
<b>Control via Web Interface</b>	✓	✓	✓	✓
<b>Control via iOS/Android/Desktop App</b>	Coming Soon	Coming Soon	Coming Soon	Coming Soon

**WARRANTY & SUPPORT**

<b>Standard Warranty</b>	1 Year	1 Year	1 Year	1 Year
<b>Extended Warranty Options</b>	1 or 2 Year Extension	1 or 2 Year Extension	1 or 2 Year Extension	1 or 2 Year Extension
<b>User Manual</b>	Paper, Online PDF	Paper, Online PDF	Interactive Online Knowledgebase	Interactive Online Knowledgebase
<b>Email Support</b>	✓	✓	✓	✓
<b>Telephone Support</b>	✓	✓	✓	✓

**RESOLUTION & FRAME RATE COMPARISON CHART**

	Chronos 1.4	Chronos 2.1-HD	Chronos 4K12			Chronos Q12	
Bit Depth	12-bit (68.7 Billion Colors)	12-bit (68.7 Billion Colors)	8-bit (16.7 Million Colors)	10-bit (1.07 Billion Colors)	12-bit (68.7 Billion Colors)	8-bit (16.7 Million Colors)	12-bit (68.7 Billion Colors)
<b>4096 x 2160 4K</b>	—	—	1,397 FPS	1,006 FPS	481 FPS	—	—
<b>3840 x 2160 UHD</b>	—	—	1,491 FPS	1,006 FPS	481 FPS	—	—
<b>2048 x 2016 2K</b>	—	—	2,065 FPS	1,082 FPS	518 FPS	2,782 FPS	975 FPS
<b>1920 x 1080 HD</b>	—	1,000 FPS	3,651 FPS	1,947 FPS	942 FPS	4,936 FPS	1,731 FPS
<b>1280 x 1024</b>	1,069 FPS	1,512 FPS	3,856 FPS	2,060 FPS	998 FPS	6,534 FPS	1,829 FPS
<b>1280 x 720</b>	1,519 FPS	2,142 FPS	5,153 FPS	2,793 FPS	1,366 FPS	8,840 FPS	2,453 FPS
<b>800 x 600</b>	2,871 FPS	4,352 FPS	6,059 FPS	3,316 FPS	1,633 FPS	9,697 FPS	2,891 FPS
<b>320 x 240</b>	16,682 FPS	—	11,729 FPS	6,847 FPS	3,533 FPS	16,425 FPS	5,682 FPS
<b>1280 x 96</b>	11,184 FPS	14,825 FPS	20,413 FPS	13,268 FPS	7,495 FPS	23,992 FPS	10,123 FPS
<b>320 x 96</b>	40,413 FPS	—	20,413 FPS	13,268 FPS	7,495 FPS	23,992 FPS	10,123 FPS
<b>128 x 32</b>	—	—	29,002 FPS	21,231 FPS	13,590 FPS	29,411 FPS	14,727 FPS

Please Note: Frame rates for Chronos 4K12 and Chronos Q12 are preliminary, and may differ slightly in production cameras due to data-path optimizations.

**Find Out Which Chronos High-Speed Camera is Right For You at [www.krontech.ca](http://www.krontech.ca)**

