



# TERADEK TE101857 Spark 4K Zero-Delay Wireless Transmitter and Receiver User Guide

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# TERADEK TE101857 Spark 4K Zero-Delay Wireless Transmitter and Receiver



## PHYSICAL PROPERTIES

Spark 4K TX - Front



Spark 4K RX - Front



- A: OLED display
- B: HDMI input/output
- C: 6-18V DC power input
- D: Type-C USB port
- E: Bluetooth button
- F: On/Off switch

## 4K ZERO-DELAY WIRELESS SYSTEM

Spark 4K is Teradek's latest consumer-level wireless video system that is capable of transmitting untethered local 4K HDR video at a range of up to 500 feet line-of-sight over the unlicensed 5GHz band. Spark 4K can multicast to up to two Spark 4K receivers simultaneously, has portable power, internal antennas, and a compact design making it truly wireless.

## WHAT'S INCLUDED

- 1x Spark 4K Transmitter/Receiver
- 1x Lightstand Adapter 1/4"-20 (RX)
- 1x Hot Shoe Adapter (TX)
- 1x PSU 30W USB-C Power Adapter (TX)
- 1x PSU 18W AC Adapter 12V DC (Int) – 6ft Cable (RX)
- 1x Ultra-Thin HDMI Male Type A (Full) – HDMI

## POWER AND CONNECT

- Connect the output from your video source to the HDMI input on the transmitter. Connect the HDMI output from the Spark 4K receiver to the video input on your monitor.
- Connect power to both the Spark 4K transmitter (USB-C) and receiver (USB-C/DC adapter), then move the power switches on both the transmitter and receiver to the ON ( I ) position. The video appears within a few seconds.

**NOTE:** Spark 4K transmitters can draw power from the internal battery (if charged), or by using either the included USB-C PD adapter or another USB-C PD source. When the power source is disconnected, and if the transmitter's internal battery has a charge, a solid battery icon will display on the front panel. If the battery is depleted, the battery icon will be empty. Spark 4K receivers can use either the included DC adapter or a USB-C PD source.

## CUSTOM/THIRD PARTY POWER CABLES

- Test the power cable polarity with ONLY the power cable connected to Spark 4K. Do not connect video cables.
- Check the power cable for shorts and proper grounding.

## LAUNCHPAD APP

Use the Launchpad App to pair your Spark 4K devices, upgrade the Bluetooth firmware (iOS only), and monitor every parameter of Spark 4K.

## CONNECT VIA BLUETOOTH

- Download Launchpad from the App Store.
- Press the Bluetooth button (E) on the back of both the transmitter and receiver. The transmitter's OLED will indicate if Bluetooth is enabled.
- Open Launchpad from your iOS device, then taps the Status/Configuration or Pairing button.
- Select the device(s) you want to pair and/or monitor.

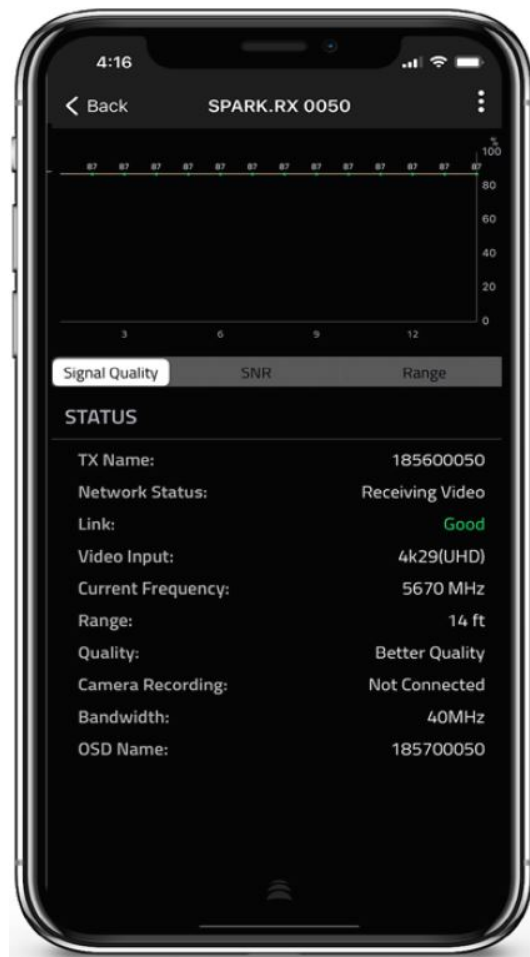
## TRANSMITTER STATUS DISPLAY

- **Settings** – Tap the button at the top of the display to monitor and/or customize the transmitter's settings, perform a Bluetooth (BLE) firmware upgrade, or register your Spark 4K.
- **Status**– Displays the current Input resolution, Network status, Connected Receivers, Current Frequency, Quality, Camera Recording, Region, Bandwidth, OSD Name.



## RECEIVER STATUS DISPLAY

- **Settings** – Tap the button at the top of the display to monitor and/or customize the transmitter's settings, perform a firmware upgrade, or to register your Spark 4K.
- **Signal Quality** – Determine the quality and reliability of the signal being received.
- **SNR** (Signal to Noise Ratio) – Compare the signal power level to the noise power level from the attached antennas.
- **Range** (Quality/Range Analyzer) – Displays the transmission distance between the transmitter and receiver.
- **Status** – Displays the paired TX name, Network Status, Link status, Video Input, Current Frequency, Range, Quality, Camera Recording, Bandwidth, and OSD Name.



## LAUNCHPAD DESKTOP APP

To update your device's main firmware, you must use the Launchpad desktop app. Download the Launchpad desktop app for Mac or Windows at [teradek.com/pages/downloads](https://teradek.com/pages/downloads).

## PAIRING

Spark 4K sets (TX and RX), are paired by default, requiring no additional configuration. Spark 4K devices purchased separately need to be paired using Launchpad, or the Launchpad App.

**NOTE:** Before starting any pairing process, ensure that both the transmitter and receiver have the same firmware version and have Bluetooth enabled.

## PAIRING VIA LAUNCHPAD (DESKTOP)

- Connect both the transmitter and receiver(s) to your computer (Windows/Mac) via USB.
- Open Launchpad, click the Pairing tab, then tap the Wired Pairing button.
- Select the devices you want to pair, then click the Pair Devices button. Launchpad will indicate whether or not Pairing is successful.

## MOUNTING

Spark 4K devices have a 1/4"-20 threaded hole and two M3 threaded holes on the bottom for mounting the included light stand adapter or any other mounting accessory.


- Mount the transmitter onto your camera using the included hot shoe mount adapter, keeping the chassis and fan vents clear of any obstructions.
- For best results, orient the transmitter so it has a clear line of sight to the receiver.

**CAUTION:** DO NOT OVERTIGHTEN SCREWS INSERTED INTO THE 1/4"-20 OR M3 THREADED HOLES.





## Documents / Resources

	<p><a href="#">TERADEK TE101857 Spark 4K Zero-Delay Wireless Transmitter and Receiver</a> [pdf] User Guide</p> <p>Spark 4K Zero-Delay Wireless Transmitter and Receiver, TE101857, Spark 4K, Zero-Delay Wireless Transmitter and Receiver</p>
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