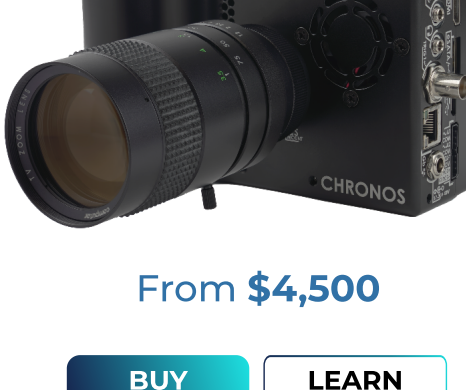


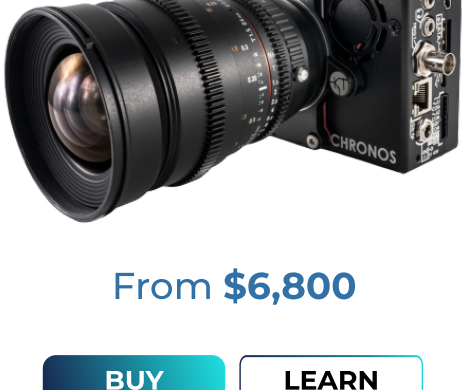
Chronos 1.4



From \$4,500

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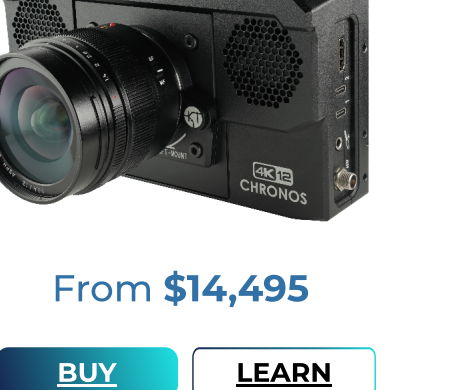
Chronos 2.1-HD



From \$6,800

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Chronos 4K12



From \$14,495

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Chronos Q12



From \$19,995

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OVERVIEW				
Maximum Resolution	1280 x 1024 at 1,069 FPS	1920 x 1080 HD at 1,000 FPS	4096 x 2160 4K at 1,397 FPS	2048 x 2016 at 2,782 FPS
Minimum Resolution	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
Throughput	1.4 Gigapixels per second	2.1 Gigapixels per second	11.8 Gigapixels per second	11.8 Gigapixels per second
Memory Options	8 GB, 16 GB, 32 GB	8 GB, 16 GB, 32 GB	64 GB, 128 GB	64 GB, 128 GB
Record Time at Max Resolution	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)
Save Formats Uncompressed	CinemaDNG Raw, TIFF Raw	CinemaDNG Raw, TIFF Raw	CinemaDNG Raw	CinemaDNG Raw
Save Formats Compressed	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
Built-In Storage	—	—	1 TB NVMe SSD	1 TB NVMe SSD
Built-In Touchscreen	5" 800x480 High Brightness LCD	5" 800x480 High Brightness LCD	5" 800x480 High Brightness LCD	5" 800x480 High Brightness LCD
Built-In Battery	Removable, 1.5 Hour Runtime	Removable, 1.5 Hour Runtime	—	—
Power Input	17-20 Volts DC 40W	17-20 Volts DC 40W	12-24 Volts DC 60W	12-24 Volts DC 60W
Size & Weight (Without Lens)	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				
Format	2/3"	4/3"	4/3"	S35
Pixel Size	6.6µm	10µm	4.5µm	9µm
Diagonal	10.8mm	22.0mm	22.9mm	25.86 mm
Active Area	8.45mm x 6.76mm	19.20mm x 10.80mm	20.74mm x 9.79mm	18.44mm x 18.14mm
Crop Factor	3.9	2	2	1.6
Sensitivity (ISO) Color Sensors	320 - 5120	500 - 8000	100, 150, 200, 400	200, 280, 400, 600
Sensitivity (ISO) Mono Sensors	740 - 11840	1000 - 16000	200, 300, 400, 800	400, 560, 800, 1200
Shutter Type	Global Electronic	Global Electronic	Global Electronic	Global Electronic
Shutter Duration	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)
Dynamic Range	9.4 stops (56.7 dB)	10.3 stops (62.4 dB)	11.3 stops (68 dB)	11.3 stops (68 dB)
Bit Depth	12-bit	12-bit	8-bit, 10-bit, 12-bit	8-bit, 12-bit
Crop Factor at 1920 x 1080 (HD)	—	2	4.4	2.2
Black Calibration Method	Manual	Manual	Automatic	Automatic

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

RECORDING				
Frame Buffer (RAM)	8 GB, 16 GB, 32 GB	8 GB, 16 GB, 32 GB	64 GB, 128 GB	64 GB, 128 GB
Simultaneous 60 FPS Recording	✓	✓	✓	✓

ASSISTIVE & VIDEO PROCESSING FEATURES				
Focus Aid / Peaking	✓	✓	✓	✓
Over-Exposure Indicator (Zebras)	✓	✓	✓	✓
1:1 Viewfinder Zoom on LCD	✓	✓	✓	✓
Histogram (Linear & Logarithmic)	—	—	✓	✓
Gain	✓	✓	✓	✓
Color Temperature / White Balance	✓	✓	✓	✓
Color Matrix	✓	✓	✓	✓
Text Overlays	✓	✓	✓	✓
Calibrated ICC Profile	—	—	✓	✓

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

CONNECTIVITY				
USB Port 1	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)
USB Port 1 - Supported Modes	Peripheral Connections (SSD, etc.)	Peripheral Connections (SSD, etc.)	PC Connection or Peripheral Connections	PC Connection or Peripheral Connections
USB Port 2	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)
USB Port 2 - Supported Modes	PC Connection	PC Connection	Peripheral Connections (SSD, etc.)	Peripheral Connections (SSD, etc.)
eSATA	✓	✓	—	—
SD Card	✓	✓	✓	✓
Gigabit Ethernet	✓	✓	via USB-C Adapter	via USB-C Adapter
Wireless	—	—	via USB-C Adapter	via USB-C Adapter
HDMI Output	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				
Trigger Input/ Output Channels	3	3	3	3
Trigger Interface	1x BNC + 2x Terminal Block	1x BNC + 2x Terminal Block	4-pin 3.5mm TRRS Connector	4-pin 3.5mm TRRS Connector
Multiple Camera Synchronization	✓	✓	✓	✓

POWER				
Built-In Battery	✓	✓	—	—
Battery Type	EN-EL4a	EN-EL4a	—	—
Runtime	1.5 Hours	1 Hour	—	—
Charge Time	2 Hours (0-80%) with in-camera charger	2 Hours (0-80%) with in-camera charger	—	—
Power Input Jack	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
Input Voltage	17-20 Volts DC	17-20 Volts DC	12-24 Volts DC	12-24 Volts DC
Typical Power Consumption	40 Watts	40 Watts	60 Watts	60 Watts
D-Tap Battery Cable Included?	—	—	✓	✓

MECHANICAL & ENVIRONMENTAL				
Enclosure Material	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Cooling System	Single Fan	Single Fan	Dual Fan	Dual Fan
Dimensions (Metric)	155mm x 96mm x 67.3mm	155mm x 96mm x 67.3mm	188mm x 111mm x 53mm	188mm x 111mm x 53mm
Dimensions (Imperial)	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"
Weight	1.06 kg (2.34 lbs)	1.06 kg (2.34 lbs)	1.32 kg (2.91 lbs)	1.32 kg (2.91 lbs)
Operating Temperature	-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				
REST API	✓	✓	✓	✓
Network Video Streaming	✓	✓	✓	✓
Control via Web Interface	✓	✓	✓	✓
Control via iOS/Android/ Desktop App	Coming Soon	Coming Soon	Coming Soon	Coming Soon

WARRANTY & SUPPORT				
Standard Warranty	1 Year	1 Year	1 Year	1 Year
Extended Warranty Options	1 or 2 Year Extension	1 or 2 Year Extension	1 or 2 Year Extension	1 or 2 Year Extension
User Manual	Paper, Online PDF	Paper, Online PDF	Interactive Online Knowledgebase	Interactive Online Knowledgebase
Email Support	✓	✓	✓	✓
Telephone Support	✓	✓	✓	✓

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)
4096 x 2160 4K	—	—	1,397 FPS	1,006 FPS	481 FPS	—	—
3840 x 2160 UHD	—	—	1,491 FPS	1,006 FPS	481 FPS	—	—
2048 x 2016 2K	—	—	2,065 FPS	1,082 FPS	518 FPS	2,782 FPS	975 FPS
1920 x 1080 HD	—	1,000 FPS	3,651 FPS	1,947 FPS	942 FPS	4,936 FPS	1,731 FPS
1280 x 1024	1,069 FPS	1,512 FPS	3,856 FPS	2,060 FPS	998 FPS	6,534 FPS	1,829 FPS
1280 x 720	1,519 FPS	2,142 FPS	5,153 FPS	2,793 FPS	1,366 FPS	8,840 FPS	2,453 FPS
800 x 600	2,871 FPS	4,352 FPS	6,059 FPS	3,316 FPS	1,633 FPS	9,697 FPS	2,891 FPS
320 x 240	16,682 FPS	—	11,729 FPS	6,847 FPS	3,533 FPS	16,425 FPS	5,682 FPS
1280 x 96	11,184 FPS	14,825 FPS	20,413 FPS	13,268 FPS	7,495 FPS	23,992 FPS	10,123 FPS
320 x 96	40,413 FPS	—	20,413 FPS	13,268 FPS	7,495 FPS	23,992 FPS	10,123 FPS
128 x 32	—	—	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

