ATOMOS

Rec Play Mon Edit

Dear Customer,

The Atomos Philosophy

"Atomos" is the original Greek word for "Atom" coined by Democritus 2500 years ago – it means indivisible or cannot be divided – this represents Atomos' relationship to its customers and employees and the marriage of hardware and software functionality.

We believe our endeavor in this world is to make professional equipment for creative motion picture storytellers like you. We work day and night to create unified hardware and software solutions that make your life easier and your final productions better quality, simpler and lower cost.

> **" We started the all-in-one monitor, recorder, deck and edit device revolution three years ago and now have over 40,000 customers utilizing our products."**

We understand that creativity comes first and the business of making money from producing video - second. We want your creative powers unleashed on the world through useful implementations of technology to give you smarter more profitable productions.

We prove ourselves through combining the best of breed high-resolution screens and hardware with the most advanced and versatile operating system ever made for video applications.

Tech features are great, however, if they are so cumbersome and difficult to use they actually hinder the creative process then they are pointless. We have spent years developing our one-touch operating system, AtomOS, for intuitive flexible production. We continually work to refine the AtomOS experience sending through updates with extra functionality – all for FREE!

Our hardware is exactly what you need today, without offering too much of tomorrow to make the product too expensive – this is the balance we believe we get right for you, our customer.

Often it is the things companies don't talk about that make them great. The little things like a three year warranty on products if you register and providing everything you need in-the-box to get started including batteries, chargers and disk caddies. Most times we even throw in a waterproof ABS custom design case – at no extra cost.

We hope you enjoy discovering the fruits of our labor in this comprehensive brochure and remember - Atomos wants to make your life more enjoyable and creative!

Jeromy Young
CEO & CCO

Ian Overliese
CEO & CTO

ATOMOS

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/atomosvideo
/AtomosVideo

Product information and Estimated Shipping times are subject to change without notice.

The world's most advanced professional video monitoring, recording and playback tools

SHOGUN

NINJA STAR

SAMURAI BLADE

NINJA 2

RONIN

NINJA BLADE

Monitor Recorders

Recorder Monitors

Converters

Accessories

06.

PRODUCT SELECTION CHART
Decide which product is for you.

08.

SHOGUN
4K Apple ProRes HDMI & 12G-SDI all-in-one monitor-recorder for professional film makers.

12.

SAMURAI BLADE
HD/SD-SDI monitor-recorder for film makers.

16.

NINJA BLADE
HDMI monitor-recorder for film makers.

20.

NINJA STAR
Pocket sized recorder for action shooters.

24.

NINJA 2
Field recorder for DSLRs and HDMI cameras.

28.

RONIN
HD/SD-SDI recorder-monitor for film makers.

32.

RECORDING & AtomOS
Learn all about high quality recording and our intuitive and easy to use AtomOS operating system.

40.

CONNECT CONVERTERS
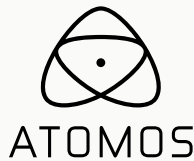HD/SD-SDI to HDMI and HDMI to HD/SD-SDI portable and rack mount converters.

42.

ACCESSORIES
Get those little extras you need like sunhoods, extra batteries and docks with our range of accessories.

47.

ATOMOS WORLDWIDE
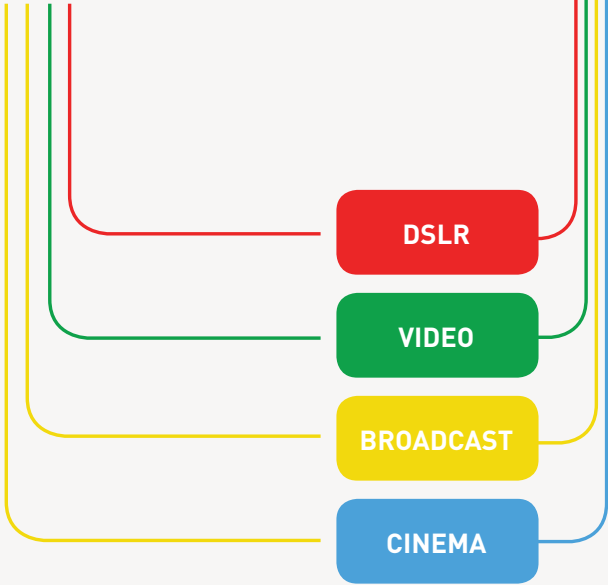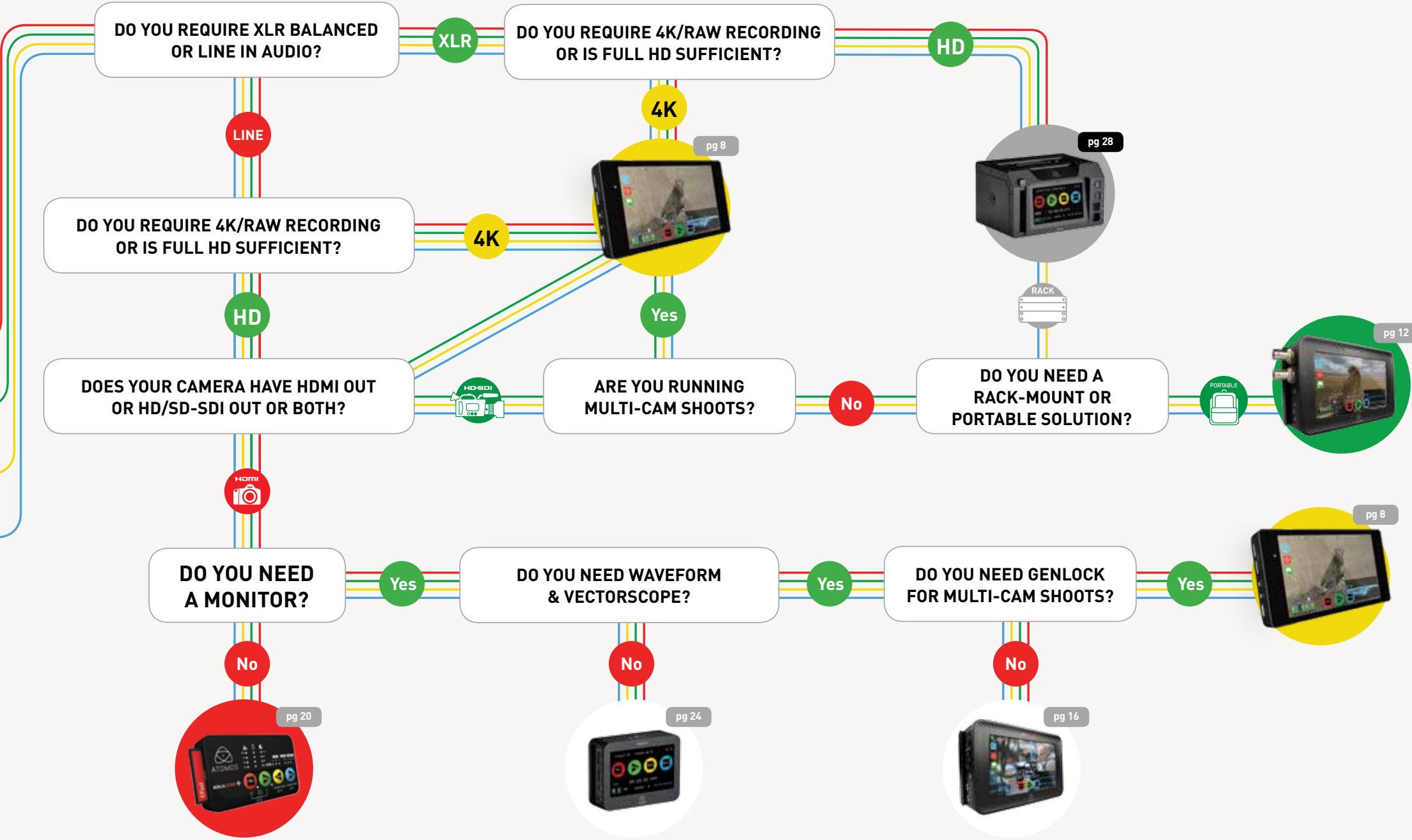Atomos worldwide offices and our reseller network.

ATOMOS

AtomOS 5

Product Selection Chart

Rec   Play   Mon   Edit

Discover Smart Production.
Follow these steps:

DSLR

VIDEO

BROADCAST

CINEMA

DO YOU REQUIRE XLR BALANCED OR LINE IN AUDIO?

XLR

DO YOU REQUIRE 4K/RAW RECORDING OR IS FULL HD SUFFICIENT?

HD

LINE

4K

pg 8

pg 28

DO YOU REQUIRE 4K/RAW RECORDING OR IS FULL HD SUFFICIENT?

4K

RACK

HD

pg 12

DOES YOUR CAMERA HAVE HDMI OUT OR HD/SD-SDI OUT OR BOTH?

Yes

HD-SDI

ARE YOU RUNNING MULTI-CAM SHOOTS?

No

DO YOU NEED A RACK-MOUNT OR PORTABLE SOLUTION?

PORTABLE

HDMI

pg 8

DO YOU NEED A MONITOR?

Yes

DO YOU NEED WAVEFORM & VECTORSCOPE?

Yes

DO YOU NEED GENLOCK FOR MULTI-CAM SHOOTS?

Yes

No

pg 20

No

pg 24

No

pg 16

SHOGUN

All-in-one 4K HDMI/12G-SDI Apple ProRes 7" 1920x1200 monitor-recorder.

4Kp23 98 ▶ ProRes ▶ HQ ▶ 07:30 15 ▶
04:08:01:23
1 3 5 7 9 11 A

4K

ProRes

CINEMA DNG®

Avid DNxHD®

> "
> **4K from any camera for the masses.**
>
> **Jeromy Young**
> Atomos CEO
> "

Go to **www.atomos.com/shogun** for more information and to pre-register your interest

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1   ## RECORD 4K & RAW

Record straight from the camera's sensor in pristine Apple ProRes 4K or Cinema DNG Raw over HDMI and 12G-SDI. Whether you need it right now or for future-proofing your work 4K and Raw are the future of professional video production.

4K   **CINEMA DNG**®

2   ## HD-SDI & HDMI INPUTS

There is a camera perfect for each shoot and whether it outputs video via HDMI or HD-SDI the Shogun is ready to record. With both HDMI and HD-SDI inputs and outputs the Shogun is our most versatile monitor-recorder yet.

HD   **HDMI HD-SDI**

3   ## FULL HD DIRECTOR'S MONITOR

The Shogun's stunning Full HD 1920 x 1200 screen is perfect as a director's monitor. Full color calibration means colors you can trust. Waveform monitoring and focal assist provide the tools needed for a perfect shot every time.
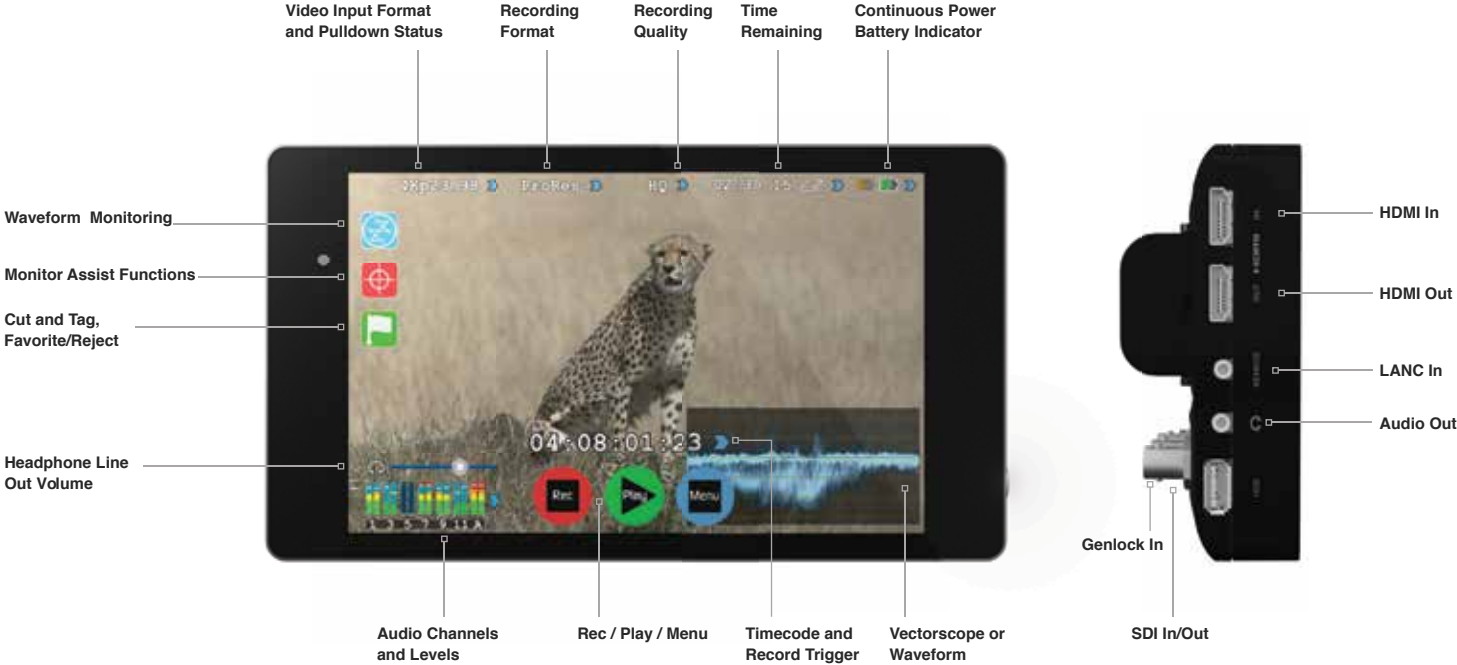
4   ## HD UP TO 120FPS!

Record up to 120 frames per second in Full HD (1920 x 1080) for those fantastic slow motion shots.

Slow Motion

SHOGUN

Video Input Format
and Pulldown Status

Recording
Format

Recording
Quality

Time
Remaining

Continuous Power
Battery Indicator

Waveform Monitoring

Monitor Assist Functions

Cut and Tag,
Favorite/Reject

Headphone Line
Out Volume

Audio Channels
and Levels

Rec / Play / Menu

Timecode and
Record Trigger

Vectorscope or
Waveform

HDMI In

HDMI Out

LANC In

Audio Out

Genlock In

SDI In/Out

4K HDMI
All those 4K mirrorless and DSLRs on the market just got that much more versatile with the ability to record 4K direct out over HDMI to the Shogun. Record 4K (3840x2160) progressive 24, 25 and 30.

422 10-BIT
Certified by Apple and Avid our unbeaten implementation of the Apple ProRes and Avid DNxHD 422 10-bit recording formats continues with the Shogun guaranteeing accuracy of detail and depth of color to bring your video projects to life.

7" IPS SUPERATOM
Spectacular 7-inch 1920x1200 325ppi SuperAtom IPS capacitive touch-screen. Fully calibratable for colors you can trust. This screen will truly amaze you.

WFM
We offer a comprehensive tool set that any test engineer would be proud of – a full waveform monitor, RGB parade display, luma overlay, vectorscope with zoom and test pattern generator for signal calibration. You get focus peaking with multiple levels and colors for ease of use, false color in two modes, zebra 0-100% fully adjustable and blue-only for that quick exposure check!

SSD HDD RAID
2 x raided hard disks or solid state drives for faster more reliable write speeds to manage extra long 4K record times. A 2TB raided drive will give you 2+ hours of continuous 4K recording.

XLR AUDIO
A pro monitor requires pro audio. Our breakout Lemo cable offers full balanced XLR, line/mic and phantom power input as well as 2 channel balanced output. With on-screen audio monitoring you gain superb control over the recording of multiple audio channels, 8 digital and 2 analog.

REMOTE
Wireless remote control offers the ability to record at any time without having to physically be at the device. Perfect for those multi camera shoots or for triggering record when the rig is in hard to reach places. Optional wireless accessory required.

START/STOP TRIGGER
Trigger record start/stop and record timecode straight from the camera with our proprietary HDMI timecode and trigger protocols from Sony, Canon and many others. Over SDI we have the complete set with no protocol left unsupported. We also include file naming, for automatic backup and version control of your footage.

12G SDI
Sending 4K over SDI to the Shogun from the camera is no easy task. We have implemented 12G SDI on the Shogun to handle the huge 4K data rate with ease leaving you with seamless 4K recordings with no dropped frames.

HD 120FPS
Record up to 120 frames per second in Full HD (1920x1080) for those fantastic slow motion shots.

3D LUT
With a calibrated monitor the most important aspect of ensuring you capture the exact look, feel and color emotion is with the ability to apply standard or custom 3D LUT's. The Shogun provides complete customisation and flexibility to ensure you always get what you want when it matters - at the time you shoot.

CALIBRATE
Calibrated to SMPTE Rec.709 with 100% gamut and D65 white point out of the box for colors you can trust. With fullcustomization as well as standard Canon C-Log calibration enabled, you'll never look at that washed out image and make setup mistakes again. On-the-fly re-calibration is available with the Atomos Spyder Calibration Tool.

CFAST
Small, lightweight, and highly reliable with fast read/write speeds - Compact Flash, otherwise known as CFast, is a convenient recording media for the Shogun for quick/short shoots. SATA to CFast adaptor required.

FCPX XML
Create FCPX XML projects on the fly so you are ready to edit straight away. Favorite/Reject flags in the meta-data allow for quick parsing of your footage directly into FCPX or Adobe Premiere.

GENLOCK
Lock to an external Genlock reference signal to synchronize the Shoguns SDI playout. A must need for multiple camera shoots in a studio environment.

TIMECODE
Synchronize with the camera's time code over our proprietary time code protocol. Record Run, Free Run, Time-Of-Day time codes are also available on the Shogun for independent external recording.

SAMURAI BLADE

The ultimate all-in-one HD/SD-SDI recorder-monitor for filmmakers.

Go to **www.atomos.com/samurai-blade** for more information

1 DIRECTOR QUALITY MONITOR

Real time monitoring with the SuperAtom 5" IPS 325ppi 1280x720 capacitive touchscreen with crystal clear accurate colors you can trust. Monitoring functions at your fingertips including waveform, vectorscope, luma parade, RGB, focus peaking, zebra, false color & blue only. Nail the shot everytime.

Monitor Assist

Calibration

Waveform/Vector

SUPER ATOM 5"IPS
Superatom 5" Screen

2 PROXIES ON THE GO WITH CUT & TAG EDITING

Create HD proxies on the Samurai Blade as you record 4K at the camera and in real-time rough cut your footage, tag it as Favorite or Reject, then save as a project, ready to finish and polish in the studio. This is a powerful time and money saver helping collaboration on-set.

Favorite

Reject

3 LOSSLESS EDIT FRIENDLY COMPRESSION

Today's camera sensors and lenses are spectacular, and we harness large sensors on professional video cameras to ensure you get the best from your camera. If your camera records internally to high compression AVCHD/MPEG non-edit-friendly codecs upgrade to virtually lossless ready-to-edit 10-bit 4:2:2 Apple ProRes and Avid DNxHD with the Samurai Blade.

ProRes   Avid DNxHD®   10-bit 4:2:2

4 LOW COST MEDIA & LONG RECORD TIMES

Record to standard 2.5" HDDs and SSDs. A 1TB HDD gives you more than 10+ hours of Apple ProRes HQ recording for less than $100. 480GB SSDs give you 5hrs for $700. HDD/SSD recording is amazing value.

10 HRS+
1TB+
2.5" HDD/SSD LAPTOP DRIVES

SAMURAI BLADE

Video Input Format and Pulldown Status
Recording Format
Recording Quality
Time Remaining
Continuous Power Battery Indicator

Waveform Monitoring
Monitor Assist Functions
Cut and Tag, Favorite/Reject
Headphone Line Out Volume

SDI In
SDI Out
LANC In
Audio In
Audio Out

Audio Channels and Levels
Rec / Play / Menu
Timecode and Record Trigger
Vectorscope or Waveform
HDD/SSD Slot

AtomOS 5
The AtomOS operating system is intuitive and easy to use. With our SuperAtom IPS touchscreen panel you can easily navigate to any menu setting with no more than two touches from the home monitoring screen. Our engineers and designers have spent 1000's of hours testing and redesigning AtomOS so that you'll be navigating confidently within minutes of startup.

SUPER ATOM 5" IPS — "Razor Sharp 5" Monitor Heaven"

10-bit 4:2:2
Your affordable MPEG based camera is limiting the quality of your great sensor with highly compressed 8-bit recording. Increase the quality of any camera to professional edit friendly codecs – the files are large and the result amazing, only Atomos deliver the ultimate in quality recording to the masses.

ProRes / Avid DNxHD®
Editing codecs are made for editing video, not delivering video. MPEG is great for finishing and delivery – but not for post-production. We give you post-production quality recording on set. The codec choices we offer – Apple ProRes or Avid DNxHD – gives you universal non-linear editing support. Both are routinely used for film and TV production, as well as ProAV, event and independent film making. We have you covered, on Mac and PC.

SSD / HDD
2.5" hard disks are the most affordable digital storage on the planet. They outperform SSDs, SD card, SxS and P2 cards in terms of cost and reliability for video use. In normal video shooting environments the 2.5" HDD is your new tape. Extremely low running costs, long record times (up to 30 hours) and limitless supply. For those vibration sensitive shoots, around the racetrack or in the helicopter, we of course support modern SSDs.

CONTINUOUS POWER
Consuming just 6 watts of power – that's nearly five times less than the nearest competitor - the Samurai Blade is perfect for battery-powered, in-the-field operation. Boasting no less than 4 power options, including the supplied NP series battery, DC power adapter for larger batteries, AC mains power and our patented Continuous Power dual battery system. You'll never be without power when you need it most.

MONITORING
All audio, even analog audio, is locked frame accurately to every video frame, never drifting or losing sync. If the digital audio is out of sync from the camera you can even adjust this on the fly by advancing or delaying the audio coming in – very smart! With up to 12 channels of digital and 2 of analog audio always available to view and monitor via headphone out, audio is taken care of. Line in from mixing desks XLR adapter boxes like Beachtek and JuiceLink, means AtomOS covers all your audio needs.

TIMECODE
Synchronize with the camera's time code over our proprietary time code protocol. Record Run, Free Run, Time-Of-Day time codes are also available on the Samurai Blade for independent external recording.

REC / STOP / TRIGGERING
Triggering record and capturing timecode in sync with your camera is essential to smooth production with external devices. We have teamed up with all the leading camera manufacturers, including Canon, Sony, Panasonic, Nikon, JVC, RED and Arri to give you frame accurate timecode and start/stop triggers over SDI from almost all cameras.

Al 13
Designed using aircraft grade aluminum, the Samurai Blade delivers durability and portability. Locking mechanisms for each removable part means sturdy reliable operation. Weighing a mere 380 grams this pocket rocket will never weigh you down and is completely at home on top of any camera or rig, whether in the studio on set or outdoors, the Blade will stand up to all conditions -30 to +45 C.

CALIBRATE
Atomos is the worlds first to offer a portable calibration unit for the Samurai Blade - a Monitor, Recording Device and Deck. No other competing device offers this level of color precision. Developed in partnership with Datacolor the Atomos Spyder gives the Samurai Blade one button color calibration normally only found on high end monitors. With Spyder, the Samurai Blade gains the ability to accurately calibrate to the SMPTE Rec 709 color space with a D65 white point with 100% gamut. Never has it been so easy with one click color calibration anytime, anywhere while recording.

NINJA BLADE

The ultimate all-in-one HDMI recorder-monitor for filmmakers.

> **"** It's a fantastic bit of kit with an unbelievably low price tag. **"**
>
> **Sean J Vincent**
> seanjvincent.com

Go to **www.atomos.com/ninja-blade** for more information

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1 RECORD FROM ANY CAMERA OR HDMI DEVICE

The versatility of HDMI and the unbelievable recording quality of the Ninja Blade gives Apple ProRes or Avid DNxHD to thousands of devices, cameras, computers, iPhones, games consoles, projectors and switchers are just the beginning of the Apple ProRes recording compatible devices.

2 RECORD FROM KICKARSE SENSORS

Upgrade your 24-28Mbps DSLR or mirrorless camera's MPEG to 220Mbps ready-to-edit 10-bit 4:2:2 Apple ProRes HQ and Avid DNxHD 220. Simple and Easy.

3 NO MORE 30MIN. BARRIER

Recording straight out from the sensor means no more 29.59 minute record limits on your internal recordings. Whether you're filming a soccer match or birds in the wild there is no need to worry about your recording stopping at 29.59 minutes.

30MIN+

4 LONG RECORD TIMES

Record to standard 2.5″ HDDs and SSDs. A 1TB HDD gives you more than 10+ hours of Apple ProRes HQ recording for less than $100. 480GB SSDs give you 5hrs for $700. HDD/SSD recording is amazing value.

10 HRS+ 1TB+ 2.5″ HDD/SSD LAPTOP DRIVES

NINJA BLADE

Video Input Format and Pulldown Status

Recording Format

Recording Quality

Time Remaining

Continuous Power Battery Indicator

Waveform Monitoring

Monitor Assist Functions

Cut and Tag, Favorite/Reject

Headphone Line Out Volume

HDMI In

HDMI Out

LANC In

Audio In

Audio Out

Audio Channels and Levels

Rec / Play / Menu

Timecode and Record Trigger

Vectorscope or Waveform

HDD/SSD Slot

Atom OS 5

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SUPER ATOM 5"IPS

"Razor Sharp 5" Monitor Heaven"

10-bit 4:2:2

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ProRes
Avid DNxHD®

Editing codecs are made for editing video, not delivering video. MPEG is great for finishing and delivery – but not for post-production. We give you post-production quality recording on set. The codec choices we offer – Apple ProRes or Avid DNxHD – gives you universal non-linear editing support. Both are routinely used for film and TV production, as well as ProAV, event and independent film making. We have you covered, on Mac and PC.

SSD
HDD

2.5" hard disks are the most affordable digital storage on the planet. They outperform SSDs, SD card, SxS and P2 cards in terms of cost and reliability for video use. In normal video shooting environments the 2.5" HDD is your new tape. Extremely low running costs, long record times (up to 30 hours) and limitless supply. For those vibration sensitive shoots, around the racetrack or in the helicopter, we of course support modern SSDs.

CONTINUOUS POWER

Consuming just 6 watts of power – that's nearly five times less than the nearest competitor - the Ninja Blade is perfect for battery-powered, in-the-field operation. Boasting no less than 4 power options, including the supplied NP series battery, DC power adapter for larger batteries, AC mains power and our patented Continuous Power dual battery system. You'll never be without power when you need it most.

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All audio, even analog audio, is locked frame accurately to every video frame, never drifting or losing sync. If the digital audio is out of sync from the camera you can even adjust this on the fly by advancing or delaying the audio coming in – very smart! With up to 2 channels of digital and 2 of analog audio always available to view and monitor via headphone out, audio is taken care of. Line in from mixing desks XLR adapter boxes like Beachtek and JuiceLink, means AtomOS covers all your audio needs.

TIMECODE

Synchronize with the camera's time code over our proprietary time code protocol. Record Run, Free Run, Time-Of-Day time codes are also available on the Blade for independent external recording.

Rec STOP
TRIGGERING

Triggering record and capturing timecode in sync with your camera is essential to smooth production with external devices. We have teamed up with all the leading camera manufacturers, including Canon, Sony, Panasonic, Nikon and JVC to give you frame accurate timecode and start/stop triggers over HDMI from almost all cameras.

Al 13

Designed using aircraft grade aluminum, the Ninja Blade delivers durability and portability. Locking mechanisms for each removable part means sturdy reliable operation. Weighing a mere 380 grams this pocket rocket will never weigh you down and is completely at home on top of any camera or rig, whether in the studio on set or outdoors, the Blade will stand up to all conditions -30 to +45 C.

CALIBRATE

Atomos is the worlds first to offer a portable calibration unit for the Ninja Blade - a Monitor, Recording Device and Deck. No other competing device offers this level of color precision. Developed in partnership with Datacolor the Atomos Spyder gives the Ninja Blade one button color calibration normally only found on high end monitors. With Spyder, the Ninja Blade gains the ability to accurately calibrate to the SMPTE Rec 709 color space with a D65 white point with 100% gamut. Never has it been so easy with one click color calibration anytime, anywhere while recording.

# The Pocket-size Apple ProRes Recorder & Deck.

NINJA STAR

Be Really Pro.

> "In production, Shipping May 2014!
> **Jeromy Young**
> Atomos CEO"

Go to **www.atomos.com/ninja-star** for more information

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1 THE MPEG ASSASSIN

The Ninja Star upgrades your consumer MPEG video camera to a truly pro recording device. Record seamlessly from expensive cameras, actioncams and secondary production cameras to edit ready Apple ProRes files.
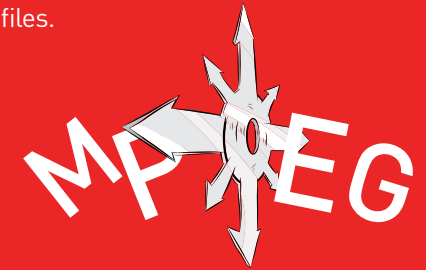
2 ULTRA LONG BATTERY

The Ninja Star is an efficient little beast meaning it can keep on going for over 5hrs on one battery. Record for the whole shoot and play back all on the included battery.

5 HRS BATTERY

3 TINY SIZE, FEATHERWEIGHT

The Ninja Star is the world's smallest, lightest Apple ProRes recorder. At 3 inches and 130g it is small enough to fit in your pocket, strap to your tripod and light enough to hang from a quadcopter or mount to your DSLR - the Ninja Star is the go-anywhere recorder.
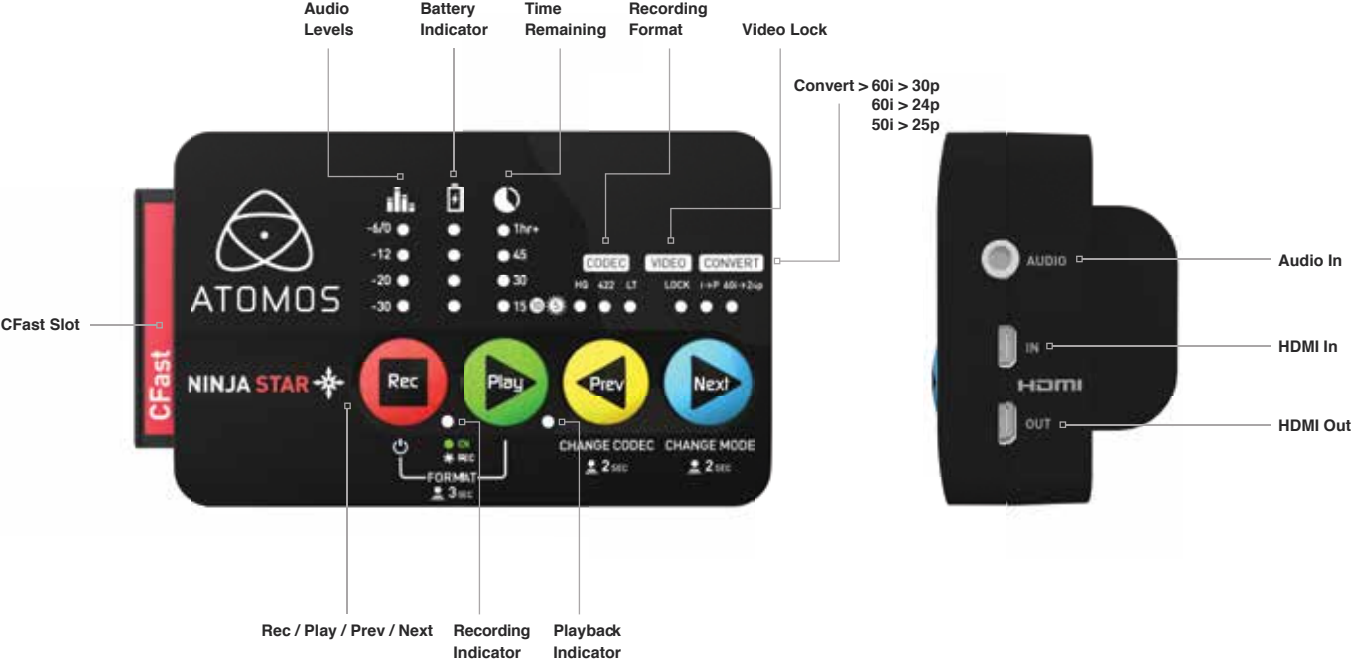
130g 4.6oz

4 CFAST SPEED

CFast cards are small, reliable and sold at up to 256GBs which gives the Ninja Star up to 2 hrs and 40 mins of Apple ProRes HQ recording, more than doubling the record time of your action camera and equal to your DSLR.

CFAST 2 HRS+ 256GB

NINJA STAR

Audio Levels · **Battery Indicator** · **Time Remaining** · **Recording Format** · **Video Lock**

Convert > 60i > 30p
60i > 24p
50i > 25p

CFast Slot

Audio In

HDMI In

HDMI Out

Rec / Play / Prev / Next · Recording Indicator · Playback Indicator

EXTREME ProRes

Apple ProRes is the most advanced codec in the world so it's no surprise it's the default standard for on board camera recording in today's professional landscape. The Ninja Star is designed to open up Apple ProRes recording to the mass camera market.
From extreme sports to motor racing, strapped to a tripod or on top a mirrorless compact or DSLR, the Star is the pocket powerhouse that let's you Be Really Pro.

CFAST

Small, lightweight, and highly reliable with fast read/write speeds - CFast is a perfect indestructable recording media for the robust Ninja Star. Becasue we only need generation one C-Fast it's much more affordable than later generations. 128GB for $350 and up to 3hrs of LT recording means you will never have media remorse.

AUTOMATIC TRIGGERING

Triggering record and capturing timecode in sync with your camera is essential to smooth production with external devices. We have teamed up with all the leading camera manufacturers, including Canon, Sony, Panasonic, Nikon & JVC to give you automatic frame accurate timecode and start/stop triggers over HDMI.

HDMI + LOOP

The Ninja Star's HDMI micro input allows for connecting with any device that provides or receives HDMI - sports cameras, mobile phones, DSLRs and professional video cameras. Loop out to larger monitors/TVs for client review and of course Atomos recorders. Add an Atomos Connect converter to make even HD-SDI cameras compatible with the Ninja Star.

ROBUST FLEXIBLE MOUNTING

Defining a new paradigm in recorders - as we like to do - means providing real solutions. The construction and robust design of the Ninja Star is one acheivment you'll enjoy, however we are most proud of the endless simple mounting options for those crazy video recording endeavors - ENJOY!

AUDIO LINE IN

Record audio direct from the camera on the 2 embedded digital channels or add an external mic via the audio line in for an extra 2 channels of analog audio.

NINJA 2

The ultimate all-in-one field recorder for DSLRs and HDMI cameras.

Go to **www.atomos.com/ninja** for more information

1 RECORD FROM ANY CAMERA OR HDMI DEVICE

The versatility of HDMI and the unbelievable recording quality of the Ninja 2 gives Apple ProRes or Avid DNxHD to thousands of devices, cameras, computers, iPhones, games consoles, projectors and switchers are just the beginning of the Apple ProRes recording compatible devices.

2 RECORD FROM KICKARSE SENSORS

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30MIN+

4 LONG RECORD TIMES

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10 HRS+ **1TB+** **2.5" HDD/SSD LAPTOP DRIVES**

NINJA 2

Video Input Format and Pulldown Status

Recording Format

Recording Quality

Continuous Power Battery Indicator

HDMI In

HDMI Out

Audio In

Audio Out

Rolling timecode trigger

Audio input level meters

Headphone line out volume

Recording time remaining

Easy to use Touch Interface

HDD/SSD Slot

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2.5" hard disks are the most affordable digital storage on the planet. They outperform SSDs, SD card, SxS and P2 cards in terms of cost and reliability for video use. In normal video shooting environments the 2.5" HDD is your new tape. Extremely low running costs, long record times (up to 30 hours) and limitless supply. For those vibration sensitive shoots, around the racetrack or in the helicopter, we of course support modern SSDs.

CONTINUOUS POWER

Consuming just 6 watts of power – that's nearly five times less than the nearest competitor - the Ninja 2 is perfect for battery-powered, in-the-field operation. Boasting no less than 4 power options, including the supplied NP series battery, DC power adapter for larger batteries, AC mains power and our patented Continuous Power dual battery system. You'll never be without power when you need it most.

MONITORING

All audio, even analog audio, is locked frame accurately to every video frame, never drifting or losing sync. If the digital audio is out of sync from the camera you can even adjust this on the fly by advancing or delaying the audio coming in – very smart! With up to 2 channels of digital and 2 of analog audio always available to view and monitor via headphone out, audio is taken care of. Line in from mixing desks XLR adapter boxes like Beachtek and JuiceLink, means AtomOS covers all your audio needs.

TRIGGERING

Triggering record and capturing timecode in sync with your camera is essential to smooth production with external devices. We have teamed up with all the leading camera manufacturers including Canon, Sony, Panasonic, Nikon and JVC to give you frame accurate timecode and start/stop triggers over HDMI from almost all cameras.

Al 13

Designed using aircraft grade aluminum, the Ninja 2 delivers durability and portability. Locking mechanisms for each removable part means sturdy reliable operation. Weighing a mere 380 grams this pocket rocket will never weigh you down and is completely at home on top of any camera or rig, whether in the studio on set or outdoors, the Ninja 2 will stand up to all conditions -30 to +45 C.

TIMECODE

Synchronize with the camera's time code over our proprietary time code protocol. Record Run, Free Run, Time-Of-Day time codes are also available on the Ninja 2 for independent external recording.

RONIN

The ultimate all-in-one HD/SD-SDI recorder-monitor for Studios, Broadcast and ProAV.

> **"**
> **Well equipped and solidly built.**
>
> **Mark Johnson**
> studiotech.tv
> **"**

Go to **www.atomos.com/ronin** for more information

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1 TWIN RACKMOUNT

The Ronin has been designed for fixed facility studios and OB Vans. Two Ronins sit comfortably side-by-side in a rack mount solution for multi channel recording at any one time.

2 XLR AUDIO

The Ronin offers 12 channels of SDI embedded 48 kHz 16 bit audio and 2 channels of XLR balanced analog 48 kHz 16 bit audio, +24dBu clipping level, 96 dB SNR and adjustable input gain.

3 AC POWER WITH BATTERY BACKUP

AC power drives the Ronin with continuous battery backup for emergency situations. With very low power consumption it is the perfect backup recorder.

4 CONTINUOUS RECORDING

Dual Ronins, known as Ronin Duo, provide continuous recording for those extra long shoots. Loop out to the second Ronin and start recording as the first drive fills. With 10 hour+ record times on a 1TB HDD/SSD continuous recording is a snap with the Ronin Duo.

Video Input Format and Pulldown Status

Recording Format

Recording Quality

Power On

Balanced XLR Audio In/Out

Continuous Battery Power
Battery fail safe and charger

HDD/SSD Slot

Rolling timecode trigger

Audio input level meters

LANC In/Out

Headphone line out volume

Recording time remaining

Easy to use Touch Interface

AC Power

SDI In/Out

▶ STUDIO

Backup all feeds automatically to your Ronin rack with start/stop trigger and affordable 2.5" Disks.

Image: Influencers Church

▶ BROADCAST

Sturdy design for integrating into your OB vans for backup in the field.

Image: Freelens

▶ PRO-AV

Rack mounted, stacked, stand-alone and even on the ground the Ronin is ready for any situation.

Image: Jonathan Beswick

SWITCHER RECORDING

Record your switcher output, final broadcast or ISO's to the highest quality codec's available today. Only Atomos delivers the ultimate in quality recording with the ease of use and reliability your massive events demand.

ProRes
Avid DNxHD®
10-bit 4:2:2

We give you post-production quality recording on set. The codec choice we offer – Apple ProRes or Avid DNxHD – gives you universal non-linear editing support. Both are routinely used by studios and in the broadcast and ProAV industries. We have you covered, on Mac and PC.

SSD
HDD

2.5" hard disks are the most affordable digital storage on the planet. They outperform tape, DVDs and Blue Ray by factors of 100 to 1 in terms of cost for video use. Master to HDD for up to 30 hours on 1TB disks for the most convenient editing and archive available.

DIGITAL DECK

Join the digital recording revolution. Forget about buttons and tapes, move to touch screens and hard disks or SSDs. Adjust all channels of audio on screen and monitor feeds with intuitive feedback for peace of mind when recording.

Rec STOP
TRIGGERING

Triggering record and capturing timecode in sync with your camera is essential to smooth production with external devices. We have teamed up with all the leading camera manufacturers including Canon, Sony, Panasonic, Nikon, JVC, RED and Arri to give you frame accurate timecode and start/stop triggers from almost all cameras.
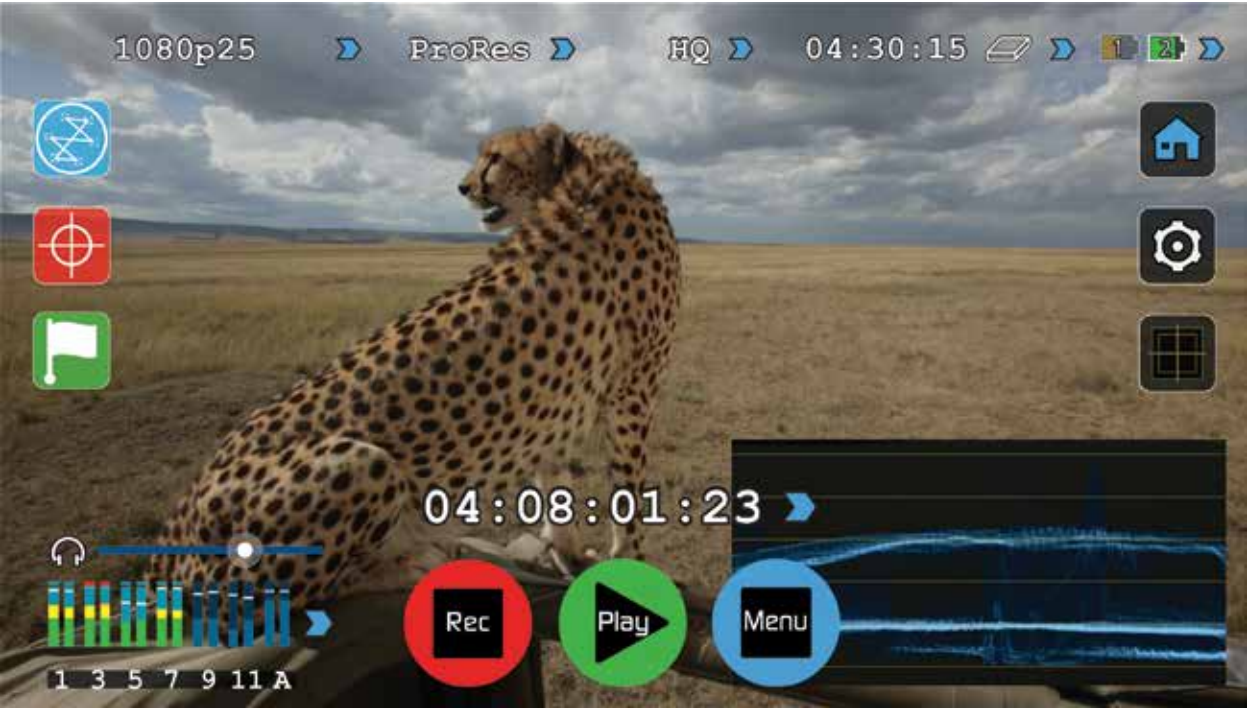
TIMECODE

Synchronize with the production's time code over our proprietary time code protocol. Record Run, Free Run, Time-Of-Day time codes are also available on the Ronin for independent external recording.

Al 13

Designed using aircraft grade aluminum and solid steel, the Ronin delivers durability and portability as well as the sturdiness required for rack infrastructure. We even included fold out feet and a handle for extra versatility.

Rec

- HD/SD-SDI & HDMI line in
- Full HD 10-bit 4:2:2 Quality
- Apple ProRes, Avid DNxHD®
- Camera Timecode & Trigger
- Records to 2.5" HDD/SSD

Play

- HD/SD-SDI & HDMI play out
- Full HD 10-bit 4:2:2 output
- Instant playback
- FCPX XML Project Export
- Deck transport controls

Mon

- HD-SDI & HDMI loop out
- Waveform Monitor Tools
- Focus Assist Tools
- Audio level meters
- Record tally bars

Edit

- Mac & PC compatible
- No transcoding
- Cut & Tag Edit
- Compatible with all NLEs
- Create FCPX XML projects

Discover Smart Production.

MONITOR ASSIST

FOCUS ASSIST

Focus peaking allows the user to ensure their recordings are always in focus. The parts of the image in focus are indicated by the selected color. Adjust between color, black & white or edge follow focus mode easy depth of field focusing.

ZEBRA PATTERN

Zebra lines show the parts of the image that are over exposed relevant to the % level set. 95% is usually used for objects, windows and surfaces. 75% is used for checking over exposure of human faces this will indicate reflective or shiny areas on the face.

FALSE COLOR

False Color assigns different colors to areas of different exposure in the image. This mode allows the user to distinguish between facial tones for differing skin-tones to ensure a particular shot does not detrimentally expose a certain skin-tone.

BLUE ONLY EXPOSURE

Displays a black-and-white image that is based on the blue channel of the input signal. Used to observe the noise content of a video image and the judge the overall exposure quality.

SAFE AREA / GRID LINE

Safe Area/Grid Lines overlay to help frame for Safe Areas, Titles Safe, Centering for 90%, 80% and 4:3 Framing.

CALIBRATE

Developed in partnership with Datacolor the Atomos Spyder gives one button color calibration normally only found on high end monitors. Calibrate to the SMPTE Rec 709 color space with a D65 white point with 100% gamut (customizable) or to Canon's C-Log calibration standard.

WAVEFORM MONITORING

LUMA OVERLAY

Luma Overlay shows the levels of brightness from an input source across the image and makes it clear where overexposed or dark areas are on an image. Low values indicate an underexposed area, while high values indicate overexposed areas.

RGB PARADE

RGB Parade will monitor the level of Red, Green and Blue from an input source. The RGB channels are displayed side by side. Each color channel is measured from -6 to 108.

VECTORSCOPE

The Vectorscope display shows empirical color information of hue, vector and color strength. Set camera white and black points, identify areas that are desaturated and for determine if your shot requires color balancing.

VECTORSCOPE ZOOM

The Vectorscope zoom shows an accurate scaled up view of the Vectorscope at 8:1 to assist with very accurate white point adjustment of the image form the camera sensor.

Note: All waveform tools have 3 modes of display with transparency, bottom right corner, bottom 3rd and full screen allowing.

SETTINGS

Change the settings for Focus Assist and Waveform Monitors in the settings menu.

▶ RECORDING FORMATS

Atomos recorders record into the following progressive and interlace formats:

ProRes | **CINEMA DNG** | **Avid DNxHD®**

4K	HD					SD
4Kp30*	1080p120*	1080p50*	1080p29.97	1080pSF30	720p60	486i59.94
4Kp29.97*	1080p119.88*	1080i60	1080p25	1080pSF29.97	720p59.94	576i50
4Kp25*	1080p100*	1080i59.94	1080p24	1080pSF25	720p50	
4Kp24*	1080p60*	1080i50	1080p23.98	1080pSF24		
4Kp23.98*	1080p59.94*	1080p30		1080pSF23.98		

* Atomos Shogun only

3:2 / 2:2 PULLDOWN

Many professional and consumer cameras available today do not send true 1080p24, 1080p23.98, 1080p25, 1080p29.97 or 1080p30 signals down their SDI or HDMI outputs. Instead they send 1080i59.94 or 1080i50 for compatibility with legacy TVs and monitors. In order to convert the signal from the internal recording format to 1080i5994 or 1080i50, they use a process called 3:2 or 2:2 pulldown.

All Atomos products can reverse this process allowing the user to record the original sensor progressive image in editing codecs.
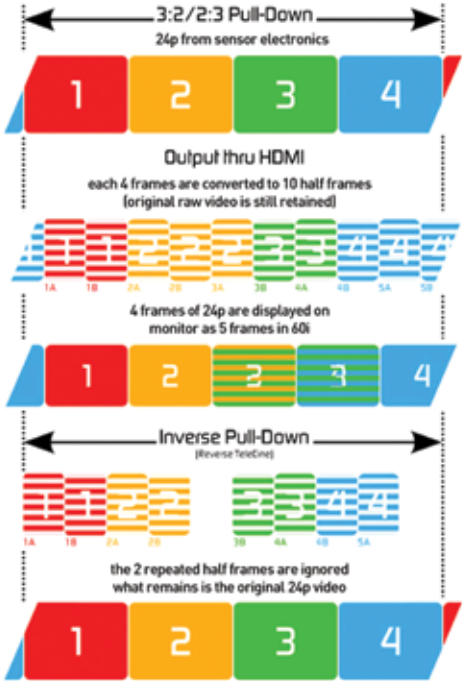
01:34: TIMECODE AND TRIGGER

HDMI/HD-SDI

Atomos has the most comprehensive HDMI and SDI trigger record functionalities in the industry. Co-developed with close partners like Sony, Canon, Panasonic, Nikon and Red we deliver instant frame accurate recording exactly when the camera starts. This eliminates the tedious need to trigger two devices at the same time. Add in matching timecode with these innovative protocols and the end result is a seamless camera and recorder combination for post production. For older cameras with timecode only, triggering is enabled when the time code starts to roll on the camera. Upgrade the quality of your formerly obsolete trusty side-kick.

▶ RECORD FROM ALL CAMERAS

We have worked closely with all the major camera makers to make sure our products are compatible with their cameras. Our compatibility spans everything from point-and-shoot cameras through to the highest quality cinema cameras. All your camera needs is a clean HDMI-out or SDI video out and our products are ready to record.

For more information see:
www.atomos.com/discovery-what-cameras/

ARRI | **Canon** | **GoPro** Be a HERO. | **JVC**

Nikon | **Panasonic** | **PHANTOM** | (RED)

SONY

▶ RECORD TO ALL MEDIA

Atomos recorders record to non-proprietary standard third party spinning and solid state media that is both affordable and allows for 10+ hr record times. Here are some of our compatible HDD/SDD/CFAST partners.

For more information see:
www.atomos.com/discovery-what-drives/

Angelbird | **HGST** | **intel** | **Kingston**

OWC | **PNY.** | **SAMSUNG** | **SanDisk**

Seagate | **takeMS** | **TOSHIBA** | **Transcend**

RECORD CONTINUOUSLY

Atomos products are all powered through an NPF batter plate making them compatible with all NPF style batteries and our AC power adapter. Nikon and Canon battery adapter plates are also available as are D-Tap adapters.
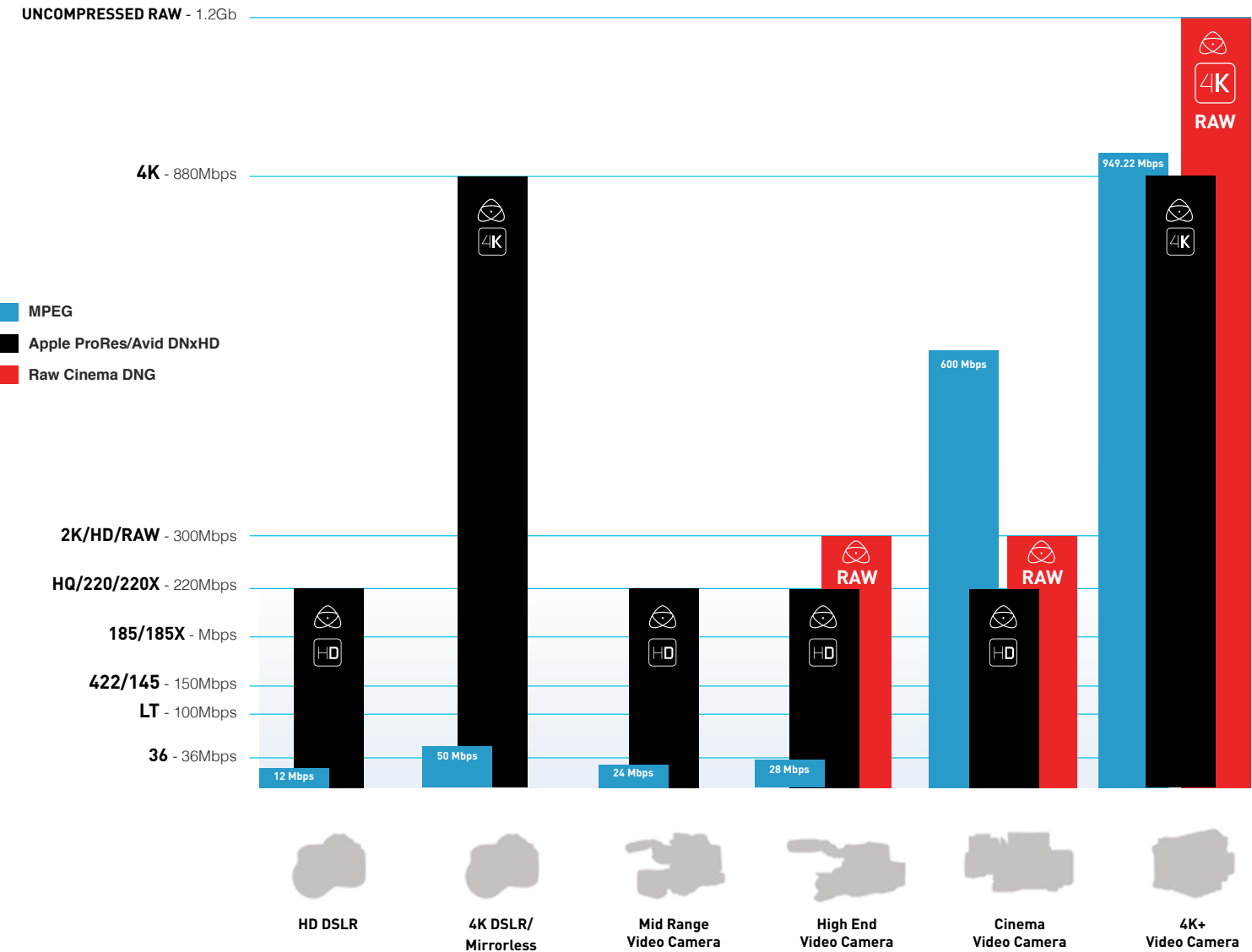
▶ SONY NPF BATTERIES

▶ NIKON EN-EL 15 BATTERIES
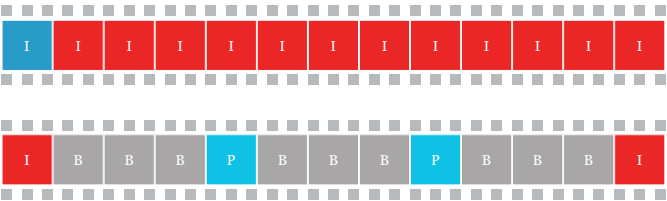
▶ CANON LP-E6 BATTERIES

▶ AC POWER ADAPTER

▶ D-TAP ADAPTER

UPGRADE YOUR RECORDING

Atomos monitor-recorders record to edit friendly Apple ProRes and Avid DNxHD codecs that are data rich, effectively upgrading your mirrorless, DSLR or video camera's recording capabilities. We also provide a perfect back-up/edit-friendly recording for your cinema camera.


UNCOMPRESSED RAW - 1.2Gb

4K - 880Mbps

- MPEG
- Apple ProRes/Avid DNxHD
- Raw Cinema DNG

2K/HD/RAW - 300Mbps

HQ/220/220X - 220Mbps

185/185X - Mbps

422/145 - 150Mbps

LT - 100Mbps

36 - 36Mbps

949.22 Mbps

600 Mbps

12 Mbps
50 Mbps
24 Mbps
28 Mbps

HD DSLR | 4K DSLR/Mirrorless | Mid Range Video Camera | High End Video Camera | Cinema Video Camera | 4K+ Video Camera

LOSE NOTHING

In internal recordings AVCHD and H.264 codecs often use compression techniques to limit file size. One technique is IBP frames where the BP frames reference the I frames. This results in loss of information which is not ideal for post-production work. All Atomos recorders record full I frames for all frames making post production easier and manipulation of video faster.

MORE COLORS

Recording to 8-Bit depth only allows for a maximum of 256 colors. The world is way more colorful than 256 colors. All Atomos monitor-recorders record to 10-Bit depth which allows a whopping 1024 colors to be displayed.

Even if we receive 8-Bit video as a source, we always record 10-Bit depth, a major point when combining computer graphics and animations - the last thing you want is to crush colors and process in 8-Bit. Apple and Avid know this and that's why editing codecs are 10-Bit.

10 BIT COLOR

8 BIT COLOR
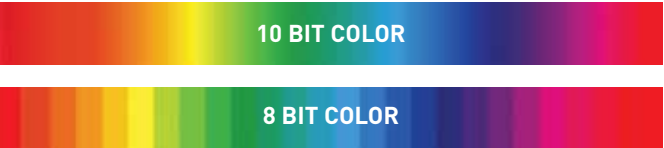
ACCURATE COLORS AND LUMINANCE

4 4 4
Y Cb Cr

4 2 2
Y Cb Cr

4 2 0
Y Cb Cr
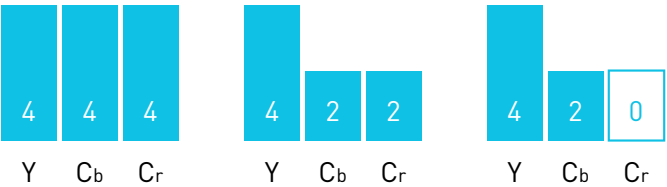
The human visual system is more sensitive to luminance than the position and motion of color. Atomos monitor-recorders record in 4:2:2 which samples the luma (luminance) at twice the rate of the two chroma (color components). This reduces the bandwidth with virtually no visual difference to 4:4:4 unlike 4:2:0 and higher compression standards.

Playback for review and editing of your recordings is simple with our AtomOS playback menu system. To Playback select the take/file to review and AtomOS instantaneously plays your file. Skip between takes with the previous and next buttons or move through the take with the scrub bar. You can even loop between any In/Out points you set. Reviewing your footage has never been easier.


```
32  1080i59.94    ProRes    HQ
04:08:01:23
Prev                                Next
```

MONITORING AND EDITING

Waveform Monitoring, Monitor Assist and Cut&Tag are all available in playback mode for easy and efficient review prior to being ingested in your NLE of choice.

FILE NAMING

Entering the file name and pre-selecting the scene and shot number that will be recorded groups the scenes and organizes the takes. The take number is automatically increased with each take with our file naming system. Distinguish between cameras, cameraman or locations.

Import any Apple ProRes file from any device or NLE for simple playback. Including legacy projects and even our competitors' files.

PLAY / PAUSE
This is the master playback start/stop control and is found to the right of the scrub bar. It toggles between play and stop.

FAST REVERSE / FAST FORWARD
Plays the clip at 8x normal speed.

GO TO END / GO TO START
Goes directly to the beginning/end of the current clip.

IN POINT / OUT POINT
Create in point and out points for on-the-fly editing and review.

FRAME REVERSE / FRAME FORWARD
Moves the clip forward/backward by a single frame.

FAST FAST REVERSE / FAST FAST FORWARD
Plays the clip at 64x normal speed.

FAST FAST REVERSE / FAST FAST FORWARD
Move between the previous and next clips for playback.

LOOP
Loop the clip for repeated playback.

Editing is made easy with all major post-production editing software supporting our recordings. Ingesting the footage is simplified and efficient with the option of editing straight off your HDDs, SSDs and CFast cards. Transferring to your PC or storage facility is also a quick and easy one-step process. The edit-friendly Apple ProRes and Avid DNxHD formats mean there is no need for transcoding the footage prior to editing - saving valuable time. With FCPX, editing is made even easier with XML projects generated on-the-fly on your Atomos recorder device.

SMARTLOG XML

SmartLog gives you the ability to tag your clips during recording or when reviewing in playback. By pressing the Favorite and Reject buttons you can assign the inpoint of a "good clip" or "bad clip". Pressing again will determine the outpoint. This creates an FCPX project with tagged footage. Insert the disk into the dock, double click the project and watch Final Cut X do the rest. All your favorites are lined up on the timeline ready to edit.

Favorite Reject

Final Cut Pro X

Premiere Pro

Edius Pro 7

Final Cut Pro 7

After Effects

Edius Elite 7

Motion 5

Speed Grade

AUTODESK. EditShare

Smoke

Lightworks

CONNECT CONVERTERS

The world's smallest most powerful 3G digital video converters.

2 HRS BATTERY

SMPTE 3G COMPLIANT

CONNECT
Battery Converters

HD-SDI → HDMI

HDMI → HD-SDI

10 HRS BATTERY
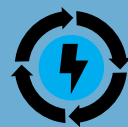
CONNECT-AC
AC powered - no more wall-warts!

RACK Mountable
For studios

CONVERTERS

You can think of Atomos Connect Converters as stand-alone devices or as specially designed modules to give you flexibility out in the field or in the studio.

There is nothing to set up when you use a Connect Converter. Just secure the device in a battery slot of any monitor, recorder or light and place the battery that previously occupied that slot in the battery slot on the converter. Voila! You have conversion and continuous power in a convenient location. With Connect-AC, our AC powered rackmount converters, simply set them up in your rack, plug in the power and you are ready to go.

TPG VIDEO MODE - LED GUIDE

TPG	MODE	P/I	RATE	SCAN
NTSC	●	○	●	○
720 59	●	●	●	○
1080i 59	●	○	●	○
p29	●	●	●	○
p59	●	●	●	○
p23	●	●	●	●
p24	●	●	●	●
PAL	●	○	●	○
720 50	●	●	●	○
1080i 50	●	○	●	○
p25	●	●	●	○
p50	●	●	●	○

D-Tap/AC Power

External Battery

Internal battery

HDMI → HD-SDI
Convert a HD-SDI signal from any device to an HDMI signal with our S2H series of converters.

HD-SDI → HDMI
Convert a HDMI signal from any device to an HD-SDI signal with our H2S series of converters.

TEST PATTERN & AUDIO TONE GENERATOR
A test pattern and audio tone generator is built into the Connect converters so you can use it as a line testing tool - in the field or in the studio. A time saver for studio technicians and system integrators.

FLASH LIGHT
A built-in LED torch, so you can see what you're connecting to in the dark!

CONTINUOUS POWER
The Connect converters are battery powered for portability. We have included an internal battery so that the main battery can be swapped out when running low thus providing continuous power. An AC adapter is also included for shoots where AC power is available. The Connect-AC converters are AC powered with an internal adapter so there are no adapters at the power port taking up valuable space.

3:2 PULL DOWN REMOVAL
A Realtime Pulldown Removal. Extract 24P/30P from 60i & 25P from 50i or PSF equivalents.

TIMECODE AND TRIGGER PASS-THROUGH
Connect converters allow for passthrough of timecode and start/stop trigger between devices.

ATOMOS SPYDER

Developed in partnership with **datacolor**

Accurate colors at the camera saves time in Post.

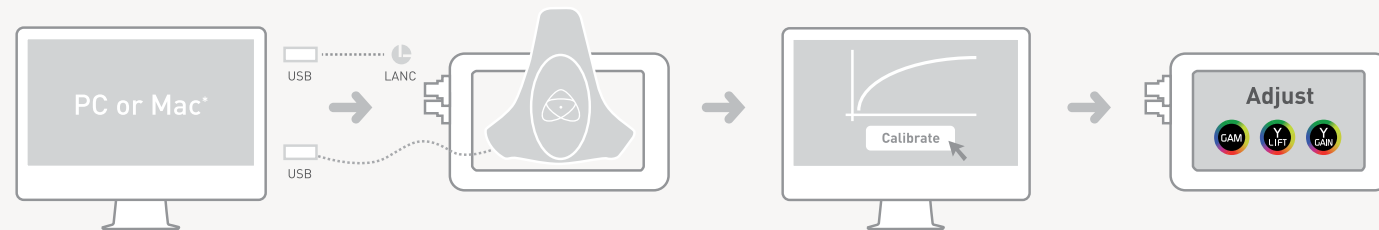Discover the world's first affordable Monitor calibration system.

Color Calibration on the fly

GAM   Y LIFT   Y GAIN

REC 709   C LOG   CUSTOM

Calibrate every 2 weeks for accurate colors in the Studio or on location for an accurate profile.

Calibrate anywhere, anytime in three easy steps.

PC or Mac*   USB   LANC   →   Calibrate   →   Adjust   GAM Y LIFT Y GAIN

Monitors drift in color and only expensive monitors can be calibrated. AtomOS solves this problem. Trust your colors on location and avoid costly color correction in Post.

NINJA BLADE SAMURAI BLADE SHOGUN ONLY

ACCESSORIES

CARRYCASE
Shogun, Samurai Blade, Ninja Blade, Ninja 2

SUNHOOD
Shogun, Samurai Blade, Ninja Blade, Ninja 2

HDD/SSD CADDIES x 5

DOCKING STATION
Shogun, Samurai Blade, Ninja Blade, Ninja 2

CANON BATTERY ADAPTER

NIKON BATTERY ADAPTER

AC POWER ADAPTER
Samurai Blade, Ninja Blade, Ninja 2

DOUBLE BATTERY CHARGER

SINGLE BATTERY CHARGER

D-TAP ADAPTER

CONNECT-AC RACK KIT
Fits four Connect-ACs.

RONIN RACK KIT
Fits two Ronins.

ATOMOS PRODUCT COMPARISON CHART

PRODUCT	SHOGUN	SAMURAI BLADE	NINJA BLADE	NINJA STAR	NINJA 2	RONIN / RONIN DUO	PRODUCT
HDMI Input1	✔	–	✔	✔	✔	–	HDMI Input1
HDMI Output1	✔	–	✔	✔	✔	–	HDMI Output1
HD-SDI Input1	✔ 12G[1]	✔	–	–	–	✔	HD-SDI Input1
HD-SDI Output1	✔ 12G[1]	✔	–	–	–	✔	HD-SDI Output1
Embedded Audio	12 channels	12 channels	2 channels	2 channels	2 channels	12 channels	Embedded Audio
Analogue Audio (Line Level)	2 channels	2 channels	2 channels	2 channels	2 channels	2 channels	Analogue Audio (Line Level)
Balanced Audio	✔	–	–	–	–	✔	Balanced Audio
ProRes Codec	✔	✔	✔	✔	✔	✔	ProRes Codec
Avid DNxHD Codec	✔	✔	✔	✔	✔	✔	Avid DNxHD Codec
Media	HDD/SSD/RAIDED HDD/CFAST*	HDD/SSD	HDD/SSD	CFast 1.0 Card	HDD/SSD	HDD/SSD Front loading	Media
Screen Size	7"	5"	5"	3" body	4.3"	5"	Screen Size
Screen Resolution	1920x1200	1280x720	1280x720	–	800x480	800x480	Screen Resolution
Touchscreen Control	Capacitive	Capacitive	Capacitive	–	Resistive	Resistive	Touchscreen Control
3:2 & 2:2 Pulldown Removal	✔	✔	✔	✔	✔	✔	3:2 & 2:2 Pulldown Removal
Firmware Version	6.x	5.x	5.x	4.x	4.x	4.x	Firmware Version
SmartMonitor, comprising:							SmartMonitor, comprising:
› Focus Peaking	✔	✔	✔	–	✔	✔	› Focus Peaking
› False color	✔	✔	✔	–	✔	✔	› False color
› Blue only	✔	✔	✔	–	✔	✔	› Blue only
› Zebra	✔	✔	✔	–	✔	✔	› Zebra
› Full waveform	✔	✔	✔	–	–	–	› Full waveform
› Vectorscope	✔	✔	✔	–	–	–	› Vectorscope
SmartLog	✔	✔	✔	–	✔	✔	SmartLog
Genlock	✔	-	-	-	-	-	Genlock
3D Luts	✔	–	–	–	–	–	3D Luts
File Format	ExFAT - No restriction	ExFAT - No restriction	ExFAT - No restriction	ExFAT - No restriction	ExFAT - No restriction	ExFAT - No restriction	File Format
Voltage	6.2-18.3V DC	6.2-18.3V DC	6.2-18.3V DC	6.2-18.3V DC	6.2-18.3V DC	6.2-18.3V DC 90-250 VAC	Voltage
Power Consumption	3-10 Watts	3-6.8 Watts	3-6.8 Watts	1.5-3.3 Watts	3-6 Watts	3-15 Watts	Power Consumption
Camera Control	LANC/HD-SDI/HDMI timecode	LANC/HD-SDI	LANC/HDMI	HDMI timecode	HDMI timecode	LANC/HD-SDI	Camera Control
Battery Life	4hrs & continuous	4-9hrs & continuous	4-9hrs & continuous	5-10hrs	4-9hrs & continuous	AC power / 4hrs & continuous	Battery Life
D-Tap Adapter Support	✔	✔	✔	✔	✔	✔	D-Tap Adapter Support
Construction Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum and Steel	Construction Material
Shipping	End Q3/Q4, 2014	Now	Now	End of May, 2014	Now	Now	Shipping

[1] 12G is an emerging standard with no current camera support. We will update compatibility as it becomes available.

* CFAST to SATA adapter required.

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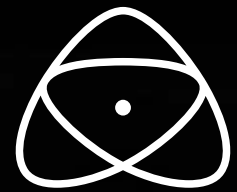info.china@atomos.com

Office hours
8:00am – 4:00pm CST (GMT +8)

3"   4.3"   5"   5"   7"

NINJA STAR   **NINJA 2**   **NINJA BLADE**   **SAMURAI BLADE**   **SHOGUN**

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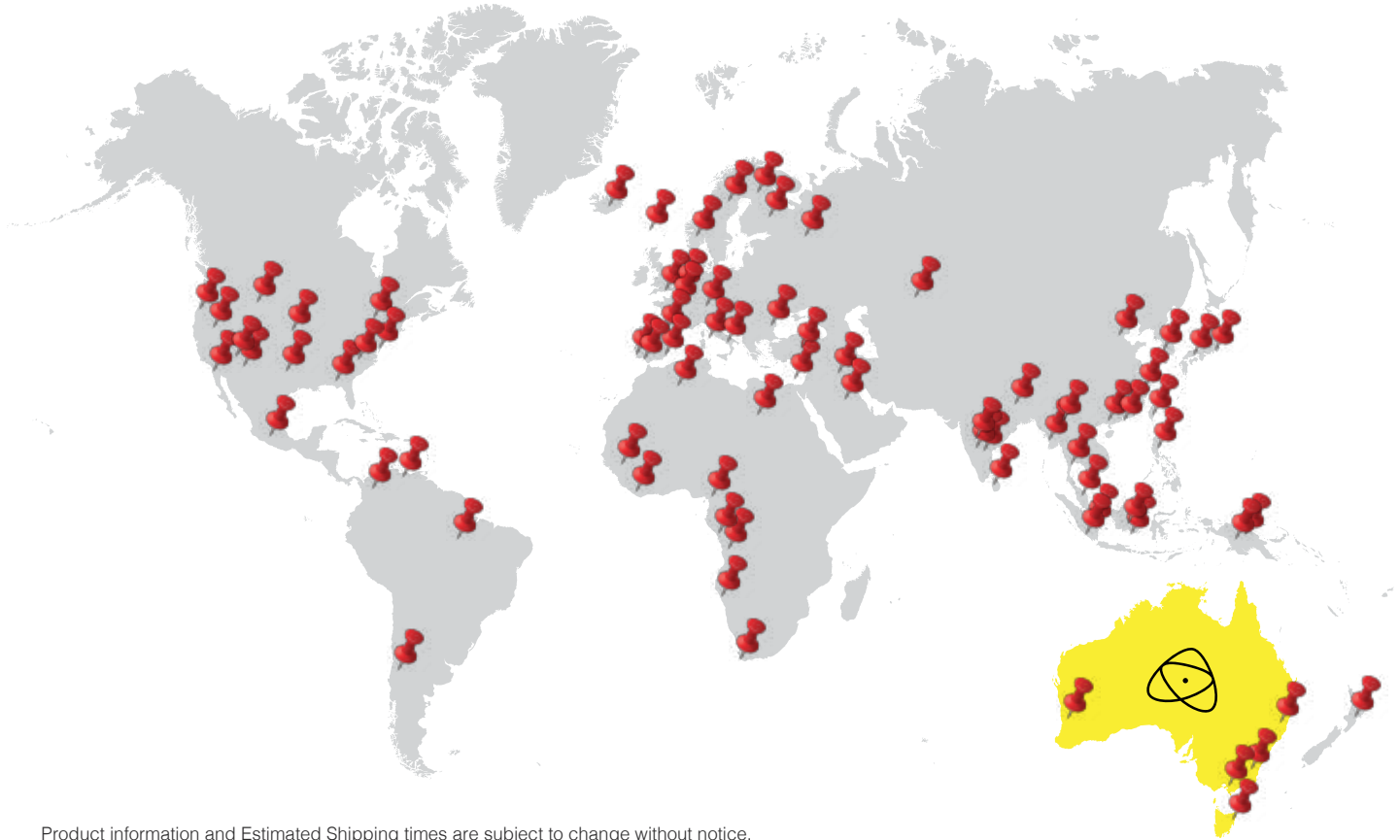
Product information and Estimated Shipping times are subject to change without notice.

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