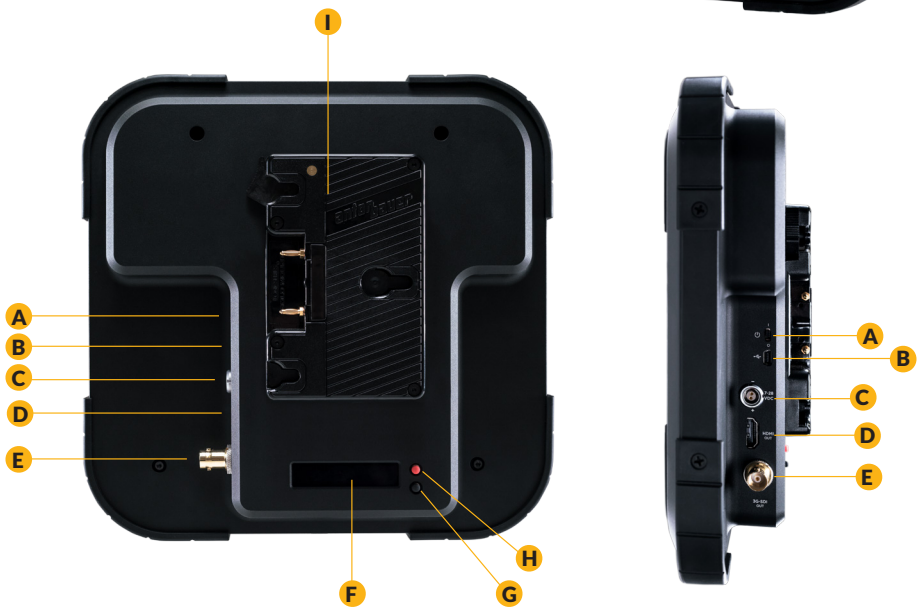
BOLT 10K

ULTRA LONG-RANGE WIRELESS HD VIDEO

Bolt 10K is an ultra long-range wireless receiver for the most demanding cinema, broadcast, and UAV applications. Bolt 10K receivers support 1080p60 4:2:2 video at up to 10,000 ft line-of-sight from a Bolt 3000 transmitter.



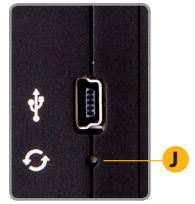
A: On/Off switch
B: Mini USB port
C: 6-28V DC input
D: HDMI output
E: 3G-SDI output
F: OLED display
G: Status joystick
H: Menu joystick
I: Battery plate

CONNECT AND POWER

1. Connect the output from your video source to the SDI/HDMI input on the Bolt 3000 transmitter. Connect the SDI/HDMI output from the Bolt 10K receiver (E, D) to the video input on your monitor.
2. Connect power to the Bolt transmitter. Power the Bolt receiver with the included A/C adapter or optional battery plate accessory. If using a battery plate, connect a compatible (AB Gold mount or V-Lock) battery.
3. Move the power switches on both the transmitter and receiver (A) to the **ON** position.

PAIRING INSTRUCTIONS

1. After powering the transmitter and receiver, connect a monitor to the video output.
2. Using the **Menu joystick** (H) on the receiver, select "**Pairing.**"
3. Confirm that "**Please activate pairing on TX**" is displayed on Bolt 10000 receiver's output.
4. On the transmitter, use a **paper clip (or similar)** to press the **Reset/Pair Mode button** (J). After a few seconds, the receiver should display **Pairing: BP00XXXX**. If not, power cycle the receiver and the transmitter, then try again.



Bolt 3000 TX

5. Using the **Menu joystick** on the receiver, select "**OK**" to finish pairing. This process takes up to a minute. If pairing fails, power cycle the receiver and the transmitter and try again.

DEVICE OPERATION

GENERAL

- Keep the transmitter and receiver at close range for 60 seconds after powering on the devices. This allows them to scan for and select the best wireless channel.
- For best results when using multiple Bolt systems in the same area, place the transmitters and receivers a few feet apart from each other.
- Operation of other wireless equipment may interfere with the Bolt. For best results, separate other wireless transmitters and receivers as much as possible.

MOUNTING

- Bolt 10000 has a 3/8 in threaded hole on the bottom for mounting the included light stand adapter or any 3/8 in mounting accessory.
- Mount the receiver vertically, keeping the antennas clear of any obstructions.
- Orient the transmitter and receiver so they are parallel to each other.
- For best results, orient the receiver so the front has clear line-of-sight to the transmitter.

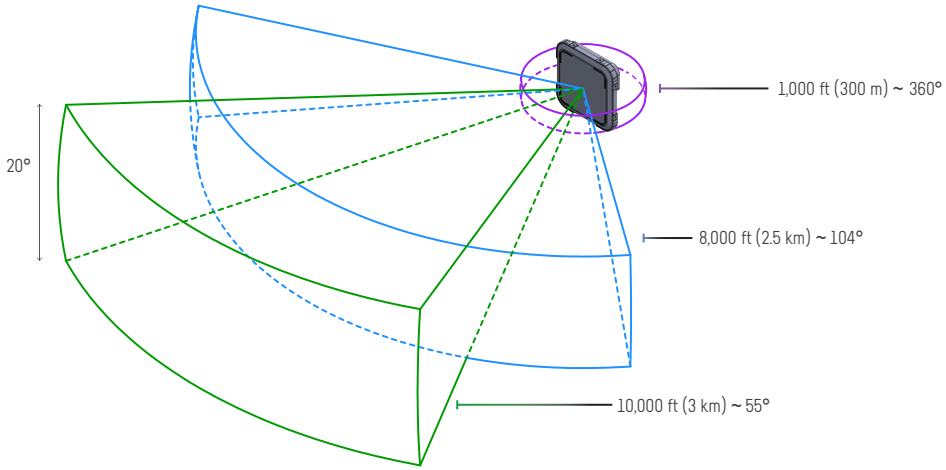
Teradek regularly releases new firmware versions to improve performance, add new features, or to fix vulnerabilities. Visit https://www.teradek.com to update your device with the latest firmware.

NEED MORE HELP?
Support: http://support.teradek.com → Contains tips, information and all the latest firmware & software updates.
TERADEK SUPPORT STAFF: support@teradek.com or call 888-941-2111 ext2 (Mon-Fri 7am to 6pm PST)

DEVICE OPERATION (CONT.)

ANTENNA RECEIVE PATTERN

Bolt 10000 has a built-in directional antenna with a receive pattern that varies based on its distance to the transmitter. The horizontal receive angle measures 55° at 10,000 ft (3.1 km), 104° at 8,000 ft (2.5 km), and is effectively omnidirectional at up to 1,000 ft (305 m). The vertical receive angle measures 20° at any distance.



ON SCREEN DISPLAY OPERATION

Status Screens - Activate the status OSD by depressing the Menu joystick, and cycle through screens by pressing these buttons up or down. Hide the status screen by pressing left.

- **Main Status Screen** - This screen displays the status of the wireless receiver, along with the current video resolution, frequency, link quality (if connected).
- **Time Code Screen** - Displays the current time code if received from the transmitter.
- **Temperature Status Screen** - Displays the current internal temperature of the unit.
- **TX Info** - Displays the name of the transmitter.

Menu Operation - Launch the menu by pressing right while the OSD is active. Exit from the menu by pressing left.

- **HDMI/SDI Out Format** - Select the video output format. You can choose to match the video source resolution by selecting "Same as Input,' or choose from the resolutions listed.
- **USB Output Format** - Use this to reset all configurable options to their factory defaults.
- **3D LUT Settings** - Select and apply a specific look.
- **Spectrum Analyzer** - Select which frequencies to use.
- **Channel Selection** - Select a wireless channel.
- **Test pattern** - Select a video output format from this menu to output a test pattern over HDMI and SDI. Return to the previous video by pressing left on the Menu joystick.
- **Pairing** - Select "Pairing" to link your receiver with another transmitter. Once pairing is activated on the receiver, turn on the transmitter and use a paper clip to hold the reset button (between the DC input and power switch) for 1 second and release. The red warning LED and link LEDs will blink to indicate that pairing is active.
- **OSD Settings** - Choose when to display the OSD. By default, the OSD is displayed when the link is down. "Hidden by default" hides the OSD until it is activated by the joystick. If "Always show OSD" is selected, the OSD will be displayed unless deactivated by the joystick.
- **Display Settings** - Use these options to control the OLED display operation. You can set the display to invert every 30 minutes (lengthens the display life), or it can dim or turn off after 10 seconds or 10 minutes.
- **Reset All Settings** - Use this to reset all configurable options to their factory defaults.
- **Device Info** - Displays the model and serial number.

BOLT MANAGER SOFTWARE

Bolt Manager allows you to configure and upgrade any Bolt devices. It is available at **www.teradek.com/pages/downloads**. The following configuration is available:

- Region Selection - Configure Bolt to comply with your region's regulations governing use of the 5GHz spectrum.

POWER CONNECTOR / PIN-OUT

Bolt uses a 2-pin connector.

Pin	Description
1*	GND
2	+DC

* Pin 1 is closest to the red dot on the connector

CUSTOM / 3RD PARTY CABLES

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

CAUTION: Using a reverse polarity or improperly-constructed power cable can damage the product and is not covered under warranty.