

## Data Sheet

The Ronin portable Recorder/Player/Monitor is a smart solution for both fixed-facility and live 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 also be used in a fixed facility, rack-mounted environment using AC power.

In addition, the Ronin has balanced XLR input and output, 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.



### Product highlights

- AtomOS 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
- AC, DC or battery operation
- Balanced audio with XLR inputs and outputs
- Front panel drive access and headphone jack
- Serial control compatible – Record Start/Stop
- Top handle, tilting feet and ¼ inch mounting points for accessories

AtomOS | HDD | SSD | ProRes® | Avid DNxHD®

### Included accessories

- 2 x Atomos batteries
- Atomos Docking Station
- 5 x Master Caddy Cases
- Atomos D-Tap Adaptor

### Optional accessories

- Dual rack-mount kit
- Connect S2H, SDI to HDMI Converter
- Connect H2S, HDMI to SDI Converter

## Stand-alone Unit



## Modular rack-mountable design



## Ordering information

- Ronin, Single Unit	ATOMRON001
- Ronin Duo, 2ea. Ronin units plus the Rack Mount Adaptor	ATOMRON201
- Rack Mount Adaptor - Mounts 2ea. Ronin Units in standard 19-inch equipment rack	ATOMRCK001

## Technical specifications

<b>Weight</b>	1.9kg (1890 grams) / 4lb 3oz			
<b>Dimensions (without batteries)</b>	102mm (H) x 202mm (W) x 140mm (D)			
<b>Construction</b>	Steel construction for durability + portability. Fanless for silent operation.			
<b>Operating Power</b>	3.3W (Monitoring Only) / 6.8W (Rec, Mon & Play)			
<b>Power and battery options</b>	<b>All 7.4v</b> 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 attached batteries.	<b>DC output</b> 12V @ 0.5a, for powering optional accessories		
<b>Continuous Power*</b> *Patent Pending	Primary-Secondary battery system. Change batteries without losing power. Loop batteries continuously. Built in charger, charges attached Atomos batteries for portable use or AC power loss back-up.			
<b>Touchscreen</b>	Size: 5" diagonal. Resolution: 800x480 Aspect Ratio: 16:9 native / 4:3 Letterbox. SMPTE Colour Specification Native Frame Rate Playback (48-60Hz)			
<b>Video Input</b> Uncompressed 10/8-bit 4:2:2 Simultaneously displayed on internal 5" screen Standard size BNC	HD/SD-SDI x 1  Optional HDMI (HDMI input possible with Connect H2S)	SMPTE 259/292/296M		
<b>Video Output</b> Uncompressed 10-bit 4:2:2 Simultaneously displayed on internal 5" Samurai screen Standard size BNC	HD/SD-SDI x 1  HDMI x 1 (with optional S2H Connect SDI -> HDMI converter)	SMPTE 259/292/296M		
<b>Supported Formats (In/Out)</b>	HD 1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50, SD 486i59.94, 576i50 pSIF - Progressive Segmented Frame modes are recorded to Progressive rates			
<b>Realtime Hardware Encoding</b> 1920x1080 8/10-bit 4:2:2 to:	→ Apple ProRes®  → Avid DNxHD	HQ - 220Mbps 422 - 150Mbps LT - 100Mbps  Avid DNxHD-220/220x - 220Mbps (8/10-bit) Avid DNxHD-185/185x - 185Mbps (8/10-bit) Avid DNxHD-145 - 145 Mbps (8-bit)		
<b>Onboard Processing</b> 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			
<b>Audio input</b> 48kHz PCM audio	SDI embedded: 12 channels 48 kHz 16 bit XLR: 2 channels balanced analog audio 48 kHz 16 bit. +24dBu clipping level, 96 dB SNR, adjustable input gain (analog gain -12dB)			
<b>Audio output</b> 48kHz PCM audio	DI embedded: 12 channels 48 kHz 16 bit XLR: 2 channels balanced analog audio 48 kHz 16 bit. +24dBu clipping level, 96 dB SNR. Level settable +18dBu/+24dBu Headphone (>=16 Ohm) for onboard review (select any pair of channels)			
<b>Remote Start and Stop</b>	Via SDI trigger / Via SDI timecode / Via LANC controller. Full unit control via Atomos Serial Control Protocol.			
<b>Recording Time</b>	<b>Edit Formats</b> (I-Frame Only, 4:2:2, 8/10-bit)	<b>HDD or SSD</b>		
HDD & SSDs are hot-swappable on the fly in the field  ProRes® Avid DNxHD®  Avid DNxHD requires online activation prior to first use		<b>250GB</b>	<b>500GB</b>	
		<b>1 TB</b>		
	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
	Avid DNxHD-36 (36 Mbps)	15hrs	30hrs	61hrs
	SD not supported by Avid DNxHD			
<b>Master Caddy Case for HDD or SSD</b>	75mm x 105mm x 12mm			
2.5" SSD or HDD minimum 5400rpm to 10,000rpm standard 9.5mm height	For recommended drives visit: <a href="http://www.atomos.com">www.atomos.com</a>			
<b>Master Caddy Dock</b>	2.5" internal drive SATA to FireWire® 800, USB 2.0 / 3.0			
<b>Supported Applications</b>	FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5+ EDIUS 6.0+ / Vegas Pro 10+ / Lightworks			
<b>Accessories included</b>	• Docking station and cables • 5 x Master Caddy Cases • 2 x Atomos 2600mAh batteries • D-Tap Adaptor			
<b>Optional Extras</b>	• Rack Mount Adapter, 3RU high, Holds 2ea. Ronin units • Connect H2S converter • Connect S2H converter			