

Connecting Ethernet Data to sPDS-480ca 7.5V

sPDS-480ca 7.5V receives data from and is controlled by Light System Manager (LSM) or Video System Manager (VSM). LSM consists of Light System Composer software and Light System Engine hardware and VSM consists of Video Management Tool software and Video System Engine hardware.

A dedicated network comprised of one or more Ethernet switches are required for your installation. Refer to the LSM User Guide or the VSM User Guide for setup and configuration information.

- Use a CAT5 cable to connect the Ethernet switch into the "Ethernet IN" port on the front of sPDS-480ca 7.5V.

sPDS-480ca 7.5V FUNCTIONS

sPDS-480ca 7.5V features on-board configuration and monitoring functions. Using the control buttons and LCD display located on the front of the supply, you can configure the unit's behavior, monitor its status, and test attached lights.

Button Functions

The four front panel buttons (CANCEL, UP, DOWN, and SELECT) let you navigate through the menu tree and select functions. (See Fig. 6.)



Fig. 6

UP — Pressing the UP button scrolls up through the menus, and increments numeric options.

DOWN — Pressing the DOWN button scrolls down through the menus, and decrements numeric options.

SELECT — Press the SELECT button to choose a menu option, performance action, or to save a setting.

CANCEL — Press the CANCEL button to return to the previous screen.

Menu Structure of the LCD Display

This section details the various menu options available on the front panel of sPDS-480ca 7.5V. Use the control buttons to navigate through the menu. The main menu tree consists of five main menus: VIEW STATUS, CONFIGURE, TEST, RESET SYSTEM, and ABOUT.

- VIEW STATUS:** From the View Status menu, you can review the unit's network configuration and performance, thermal conditions, and the number of lights detected on each port.
- CONFIGURE:** From the Configure menu, you can set the IP Address, discover how many lights are attached, configure thermal properties, adjust the brightness of the LCD backlight, and restore certain settings to factory defaults.
- TEST:** From the Test menu, you can perform basic tests of the attached lights without the need for an external controller.
- RESET SYSTEM:** The Reset System command reboots the unit as if you had turned the power off and back on.
- ABOUT:** The About menu displays system information, including model number and revision.

VIEW STATUS

Command	Options	Description
NETWORK	NET IP ADDRESS 0.0.0.0	Displays IP address of the sPDS-480ca 7.5V.
	MAC ADDRESS	Displays MAC address of the sPDS-480ca 7.5V.
	DATA RATE	Displays an estimate of network bandwidth being used, in kilobytes per second.
	SERIAL NUMBER	Displays the unit's unique serial number.
LIGHTS	LIGHTS PER PORT (1-8)	Displays the number of lights detected per port (not the "total number of lights"). Indicates that you must choose the Scan Lights option from the Configure menu first.

Command	Options	Description
TEMPERATURE	INTERNAL TEMP	Displays an estimate of the unit's internal temperature.
	MIN / MAX TEMP	Displays minimum and maximum temperatures recorded since power was turned on.
	FAN STATUS	Displays whether the fan is off or on, and how fast it is running (as a percentage of max speed).

CONFIGURE

Command	Options	Description
SET IP ADDRESS	10.0.0.0 (Last three segments can be 0-255).	Allows you to set the IP address (see Setting the IP Address).
SCAN LIGHTS	Press the Select button to start scanning.	Counts how many lights are attached to each port. Results are then shown in the Lights Per Port section of the Status menu.
FAN SETTINGS	Low Medium High Auto	Low or Medium: Fan runs continuously at low or medium speed, unless a temperature rise is detected which forces the fan to High. High: The fan runs continuously at High speed at all times. The speed, measured based on internal temperature.
THERMAL SETTINGS	WHEN I OVERHEAT: - Turn off lights (default) - Ramp down lights - Stay on	Allows you to select the action to be taken if the unit overheats. Press Select to save your choice.
LCD BACKLIGHT	Bright (default) Medium Dim Auto-Dim	Allows you to select the brightness of the LCD backlight. When an over-temperature condition is detected, press Select to save your choice.
RESTORE DEFAULTS	Press the Select button to restore defaults.	Restores factory default settings for backlight and thermal. Network configuration remains unchanged.

TEST / RESET SYSTEM / ABOUT

Command	Options	Description
TEST LIGHTS	All Off Single Port Single Light All Red All Green All Blue All Yellow Rainbow	Allows you to test the selected lights or effect. If you choose a Single Port or Single Light, press the Select button, then use the Up or Down buttons to choose the desired port or light.
TEST	Fans on full	Allows you to test the fans. Press the Select button to start test. Fans run on full for a short time, then turn off automatically.
RESET SYSTEM	Press the Select button to restart.	Restarts the power off and back on.
ABOUT	Press the Down button to scroll through the information.	Displays system information, including model number and revision of the firmware.

Setting the IP Address

- Use the control buttons (up and down arrows) to scroll through and set the values for the IP Address fields. Press the Select button to accept the value and jump to the next segment. Use the Cancel button to return to the previous field.
- After setting all values, press the Select button. The system prompts you to press the Select button to confirm. The system indicates the IP address was saved.

NOTE: If you do not confirm the IP address, it will not be saved.
NOTE: The first field (10) cannot be changed and the address should not be set to 10.1.3.100 or 10.1.3.101.

Over-Temperature Detection

The sPDS-480ca 7.5V includes an over-temperature detection circuit. You can choose what the unit does when an over-temperature condition is detected: turn off lights, Ramp down lights, or Stay on. "Turn off lights" sets the lights to black, and resumes normal operation if temperatures drop. "Ramp down lights" smoothly reduces brightness, in an attempt to bring temperature under control without an abrupt cutoff. "Stay on" keeps the lights operating regardless of temperature.

CAUTION: If an over-temperature condition is detected, the unit will flash the LCD backlight. Navigate to the Startup screen (by pressing the Cancel button one or more times) to see the relevant message. An over-temperature condition ALWAYS indicates that the unit is operating beyond its rated specifications, regardless of what you have configured the unit to do in response. The over-temperature feature is intended to detect and mitigate exceptional conditions, like blocked air intakes, that may cause catastrophic failure. In a properly operating installation, an sPDS-480ca 12V should never go over-temperature. Failure to comply may result in minor or moderate injury or property damage and will void the warranty.

MAPPING THE LIGHTS USING sPDS-480ca 7.5V

- Once sPDS-480ca 7.5V installation is complete, use Light System Manager or Video System Manager to map the light installation.
- Once the power / data supplies and lights have been mapped, then you are ready to begin designing shows or playing video. No addressing is required.

Refer to the Light System Manager User Guide or Video System Manager User Guide for complete instructions.

CLEANING AIR INTAKE FILTER

To prevent overheating, inspect the air intake filter regularly and clean as needed. The air intake filters are located behind the front bezel of sPDS-480ca 7.5V. (See Fig. 7.)

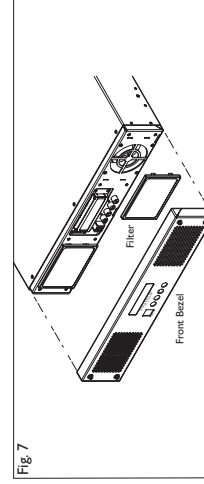


Fig. 7

- Disconnect power. **WARNING:** Ensure power is off before cleaning the filter. Failure to do so could result in death or serious injury and will void the warranty.
- Using a Phillips head screwdriver, loosen the four captive screws on the front of the bezel, and then remove the bezel by pulling it straight out from sPDS-480ca 7.5V.
- Remove the filters by lifting up and out.
- Clean the filters with water, and then air dry completely.
- Replace the filter in the filter cover, and then replace the front bezel. Never operate sPDS-480ca 7.5V with the front bezel off. (See Fig. 7.)

REPLACING FUSES

sPDS-480ca 7.5V contains eight 5A, 125V, 5x20 Fast Blow fuses. In the event that a fuse blows, it must be replaced.

When a fuse blows, the background on the LCD display flashes to alert you of a problem. Navigate to the Startup screen (by pressing the Cancel button one or more times) to see that message. An example of the message is as follows: **Check Port 7 Fuse.** That message continues to flash until the fuse is replaced.

- Disconnect power to sPDS-480ca 7.5V.

WARNING: Ensure power is off before replacing fuses. Failure to do so could result in death or serious injury and will void the warranty.

Remove the two screws on the Fuse Access Cover using a Phillips head screwdriver. (See Fig. 8.)

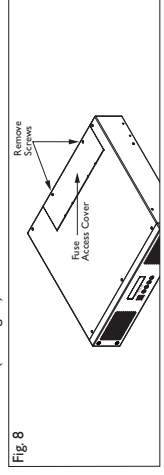


Fig. 8

The fuses are located beneath that access cover. (See Fig. 9.)

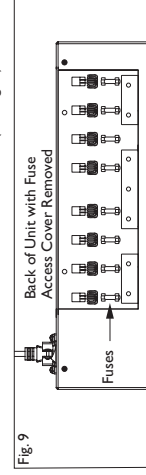


Fig. 9

- Remove the blown fuse and replace it with a new 5A, 125V, 5x20 Fast Blow fuse.
- Replace the Fuse Access Cover and tighten the two screws.
- Power on sPDS-480ca 7.5V.

sPDS-480ca 7.5V SPECIFICATIONS

POWER INPUT	100 – 240 VAC auto ranging (50 – 60Hz)
MAX. INPUT CURRENT	8 A / 100 VAC 7 A / 120 VAC 3.5 A / 240 VAC
POWER OUTPUT	12 VDC, 480 W
HEAT DISSIPATION	25 percent of total power input
AMBIENT TEMP	14 – 122 °F (-10° – 50° C)
HOUSING	Overall dimensions: 19 x 18 x 3.5 in (483 x 457 x 89 mm)
CONNECTORS	Data: RJ45 input connector Power Output: 16 4-pin output connectors Power Input: IEC 320 receptacle type C13 with locking clamp
DATA INPUT INTERFACE	Ethernet using Light System Manager or Video System Manager
DATA OUTPUT INTERFACE	Video System Manager
ENVIRONMENT	Chromatic 7.5V Dry Location
CLASSIFICATION	Class 2
LISTINGS	UL / cUL CE

Warranty

This product is sold pursuant to Philips Solid-State Lighting Solutions Standard Terms and Conditions (the "T&Cs") which may be found at <http://colorkinetics.com/homebuy/terms> and which contain important provisions, including, among others, Limited Warranty, exclusions and limitations on liability for damages, and restrictions on the remedies that are available to you.