

LARK MAX 2

User Manual

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Product Overview

SKU

LARK MAX 2 Ultimate Combo



LARK MAX 2 Combo



LARK MAX 2 Combo 4-Person



LARK MAX 2 Solo







1. REC Status Indicator

Indicates whether internal recording is on or off.

2. REC Button

Click to enable or disable Mic independent internal recording.

3. Mic Status Indicator

Displays Mic pairing, noise cancellation, mute, and battery status.

- 4. Power/Noise Cancellation/ Pairing/Mute Button
- Single press to turn on / off noise cancellation.
- Double press to mute on / off.
- Long press for 3s to power on / off.
- While Mic is off, long press for 6s to pair.

5. USB-C Port

- Export internal recording audio files.
- For wired charging.

6. Charging Contacts

Charges Mic when placed into the case.

Button Operation



Indicator Description

Mic Status Indicator

•	Blue light flashing	Mic and RX not connected
•	Blue light flashing quickly	Pairing
•—	Blue light steady	Mic and RX connected
•—	Green light steady	Noise cancellation ON
•—	Red light steady	Mute

REC Status Indicator

•	Red light steady	Internal recording ON
	·	······································

Camera RX: Camera Receiver





1. Control Knob

- Click to enter the menu from the main interface.
- Rotate to adjust the Camera RX output gain from the main interface.
- Rotate to navigate menu and submenu options.

(* No response when clicking the knob in other interfaces.)

2. AMOLED Touchscreen

- Displays Mic and Camera RX status and information.
- Tap to confirm operations.
 <u>(*For details, refer to "Camera RX .")</u>

3. Back Button

Returns to the previous menu.

4. Cold Shoe Mount

Mount to a camera's cold shoe or hot shoe mount.



5. 3.5mm TRS Output Jack

Outputs analog audio or timecode.

6. Power/Pairing/Mute/Lock Button

- Single press to lock or unlock the touchscreen.
- Double-press to enable or disable mute.
- Long press for 6s to enter pairing mode under powered-off state.

7. 3.5mm TRS Headphone Jack

Monitors Camera RX audio.

8. USB-C Port

- Connects to a computer or mobile device for digital audio (24-bit/32-bit float) or timecode output.
- Charges the Camera RX.

9. Charging Contacts

- Charges Camera RX when placed in the case.
- Supports data synchronization.

USB-C RX: USB-C Receiver



1. USB-C Plug

Outputs audio and charges the phone.

2. USB-C Charging Port

Charges the phone via an external power source.

3. Noise Cancellation / Pairing Button

- Single press to enable or disable Mic noise cancellation when connected.
- Long press for 3s to enter pairing mode.
- 4. Status Indicator

Displays Mic pairing and noise cancellation status.

USB-C RX Indicator

•	Blue light flashing	Mic and RX not connected
•	Blue light flashing quickly	Pairing
•—	Blue light steady	Mic and RX connected
•-	Green light steady	Noise cancellation ON

Charging Case





1. Charging Case Indicator

Displays the battery status of the charging case.

2. USB-C Port

Charges the device and supports firmware updates.

OWS Monitor Earphone



1. Indicator

Displays the 2.4 GHz or Bluetooth mode of the earphones.

2. Touch Button

Double-tap to enable monitoring or mute the earphones.

Earphone Indicator

	White light steady	2.4 GHz mode
•—	Blue light steady	Bluetooth mode

Earphone Charging Case



1. Button

When the earphones are in the case with the lid open, triple-press to switch between 2.4 GHz and Bluetooth modes.

2. Auto Pairing

Once the earphones and Camera RX are paired, opening the charging case will automatically reconnect them.

ProductInstallation and Usage

Mic Wearing



Furry Windshield Installation

In outdoor or windy environments, it is recommended to use a furry windshield. Align it with the Mic top clip, press down, and secure it in place.



Accessory Installation

Installation of Magnetic Accessories



Installation of USB-C to 3.5mm Adapter



*Secure the adapter cable inside the Mic back clip to prevent it against being accidentally pulled out.

Wireless Monitoring Device Compatibility

The USB-C RX supports wireless monitoring when connected to mobile phones and action cameras.



The camera RX supports wireless monitoring when connected to mobile phones, cameras, or action cameras.



Wireless Monitoring 1

- 1. Take out the earphones and wear them securely. They will automatically connect to the Camera RX.
- 2. Insert the Camera RX into the hot shoe adapter and secure it on the camera's hot shoe mount.
- 3. Use a 3.5mm cable to connect the camera RX's 3.5mm TRS output jack to the camera's monitoring input.

* Timecode Mode 3 is not available when using hot shoe monitoring.



* Connect to the camera using a hot shoe accessory (sold separately).

Wireless Monitoring 2

- 1. Take out the earphones and wear them securely.
- 2. Mount the Camera RX onto the camera's hot shoe, then connect one 3.5mm cable between the Camera RX's 3.5mm TRS output jack and the camera's audio input port.
- 3. Use the other 3.5mm cable to connect the Camera RX's 3.5mm TRS headphone jack to the camera's monitoring input.
- 4. Select Wireless Monitoring, and the OWS monitor earphones will connect automatically.



* Connect the camera using a cable.

Wireless Monitoring Setup

On the Camera RX, go to "Monitoring \rightarrow Wireless \rightarrow Monitoring Source \rightarrow Camera" to set up camera audio monitoring.



Recommended Settings

Navigate to Recommended Settings \rightarrow Brand \rightarrow Model, and set the camera recording and monitoring volumes according to the recommended IN/OUT values.





*After configuring the Recommended Settings, if the audio level is perceived as too loud or too quiet, adjust the RX output gain accordingly using the control knob.

Use with Phone (USB-C)

When connecting to the USB-C RX, charging for the phone is supported.



Pairing

Auto Pairing (Charging Case)



When the Mic and Camera RX are placed in the charging case, they automatically pair.

*The USB-C RX cannot auto-pair with the Mic.

Manual Pairing (Camera RX)



- 1. When the Mic is powered off, long press the power button for 6 seconds to enter pairing mode.
- 2. When the Camera RX is powered off, long press the power button for 6 seconds to enter pairing mode.
- 3. Pairing is complete when the Camera RX touchscreen displays a successful connection and the Mic indicator light remains solid blue or green.
- *If pairing fails within 60 seconds, the device will automatically exit pairing mode.

Method 2: Pairing via Touchscreen Settings



- 1. Open the Camera RX menu, select "Settings > Pair", and enter pairing mode.
- 2. When the Mic is powered off, long press the power button for 6 seconds to enter pairing mode.
- 3. Pairing is complete when the Camera RX touchscreen displays a successful connection and the Mic indicator light remains solid blue or green.
- *If pairing fails within 60 seconds, the device will automatically exit pairing mode.

Manual Pairing (USB-C RX)



- 1. When the USB-C RX is plugged into the phone, long press the button for 3 seconds to enter pairing mode.
- 2. When the Mic is powered off, long press the power button for 6 seconds to enter pairing mode.
- 3. Pairing is complete when both the USB-C RX and Mic indicator lights remain solid blue or green.
- *If pairing fails within 60 seconds, the device will automatically exit pairing mode.

4 Mic & 1 RX Connection

USB-C RX and camera RX can each pair with up to 4 microphones simultaneously.



* Wireless monitoring is unavailable in 4 Mic & 1 RX mode.

4 Mic & 1 RX Pairing

Camera RX

1. Please upgrade the existing 2 Mic & 1 RX devices first.

2. After upgrading, switch camera RX to 4 Mic & 1 RX mode in Settings and pair with Mic(s). After pairing, it is recommended to upgrade the entire system.

(Mic available for separate purchase for pairing.)



USB-C RX

Switch to 4 Mic & 1 RX mode via the LarkSound app and pair with Mic(s).



Mic

Mic Internal Recording



Single press the REC button to enable/disable standalone recording. The Mic has a built-in 8GB memory, allowing recording for 14 hours at 48kHz/24-bit or 10 hours at 48kHz/32-bit float. Recording files are named based on the Mic's internal clock and can be exported by connecting the Mic to a computer via the USB-C port at the bottom.

When timecode is enabled, each recorded file includes a timecode at both the start and end, ensuring seamless synchronization with camera footage after export.



When the Mic's internal recording storage has less than 30 minutes remaining, the Camera RX will display a warning: "Mic1 available recording time is only 30 minutes." Once the storage is full, the Mic will continue recording by overwriting the oldest files in a rolling recording mode. You can format the memory via the Camera RX or delete recordings by connecting to a computer.

Camera RX: Camera Receiver

First-Time Startup

- 1. Swipe on the Camera RX screen or turn the dial to select a language.
- 2. Tap to confirm the language selection and enter the device time synchronization screen.
- 3. Connect the Camera RX to the app via USB-C cable, and it will automatically sync with the current phone time.
- 4. Proceed to the Camera RX main interface.



Enter Main Interface

Main Interface Icon Guide (2 Mic & 1 RX)



RX Status Bar Overview



Channel Mode

Displays the current channel mode. The default is mono, but it can be switched to stereo or safety track mode.



Noise Cancellation

Indicates whether Mic noise cancellation is enabled or disabled.



Screen Lock

Shows the lock status of the Camera RX.



32-bit Float

Displays when internal recording sample depth is set to 32-bit float. The default 24-bit depth does not show this icon.



Dynamic Gain

Appears when dynamic gain is enabled. If manually adjusting Mic gain, this icon will not be displayed.

RX Battery Level Indicates the remaining battery level of the Camera RX.

Mic Status Bar Overview

Signal Strength



Displays signal strength and ID for each Mic.



Recording Status Shows remaining internal recording time for each Mic.



Mic Battery Level Indicates remaining battery level for each Mic.



Mic Identification Identifies Mic1 and Mic2.



Mic Audio Status Shows recording/mute status for each Mic.





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- 1. When the Mic is connected to the Camera RX, tap the red-framed area on the touchscreen to enter the shortcut menu.
- 2. On the shortcut function interface, icons light up when features are enabled and remain gray when disabled. Use the control knob to switch between Mic1 and Mic2.

Wireless Monitoring Volume Adjustment



When wireless monitoring is enabled, swipe down on the touchscreen to access the shortcut volume adjustment interface.

Main Interface Icon Guide (4 Mic & 1 RX)



Mic Status Bar Overview



Signal Strength Displays signal strength and ID



for each Mic. **Recording Status** Shows remaining internal recording time for each Mic.





Mic Identification Identifies Mic1, Mic2, Mic3 and Mic4.



Mic Audio Status Shows recording/mute status for each Mic.

Camera RX Shortcut Functions (4 Mic & 1 RX)



- 1. When the Mic is connected to the Camera RX, tap the red-framed area on the touchscreen to enter the shortcut menu.
- 2. On the shortcut function interface, icons light up when features are enabled and remain gray when disabled. Use the control knob to switch between Mic1, Mic2, Mic3 and Mic4.

Menu



Press the control knob to enter the menu.















Channel Mode

Mic Settings

Monitoring Recom

Recommended Settings

Timecode

Custom Shortcut Functions





Channel Mode

Mono

The Camera RX outputs the same audio on both the left and right channels.

Stereo

The Camera RX outputs two separate audio tracks, one for each channel.

Safety Track

The Camera RX outputs two audio tracks:

Left channel: Original audio.

Right channel: Audio with -6dB gain to prevent clipping.

(The USB-C port does not support Safety Track mode; only the 3.5mm TRS connection

supports it.)

* When timecode is enabled, Stereo and Safety Track modes are not supported.



Mic Settings



Mic Gain

Dynamic Gain: Automatically adjusts the gain for both Mic units to ensure balanced output and prevent low volume or clipping. Custom Gain: Manually adjusts the gain for Mic1 and Mic2 independently.



Bit Depth

Internal Recording:

• Select Mic internal recording bit depth (default: 32-bit float).

USB Output:

- The Camera RX USB-C audio interface supports 32-bit float or 24-bit bit depths (default: 24-bit).
- 1. 32-bit float is only supported on Apple devices. 24-bit is compatible with all devices.
- 2. When recording in an editing software, set the bit depth to 32-bit float for accurate audio processing.
- 3. When using Apple's native recording app, no manual bit depth setting is required.



Noise Cancellation

Mic noise cancellation depth is infinitely adjustable from 5dB to 25dB (default: 20dB).



EQ

Three modes: Hi-Fi, Low Cut, Vocal Boost (default: Hi-Fi).



Storage

When Mic is connected to Camera RX, the remaining internal recording time for each Mic is displayed separately. Mic memory can be formatted individually via the Camera RX. (* If storage is full, the oldest recordings will be overwritten in rolling recording mode. Be sure to save important data to avoid loss.)



Lock Mic

When Mic is locked, all button operations on Mic are disabled.



Auto Record

When enabled, Mic will start internal recording automatically upon power-on

(default: Off).



Auto Off

If disconnected and not recording, Mic will power off automatically after 15 minutes of inactivity (default: On).



Mic Identification

Differentiate Mic1 and Mic2 by their status indicator lights and the

corresponding color-coded Mic info bar on the display.



Light Control

Adjust the brightness of the Mic status light.



Monitoring



Wired

Use a 3.5mm TRS audio cable to connect the Camera RX monitoring port to your camera.

Wireless

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Monitoring Source Choose Camera RX or Camera as the wireless monitoring audio source.
0-0	Monitoring Status Turn on or mute the OWS monitor earphones.
\	Monitoring Volume Adjust the volume of the OWS monitor earphones. (This does not affect the audio gain recorded by the camera.)
(J,)	Prompt Sound Turn on or off prompt sound for the OWS monitor earphones.
	Earphone Connection The OWS monitor earphones are factory-paired by default (only applies to SKU that includes OWS earphones).



Recommended Settings

Select your camera brand and model, and the Camera RX and OWS monitor earphones will automatically adjust their gain settings accordingly. Camera RX cannot directly control external camera settings. Please manually adjust your camera's recommended recording input level and monitoring volume output based on the recommended settings for your specific camera model.





Set up personalized shortcuts for Camera RX.





Adjust core settings for Camera RX.



Language

Set the interface language for Camera RX.



Reset

Delete all current Camera RX settings, restore factory defaults, and restart the device.



Version

When Mic, OWS earphones, and Camera RX are connected, view the serial number (SN) and firmware versions of Mic, Camera RX, Charging Case and OWS Monitor Earphone.

Battery Status Display

Mic Battery



Non-Charging Status			
•—	Blue light steady	Battery ≥ 6%	
•—	Green light steady	Battery ≥ 6%	
•	Red light flashing slowly	Battery < 6%	
Charging Status			
•—	Green light steady	Battery ≥ 95%	
•	Orange light flashing slowly	Battery < 94%	

Low Battery Warning

When the Camera RX or Mic has a low battery, a low battery warning will appear on the main interface for the corresponding device.



Charging Case Battery



Non-Charging Status

•-	Green light steady	Battery ≥ 98%
(O_)	White light steady	6% < Battery < 98%
•—	Red light steady	3%≤Battery ≤ 6%
•	Red light flashing slowly	Battery < 3%

Charging Status

•—	Green light steady	Battery ≥ 99%
•	Orange light flashing slowly	Battery < 98%

OWS Monitor Earphone Battery



Non-Charging Status

•—	Green light steady for 10s	Battery ≥ 98%
•—	Orange light steady for 10s	6% < Battery < 98%
•-	Red light steady for 10s	Battery ≤ 10%

Charging Status

•-	Green light steady	Battery ≥ 99%
•	Orange light flashing slowly	Battery < 98%

OWS Monitor Earphone Battery

•-	Green light steady for 10s	Battery > 90%
•—	Orange light steady for 10s	10% < Battery ≤ 90%
•—	Red light steady for 10s	Battery ≤ 10%

Earphone Charging Case Battery



Non-Charging Status

•—	Green light steady for 10s	Battery ≥ 91%
•—	Orange light steady for 10s	11% < Battery < 90%
•—	Red light steady for 10s	5% < Battery < 10%
•	Red light flashing slowly for 10s	Battery ≤ 5%

Charging Status

•-	Green light steady	Battery ≥ 90%
•	Orange light flashing slowly	Battery < 90%

Firmware Upgrade

OWS Monitor Earphone Upgrade

- 1. Place the earphones inside the charging case and open the case.
- 2. Triple-press the button on the charging case until the earphone status light flashes blue, indicating Bluetooth pairing mode.
- 3. Connect to the LarkSound app and upgrade the firmware.



Charging Case Upgrade

- 1. Place all devices into the charging case and long press the Camera RX control knob to activate Bluetooth mode.
- 2. Turn on Bluetooth on your phone and pair with the LarkSound app.
- 3. Once paired, proceed with the firmware upgrade via the app.
- 4. After a successful upgrade, the devices will restart automatically.
- 5. Do not remove the devices from the charging case during the upgrade process.



Camera RX Upgrade

- 1. Connect Camera RX to your phone using a USB-C to USB-C cable or USB-C to Lightning cable.
- 2. Open the LarkSound and proceed with the firmware upgrade for Camera RX and Mic.
- 3. Once the upgrade is complete, the devices will restart automatically.



* If the firmware upgrade fails, the Camera RX will display a notification screen, and the device will restart automatically. After rebooting, please turn it on and retry the upgrade.



Upgrade failed

If the firmware upgrade fails, a notification screen will appear. After tapping the touchscreen or pressing the return button, the device will automatically restart and return to the main interface.

USB-C RX Upgrade

When USB-C RX is connected to Mic, you can upgrade the firmware via the LarkSound app.



Mic Upgrade Status



Mic Upgrade Status

•	Pink light steady	Mic waiting for upgrade
•	Pink light flashing slowly	Mic upgrading

- Specifications -

Mic Sensitivity	-37 dBV ± 2 dBV@1 kHz, 94dB SPL
Wireless Modulation Mode	GFSK 2 Mbps
Wireless Transmission	2.4 GHz Adaptive Frequency Hopping (AFH)
Transmission Range	Mic: 1115ft (340m) for LOS / 197ft (60m) for NLOS OWS Monitor Earphone: 328ft (100m) for LOS / 197ft (60m) for NLOS
Mic Polar Pattern	Omnidirectional
Frequency Response	20 Hz – 20 kHz
Signal-to-Noise Ratio	≥ 72dB
Max Sound Pressure Level	128dB SPL
Sample Rate and Bit Depth	48 kHz / 32-bit Float & 48 kHz / 24-bit
Battery Voltage	Mic: 3.87V Camera RX: 3.87V Charging Case: 3.8V OWS Monitor Earphone: 3.7V Earphone Charging Case: 3.7V
Battery Capacity	Mic: 167 mAh Camera RX: 300 mAh Charging Case: 2000 mAh OWS Monitor Earphone: 90 mAh Earphone Charging Case: 500 mAh
Operating Time	Mic: Approx. 11 hours Camera RX: Approx. 12 hours OWS Monitor Earphone: Approx. 18 hours
Charging Cycle	Charging Case: > 2.5 times charging for 2 Mic and Camera RX at the same time Earphone Charging Case: > 1.8 times charging for 2 OWS Monitor Earphone at the same time
Charging Time	Mic: Approx. 1.5 hours Camera RX: Approx. 1.5 hours Charging Case: Approx. 2 hours OWS Monitor Earphone: Approx. 1.6 hours
Charging Temperature	0~45°C
Operating Temperature	−10~55℃

Dimensions	Mic: Approx. 23.4*10.2*45.1mm (0.92" × 0.40" × 1.78") Camera RX: Approx. 54.2*22.3*29.5mm (2.13" × 0.88" × 1.16") USB-C RX: Approx. 40.7*9.1*27mm (1.60" × 0.36" × 1.06")
Weight	Mic: Approx. 14g (0.51oz) Camera RX: Approx. 24g (0.85oz) Charging Case: Approx. 136g (4.8oz) USB-C RX: Approx. 5.9g (0.21oz)

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AppInformation

LarkSound

The LarkSound app is available for download on Xiaomi, Huawei, and Apple App Stores. You can also scan the QR code below to download the app.

The LarkSound app is a perfect match for Hollyland wireless microphones. With the app, you'll have access to a range of smart features, such as parameter configurations and firmware updates, that work together seamlessly to enhance your microphone performance.

^{Made for} **€** iPhone | iPad

Requires iOS 12.0 or above

Hollyland Support Team via the following ways:

Hollyland User Group

HollylandTech

HollylandTech

Support

Requires Android 8.0 or above

If you encounter any problems in using the product or need any help, please contact



support@hollyland.com



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