

BOSEMANAGER

Version 3.0.5 Software Manual

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Introduction

Available at <u>www.teradek.com/pages/downloads</u>, Bolt Manager allows you to configure and upgrade your Bolt Pro 300, 600, and 2000. When installed and opened, you are presented with 4 options:

- Settings: This section allows you to configure device operation parameters.
- Upgrade: Use this section to update your device with the latest firmware from Teradek.
- Status: Displays detailed information about configuration and update statuses.
- About: Contains information about the Application version and Teradek's software License Agreement.



Figure 1 - Bolt Manager home screen

Bolt Device Information

The top left portion of Bolt Manager displays information about the connected device. Bolt Pro 300, 600, and 2000 connect to your computer via a standard Mini-B USB cable (not included). **Note:** The USB 3.0 port on Bolt receivers is used for video only, not cofiguration.

Bolt's USB configuration port is located on the left side of both the transmitter and receiver. It can be found just above the HDMI port, or the port cover on SDI-only models.



Figure 2 Bolt USB ports

Once Bolt is connected and powered on, the Model description, serial number, and 'Connected' status will be shown in the top left portion of Bolt Manager. You can now configure or upgrade Bolt.

olt Device Info	Bolt Device Info
Model:not connected Serial Number:not connected USB Connection Status:not connected	Model: Bolt 600 HDMI/SDI RX Serial Number: 96200004 USB Connection Status: Connected
Figure 3 Device not connected	Figure 4 Device Connected

Device Configuration

Depending on the connected Bolt model – 300, 600, or 2000 – there are up to three different configurable options.

Region Selection (All models)

Configure Bolt Pro to comply with your region's regulations governing use of the 5GHz spectrum. Three regions are available: USA, Europe, and Japan. Each region is configurable for either indoor or outdoor use. Transmitter and receiver must be configured with the same region.

ict Region:
USA
* Regulatory Agencies have different regulations governing the use of wrieless devices in the 5GHz range. Please consult the regulations for indoor/outdoor use in your region. You are cautioned that any change or modifications to the equipment could void your authority to operate equipment in your region.



Frequency Selection (Bolt Pro 600 and 2000 only)

Use this to select which frequencies Bolt Pro will use during operation. For best results, configure the transmitter and receiver to use the same set of channels.

5190 MHz 5230 MHz 5270 MHz (DES)	 ✓
5230 MHz (DES)	✓
5270 MHz (DES)	
SET O MILLE (DI O)	
5310 MHz (DFS)	
5510 MHz (DFS)	
5550 MHz (DFS)	
5670 MHz (DFS)	
5755 MHz	
5795 MHz	
 Select the same frequencies on TX and DFS channels will be scanned for 1 mir used for transmission. 	d RX for best performance. nute before they are

Figure 6 Frequency Selection

Transmission Mode (Bolt Pro 2000 only)

Bolt Pro 2000 has two selectable transmission modes tailored for different applications, Use the transmission mode selection to choose between them. **Note:** transmitter and receiver(s) must have the same transmission mode configuration.



Figure 7 Transmission Mode Selection

Unicast Mode (Default)

- Bolt 2000 transmitter communicates with one Bolt 2000 receiver. While connected, both devices automatically change frequency based on their environment.
- Bolt will use typically less-crowded DFS channels as well as non-DFS channels in this mode.
- While in unicast mode, if one device is powered down, the other must also be powered down before video transmission can be re-established.

Broadcast Mode

- Bolt 2000 transmitter communicates with up to four Bolt 2000 receiver devices
- The transmitter selects a frequency when powered up. Receivers then scan available frequencies until finding their paired transmitter
- There is no two-way communication in this mode, so devices can be powered up or down without affecting others.
- DFS channels cannot be used in Broadcast mode.

Firmware Upgrade

Teradek releases firmware updates periodically. These updates add new features, improve performance, and remedy issues discovered while testing.

	Model: Bolt 600 HDMI/SDI RX		
	Serial Number: 96200004		
05	B Connection Status: Connected		
	Settings Upgrad	ie Status About	
	- Upgrade Step 1 : Loa	d Firmware Upgrade File	-
	Load from Web	Load from PC	
	Loaded Firmwa	re Upgrade File Info	
	Vers	sion 1.0.2	
	Release Note:	(supports	current device)
	Package Version:1.0.2		
Release Date: 07/22/14			
	Description:		
	 Added support for additional HDMI output to Added HDMI audio output support 	rmats NTSC/PAL, 480p, 576p,	1080p50/59/60
	 Added option to disable OSD (displays blac HD-SD) color transmission was incorrect 	k screen) when no video is receive	ed from the TX
	Advanced Options		
	(Click Next button for Lingrade Step 2 -	Firmware Ungrade Options)	Next >>
	Construction of Opgrade Step 2 -	(initial opgitude options)	
			Close

Figure 8 Firmware Upgrade Step 1

To update your Bolt Pro, you'll first need to load a firmware package into Bolt Manager. This can be done two ways:

• Load from Web: If you have an active Internet connection, Click 'Load from Web' to download the latest firmware package from Teradek's servers.

• Load from PC: Click load from PC if you have already downloaded the firmware package you wish to use. You will be prompted to browse for and select the package. Firmware is hosted on the download page of Teradek's web site: http://www.teradek.com/pages/downloads#Bolt

Once the firmware is loaded, information about the package, including version number, release notes, and the release date is displayed. In

addition, a note will indicate whether or not your device is supported.

After loading the firmware, click Next to proceed. You will be presented with a list of the device

components and whether or not they are scheduled to be updated.

From this screen, click 'Start Upgrade' to update your unit. Alternately, you can click 'Advanced Options' to view detailed version information for each component and the firmware upgrade package components. The Advanced screen also allows users to select which components to upgrade. **Note**: not all component firmware versions are interoperable, Teradek recommends following the default update procedure unless otherwise instructed.

Note: Do not disconnect your device or power it down while the update is in process.

olt Device Info	
Model: Bolt 600 HDMI/SDI RX	
Serial Number: 96200004	
USB Connection Status: Connected	
Settings Upgrad	e Status About
- Upgrade Step 2 : Firi	mware Upgrade Options -
Bolt Fir	mware Info
Controllor	Up to data
- Video Processor:	Un-to-date
- USB Driver:	Scheduled for update
- Radio 1:	Un-to-date
- Radio 2:	Up-to-date
There are Bolt Components	that are scheduled for updates
A Firmware Upgra	ade is recommended.
Advanced Options	Start Upgradel
Click Back (Click Back button to load)	d a different Firmware Upgrade File)
	Close

Figure 9 Firmware Upgrade Step 2