Supplemental User Guide

Supplemental Guide forUpdating Firmware on Z-MAX™ Lighting Control Relay Panels with Master Control Module

Software revision 1.00 an up
Updating Firmware

On occasion, it may be necessary to update the Z-MAX’s operating system. This can be accomplished via a PC running a terminal program connected to the controller board inside the cabinet via USB.

New operating system files can be found on Leviton’s web site under product Information and then Lighting Controls.

A USB driver for the Z-MAX cabinet can be found on Leviton’s web site.

Any terminal program, such as Window’s Hyper Terminal, should work, however we recommend a freeware program called Tera Term, [http://hp.vector.co.jp/authors/VA002416/teraterm.html](http://hp.vector.co.jp/authors/VA002416/teraterm.html), because of its superior efficiency.

The Tera Term install file can also be found on Leviton’s web site.
The terminal programs settings are as follows:

- COM Port - set to port number of the USB port.
- Baud Rate - 115200
- Data - 8 Bit
- Parity - None
- Stop Bits - 1
- Flow Control - Hardware

**Step 1:** To set up Tera Term, first start the program. You will be asked to select a connection type. Select Serial along with the COM port assigned to USB port and click OK.

**Step 2:** To setup the serial port, select the Setup item from the menu bar and click on Serial Port.

**Step 3:** Enter in the parameters listed above.
Once you have the terminal program configured you should be able to communicate to the Z-MAX cabinet.

**Step 4:** Tap Enter on the PC’s keyboard and you should see a prompt appear on the terminal program’s text window.

Since you will be replacing the operating system of the control board, you must jump out of the main operating system that is managing the communications and into a boot section of code that will perform the file transfer.

**Step 5:** To enter the boot system, type EXIT followed by Enter at the prompt.
The prompt will now be "Boot" instead of "Z-MAX".

Only a few commands are necessary to load the operating system. To see all commands available, type HELP.
Many of the commands listed are for trained personnel and used improperly could render the Z-MAX cabinet inoperable. Therefore, only use those commands listed below as described.

**Step 6:** To transfer the new operating system file, issue the PUT command. In most cases you will only want to upgrade the operating system. In this case, use the "C" parameter following the PUT command. If it is desired or necessary to also return all user programming to factory defaults, use the "A" parameter.

**Step 7:** Tap Enter. You will be prompted to begin the transfer from your terminal program.

**Step 8:** To transfer the file using Tera Term, select the "send file..." item from the File menu.
Step 9: Then select the file from the dialog box.

The new operating system will then be transferred.
When the transfer is complete, the new system will start and boot mode will be exited.

To verify the new code in the cabinet:

**Step 1:** Press the Menu button

**Step 2:** Press \( \uparrow \) until the display reads:

```
MAIN MENU SELECT
SOFTWARE BUILD
```

**Step 3:** Press Select/Save

*The display will now show you the version of firmware the unit is running.*