SOFTWARE UPDATE

Product: Best Boy® (HP and 4000) Spot Luminaire
Manufacturer: PRG
Subject: Software Update to v3.03
Bulletin No: BST-025
Date: July 10, 2018
Contact: Best Boy Service <bestboyservice@prg.com>

INTRODUCTION

Best Boy (HP and 4000) Spot Luminaire Software Update to v3.03

Best Boy luminaire software for both HP and 4000 models has been upgraded to v3.03 from v3.02.
Changes from v3.02 to v3.03 are indicated below, as well as a refresh of v3.02 from the previous version for reference.

FUNCTIONALITY UPDATES

CURRENT RELEASE: Best Boy (HP and 4000) v3.03 Software

+ allows user to switch between P/T lock/free while FSC is enabled
+ fixes break & MAB timing to make RDM communication more robust
+ fixes persistent data inequality errors that were causing lockups; this may cause the persistent settings to change, please check your luminaire settings after software load
+ implements "clear pan/tilt free/lock" command in the Control channel, which returns pan and tilt to its normal operating condition regardless of its former state
+ adds extra validation to control channel commands to ensure DMX glitches are not mistakenly interpreted as commands

PREVIOUS RELEASE: Best Boy (HP and 4000) v3.02 -- More information in Tech Bulletin BST-024

Previous software version, Best Boy v3.02, included the following improvements:

+ *turned off the Comm LED after 15 minutes of no activity*
+ *ensured DMX buffer did not overrun its bounds due to extra bytes or missing breaks*
+ *smoothed out bottom end of intensity curve at 1200W and 1400W lamp power settings*
+ *defaulted the Color Temperature Wheel (CTW) to Open (equivalent of DMX value 50) instead of the equivalent of DMX value 0 in the absence of DMX.*

CONTROL CHANNEL TABLE

Version 3.03 of the Best Boy luminaire software for both HP and 4000 models adds the clear pan/tilt free/lock command, which returns pan and tilt to its normal operating condition regardless of its former state. Below is a list of the commands in the **Control** channel, **Channel 36**.

Chan	*Function*	*Description of Control Function*	*8-bit Value*	*16-bit Value*	*DMX %*
36	CONTROL	Control Channels	home: 0		0%
	All values must be held for a minimum of 3 seconds to take effect.	Idle	0		0%
		Reserved -- No Function	1		0%
		Recalibrate: All	10		3%
		Recalibrate: Erred Mechanisms	11		4%
		Recalibrate: Zoom/Edge and Effects	12		4%
		Recalibrate: Color	14		5%
		Recalibrate: Gobos	16		6%
		Recalibrate: Framing Blades and Rotate	17		6%
		Recalibrate: Dimmer/Strobe/Iris	18		7%
		Recalibrate: Pan/Tilt	19		7%
		Lamp: Douse	20		7%
		Lamp: Start	30		11%
		Lamp Power Limit Select: High (Default)	40		15%
		Lamp Power Limit Select: Medium	45		17%
		Lamp Power Limit Select: Low	50		19%
		Zoom Table Select: 15´ Throw	56		22%
		Zoom Table Select: 25´ Throw	58		22%
		Zoom Table Select: 30´ Throw (default)	60		23%
		Zoom Table Select: 42´ Throw	62		24%
		Zoom Table Select: 58´ Throw	64		25%
		Zoom Table Select: 80´ Throw	66		25%
		Zoom Table Select: 112´ Throw	68		27%
		Zoom Table Select: 155´ Throw	70		27%
		Zoom Table Select: 215´ Throw	72		28%
		Zoom Table Select: 300´ Throw	74		29%
		Zoom Speed Select: Maintain Focus (default)	75		29%
		Zoom Speed Select: Move Fast	77		30%
		Gobo: Set Zero Position	80		31%
		Display: Turn Backlight ON	90		35%
		Display: Turn Backlight OFF	95		37%
	NEW IN V3.03	Clear Pan/Tilt Lock/Free	98		38%
		Pan: Lock	100		39%
		Pan: Unlock	102		40%
		Tilt: Lock	104		40%

Chan	Function	Description of Control Function	8-bit Value	16-bit Value	DMX %
		Tilt: Unlock	106		41%
		Pan/Tilt: Free Motion	108		42%
		Pan/Tilt: Free Lock	110		43%
		Pan/Tilt: End Free Motion	112		43%
		No Fade Out	114		44%
		Fade Out After 30s	116		45%
		Fade Out After 60s	118		46%
		Clear Logs	120		47%
		Invert Pan	122		47%
		Don't Invert Pan	124		48%
		Invert Tilt	126		49%
		Don't Invert Tilt	128		50%
		Swap Pan/Tilt	130		51%
		Don’t Swap Pan/Tilt	132		51%
		Followspot: Intensity/Iris	134		52%
		Followspot: Intensity/Iris/Edge	135		52%
		Followspot: Intensity/Iris/Edge/Zoom	136		53%
		Followspot: Intensity/Iris/Zoom	137		53%
		End Followspot Mode	138		54%
		Followspot: Intensity	139		54%
		Followspot: Intensity/Edge	140		54%
		Followspot: Intensity/Edge/Zoom	141		55%
		Followspot: Intensity/Zoom	142		55%
		Followspot: Iris	143		56%
		Followspot: Iris/Edge	144		56%
		Followspot: Iris/Zoom	145		56%
		Followspot: Iris/Edge/Zoom	146		57%
		Followspot: Edge	147		57%
		Followspot: Edge/Zoom	148		58%
		Followspot: Zoom	149		58%
		Followspot: Turn Intensity Scaling ON	150		58%
		Followspot: Turn Intensity Scaling OFF	152		59%
		FSC: Enable Frost Control	154		60%
		FSC: Disable Frost Control	156		61%

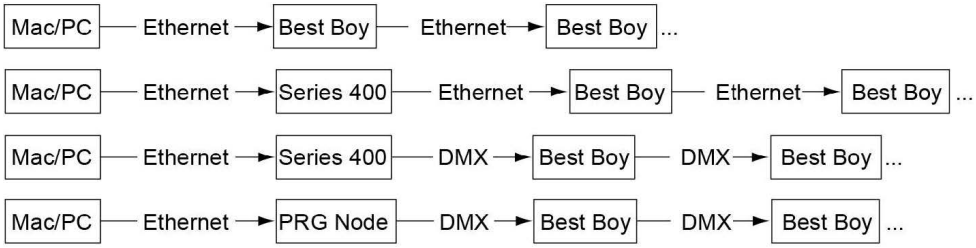
UPDATING SOFTWARE

Software Update Using LumLoader Application

Introduction

The LumLoader application allows you to update the software in a Best Boy (HP and 4000) Luminaire. The update will be sent over an Ethernet connection. The luminaire can take the Ethernet input directly, or the update can be translated to DMX512 signal with an appropriate device, either Series 400® or a PRG Node. The fixtures can be daisy-chained to load multiple fixtures at once.

Supported configurations:



Note: There should be no active control (DMX512 or Ethernet) during the update process.

Preparation - Java

The loader (LumLoader) is a Java application which can be run on a Mac or a PC computer.

Note: For Microsoft Windows® users: Windows does not come with the required Java run-time library installed, so you may need to go to the Sun website (java.com/getjava/) to download Java.

Selecting an Ethernet Interface

Connect the computer to the system, and start the LumLoader application. When the application starts, it will ask which active Ethernet port should be used. Select the appropriate port. You may be able to differentiate the ports by IP address, compared with your network setup. Typically the en0 is the first built-in Ethernet port, and other interfaces could include additional network ports or wireless adapters.

Selecting the Module

The loader can support multiple versions of software, so make sure the appropriate version is selected. The default version will typically be fine.

Download the Software

Press "Start Download" to initiate the update. You should see the luminaires immediately drop into the startup screen and erase flash, which takes about 30 seconds. Then the new module is sent out, the screen indicates "Loading", and when complete they will go back to the main menu and start calibration.

If the fixture already has the update software version, it will not complete the update.

Troubleshooting

+ If the LumLoader application does not start up, make sure the Java library is installed.
+ Make sure the network port is active before starting the application. Sometimes it takes several seconds for the operating system to recognize the network link.
+ Make sure there is only one instance of the LumLoader application running.
+ Wireless should be disabled on the computer.
+ The computer IP address must be set to 10.66.x.x with a subnet mask of 255.255.0.0.

Software Crossload

The Information menu provides a method for sending a luminaire's current software version to all connected luminaires. (Luminaires can be daisy-chained via DMX512 or Ethernet.)

To initiate the software crossload, press "Crossload Software" at the Information screen. At confirmation screen, press "Yes." If a connected luminaire already has that software version, it will do nothing. If it does not have the same version, it will go into the boot screen and start updating. There should be no active control (DMX512 or Ethernet) during the update process.