CION

CION has been discontinued.

$ US MSRP

CION was a 4K/UltraHD and 2K/HD production camera from AJA. Shoot direct to edit-ready Apple ProRes 4444 at up to 4K 30fps, ProRes 422 at up to 4K 60fps, or output AJA Raw at up to 4K 120fps. CION is the union of great design and functionality, an engineered aesthetic that we are proud to describe as the Science of the Beautiful.

https://www.aja.com/products/cion

User Interface

- 6 x Dedicated menu buttons
  (STATUS, CONFIG, MEDIA, FPS, EI and WB)
- 4 x Transport buttons
  (Play, Fast Forward, Reverse Playback, Stop)
- 1 x Media unmount button
- 1 x Record button
- 1 x User Interface control knob
- 1 x User Interface screen, 320x240 LCD

Sensor Type

- CMOS, electronic global shutter, 12 stops of dynamic range

Sensor Size

- 4K APS-C sized, 22.5mm x 11.9mm

Shutter Angles Available (by Format)

23.98 & 24	25	29.97 & 30	50	59.94 & 60	119.88 & 120
360	360	360	360	360	360
180 (default)	300	216	300	216	216
172.8	180 (default)	180 (default)	180 (default)	180 (default)	180 (default)
144	150	120	120	120	120
120	90	90	90	90	90
90	45	45	45	45	45
45	30	30	30	30	30
30	15	15	15	15	15
15					

Shutter Speeds Available (by Format)

23.98 & 24	25	29.97 & 30	50	59.94 & 60	119.88 & 120
1/24	1/25	1/30	1/50	1/60	1/120
1/48 (default)	1/30	1/50	1/60	1/100	1/200
1/50	1/50 (default)	1/60 (default)	1/100 (default)	1/120 (default)	1/240 (default)
1/60	1/60	1/90	1/150	1/180	1/360
1/72	1/100	1/120	1/200	1/240	1/480
1/96	1/200	1/240	1/400	1/480	1/960
1/192	1/300	1/360	1/600	1/720	1/1440
1/288	1/600	1/720	1/1200	1/1440	1/2880
1/576					

Exposure Index

- 320, 500, 800, 1000

Color Correction

- Normal, Flat, Skin Tones, Video

Gamma

- None, Standard, Expanded, Video, Cine

Lens Mount

- Removable PL (positive lock) third party EF, B4 and G-Mount mounts are available.

Filtration

• Optical Low Pass Filter (OLPF) and IR Cut Filter (combined)

Removable Storage

• Pak Media, Pak-Adapt-CFast (only with qualified CFast media)

Video Output

• 4 x 3G-SDI main outputs
  (4 x BNC connectors, 3G/1.485 Gbps)
• 2 x 3G-SDI monitor outputs
  (1 x front mounted BNC connector,
  1 x rear mounted BNC connector, 3G/1.485 Gbps)
• 2 x HDMI outputs
  (1 x front mounted HDMI v1.3 Type A connector,
  1 x rear mounted HDMI v1.4 Type A connector)

Format, Frame Rate, Encoding and Output

4K

• (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60, 119.88, 120
• Apple ProRes 4444 or Apple ProRes 422 (all versions) up to and including 30 fps
• Apple ProRes 422 (or a lower data rate ProRes version) for 50, 59.94, 60 fps
• SDI output support for 23.98, 24, 25, 29.97, 30 fps
  (SDI 1-4 YCbCr, SDI 1-4 RGB or SDI 1 Raw)
• SDI output support for 50, 59.94, 60 fps (SDI 1-4 YCbCr or SDI 1-2 Raw)
• SDI output support for 119.88, 120 fps (SDI 1-4 Raw)

UltraHD

• (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60, 119.88, 120
• Apple ProRes 4444 or Apple ProRes 422 (all versions) up to and including 30 fps
• Apple ProRes 422 (or a lower data rate ProRes version) for 50, 59.94, 60 fps
• SDI output support for 23.98, 24, 25, 29.97, 30 fps
  (SDI 1-4 YCbCr, SDI 1-4 RGB or SDI 1 Raw)
• SDI output support for 50, 59.94, 60 fps (SDI 1-4 YCbCr or SDI 1-2 RAW)
• SDI output support for 119.88, 120 fps (SDI 1-4 Raw)

2K

• (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
• Apple ProRes 4444 or Apple ProRes 422 (all versions) up to and including 30 fps
• Apple ProRes 422 (all versions) for 50, 59.94, 60 fps
• SDI output support for 23.98, 24, 25, 29.97, 30 fps
  (SDI 1 YCbCr, SDI 1-2 RGB, or SDI 1 RGB)
• SDI output support for 50, 59.94, 60 fps (SDI 1-2 YCbCr or SDI 1 YCbCr)

1080p

• (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
• Apple ProRes 4444 or Apple ProRes 422 (all versions) up to and including 30 fps
• Apple ProRes 422 (all versions) for 50, 59.94, 60 fps
• SDI output support for 23.98, 24, 25, 29.97, 30 fps
  (SDI 1 YCbCr, SDI 1-2 RGB, or SDI 1 RGB)
• SDI output support for 50, 59.94, 60 fps (SDI 1-2 YCbCr or SDI 1 YCbCr)

1080i

• (HD) 1920 x 1080i 25, 29.97, 30
• Apple ProRes 422 (all versions) up to and including 30 fps
• SDI output up to and including 30 fps (SDI 1 YCbCr)

Audio Input

• 2 x Balanced Analog audio inputs
  (2 x 3-pin XLR connectors with dedicated line/mic/48v selection switch per input)

Audio Output

• 1 x Headphone jack
  (3.5mm stereo mini TRS)

Reference Input

• 1 x Reference input
  (BNC connector, analog color black)

Timecode

• 1 x LTC
  (BNC connector, 0.5 to 4.5Vpp)

Start/Stop Trigger

• 2 x LANC
  (1 x 2.5mm top connector and 1 x 2.5mm side connector)

Network Interface

• 1 x LAN connector (RJ-45 connector, 10/100/1000)

Data Output

• AJA Raw via 3G-SDI up to 120 fps or Thunderbolt™ up to 30 fps

Size (w x d x h)

• 4.4" x 12.5" x 5.5" (112mm x 318mm x 140mm)

Weight

• 6.4 lbs / 2.9 kg (without top handle attached)
• 7.4 lbs / 3.4 kg (with top handle attached)

Power

• AC Range: 100-240 VAC 50/60Hz (AC adapter)
• DC Range: 12-18Vdc, 5A maximum
  (4-pin XLR connector or 2-pin input connector)
• Consumption: 38-42W typical, 45-47W maximum
  (Note: does not include power draw from 2-pin output connector)
• Output: 2-pin power output connector, 10W recommended maximum

Environment

• Safe Operating Temperature: 0 to 40 degrees C (32 to 104 degrees F)
• Safe Storage Temperature (Power OFF): -40 to 60 degrees C (-40 to 140 degrees F)
• Operating Relative Humidity: 10-90% noncondensing
• Operating Altitude: <3,000 meters (<10,000 feet)