SOFTWARE UPDATE

Product: Bad Boy® Spot Luminaire (HP and Standard)
Manufacturer: PRG
Subject: Software Update to v3.02
Bulletin No: BAD-022
Date: July 10, 2018
Contact: Bad Boy Service <badboyservice@prg.com>

INTRODUCTION

Bad Boy® Spot Luminaires (HP and Standard) Software Update to v3.02

Bad Boy spot luminaire software has been upgraded to v3.02 from **v3.01**.
Changes from v3.01 to v3.02 are indicated below, as well as a refresh of v3.01 from the previous version for reference.

FUNCTIONALITY UPDATES

CURRENT RELEASE: Bad Boy (HP and Standard) v3.02 Software

+ 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, 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: Bad Boy (HP and Standard) v3.01 Software -- more information in Tech Bulletin BAD-021

Previous software version, Bad Boy v3.01, included the following improvements:

+ *Operator P/T Lock Toggle Window added for FSC operation*
+ *Adds lead screw warm-up routine if fixture is under 10°C*
+ *Implements Comm LED timeout after 15 minutes if data present and no fixture errors*
+ *If a strike command is received prior to fan start, strike will occur automatically once fans are ready*
+ *Implements table-driven fan control in HP units for color stabilization*
+ *Uses correct lamp hours limit for HP (now the same limit as non-HP, 750 hours)*
+ *Does not interpret module download as incoming DMX*
+ *Ensures DMX buffer does not overrun its bound due to extra bytes or missing break*
+ *Adds additional information to RDM error messages*
+ *Increased precision of RDM message timing to make RDM comm more robust*
+ *Implements LumLoader v2.0 for more flexible loading options*

CONTROL CHANNEL TABLE

Version 3.02 of the Bad Boy software 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 42**.

Chan	*Function*	*Description of Control Function*	*8-bit Value*	*16-bit Value*	*DMX %*
42	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	12		4%
		Recalibrate: Color	14		5%
		Recalibrate: Gobos	16		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%
		Lamp: Override Start-up Power Limit	55		21%
		Zoom Table Select: 30´ Throw (default)	60		23%
		Zoom Table Select: 50´ Throw	62		24%
		Zoom Table Select: 75´ Throw	64		25%
		Zoom Table Select: 100´ Throw	66		25%
		Zoom Table Select: 300´ Throw	68		26%
		Zoom Table Select:15´ Throw	70		27%
		Zoom Table Select: Narrow Throw	72		28%
		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%
		Tilt: Unlock	106		41%
		Pan/Tilt: Free Motion	108		42%
		Pan/Tilt: Free Lock	110		43%

Chan	Function	Description of Control Function	8-bit Value	16-bit Value	DMX %
		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%

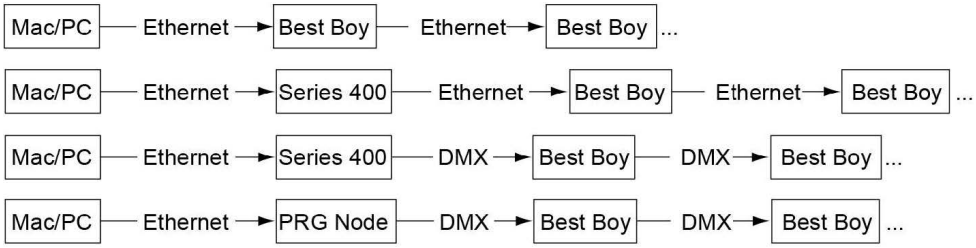
UPDATING SOFTWARE

Software Update Using LumLoader Application

Introduction

The LumLoader application allows you to update the software in Bad Boy® (HP and Standard) Spot Luminaires. 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.