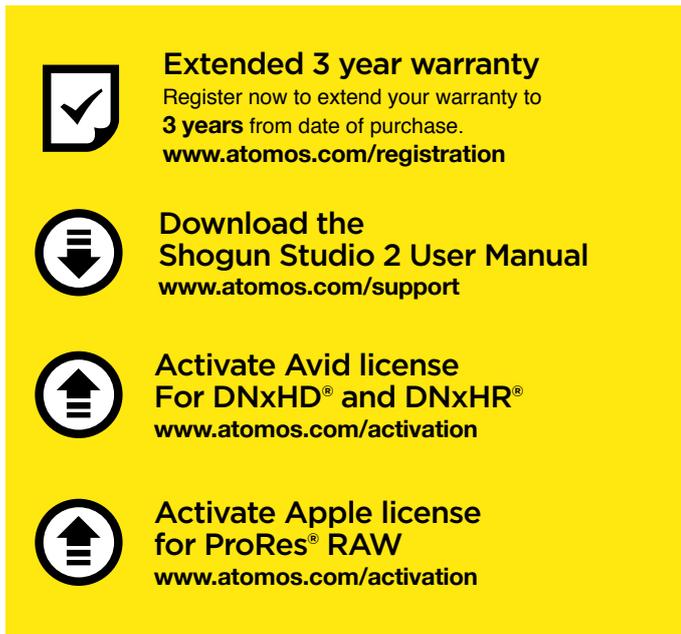


SHOGUN STUDIO 2

QUICK START GUIDE

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-  **Extended 3 year warranty**
Register now to extend your warranty to **3 years** from date of purchase.
www.atomos.com/registration
-  **Download the Shogun Studio 2 User Manual**
www.atomos.com/support
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-  **Activate Apple license for ProRes® RAW**
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Introduction

Thank you for purchasing the Atomos Shogun Studio 2, utilizing QuadLink SDI and HDMI 2.0 connectivity to record up to 4Kp60 video and high frame rate HD to ProRes and Avid DNX or RAW at up to 5.7k in ProRes RAW or 4k30p in CDNG. With 360 zone backlight combined with our SuperAtom IPS panel and Dynamic AtomHDR engine provides the ability to display millions of color graduations and image detail. With up to 3000nits of peak HDR brightness and dynamic shadow control from the zoned backlight Shogun Studio 2 can display 15+ stops of dynamic range. With a calibratable screen the that supports up to 105% of DCI p3 you can display and transform for wide color gamuts and log gammas out to HDR standards.

With so many recorder, monitor, playback and edit features, please take the time to read through this Quick Start Guide and register your product for free updates and extended warranty.

Checklist

- 1 x Shogun Studio 2**
- 2 x Rack ears + screws**
- 5 x Master Caddy II**
- 2 x Short rubber feet** for desktop mounting
- 2 x Larger rubber feet** for increased elevation
- 2 x IEC power cable** (or external PSU for Japan)
- 1 x USB-C Dock**
- 2 x HDMI Cables**

You will also need

SDI Cables

If you are connecting via 6G or 12G SDI please ensure your cable supports the Belden 1694A standard.

SSD Drives

We test and approve SSD drives from the world's leading media brands. There are specific approved drives depending on the resolution and frame rate you are capturing - for the full list of compatible drives please refer to: www.atomos.com/drives

Synchronization Connections

The Gen Lock and LTC 1/0 are connected via BNC and can use 75 Ohm cable.

Media

Widely available 2.5" SSDs are the basic storage media for Atomos 4K Monitor Recorders. We work closely with leading drive manufacturers to qualify as many options as possible. SSDs are required for 4K recording and for more demanding production environments that may not be suited to spinning hard disks.

We have worked closely with leading media manufacturers to develop media designed specifically for the Atomos Ninja V, that with the addition of AtomX SSDmini handles is 100% compatible with Shogun Studio 2. The AtomX SSDmini is smaller than a standard SSD, but utilises the same SATA connection as normal HDD/SSD media and is compatible with all Atomos recorders and docking stations. AtomX SSDmini (with SSDmini Handle) fits directly into the Shogun Studio 2 disk slot without the need for a Master Caddy II.

For more information about supported drives and accessories, visit: www.atomos.com/drives

Assemble the Master Caddy

Position a Solid State Drive (SSD) into the Master Caddy. Assemble completely and align screw holes on all three pieces. Insert screws last. Do not over-tighten. For more detailed instructions please download the full Shogun Studio 2 User Manual.

① Handle SSD with care

Avoid contact with circuit board and connectors. Refer to media manufacturer's manual for handling instructions.

Format SSD

With your chosen SSD inserted in to the Master Caddy or SSDmini with attached handle insert the drive into the channel you would like to operate. Note each drive slot corresponds to the monitor it is located beneath.

With the drive inserted you can touch the drive icon in the top right of the touch screen interface. Select to the format option to erase and prepare the drive for use. For drives that support secure erase an option will be available for this. It will take slightly longer to perform the format process and SSD will be reset to factory settings.

Important: Never remove the SSD whilst recording as this may cause data corruption.

Connect and power-up

We recommend that you connect Shogun Studio 2 directly to a reliable connection or via a power distribution unit / strip to an interruptible power supply in your rack. The Shogun Studio has 2 x AC inputs and we advise using both where possible.

Connecting Power-up and about PSUs

The rear bottom left hand side of the unit are located AC1 and AC2 inputs with IEC C-14 sockets (see next page). Connect the provided power cables to the sockets and then connect to main power. The dual power supplies internally balance the power draw across both units and additionally allows for backup power if one of the power supplies fail. If a PSU does fail a warning screen will be displayed. To continue using the unit, activate single power supply mode by clicking OK. Once connected press the power button on the front of the unit and both recorder channels will power up.

Connection layout

Looking at Shogun Studio 2 from the front, recorder channel 1 is on the left and recorder channel 2 is on the right. The rear panel has been laid out symmetrically to match what you see on the front. The major sections,

Connect and power-up cont.

recorder channel 1/control & updates/recorder channel 2, contain all of the in/ out connections relevant to that section.

The Connections of the Shogun Studio2

Video: Each recorder Channel has 2 x 3G and 2 X 12G SDI inputs, and 1 x 12G SDI output, with the option to have a 2nd 12G SDI output when in playback mode. The 12G SDI are also backwards compatible to 6G, 3G, 1.5G SDI and can be used for dual or quadlink to use with your existing equipment. Each recorder Channel also has a HDMI connection for input and output. These are both 2.0 specification to handle 4K video up to 60fps, allowing 10-bit video in and out.

Audio: Each recorder channel has 2 x XLR inputs and 2 x XLR outputs. These can be used at **Line, Mic** and **Pro** level, which can be defined by the Audio menu. The inputs can also provide 48V Phantom power to compatible microphones.

Synchronization: Each Recorder channel has Genlock input and output via BNC as well as LTC time code input and output. Operation of LTC can be found in the Timecode menu & operation of Genlock found in the output sections of the device menus. LTC can be activated whilst in Record mode and Genlock is available whilst in playback mode.

RS422 9pin D-Sub: Each recorder has it's own dedicated 9pin D-Sub with RS422 machine control. Simply connect your RS422 cable from your device or controller and Shogun Studio 2 will receive and action the commands. Please refer to the Shogun Studio 2 User Manual for a list of supported RS422 commands and qualified controllers at www.atomos.com/support

USB: The USB connection on the rear is for SERVICE ONLY and should only be used if instructed to do so as part of firmware updates.

Headphone Monitoring Jack: On the front of the unit, each recorder channel has it's own individual 3.5mm jack for audio monitoring. The channels to be monitored can be selected via the audio menu on the Shogun Studio 2 touchscreen.

Calibration Socket: Between the monitors of the recorder channels is a 2.5mm mini jack. This is for use with the optional **x-rite i1 display pro** calibrator and Atomos Calibration software. The single socket is able to calibrate both screens. Connect the x-rite unit, open the calibration software and select device 1 in the software to calibrate Recorder Channel 1 or select device 2 to calibrate Recorder Channel 2.

Control: Each of the Shogun Studio channels can be operated via the independent touch screens to adjust record, monitor, playback and edit functions. Please refer to the manual for further details.

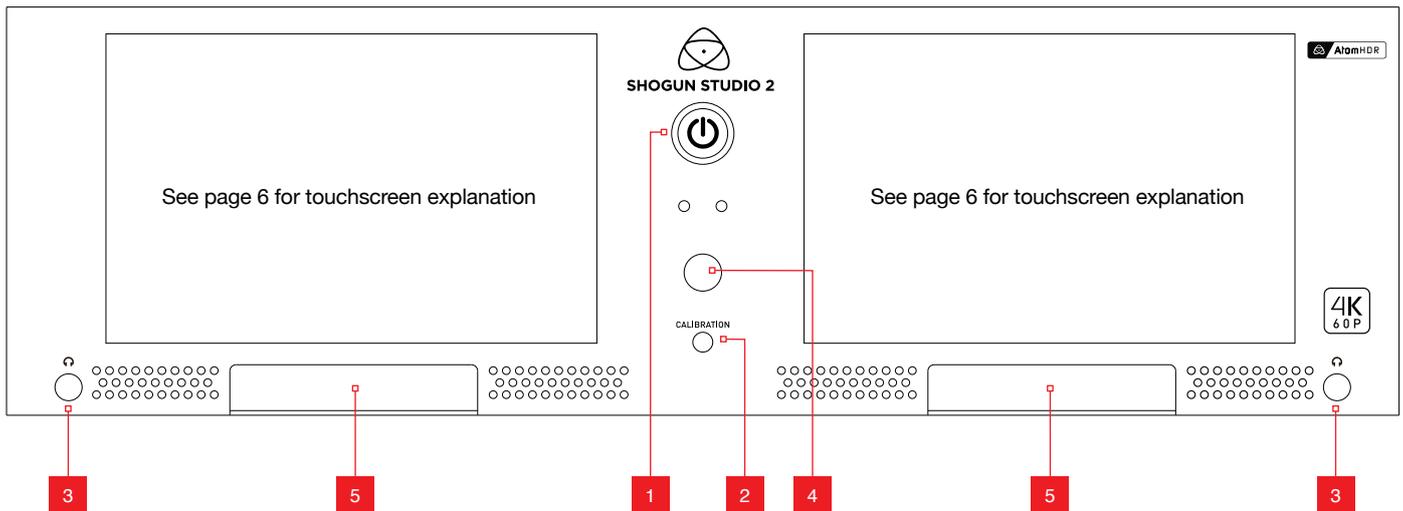
Touch Screen interface: Pictured on page 6 are the main controls seen when the Shogun Studio 2 is powered on with video input connection present and recording media in the drive bay. Touch these items to access or cycle through the available options. For example, touching the Video Input Format will open the Settings menu panel and jump directly to the related Input settings.

Power Button: A single power button is used to turn both devices on and off. A simple tap of the power button will also lock or unlock the touch interface of both recorder channels. A long press (4 seconds) will turn both units off.

Record Button

Positioned in the lower centre of the front panel is a record button. Pressing this will trigger both channel to begin recording based on current settings. To stop recording, press and hold until recording has stopped.

Physical features



1. Power Button

The power button as described earlier controls the simultaneous turning on or off both recorder channels. With both power supplies connected press the Power button and both units will power up.

⚠ *On initial connection of power the controller will go through a boot phase and the fan will spin up. Once this has happened the power button can be used to turn on the device.*

Once powered, pressing the power button for 4 seconds will turn both units off. After power down the unit's fan will remain on whilst the internal controller of the Shogun Studio shuts down.

2. Calibration Port

The Calibration 2.5mm jack port beneath the power button allows for connection of the optional **x-rite i1 display pro** unit. This single port is able to be used to calibrate both devices and each channel will display as a separate option in the Atomos Calibration software. This software will be available via www.atomos.com/support

3. Headphone Ports

Both channels have an independent 3.5mm headphone jacks for monitoring audio. The volume control is located in the Meters menu – accessed by touching the Audio Meters on the main screen, or via the Setting Menu.

4. Dual record

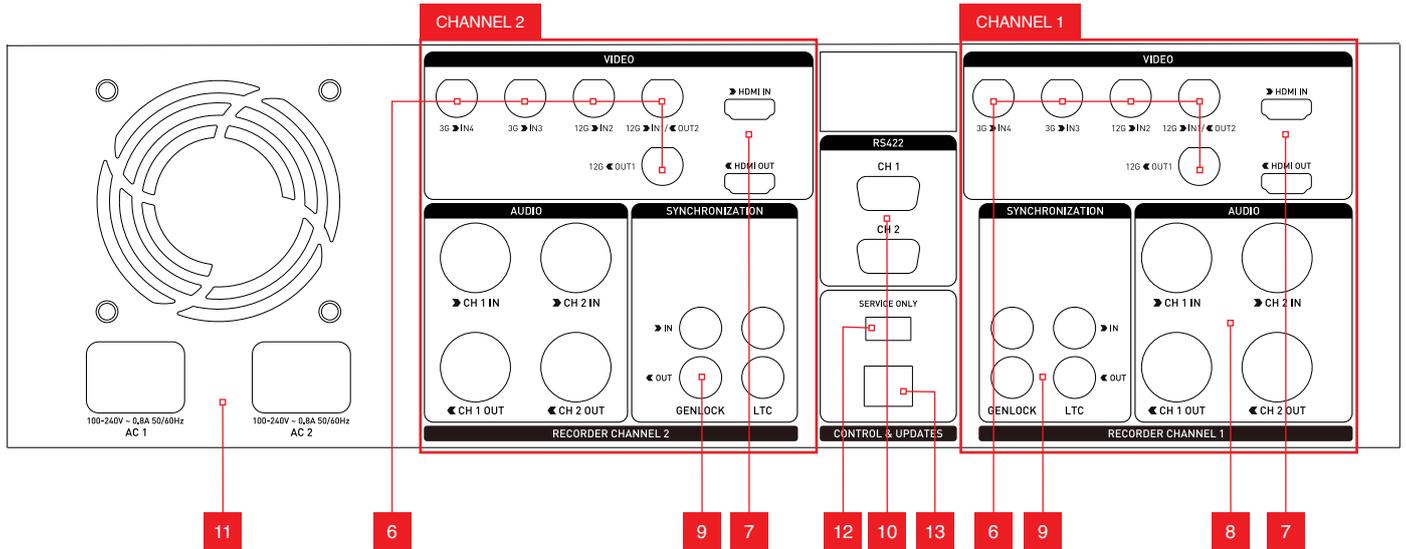
Pressing this button will trigger both units to start recording based on current settings. To stop recording, press and hold until recording has stopped.

5. Disk slots

Insert compatible media. AtomX SSDmini may be used with the addition of SSDmini handles. DO NOT use SSDmini media without the attached handle or disks may become logged inside the unit.

⚠ **ATTENTION:** *Some screen printing/labelling on the front and rear of unit as illustrated above may differ from actual unit.*
When connecting any input or other device please ensure you are connecting to the correct connection by referring to the labelling on your actual unit.

Physical features cont.



Rear of unit

The rear panel of Shogun Studio 2 has been laid out symmetrically to align the connections with the recorder channel monitor when viewed from the front.

6. SDI In/Out

BNC connectors for SDI inputs in HD/3G/6G/12G as indicated. Loop supporting up to 12G 4kp60 and should be used to connect channel 1 to channel 2. SDI input 1 can also be used as a secondary output in playback mode.

7. HDMI In/Out

HDMI input connection used to record to the Shogun Studio 2 supports up to 4Kp60. HDMI output connection provides a live loop out or play out when in Playback mode. Loop out between Channel 1 and Channel 2 is limited to 4kp30.

8. Analogue Audio

Each recorder channel has 2x XLR inputs and 2x XLR outputs. The inputs can be configured at Line, Mic and Pro level in the Audio menu. The inputs can also provide 48V Phantom power to compatible microphones. The XLR outputs are for monitoring and the audio channel routed to them can be selected via the headphones selection in the Audio menu.

9. Synchronization

Each Recorder channel has Genlock input and output via BNC as well as LTC Timecode input and loop output.

Please note that the output of the Genlock and LTC are only for loop out and the Shogun Studio 2 cannot generate either Genlock or LTC Timecode.

Operation of LTC can be found in the Timecode menu & operation of Genlock found in the Output menu when in Playback mode.

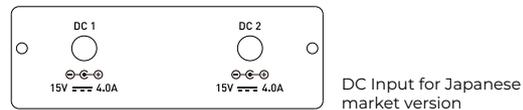
10. RS422 9pin D-Sub

Each recorder has its own dedicated 9pin D-Sub for RS422 machine control. Simply connect your RS422 cable from a qualified device or controller to the relevant port on the Shogun Studio 2. A list of supported devices and RS422 commands are defined in the user manual.

11. AC Power inputs

AC1 and AC2 inputs with IEC C14 sockets. Refer to Shogun Studio 2 User Manual for more information.

Units purchased in Japan will have a different power input configuration, as pictured below.



12. USB Port

For SERVICE ONLY and should only be used if instructed to do so as part of firmware updates.

13. RJ45 connection

For SERVICE ONLY and should only be used if instructed to do so as part of firmware updates.

Touchscreen / User Interface Basics



The Shogun Studio 2 is controlled by a simple user-friendly touchscreen interface. Pictured above is the home screen and main controls seen when the Shogun Studio 2 is attached to a compatible input. Touching the icons/text will open menus for the relevant functions.

Touch the settings icon located on bottom right to access more menus, or touch individual icons for specific settings such as timecode, audio, remaining disk space and more.

For more info visit atomos.com/shogunstudio2 and click SUPPORT tab.

Controls

Tapping **Control icons** will activate the relevant mode and function/s, ie. If you are in Record Mode, tapping Edit will reveal Edit tools, tapping Monitor will reveal monitor tools and tapping Play will switch to Play Mode.

- 
Record
 Starts recording or switches back in to Record Mode if in Monitor or play mode
- 
Play
 Switches from record to Play back mode and starts to play last clip. When clip is playing icon changes to pause.
- 
Monitor
 Toggles between Monitoring screen (no tools visible) and Info screen (pictured above - tool access + info bar), regardless of whether you are in Play back mode or Record Mode.
- 
Edit
 Provides access to metadata tags and XML export option.
- 
Settings (Monitor mode)
 Tapping the Monitor Settings button allows access to controls and functions of each of the tools.
- 
Settings (Record mode)
 When in record mode the Menu Settings icon switches to red, as shown. Tapping this icon will open the Record Settings menu.

For more information about multi-cam recording, monitoring, playback and advanced functionality please download the Shogun Studio 2 User Manual.

Monitor assist

Tapping **Monitor assist icons** will activate/deactivate monitoring tools.

- 
 Luma Parade
- 
 RGB Parade
- 
 Vectorscope
- 
 Vectorscope Zoom
- 
 Focus Peaking
- 
 Zebra
- 
 False Color
- 
 Blue Only
- 
 Zoom 1:1
- 
 Zoom x2
- 
 Safe Areas
- 
 Cinema Guides
- 
 Anamorphic De-squeeze

For complete operational instructions please refer to the Shogun Studio 2 User Manual, available for download at www.atomos.com/support

Warranty & Conditions

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- The TFT/LCD, batteries, case and master caddies will be free from defects in materials and workmanship for a period of 1 year from the date of purchase regardless of registration. This warranty is exclusively for the benefit of the original purchaser and is not assignable or transferable.

If during the warranty period the product is shown to be defective ATOMOS may at its option:

- a) replace the goods or supply equivalent ones,
 - b) repair the goods,
 - c) pay the cost of replacing the goods or of acquiring equivalent ones and
 - d) paying the cost of having the goods repaired;
- The customer must notify ATOMOS of any defect in the goods in writing prior to the expiry of the warranty periods set out above. The customer will be solely responsible for returning the goods to ATOMOS or its authorized distributor. Upon acceptance of a warranty claim by ATOMOS, where ATOMOS repairs or replaces the goods, it will be responsible for reasonable shipping costs incurred in sending the goods to the Customer, provided that customer is located in a country in which ATOMOS has an authorized distributor or repair center or agent.

Warranty Exclusions

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- Improper or negligent acts or omissions;
- Unauthorized repairs or attempted repairs;
- Tampering with or modification of the goods;
- Connection to incompatible equipment or power sources;
- Exposure to water or weather;
- Exposure to magnetic fields or corrosive liquids or substances;

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For more detailed instructions and important up-to-date information
please download the Shogun Studio 2 User Manual from:

www.atomos.com/support

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www.atomos.com/registration

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