

# **STUDIOSONIC** SHOTGUN MIC

**Let's get started!**



**ATOMOS**

# Features & Hazards

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Thank you for purchasing the Atomos StudioSonic Shotgun Microphone.

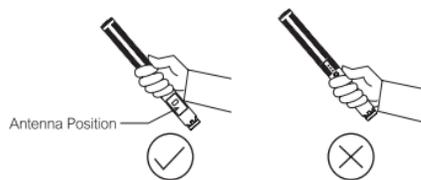
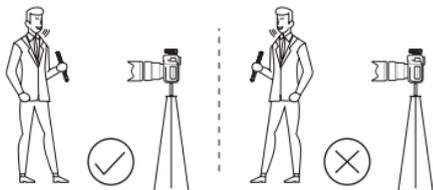
## Main Features

- Dual wired/wireless modes with one-touch switch
- 48kHz/24-bit digital output
- Broadcast-level sound quality
- Digital or analog output to monitor-recorder, camera, smartphone or PC
- Intelligent auto-sensing 3.5mm output and power switch
- 75/150Hz two low-cut filters, +3dB@10kHz high-frequency boost
- Gain control, safety mode, real-time monitoring and mute
- OLED screen for monitoring and visual operation
- Built-in rechargeable lithium battery, charges while in use
- Battery life up to 50 hours in wired mode, up to 8 hours in wireless mode
- Low latency (<20ms), wireless range up to 100m (line of sight)
- Shielded, all-metal rugged construction

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## Notice

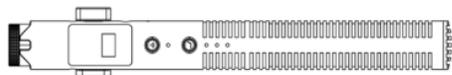
- For extended use, you can power the microphone or the receiver via their USB ports. To avoid interference, it's recommended to use a power source such as a battery pack or camera power, rather than connecting directly to mains power
- Do not obstruct the antennae, to ensure best signal
- In wireless mode, for best results adjust the transmitter gain first. Then adjust the gain of the receiver accordingly
- Use face-on whenever possible, try not to turn your back to the receiver, which adversely affect transmission and result in broken audio
- Although constructed to withstand adverse conditions, it is still a high-precision instrument. Please try avoid dropping it or immoderate impacts
- Do not use the microphone in the vicinity of heat sources or interference sources, such as radiators, microwave ovens, refrigerators or air conditioners
- If the pick-up distance is close, or if used outdoors, please use the windmuff to prevent sound peaks or to reduce wind noise
- Do not use the microphone in rain or in a damp environment, to avoid short-circuiting



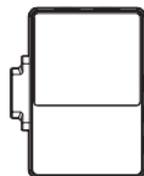
# Packing List

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## Main parts



Shotgun Microphone (Transmitter)



Receiver

## Accessories



USB-C Locking Cable



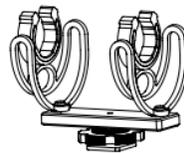
3.5mm TRS-TRS Audio Output Cable



3.5mm TRRS-TRRS Audio Output Cable



Microphone Clip



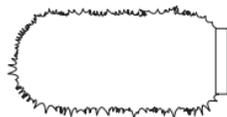
Shock Mount



Cold Shoe Mount with QR Plate



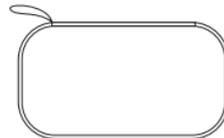
Windscreen



Windmuff



Pin



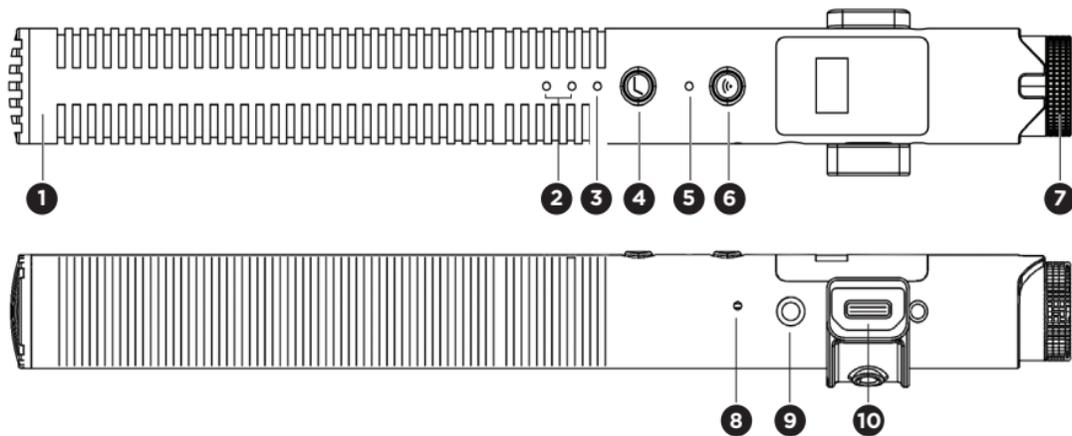
Carry Case

Let's get started!

User Manual

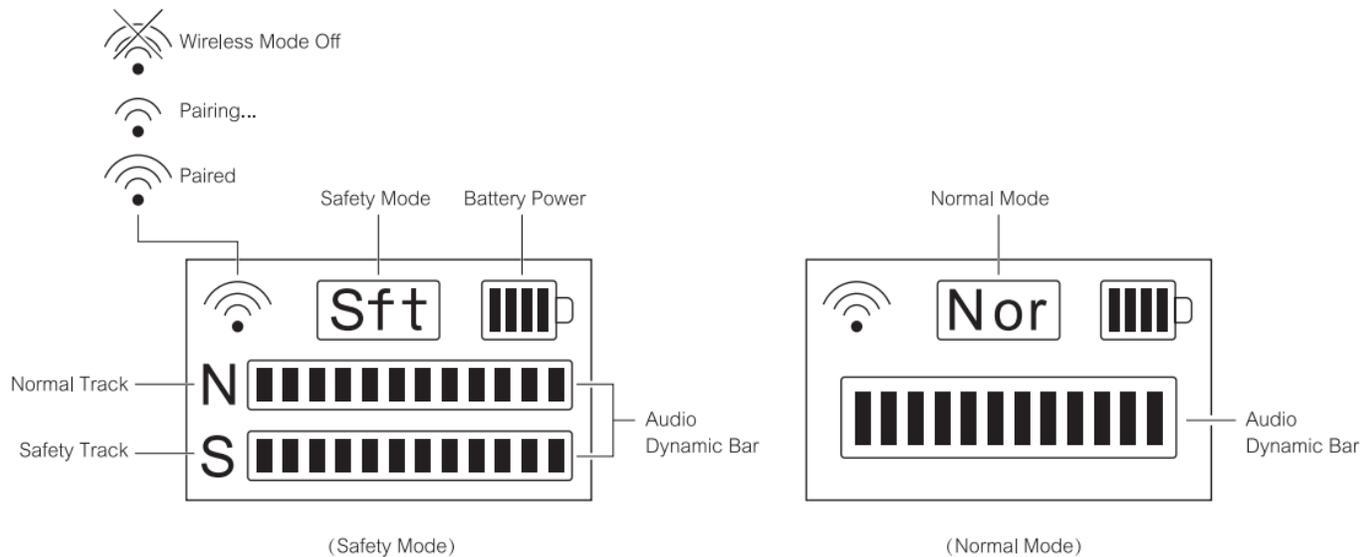
## Components & Operation

### Shotgun Microphone (Transmitter)



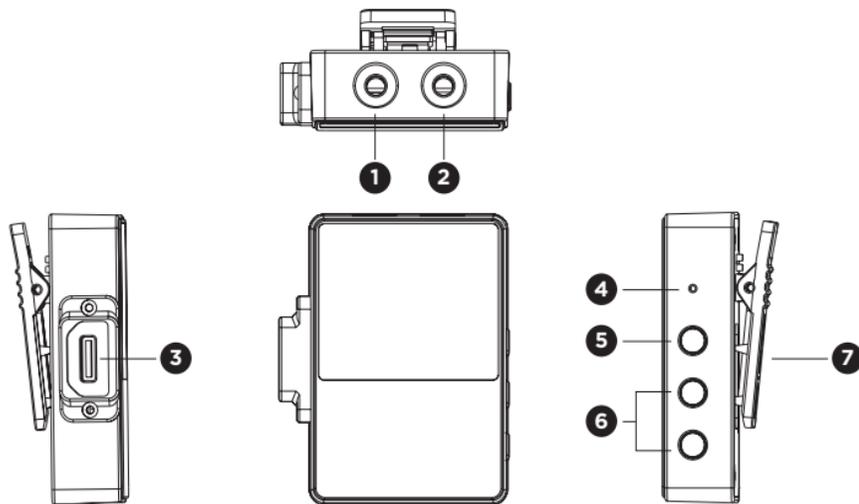
1. Mic Capsule
2. Low Cut Indicator: corresponding indicator lights up blue when turned on
3. High-frequency Boost Indicator: blue light on when turned on
4. Mode Switch Button: short-press to switch between 75/150Hz low-cut and high-frequency boost functions; long-press to turn on Safety Mode (Safety Mode is only available in wired mode)
5. Working Indicator: green light on in wired mode; In wireless mode, blue light flashes when pairing, and remains on when paired
6. RF Button: in wireless mode, long-press to turn on/off microphone; in wired mode, long-press to turn on/off wireless mode
7. Gain Control Knob: rotate to adjust microphone gain
8. Pairing Hole: if the wireless connection drops, use a pin to short-press the pairing hole to re-pair
9. 3.5mm Output Port: identifies TRS/TRRS connection automatically and output analog audio through the 3.5mm TRS-TRS/TRRS-TRRS audio cable
10. USB-C Charging/Output Port: plug in the USB-C locking cable to charge or output digital audio

# Screen Display Instructions



## Receiver Unit

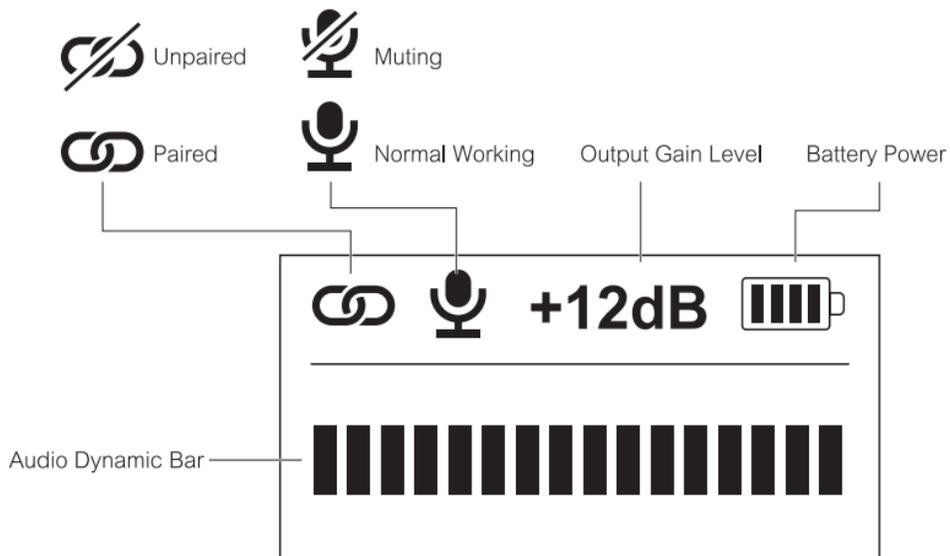
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1. 3.5mm Monitoring Port: plug in 3.5mm TRS/TRRS headphones for monitoring
2. 3.5mm Output Port: identifies TRS/TRRS connection automatically and output analog audio through the 3.5mm TRS-TRS/TRRS-TRRS audio cable
3. USB-C Charging/Output Port: charge or output digital audio with the USB-C locking cable
4. Reset Hole: If the microphone crashes or will not turn on, insert a reset pin into the reset hole to reset the device
5. Power/Mute Button: long-press to power on/off; short-press to turn on/off the mute function
6. Gain Control/Screen Flip/Pairing Buttons: short-press to adjust the gain; long-press to flip the screen; long-press the two buttons in sync to enter pairing state
7. Belt Clip / Cold Shoe mount

## Screen Display Instructions

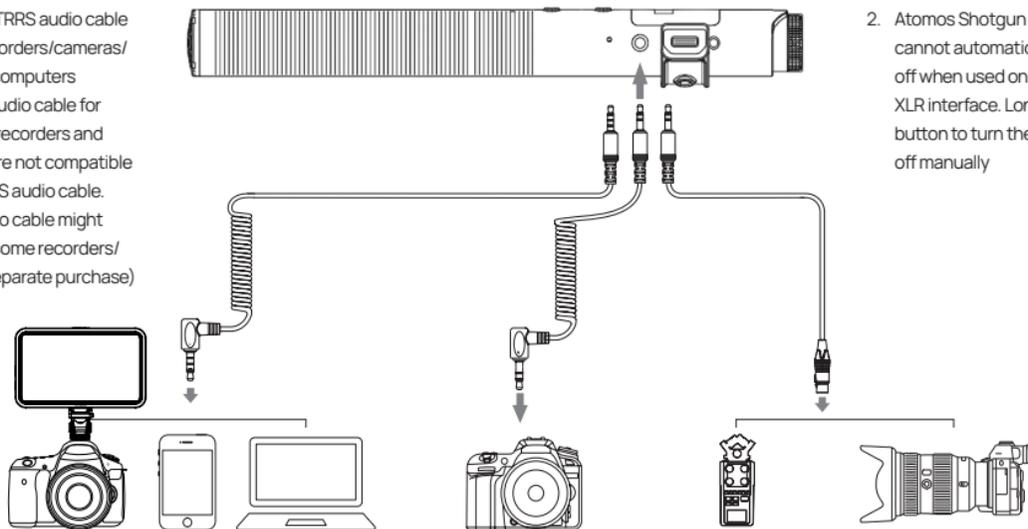
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## Wired Mode - 3.5mm Analog Output

For example when connecting the Shotgun Microphone to a camera/monitor-recorder/smartphone/computer using the 3.5mm audio cables, or connecting to a camcorder/recorder using a 3.5mm TRS-XLR audio cable (purchased separately), or connecting directly to a monitor-recorder (such as Ninja/Shogun) to record multichannel audio from camera audio and shotgun microphone. This is especially useful when the camera does not offer internal audio recording, or has poor preamps.

1. Use the TRRS-TRRS audio cable for monitor-recorders/cameras/smartphones/computers  
Use TRS-TRS audio cable for some monitor-recorders and cameras that are not compatible with TRRS-TRRS audio cable.  
A TRS-XLR audio cable might be needed for some recorders/camcorders (separate purchase)

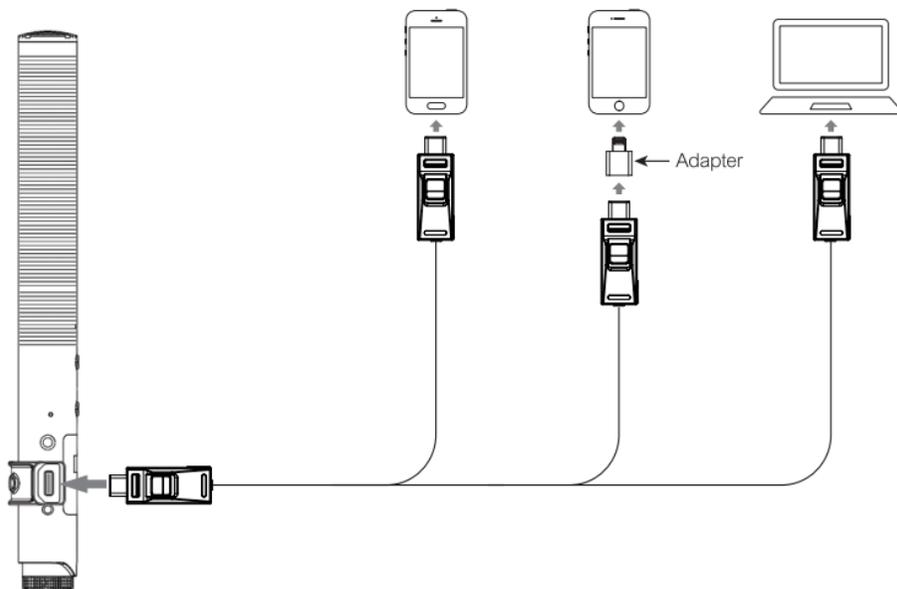


2. Atomos Shotgun Microphone cannot automatically switch on/off when used on devices with an XLR interface. Long press the RF button to turn the microphone on/off manually

## USB Digital Output

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For example, when connecting the shotgun microphone to a smartphone or computer via the USB-C locking cable

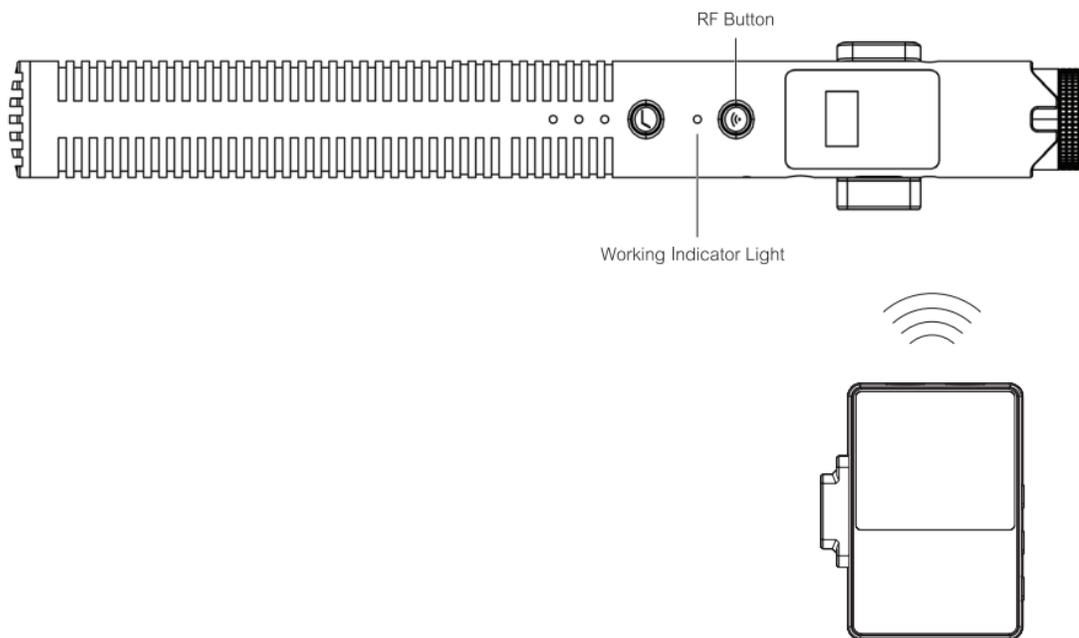


\* when using with Lightning interface devices, please purchase a USB-Lightning adapter/cable that supports the OTG function

## Wireless Mode

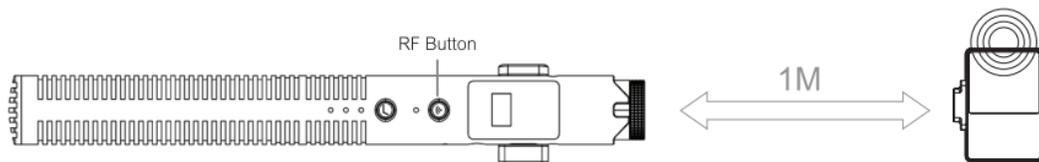
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Please note that the transmitter and receiver are paired by default at the factory

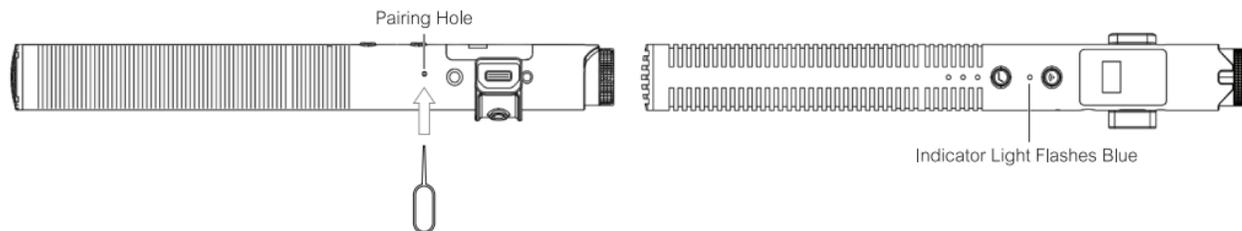


## Pairing

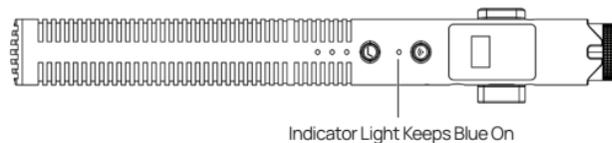
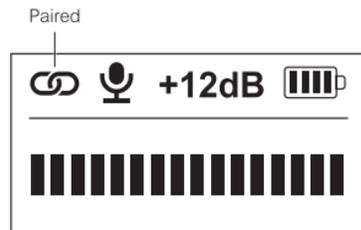
1. Keeping the transmitter and receiver within 1m range, turn on the receiver and switch the transmitter into wireless mode by long-pressing the RF button



2. Short-press the transmitter's pairing hole with the equipped pin, making it enter the wireless pairing state. Before pairing, the indicator light flashes blue



3. When pairing, the wireless icon on the screen turns into a paired icon; when paired, the blue indicator light remains on



## Other Mounts

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### Shotgun Microphone (Transmitter)

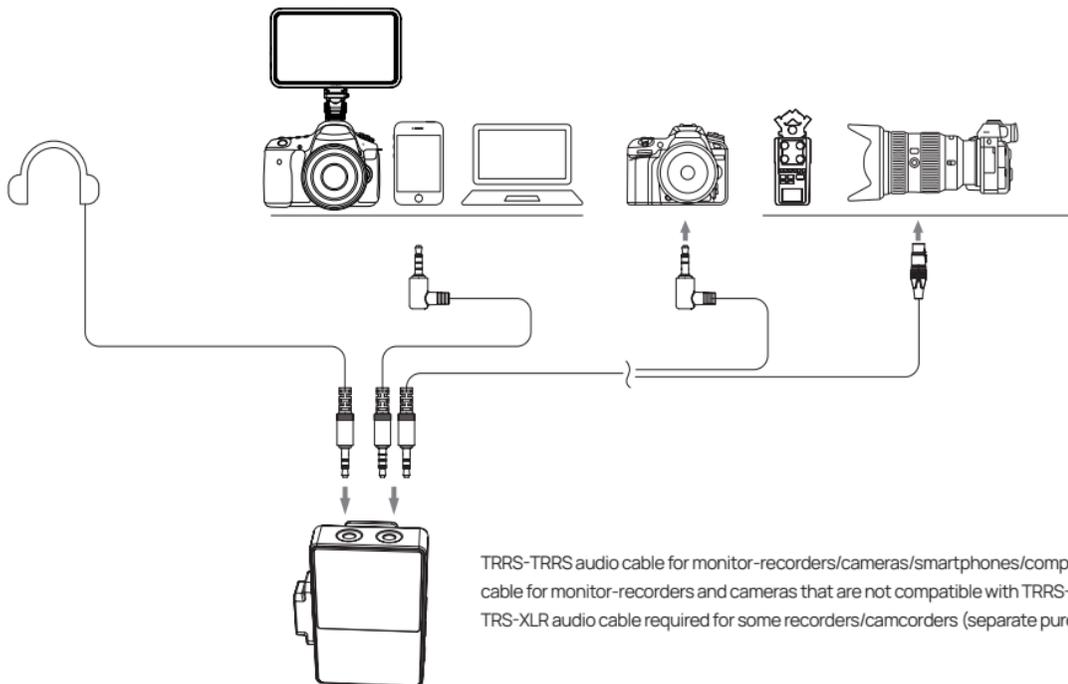
For example when using the Shotgun Microphone with arm stands, boom poles, tripods, monitor and camera mounts



## Receiver Connection

### 3.5mm Analog Output

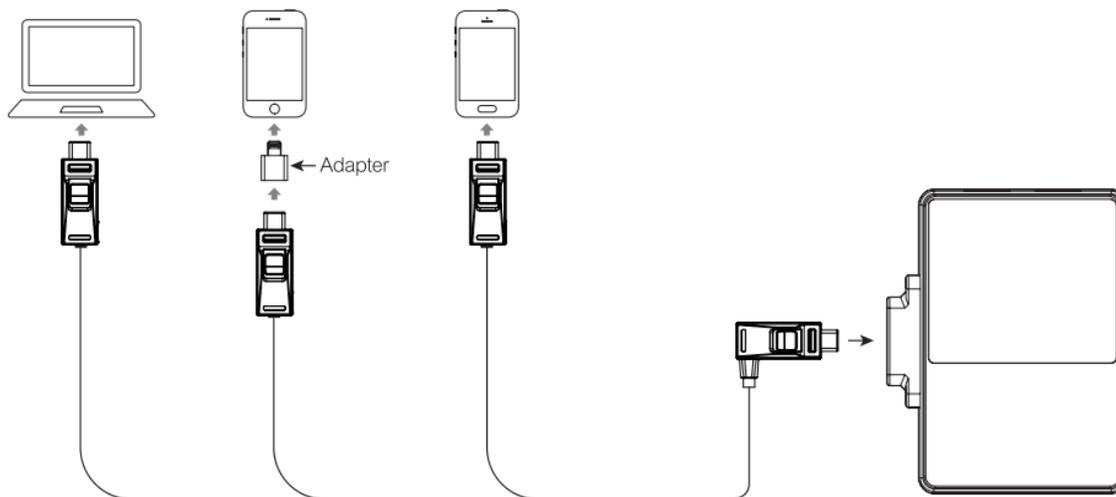
Connect the receiver to the camera/smartphone/computer using the 3.5mm audio cable, or connect to the camcorder/recorder with the 3.5mm TRS-XLR audio cable (separate purchase). For video shoots using an external monitor-recorder (such as an Atomos Ninja/Shogun), audio can be routed from the shotgun mic receiver directly into the recorder, bypassing the camera entirely and allowing synced, high-quality audio with your footage.



## USB Digital Output

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For example, connecting the receiver to a smartphone or computer using the USB-C locking cable



\* When using Lightning interface devices, please purchase a USB-Lightning adapter/cable that supports the OTG function

# Specifications

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Wireless Band	2.4GHz
Transmitting Power	+10dBm
Receiving Sensitivity	-86dBm
Antenna	Transmitter: Ceramic Antenna                      Receiver: PCB Antenna
Sound Delay	<20ms
Polar Pattern	Super Cardioid
Frequency Response	20Hz~20kHz
Low-cut	75Hz,150Hz
High-frequency Boost	+3dB @10kHz
Output Impedance	50Ω
Sensitivity	-38dB ~ -18dB re 1V/Pa(12mv ~ 125mv @ 94dB SPL) ±2dB @ 1kHz
S/N	75dB SPL(A-weighted,as per IEC651)
Equivalent Noise	19dB SPL(A-weighted,as per IEC651)
Maximum SPL	130dB SPL(@ 1% THD)
Dynamic Range	111dB SPL(A-weighted,as per IEC651)
Analog Output	3.5mm TRRS, TRS
Digital Output	USB-C 48kHz 24bit
Battery	Transmitter:Li-polymer 3.7V 350mAh                      Receiver:Li-polymer 3.7V 330mAh
Battery Life	Wired Mode(3.5mm): 50 hours, Wired Mode (3.5mm-XLR): 8 hours, Wireless Mode: 7 hours
Dimensions	Transmitter:Φ22mm x L210mm                      Receiver:39 x 22 x 55mm
Net Weight	Transmitter:93g                      Receiver:29g
Operating Temperature	0 °C ~ 40 °C
Storage Temperature	0 °C ~ 40 °C

## Warranty & Registration

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Your StudioSonic Shotgun Microphone comes with one year's warranty as standard. To extend the warranty to two years, please register the product at:

**[my.atomos.com](https://my.atomos.com)**

## Support

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If you experience any issues using the StudioSonic Shotgun Microphone, or have any questions please don't hesitate to reach out:

**[atomos.com/support](https://atomos.com/support)**