

HDMI™ FIELD RECORDER, MONITOR, PLAYBACK & PLYOUT DEVICE
10-BIT SMART PRODUCTION FOR DSLRs & HDMI CAMERAS

NINJA-2



ProRes | Avid DNxHD®

NOW WITH:
AtomOS3
 → SmartLog* (mark+tag)
 → SmartMonitor
 → SmartControl

EXPANDABLE WITH
CONNECT
 ADD
 HD/SD-SDI
 IN/OUT

RECORD → MONITOR → PLAYBACK+PLAYOUT → EDIT-READY

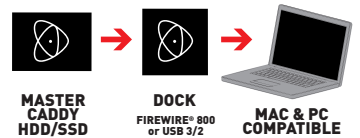
Uncompressed 8/10-Bit
 ↓
 Apple ProRes® or Avid DNxHD®
 ↓
 HDD | SSD

NINJA 2
4.3" SCREEN
 800x480 / 16:9
 Focus + Exposure Assist

Playback on-screen
 or external monitor
 Instantly review,
 navigate, mark and tag
 your recorded footage
HDMI I/O

Broadcast 10-bit
 4:2:2, 1920x1080

Mac & PC compatible



ATOMOS NINJA-2

YOUR 10-BIT HDMI SMART PRODUCTION WEAPON



AtomOS3

Easy-to-use Touchscreen Operating System

Access all of the Ninja-2's operations via the fast, responsive touch interface. The real power of the Ninja-2 comes from AtomOS, our innovative and intuitive operating system.

One-touch Navigation allows for simple operation – everything is one touch away.

AtomOS upgrades are provided free of charge, via download.

Headphone Line Out Volume Lets you adjust the volume of the professional quality headphone amplifier

Audio Input Level Meters + Headphone Line Out Volume

Touch audio meters to adjust 4 channels of audio. 8 channel HDMI audio support coming this summer

Current Video Input Format

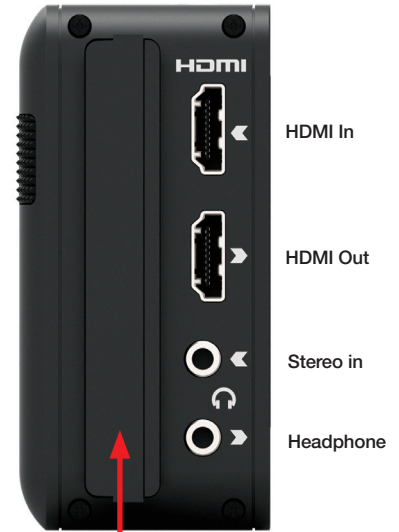
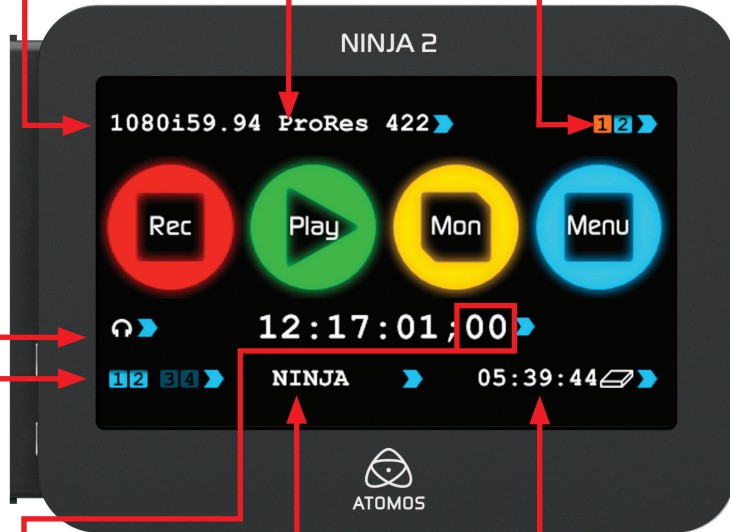
Displays native format from source signal ie. 1080i 59.94

Recording Format

Select the variety of ProRes® or Avid DNxHD codec you are recording to; Avid DNxHD-220X (10-bit), DNxHD-220 (8-bit), DNxHD-145 (8-bit), DNxHD-36 Proxy (8-bit) + all ProRes® options.

Continuous Power Battery Indicator

Shows which battery is currently being used to power the Ninja-2. You are free to replace the one that *isn't* being used, the active battery is illuminated orange.



Timecode
Choose between On board, time of day, record run or auto restart time code modes or utilise external timecode from camera or any source input

Unit Name
Name your Ninja-2 by project or camera. Media drives and recorded files are subsequently named with the unit name upon formatting.

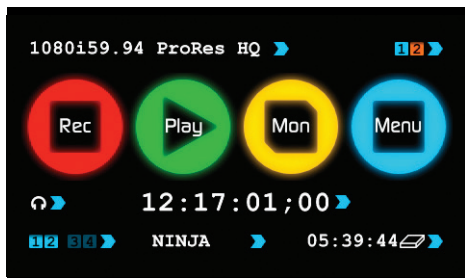
Time Remaining
Shows remaining record time. Remaining time is calculated dynamically and is based on the bitrate of the current recording format and the memory capacity of the HDD/SSD in use.

Master Caddy Slot
Simple, locking HDD/SSD system. A safe, practical solution to media management

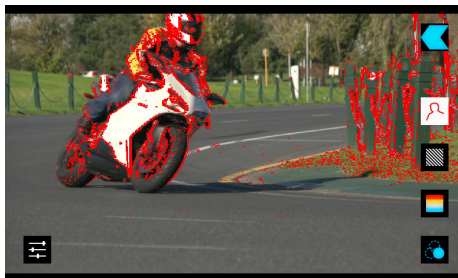
ATOMOS SMART PRODUCTION

ALL THE FEATURES YOU'VE ASKED FOR, AND MORE...

Rec One-touch Recording



Rec **Mon** One-touch Monitoring



Play **Edit** One-touch Review



SmartControl

Start/stop trigger from rolling timecode (Canon and Sony HDMI timecode-supported cameras only) and HDMI start/stop flags present in selected Canon cameras.



SmartMonitor

Accurately assess focus and exposure with:

- Focus Peaking
- Adjustable Zebra
- False Color Twin Mode
- Blue Only - Exposure Check
- Control - Adjustments for individual filters
- SmartLog

SmartLog

Log in and out points on your footage and tag these clips with keywords such as 'good shot', 'bad shot' etc.



With the Ninja-2 this part of the post production process can now be done on set, or on the move, with Continuous Power.

SmartLog operates while in Monitor or Playback mode. It saves time, money and allows fast, collaborative pre-editing prior to final post production.



Online or Offline, Master or Back-up

10-bit 4:2:2, 220Mbps, 2.5" HDD or SSD

Professional media production is all about balancing quality, cost and time. We understand this dynamic and our aim is to redefine the digital recording workflow to maintain the highest recording quality, minimize the time taken to move video from camera to computer and lower the cost of production using affordable, high capacity, high speed media.

The Ninja-2 takes any uncompressed HD or SD source and encodes it in real-time to 10-bit, 4:2:2 Apple ProRes or Avid DNxHD at up to 220Mbps. Both are class-leading codecs for production, broadcasting, editing and post-production. Because we are portable, we can record from the ultimate image source, the sensor of the camera.

The Ninja-2 always records in 10-bit, even from an 8-bit source. We add color registries for integration into higher bit-depth graphics from CG, animation and special effects. This avoids banding and makes editing and grading, in fact any precision effect, more accurate.

Any HDMI™ or HD-SDI source...

DSLRs, Decks, Switchers, PC, Mac, iPad & iPhone

Ninja-2 has HDMI In and optional SDI In*. Virtually any device transmitting an HDMI or HD/SD-SDI signal is compatible with the Ninja-2, including cameras, decks, switchers, routers, PCs, MAC, tablets and smart phones as well as audio equipment, which make it an indispensable tool for any number of scenarios.

Nikon/Sony/Panasonic/Canon/Red/Arri/JVC/GoPro

Whether you are a Hollywood DOP needing high quality review and tagging tool from an Arri, RED, Canon or Sony camera, or an independent filmmaker using a Nikon DSLR for end-to-end digital production, the Ninja-2 makes all types of production faster, better and easier, and at very little cost.

James Cameron used Atomos field recorders on his *Deep Sea Challenge* - need we say more? From 4 miles down to 20,000 feet up, Ninja-2 will record your adventures in super high quality - it's got you covered on land, air and sea!



Ready to deliver, high-capacity HDD or SSD No more expensive memory cards!

Ninja-2 frees you from the financial and operational constraints of expensive Flash media (e.g. SxS and P2) and aggressive compression (MPEG-2) by allowing you to use cheap, commodity storage that's available anywhere.

Choose inexpensive 2.5" hard disk drives (spinning disks) for 90% of projects and Flash-based SSDs for rough terrain or high security use. HDDs are now cheaper than tapes! Store them on a shelf or hand them to your client. Modern commodity storage is extremely reliable.

A 750GB/5400rpm drive holds up to 16 hours of high quality Apple ProRes® footage.

Supported Drives

HDD: Western Digital, Hitachi, Samsung, Toshiba
SSD: Intel, OCZ, Cruise

Latest recommended drives: www.atomos.com



800x480 screen with 170° viewing and loop play

Focus Peaking, Zebra, False Color & Blue Only Exposure



The Ninja-2 replaces your current monitor with sharper images, better direct sunlight performance, loop play and professional monitoring tools such as Focus Peaking to help you really nail that shot. Accessories such as Loupe and Sun visors are also available.

Combining monitoring with other essential production and post production tasks is just another example of why the Ninja-2 is a Weapon of Smart Production.



Pristine Playback & Payout SmartLog - Just Mark & Tag

Use your Ninja-2's 800x480 16:9 screen to navigate through and review your footage, to mark in and out points and input XML tags. Instantly show your material to production colleagues, clients or talent, and check each shot in detail, during or after the shoot - logging their suggestions without leaving the set. Review and edit an entire day's shoot on-set, or while travelling, with high-quality playback and comprehensive clip logging & navigation controls.

Just touch "Play" on the Ninja-2 touchscreen and view your full HD recordings, with up to of 10 hours playback and editing on one battery charge (and don't forget our patent-pending Continuous Power for unlimited operation in the field).



Instant editing on MAC or PC!

The Ninja-2 seamlessly migrates your productions to the efficient and cost-effective world of file-based workflows. By recording directly to a production-quality, edit-friendly format, it bypasses the codec in the camera and eliminates the time-consuming capture process completely.



The Ninja-2's tight integration with Apple ProRes® means recorded footage is instantly and natively editable in Final Cut, Media Composer, Premiere, EDIUS, Vegas and Lightworks.

Everything you need

Ninja-2 works right out of the box, you can be using it within minutes! We supply everything (except storage media) in a tough professional carry case.

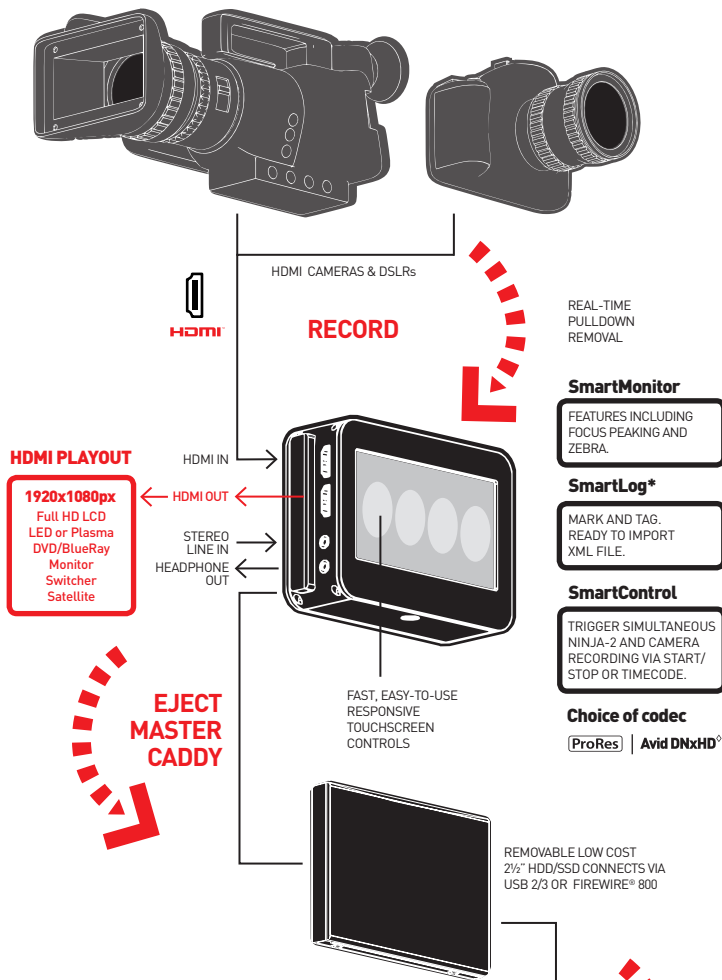


FROM SENSOR TO EDIT SUITE UNCOMPRESSED 10-BIT HD/SD

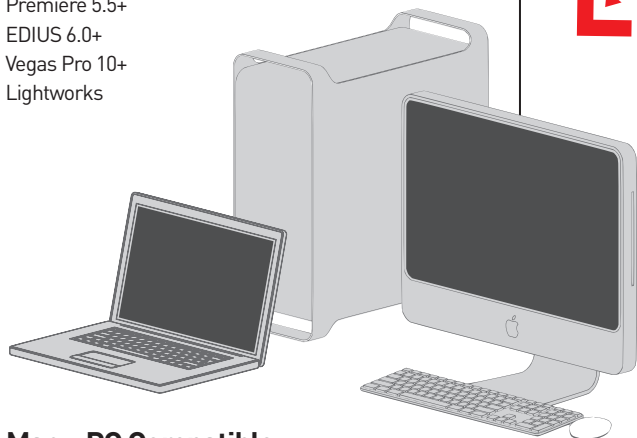
NINJA-2 TECH SPECS



- ▶ Uncompressed 8/10-bit HD/SD from HDMI to AppleProRes® or Avid DNxHD® on HDD/SSD



- ▶ Ready to Edit
- FCPX/FCP7+
- Media Composer 5.0+
- Premiere 5.5+
- EDIUS 6.0+
- Vegas Pro 10+
- Lightworks



Mac + PC Compatible

Ninja-2 Main Unit

Lightweight	370g / 13oz (without batteries & HDD) 670g / 23.5oz (with batteries & HDD)			
Dimensions (without batteries)	115mm (W) x 87mm (H) x 41mm (D)			
Construction	Aircraft-grade aluminium for durability + portability. Fanless for silent operation.			
Operating Power	3.0W (Monitoring Only) / 6.0W (Rec, Mon & Play)			
Batteries 7.2V-14.4V Battery System Compatible NP Series D-Tap and supporting accessories	All 7.4v 1. 2600mAh - Up to 10hrs 2. 5200mAh - Up to 20hrs 3. 7800mAh - Up to 30hrs 4. AC Power via adaptor plate (option) 5. D-Tap Adaptor (cables sold separately)			
Continuous Power* *Patent Pending	Primary-Secondary battery system. Change batteries without losing power. Loop batteries continuously.			
Touchscreen	Size: 4.3" diagonal. Resolution: 800x480. Aspect Ratio: 16:9 native / 4:3 Letterbox. SMPTE Colour Specification Native Frame Rate Playback (48-60Hz)			
Video Input Uncompressed 10/8-bit 4:2:2 Simultaneously displayed on internal 4.3" Ninja-2 screen	HDMI x 1 HD-SDI/SD-SDI (with optional Connect SDI → HDMI converter)	HDMI 1.4		
Video Output	Reclocked, ultra low jitter professional grade HDMI output, "HDMI 1.4"			
Supported Formats (In/Out)	HD 1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080p30(60i), 1080p25(50i), 1080p24(60i), 1080p23.98(60i), 720p60, 720p59.94, 720p50, SD 480i, 576i Most HDMI cameras output 24P, 25P and 30P as 50i or 60i, see www.atomos.com/support			
Realtime Hardware Encoding 1920x1080 8/10-bit 4:2:2 to:	→ Apple ProRes® HQ - 220Mbps 422 - 150Mbps LT - 100Mbps → Avid DNxHD® Avid DNxHD-220/220x - 220Mbps (8/10-bit) Avid DNxHD-185/185x - 185Mbps (8/10-bit) Avid DNxHD-145 - 145 Mbps (8-bit) (available end Q3/2012)			
Audio input	HDMI 2 channel + 2 analog channels with gain controls.			
Audio Output	HDMI 2 channel Analog line and Headphone			
Remote Start and Stop	HDMI start/stop flags (Canon compatible)			
Timecode	Sony and Canon compatible HDMI timecode in and out			
Recording Time	Edit Formats (I-Frame Only, 4:2:2, 8/10-bit)	HDD or SSD		
HDD & SSDs are hot-swappable on the fly in the field ProRes Avid DNxHD®	ProRes® HQ (10-bit, 220Mbps)	2.5 hrs	5hrs	10hrs
	Avid DNxHD-220x (10-bit, 220Mbps)	2.5 hrs	5hrs	10hrs
	ProRes® 422 (10-bit, 150Mbps)	4 hrs	8hrs	16hrs
	Avid DNxHD-145 (8-bit, 145Mbps)	4 hrs	8hrs	16hrs
	ProRes® LT (10-bit, 100Mbps)	5.5 hrs	11hrs	22hrs
SD not supported by Avid DNxHD				

Master Caddy & Accessories

Master Caddy Case for HDD or SSD	75mm x 105mm x 12mm
2.5" SSD or HDD minimum 5400rpm to 10,000rpm standard 9.5mm height	For recommended drives visit: www.atomos.com Available in packs of 5 for: USD 29.95 / £19.95 / €19.95 / AUD 34.95
Master Caddy Dock	2.5" internal drive SATA to FireWire® 800, USB 2.0 / 3.0
Supported Applications	FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5+ EDIUS 6.0+ / Vegas Pro 10+ / Lightworks
Accessories included	• Universal Battery Charger 110-240V • Docking station and leads • 2 x Master Caddy Cases • 2 x Atomos 2600mAh batteries • Rugged Carry Case
Optional Extras	• 5 x Master Caddy Cases • Atomos AC Adaptor • Docking station and leads • D-Tap Adaptor • Connect H2S converter • Connect S2H converter

PLEASE NOTE: SD not supported by Avid DNxHD.



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