RONIN Portable Recorder/Player/Monitor

ATOMOS

Preliminary Data Sheet

The Ronin portable Recorder/Player/Monitor is a smart solution for both fixed-facility and on-location video production. Based on the award-winning Samurai field recorder, the Ronin features touchscreen ease of use, capture to Apple ProRes® or Avid DNxHD◊, professional monitoring and edit review. Like the Samurai, it can operate on location with battery or DC power, but it can be used in a fixed facility, rack-mounted environment using AC power.

In addition, the Ronin has balanced XLR inputs and outputs, along with a front panel headphone jack with channel monitoring selections. It also has an internal battery charging system for attached Atomos batteries when connected to AC power.

For HDMI capability, simply attach an Atomos Connect H2S and/or S2H converter. The Ronin's compact half-rack size makes it suitable for any video production environment.

Included accessories

→ 2 x Atomos batteries

→ Atomos Docking Station

→ FireWire® 800 cable

→ USB 3.0 cable

→ USB power cable

→ 2 x Master Caddy Cases with screws

→ Atomos D-Tap Adaptor

Product features

→ **Atomos OS touchscreen application for recording, monitoring, playback and edit review**

→ **Compact half-rack size – portable or rack mount**

→ **Full HD-SDI Recorder/Player, ProRes or DNxHD** (available Q4/2012)

→ **AC, DC or battery operation**

→ **Balanced audio with XLR inputs and outputs**

→ **Front panel headphone jack**

→ **Serial control compatible**

→ **Top handle, tilting feet and ¼ inch mounting points for accessories**

AtomOS3   HDD | SSD   ProRes   Avid DNxHD◊

Learn more about Atomos products: **www.atomos.com | Sales: sales@atomos.com | Support: support@atomos.com**

Modular rack-mountable design

Optional Accessories

→ Dual Rack-mount Adaptor, with mounting hardware

→ Half-rack Adaptor –
mounts in a waveform monitor space

→ Connect S-2-H, SDI to HDMI Converter

→ Connect H-2-S, HDMI to SDI Converter

→ Sun hood (design under review)

Technical specifications

Weight	1.9kg (1890 grams) / 4lb 3oz
Dimensions (without batteries)	102mm (H) x 202mm (W) x 140mm (D)
Construction	Steel construction for durability + portability. Fanless for silent operation.
Operating Power	3.3W (Monitoring Only) / 6.8W (Rec, Mon & Play)
Power and battery options - Internal AC power supply 100-240V - 7.2V-14.4V Battery System Compatible NP Series - 2 x DC output - D-Tap	**All 7.4v** 1. 2600mAh - Up to 4hrs 2. 5200mAh - Up to 8hrs 3. 7800mAh - Up to 12hrs 4. D-Tap Adaptor (cables sold separately) **AC power charges batteries. In the event of loss of AC, power seamlessly transfers to batteries.**
Continuous Power* *Patent Pending	Primary-Secondary battery system. Change batteries without losing power. Loop batteries continuously.
Touchscreen	Size: 5" 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 5" Samurai screen Full size BNC	3G/HD/SD-SDI x 1 HDMI x 1 (with optional H2S Connect HDMI -> SDI converter)	DI SMPTE 259/292/296 Mini BNC (75 ohm) HDMI v1.4
Video Output Uncompressed 10-bit 4:2:2 Simultaneously displayed on internal 5" Samurai screen Full size BNC	HD/SD-SDI x 1 HDMI x 1 (with optional S2H Connect SDI -> HDMI converter)	DI SMPTE 259/292/296 Mini BNC (75 ohm) HDMI v1.4

Supported Formats (In/Out)	**HD 1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50, SD 480i, 486i, 576i**

Realtime Hardware Encoding 1920x1080 8/10-bit 4:2:2 to:	→ Apple ProRes®	HQ - 220Mbps 422 - 150Mbps LT - 100Mbps
	→ Avid DNxHD (available end Q3/2012)	Avid DNxHD-220/220x - 220Mbps (8/10-bit) Avid DNxHD-185/185x - 185Mps (8/10-bit) Avid DNxHD-145 - 145 Mbps (8-bit)

Onboard Processing Auto detect and remove or insert pulldown	25pSF (50i) → 25p 30pSF (60i) → 30p 24p (3:2-60i) → 24p 23.98p (3:2-59.94i) → 23.98p
Audio input 48kHZ PCM audio	SDI 12 channels + 2 analogue channels with gain controls + 2 balanced XLR channels
Audio output 48kHZ PCM audio	SDI 12 channels + headphone for onboard review. (Select any pair of channels) + 2 balanced XLR channels.
Remote Start and Stop	Via SDI trigger / Via SDI timecode / Via Lanc controller

Recording Time HDD & SSDs are hot-swappable on the fly in the field [ProRes] Avid DNxHD◊	**Edit Formats** (I-Frame Only, 4:2:2, 8/10-bit)	**HDD or SSD**		
		250GB	**500GB**	**1 TB**
	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) SD not supported by Avid DNxHD	5.5 hrs	11hrs	22hrs

Master Caddy Case **for HDD or SSD** *2.5" SSD or HDD minimum 5400rpm to 10,000rpm standard 9.5mm height*	75mm x 105mm x 12mm **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	• Docking station and leads • 2 x Master Caddy Cases • 2 x Atomos 2600mAh batteries • D-Tap Adaptor

Optional Extras	• 5 x Master Caddy Cases • Docking station and leads • Connect H2S converter • Connect S2H converter

◊ SD not supported by Avid DNxHD

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