INSTALLATION & USER'S MANUAL

PHILIPS

Selecon

Studio Panel LED Luminaires

Studio Panel LED Luminaire
(shown with optional barndoors - PLSTUPNLBD, 2 sets)

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Document Number: **85-6375C**
Version as of: **09 August 2012**

Studio Panel LED Luminaire Installation & User's Manual

IMPORTANT INFORMATION

Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:

a. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**.

b. Do not use outdoors.

c. Do not mount near gas or electric heaters.

d. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

e. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

f. Do not use this equipment for other than intended use.

g. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.

WARNING: You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the National Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

Additional Resources for DMX512

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522). USITT Contact Information:

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315 South Crouse Avenue, Suite 200
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Phone: 1.800.938.7488 or 1.315.463.6463
www.usitt.org

Philips Selecon Limited Three-Year Warranty

Philips Selecon offers a three-year limited warranty of its luminaires against defects in materials or workmanship from the date of delivery. A copy of Philips Selecon three-year limited warranty containing specific terms and conditions can be obtained from the Philips Selecon web site at www.seleconlight.com or by contacting your local Philips Selecon office.

TABLE OF CONTENTS

PHILIPS Selecon

PREFACE

1. About this Manual

The document provides installation and operation instructions for the following products:

- Studio Panel LED Luminaire - PLSTUPNL-03.

Please read all instructions before installing or using this product. *Retain this manual for future reference.* Additional product information and descriptions may be downloaded at www.seleconlight.com

2. Included Items

Each Studio Panel LED Luminaire includes the following items:

- Studio Panel LED Luminaire
- Removable Handle / Mount Assembly
- Stud Mount Adapter (Male / Female)
- PC1BE - AC Power Input Cable (39 inches / 1 meter), Powercon with Bare End* *(*Note, user supplies and installs own AC input connector)*
- Installation and User's Manual *(this document)*

3. Accessories

Contact your Authorized Philips Selecon Dealer for price and availability of all accessories for Studio Panel LED Luminaires. Additional information can be found on the Philips Selecon web site at www.seleconlight.com.

Studio Panel LED Luminaire Power Input Cables (for North America only)

Part Number	Description
PC1BE	Studio Panel LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Bare End* (*Note, user supplies and installs own AC input connector)
PC1GP	Studio Panel LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Stagepin Connector
PC1GTL	Studio Panel LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Twistlock Connector
PC1GR	Studio Panel LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Edison Connector
PC3BE	Studio Panel LED Luminaire AC Power Input Cable (9.8 Feet / 3 meter), Powercon with Bare End* (*Note, user supplies and installs own AC input connector)
PC8BE	Studio Panel LED Luminaire AC Power Input Cable (26 Feet / 8 meter), Powercon with Bare End* (*Note, user supplies and installs own AC input connector)
PC8GR	Studio Panel LED Luminaire AC Power Input Cable (26 Feet / 8 meter), Powercon with Edison Connector

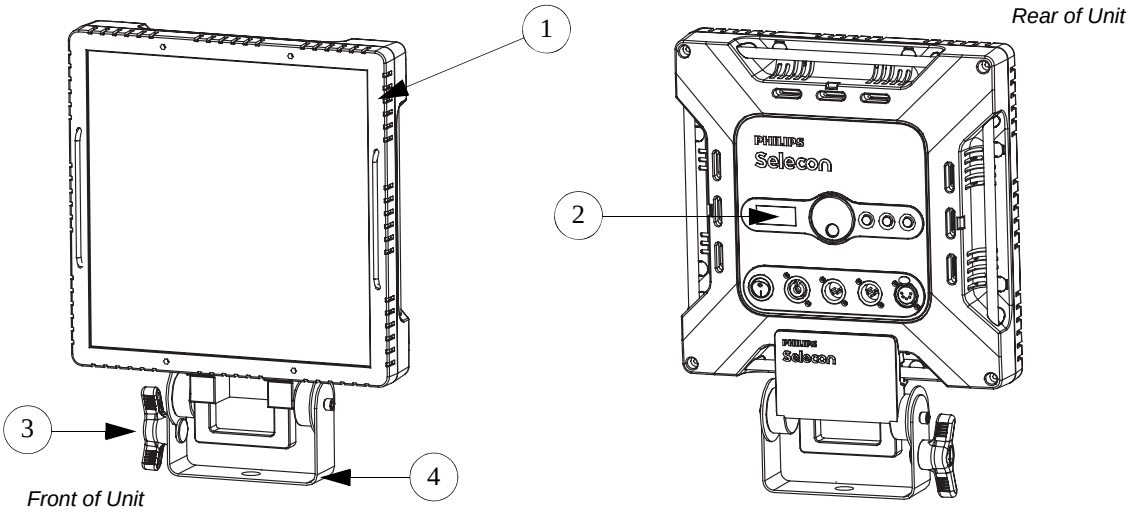
Studio Panel LED Luminaire Accessories

Part Number	Description
PLSTUPNLBD	2-Leaf Snap On Barndoor
PLSTUPNLSAF	Female 5/8-Inch Stud Adapter
PLSTUPNLSAM	Male 5/8-Inch Stud Adapter
MC	Mega Claw, Black, Anodized
SC	Molded Yoke C-Clamp
HC	Light Weight Half Coupler
82003	Safety Cable
PLSTUPNLL40	40-Degree Standard Spread Lens
PLSTUPNLL60	60-Degree Standard Spread Lens

STUDIO PANEL LED LUMINAIRE OVERVIEW

1. Studio Panel LED Luminaire Components

Major Luminaire Components



1) Studio Panel LED Luminaire Head
2) LCD Display Menu System *(see* "LCD Display / Menu System" on page 5 *for more information)*
3) Tilt Axis Point / Locking Handle
4) Handle / Mount Assembly *(note, this assembly is removable and can be installed on all four sides)*

Figure 1: Studio Panel LED Luminaire Components

Luminaire Connections and Menu System

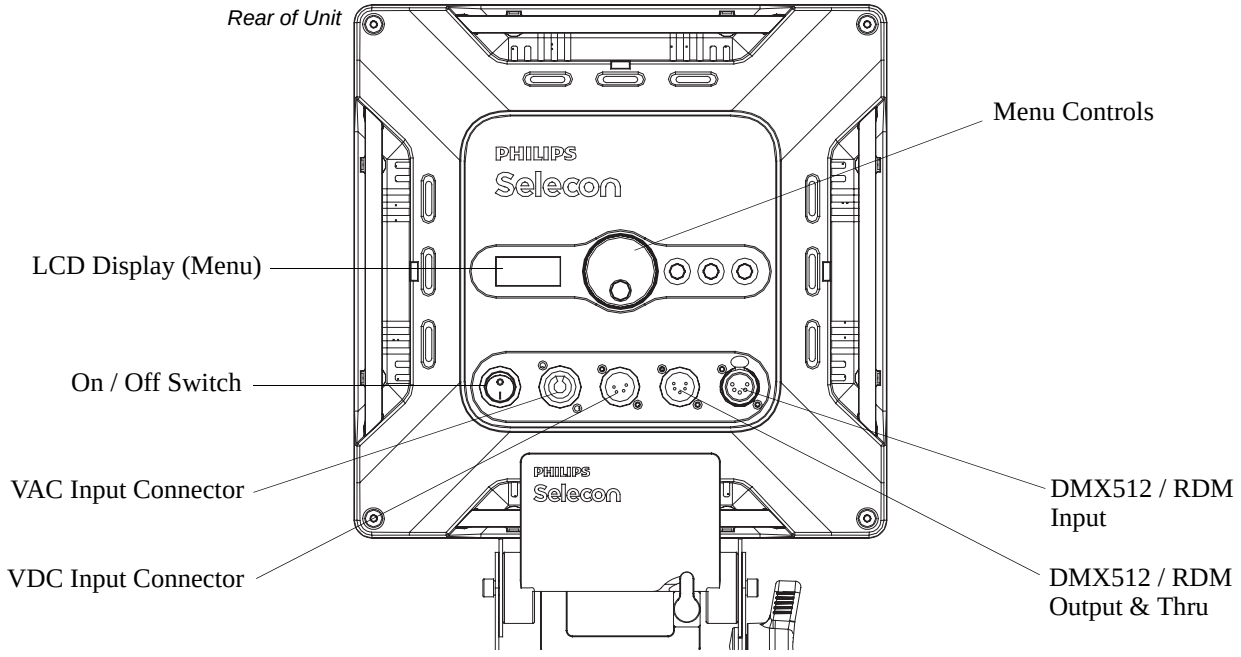
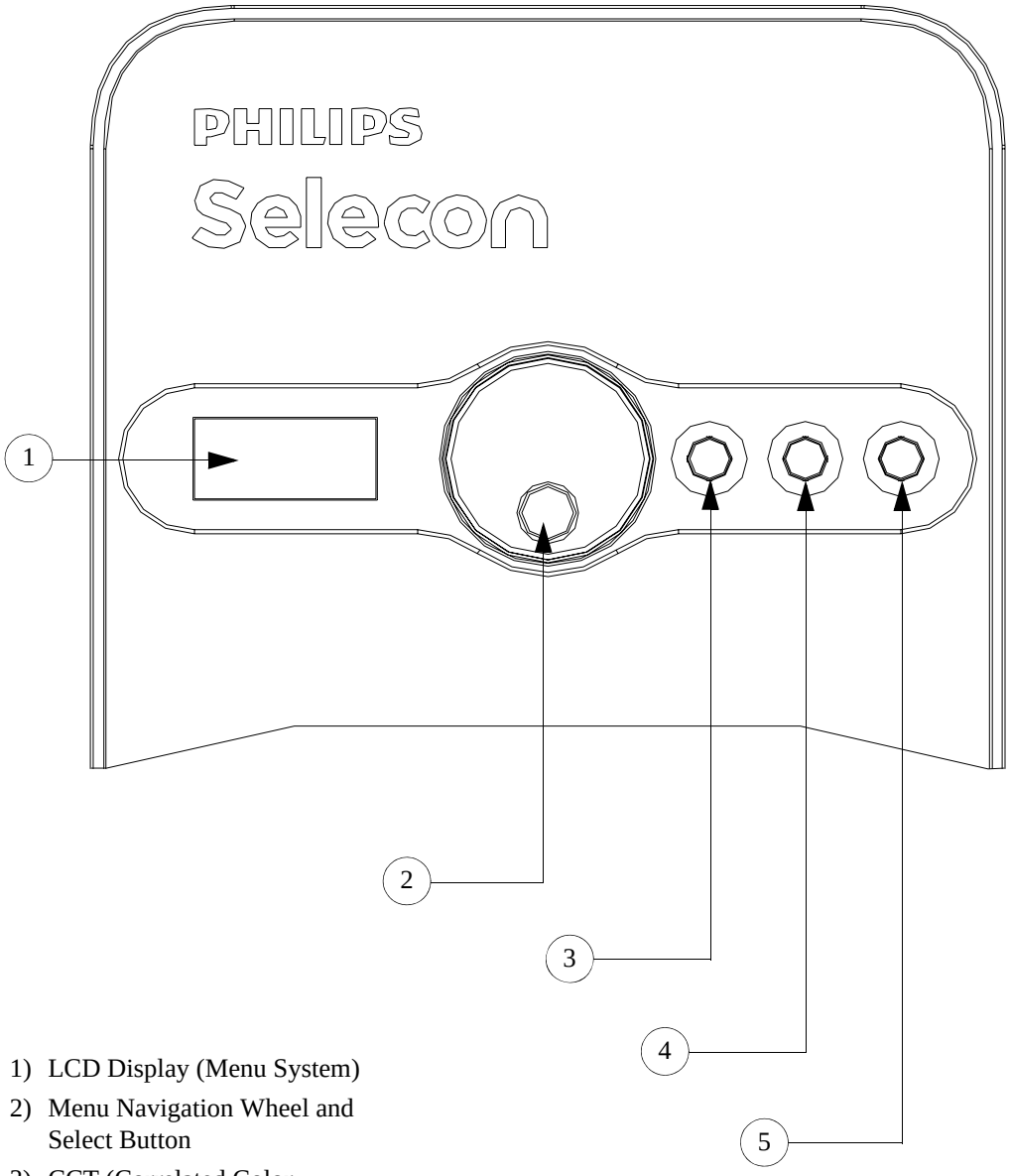


Figure 2: Studio Panel LED Luminaire - Rear View

LCD Display / Menu System



1) LCD Display (Menu System)
2) Menu Navigation Wheel and Select Button
3) CCT (Correlated Color Temperature) Selection Button
4) Dimmer Selection Button
5) Preset Selection Button

Figure 3: LCD Display & Menu System

Note: For Menu operation and programming details, refer to "LCD Display and Menu System" on page 12.

INSTALLATION AND SET UP

1. Power Requirements

The Studio Panel LED Luminaire operates on either AC or DC voltage. The luminaire contains an on-board ON / OFF switch.

WARNING! Turning off the unit at power switch does not disconnect power from unit. Always disconnect power input cables to completely remove power from unit when not in use.

AC Power Operation

When connected to an AC source, the unit operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 50 Watts.

Table 1: Studio Panel LED Luminaire Voltage (VAC) vs. Current

Voltage (AC)	Total Current (A)
100	0.50
110	0.45
120	0.42
130	0.38
140	0.36
150	0.33
160	0.31
170	0.29

Voltage (AC)	Total Current (A)
180	0.28
190	0.26
200	0.25
210	0.24
220	0.23
230	0.22
240	0.21

Note: For wiring of AC input connector, refer to "Connecting Studio Panel LED Luminaires to AC Power" on page 7.

DC Power Operation

When connected to a DC power source, the unit operates on 12 to 24 volts DC at 50 Watts (max.).

Table 2: Studio Panel LED Luminaire Voltage (VDC) / Wattage

Voltage (DC)	Wattage
12 - 24 VDC	50 Watts (max.)

Note: For wiring of DC input connector, refer to "Connecting Studio Panel LED Luminaires to DC Power" on page 8.

2. Connecting Power

Units can be powered in one of two ways:

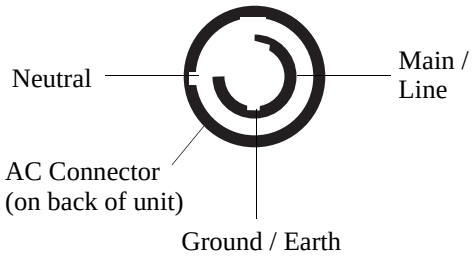
- Direct connection to an AC power source using an AC input cable. AC input cable accessories are described in "Studio Panel LED Luminaire Power Input Cables (for North America only)" on page 3. For wiring of AC input connector, refer to "Connecting Studio Panel LED Luminaires to AC Power" on page 7.
- Direct connection to a DC power source through the unit's DC input power connection. For wiring of DC input connector, refer to "Connecting Studio Panel LED Luminaires to DC Power" on page 8.

Connecting Studio Panel LED Luminaires to AC Power

If the unit is supplied with an AC input cable but you did not order an AC input connector, Table 3 describes how to connect power to your Studio Panel LED Luminaire. Field wiring of the Studio Panel LED Luminaire is straight forward. A total of 3 wires/conductors need to be brought to the unit. The following wiring scheme is required:

Table 3: Studio Panel LED Luminaire AC Input Connections

Wire Color	Purpose
Brown	Main / Line (100 to 240VAC)
Blue	Neutral
Green/Yellow	Ground (Earth)



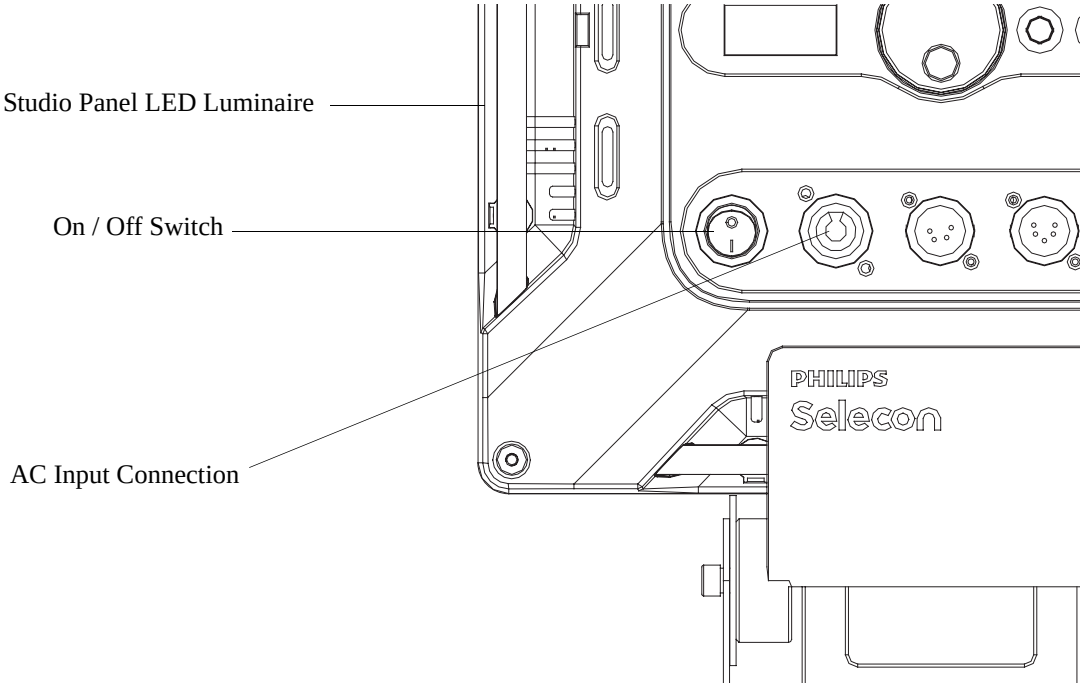


Figure 4: Studio Panel LED Luminaire AC Input Connection

CAUTION: In the event the AC input cable of this luminaire is damaged, it must be replaced, by the user, with an approved cable by Philips Selecon through an Authorized Dealer or Service Center. Replacement AC input cables are listed in "Accessories" on page 3.

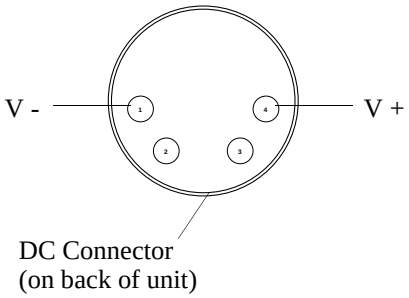
Connecting Studio Panel LED Luminaires to DC Power

The Studio Panel LED Luminaire can be connected to a DC Voltage power source (i.e., AC to DC converter or battery). Table 4 describes how to connect power to your Studio Panel LED Luminaire to a VDC power source.

Field wiring of the Studio Panel LED Luminaire is straight forward. A total of 2 wires/conductors need to be brought to the unit through a 4-pin connector. The following wiring scheme is required:

Table 4: Studio Panel LED Luminaire AC Input Connections

Pin Number	Purpose
1	V -
2	Not Used
3	Not Used
4	V +



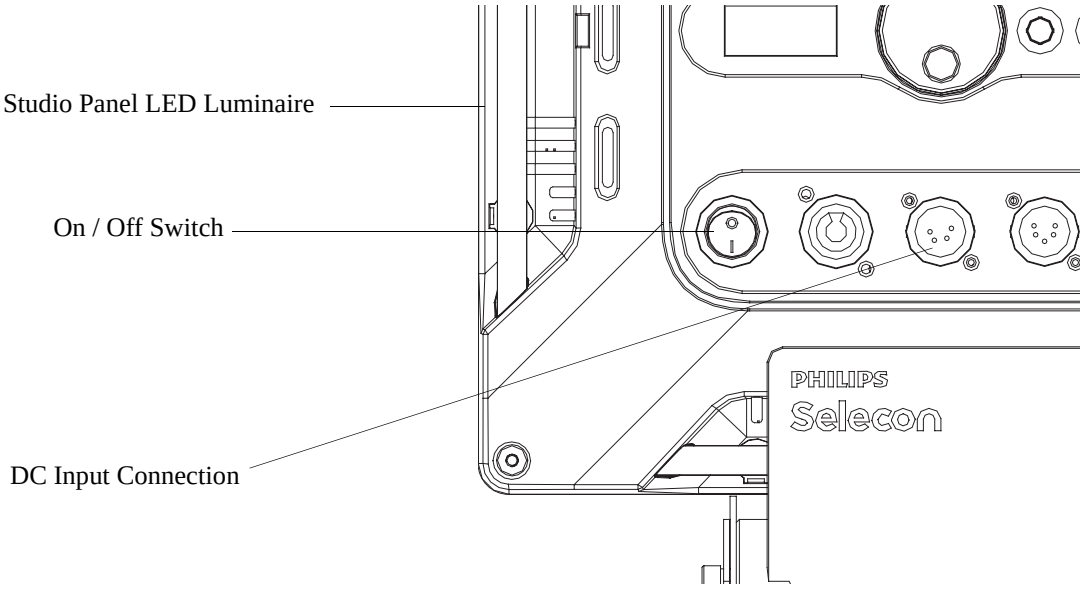


Figure 5: Studio Panel LED Luminaire DC Input Connection

3. Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple Studio Panel LED Luminaires together (up to 32 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first Studio Panel LED Luminaire. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next Studio Panel LED Luminaire (or DMX512 device to be controlled).

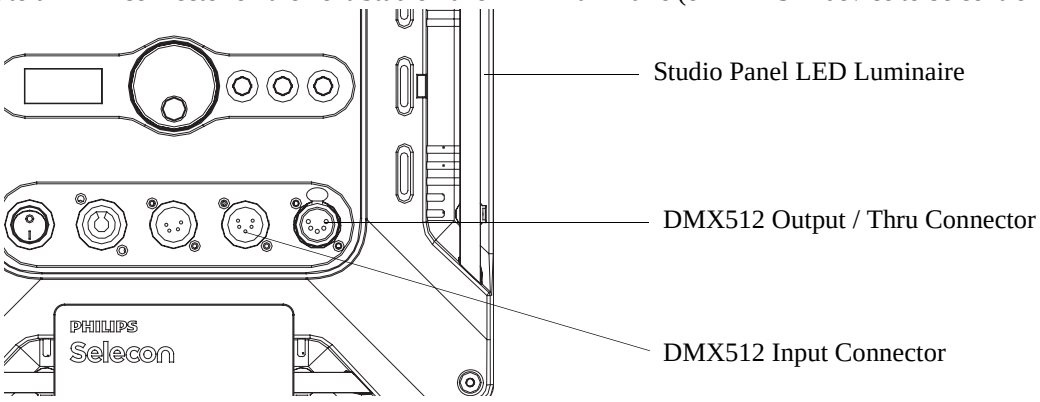
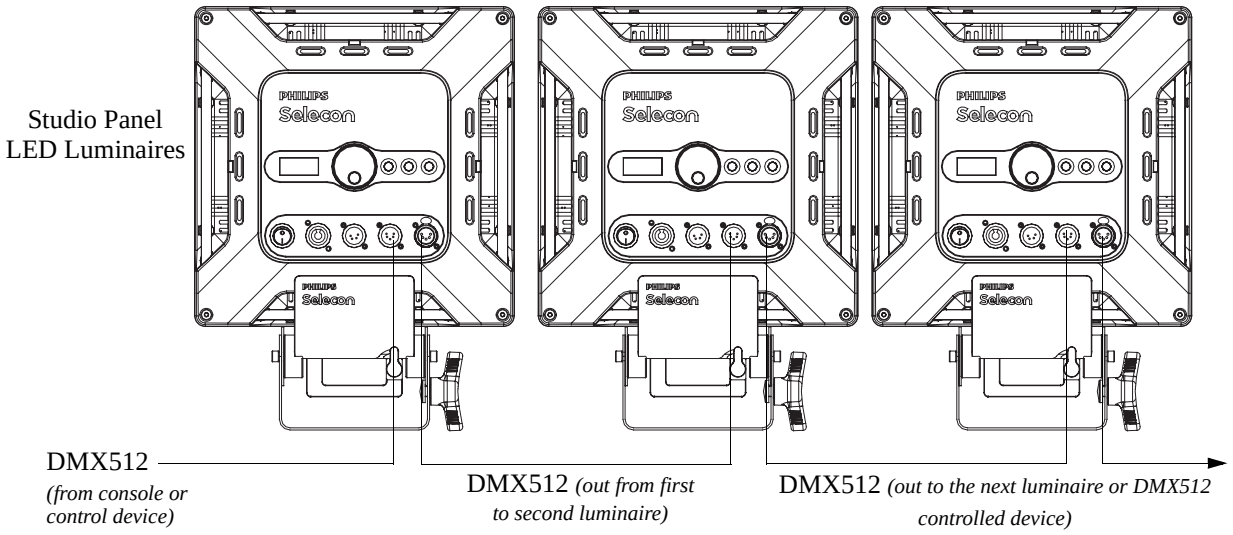


Figure 6: Studio Panel LED Luminaire DMX512 Input / Output Connections

Note: For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 1. For Studio Panel LED Luminaire DMX Mapping, refer to "DMX CONTROL" on page 15.



DMX512 Connections

DMX512 Signal	XLR Pin
Common (Drain)	1
DMX512 -	2
DMX512 +	3

Note: Remaining pins on each connector are not used.

Figure 7: Studio Panel LED Luminaire - DMX512 Connections

4. Mounting Luminaire

The Studio Panel LED Luminaire is provided with a Handle / Mount Assembly. This assembly easily attaches and detaches from the luminaire via a quick-release handle. This Handle / Mount Assembly is designed to accept a variety of mounting hooks, clamps, etc. for hanging applications or stud adapters for stand mounting.

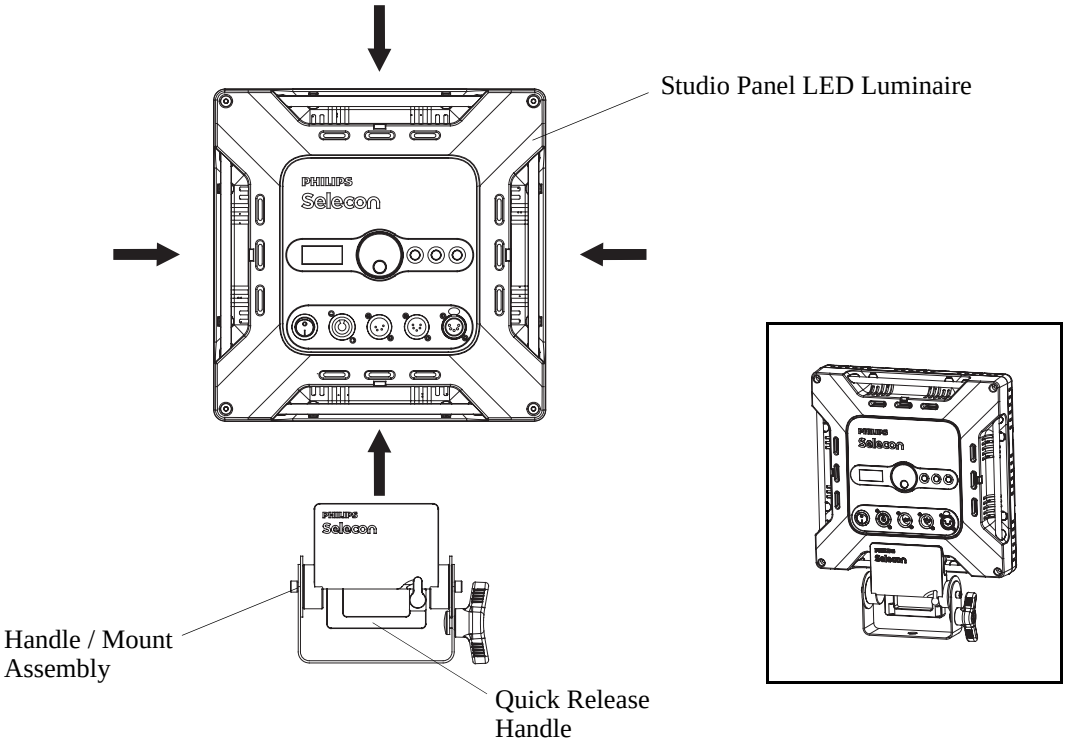


Figure 8: Handle / Mount Assembly

Handle / Mount Assembly Removal and Installation

To release the Handle / Mount Assembly, rotate the handle locking mechanism (as shown in **Figure 9**), grasp the Quick Release Handle and pull down and away from luminaire. The locking mechanism prevents the Handle / Mount Assembly from inadvertently separating from the luminaire assembly.

The Handle / Mount Assembly may be attached to any side of the Studio Panel LED Luminaire as shown in **Figure 8**.

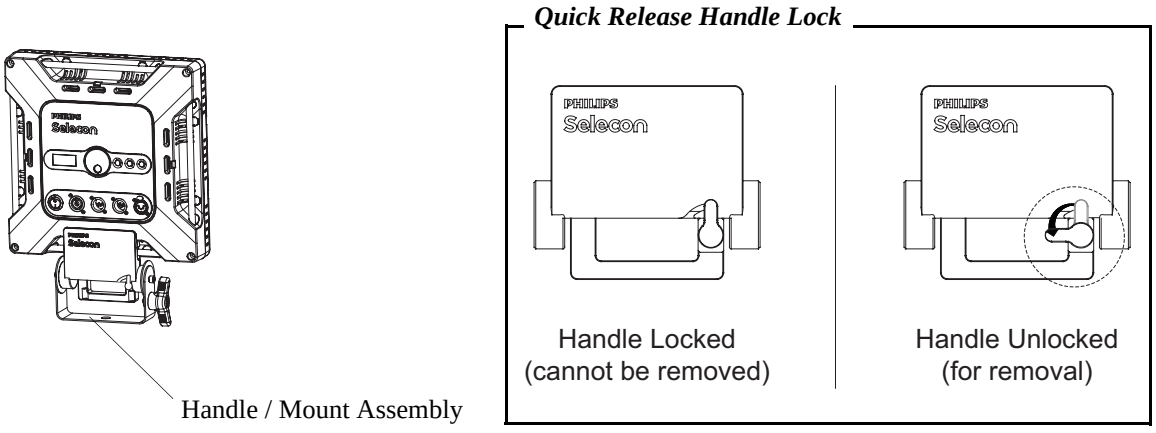
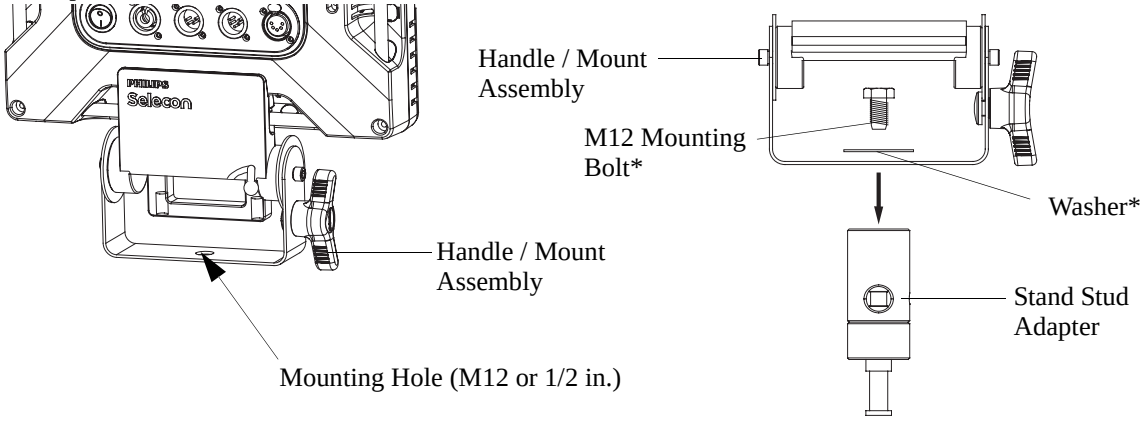


Figure 9: Handle / Mount Assembly - Locking Mechanism

Stud Adapter Installation

Installing an optional Stand Stud Adapter is quick and easy. Simply rotate the Handle / Mount Assembly to access the mounting hole in Handle / Mount Assembly. As shown in **Figure 10**, insert retaining bolt into hole and thread into Stud Adapter.



*Note: *M12 Bolt and washer supplied with stand stud adapter.*

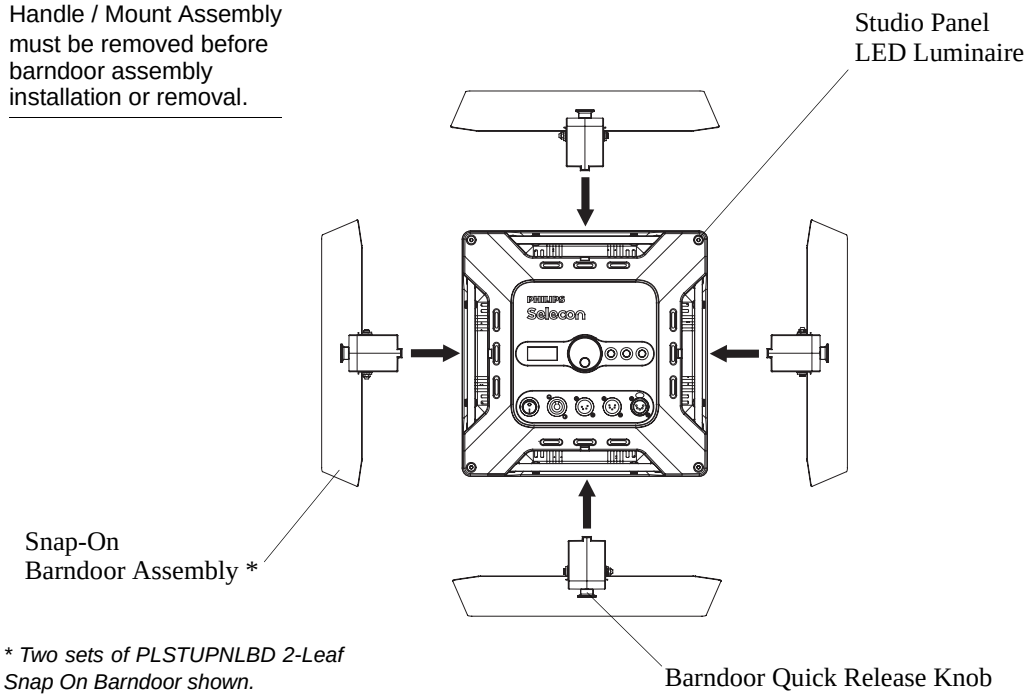
Figure 10: Stand Stud Adapter

5. Barndoor Installation

The Studio Panel LED Luminaire can accept up to four snap-on barndoor leaves (sold separately in sets of two). The barndoor assembly is easily installed or removed as desired as shown in **Figure 11**.

- To install a barndoor assembly, remove Handle / Mount Assembly, pull back on quick release knob, and snap barndoor leaf onto side of Studio Panel LED Luminaire. Reinstall Handle / Mount Assembly.
- To remove a barndoor leaf, pull back on quick release knob and pull leaf away from Studio Panel LED Luminaire.

NOTE:
Handle / Mount Assembly must be removed before barndoor assembly installation or removal.



** Two sets of PLSTUPNLBD 2-Leaf Snap On Barndoor shown.*

Figure 11: Snap-On Barndoor Assembly

OPERATION AND PROGRAMMING

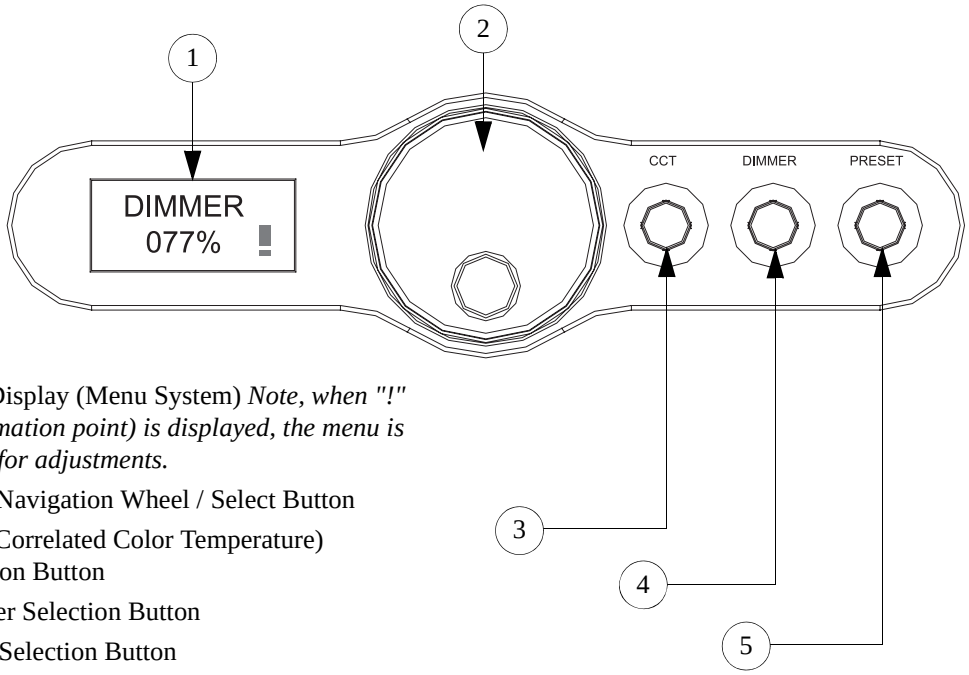
1. LCD Display and Menu System

The Studio Panel LED Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- CCT (Correlated Color Temperature)
- Dimmer / Intensity
- Setting the DMX512 Address

Note: If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired.

Upon power up, the LCD will display the main screen showing the product type/name. If DMX is enabled, the programmed address will appear after power up.

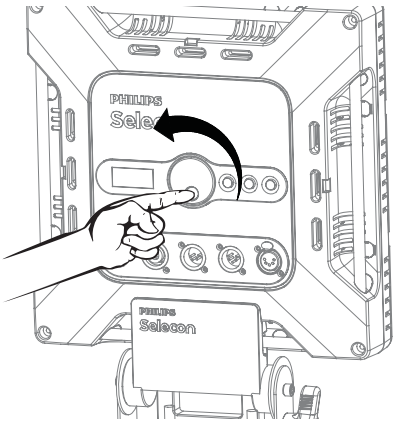


1) LCD Display (Menu System) *Note, when "!" (exclamation point) is displayed, the menu is active for adjustments.*
2) Menu Navigation Wheel / Select Button
3) CCT (Correlated Color Temperature) Selection Button
4) Dimmer Selection Button
5) Preset Selection Button

Figure 12: LCD Display and Menu System

2. LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Use the Menu Navigation Wheel / Select Button to access and make changes to the menu items. When the desired menu item is reached, press the Menu Navigation Wheel / Select Button to display the menu options. Rotate the Menu Navigation Wheel / Select Button to navigate and configure the menu options as required.



To navigate and access menu settings/selections:

Step 1. Make sure unit is powered and turned on.

Step 2. Rotate Navigation Wheel / Select Button (in either direction) to access menu categories.

Step 3. Press Navigation Wheel / Select Button at desired menu item to access and make changes.

Step 4. Make changes as desired.

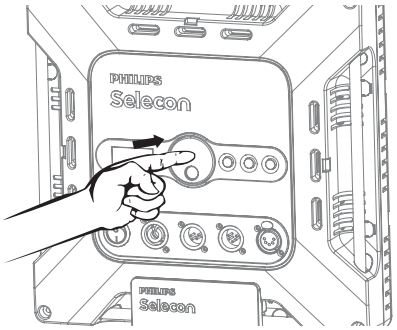


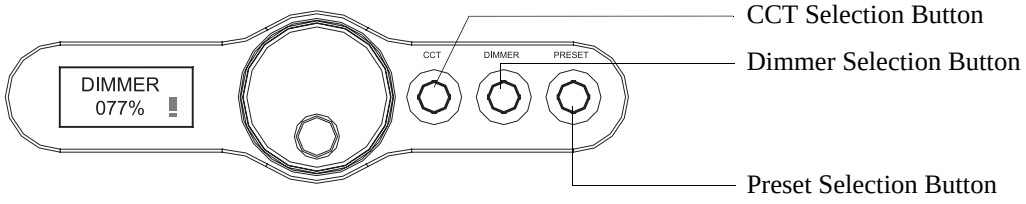
Table 5: Menu Categories and Options

Category	Options	Next Level	Meaning
Mode	**Manual** *(Manual mode, local control only (no DMX)*	**Dimmer**	Rotate wheel to set dimmer level from 0 to 100% (in 1% increments)
		CCT	Rotate wheel to set CCT level from 3000K to 6000K (in 1K increments)
	DMX-8B *(Unit is set to operate in DMX512 8-Bit mode)*	**Address**	Sets the units DMX512 address (from 001 to 512)
		LastHold	Sets the units operation should DMX512 signal be disconnected or lost - **YES** (maintain last DMX512 state) or **NO** (do not maintain last DMX512 state)
		State	Information only - displays if DMX512 is present (connected) or not
	DMX-16B *(Unit is set to operate in DMX512 16-Bit mode)*	**Address**	Sets the units DMX512 address (from 001 to 512)
		LastHold	Sets the units operation should DMX512 signal be disconnected or lost - **YES** (maintain last DMX512 state) or **NO** (do not maintain last DMX512 state)
		State	Information only - displays if DMX512 is present (connected) or not

3. Quick Selection Buttons

Note: When pressing one of the Quick Selection buttons (CCT, Dimmer, or Preset), the luminaire will automatically go into Manual Mode.

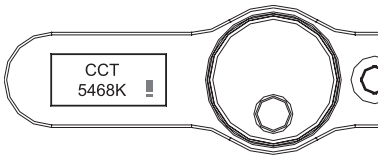
When in Manual Mode, the Studio Panel LED Luminaire's features can be accessed via the on-board LCD menu system or via three quick select buttons:



- CCT (Correlated Color Temperature) Selection Button
- Dimmer Selection Button
- Preset Selection Button

CCT (Correlated Color Temperature) Selection Button

In Manual Mode, you can press the CCT selection button to adjust the unit's CCT setting in increments of 1.



To adjust the CCT setting in Manual Mode:

Step 1. Press CCT selection button until current CCT value and flashing "!" (exclamation point) is displayed.

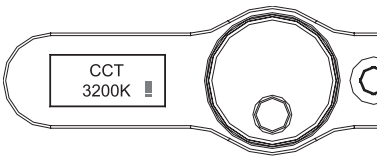
Step 2. Rotate the Navigation Wheel / Selection Button to desired value/setting.

Step 3. Press Navigation Wheel / Selection Button.

Step 4. Unit is set to desired CCT value/setting.

Preset Selection Button

In Manual Mode, you can press the Preset button to access the nine (9) preprogrammed white presets in the Studio Panel LED Luminaire's memory. With each press of the CCT Selection Button, the fixture will recall the tuned white presets as shown in Table 6. You can adjust each preset by rotating the Navigation Wheel / Selection Button.



To select one of ten Presets in Manual Mode:

Step 1. Press Preset selection button until current CCT value and flashing "!" (exclamation point) is displayed.

Step 2. Continue to press Preset button until desired CCT value is displayed.

Table 6: Preset Selection Button Presets

Preset	CCT
1	3000K
2	3200K
3	3500K
4	4000K
5	4200K

Preset	CCT
6	4500K
7	5000K
8	5600K
9	6000K

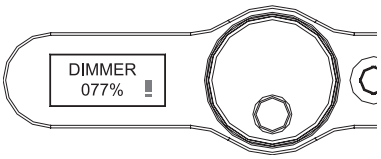
Note: In this mode, you can adjust the preset value by rotating the Navigation Wheel / Selection Button to desired value/setting. This adjustment is similar to the procedure described in "CCT (Correlated Color Temperature) Selection Button" on page 13.

Step 3. Press Navigation Wheel / Selection Button to set desired value/setting.

Step 4. Unit is set to desired Preset value/setting.

Dimmer Selection Button

In Manual Mode, you can press the Dimmer selection button to adjust the unit's intensity level in increments of 1%.



To adjust the Dimmer (intensity) level in Manual Mode:

Step 1. Press Dimmer selection button until current intensity level and flashing "!" (exclamation point) is displayed.

Step 2. Rotate the Navigation Wheel / Selection Button to desired value/setting.

Step 3. Press Navigation Wheel / Selection Button.

Step 4. Unit is set to desired intensity level/setting.

DMX CONTROL

This section contains information for operating the luminaire using DMX control in 16-bit or 8-Bit modes. For Menu options and detailed information, see "LCD Display and Menu System" on page 12.

Note: These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

Note: When pressing one of the Quick Selection buttons (CCT, Dimmer, or Preset as described in "Quick Selection Buttons" on page 13), the luminaire will automatically go into Manual Mode.

1. 16-Bit Mode

Table 7 provides DMX channel mapping of all DMX512 control values when the Studio Panel LED Luminaire is in 16-bit DMX512 mode (as set by the luminaire's menu system).

Table 7: Studio Panel LED Luminaire DMX Channel Mapping (16-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	**Default** - *recommended console default values*	Description
1	Intensity - High	0 - 65535	0 - 100%	0	16-bit control for Intensity of LED settings.
2	Intensity - Low				
3	CCT - High Byte	0 - 65535	0 - 100%	0	16 bit control of CCT from 3000K to 6000K.
4	CCT - Low Byte				

2. 8-Bit Mode

Table 8 provides DMX channel mapping of all DMX512 control values when the Studio Panel LED Luminaire is in 8-bit DMX512 mode (as set by the luminaire's menu system).

Table 8: Studio Panel LED Luminaire DMX Channel Mapping (8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	**Default** - *recommended console default values*	Description
1	Intensity	0 - 255	0 - 100%	0	8-bit control for Intensity of LED settings.
2	CCT	0 - 255	0 - 100%	0	8 bit control of CCT from 3000K to 6000K.

RDM CONTROL

1. Studio Panel LED Luminaire RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with Studio Panel LED Luminaires.

Table 9: Studio Panel LED Luminaire RDM Product Parameters IDs

Model ID	Manufacturer	Model Description	Product Category
0x0101	Philips Selecon	Studio Panel LED Light	0x0509

Table 10: Studio Panel LED Luminaire RDM UID

UID					
MSB of ESTA 50H	LSB of ESTA 53H	MSB of 01H	LSB of 01H	MSB of Unique Seq.	LSB of Unique Seq.

Table 11: Studio Panel LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
Category - Network Management					
		DISC_UNIQUE_BRANCH	0x0001		■
		DISC_MUTE	0x0002		■
		DISC_UN_MUTE	0x0003		■
■		PROXIED_DEVICES	0x0010		
■		PROXIED_DEVICES_COUNT	0x0011		
■	■	COMMS_STATUS	0x0015		
Category - Status Collection					
■		QUEUED_MESSAGE	0x0020		■
■		STATUS_MESSAGES	0x0030		■
■		STATUS_ID_DESCRIPTION	0x0031		■
	■	CLEAR_STATUS_ID	0x0032		■
■	■	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
Category - RDM Information					
■		SUPPORTED_PARAMETERS	0x0050	*Support required only if supporting Parameters beyond the minimum required set.*	■
■		PARAMETER_DESCRIPTION	0x0051	*Support required for Manufacturer-Specific PIDs exposed in SUPPORTED_ PARAMETERS message.*	■
Category - Product Information					

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Table 11: Studio Panel LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
■		DEVICE_INFO	0x0060		■
■		PRODUCT_DETAIL_ID_LIST	0x0070		
■		DEVICE_MODEL_DESCRIPTION	0x0080		■
■		MANUFACTURER_LABEL	0x0081		■
■	■	DEVICE_LABEL	0x0082		■
■	■	FACTORY_DEFAULTS	0x0090		
■		LANGUAGE_CAPABILITIES	0x00A0		
■	■	LANGUAGE	0x00B0		
■		SOFTWARE_VERSION_LABEL	0x00C0		■
■		BOOT_SOFTWARE_VERSION_ID	0x00C1		
■		BOOT_SOFTWARE_VERSION_LABEL	0x00C2		
Category - DMX512 Setup					
■	■	DMX_PERSONALITY	0x00E0		■
■		DMX_PERSONALITY_DESCRIPTION	0x00E1		■
■	■	DMX_START_ADDRESS	0x00F0	*Required if device uses a DMX Slot*	■
■		SLOT_INFO	0x0120		■
■		SLOT_DESCRIPTION	0x0121		■
■		DEFAULT_SLOT_VALUE	0x0122		
Category - Sensors 0x02xx					
■		SENSOR_DEFINITION	0x0200		■
■	■	SENSOR_VALUE	0x0201		■
	■	RECORD_SENSORS	0x0202		
Category - Dimmer Settings 0x03xx - FUTURE USE					
Category - Power / Lamp Settings 0x04xx					
■	■	DEVICE_HOURS	0x0400		
■	■	LAMP_HOURS	0x0401		
■	■	LAMP_STRIKES	0x0402		
■	■	LAMP_STATE	0x0403		
■	■	LAMP_ON_MODE	0x0404		
■	■	DEVICE_POWER_CYCLES	0x0405		
Category - Display Settings 0x05xx					
■	■	DISPLAY_INVERT	0x0500		■
■	■	DISPLAY_LEVEL	0x0501		
Category - Configuration 0x06xx					
■	■	PAN_INVERT	0x0600		
■	■	TILT_INVERT	0x0601		
■	■	PAN_TILT_SWAP	0x0602		
■	■	REAL_TIME_CLOCK	0x0603		
Category - Control 0x10xx					
■	■	IDENTIFY_DEVICE	0x1000		■
	■	RESET_DEVICE	0x1001		
■	■	POWER_STATE	0x1010		

Table 11: Studio Panel LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
■	■	PERFORM_SELFTEST	0x1020		
■		SELF_TEST_DESCRIPTION	0x1021		
	■	CAPTURE_PRESET	0x1030		
■	■	PRESET_PLAYBACK	0x1031		

Table 12: Studio Panel LED Luminaire RDM Manufacturer Status IDs

Manufacturer Specific messages are in the range of 0x8000 - 0xFFDF. Each Manufacturer-specific Status ID shall have a unique meaning, which shall be consistent across all products having a given Manufacturer ID. See Table B-2, ANSI E1.20-2010.				
Status ID Message	**Value**	**Data Value 1**	**Data Value 2**	**Status ID Description**
8100H		00H	00H	ALL OK

Table 13: Studio Panel LED Luminaire RDM Manufacturer Specific PIDs

Get Allowed	Set Allowed	RDM Parameter IDs	Type	Length	Unit	Prefix	Min	Max	Default	Description
Category - Manufacturer Defined PIDs - Range is 0x8000-0xffdf (See ANSI E1.20-2010 Standard, Table A-3)										
■	■	8A01H	U8	1	None	None	0	100	100	DIMMER
■	■	8A03H	U8	1	None	None	0	100	100	CCT
■	■	8A0CH	U8	1	None	None	0	3	0	DMX Fail Mode

CLEANING AND CARE

WARNING! All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

1. Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the Studio Panel LED Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The Studio Panel LED Luminaire special care when it comes to cleaning front lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

The following is a list of cleaning materials required to care for your Studio Panel LED Luminaire:

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution.

Note: *Reagent grade isopropyl alcohol is good to use on the Studio Panel LED Luminaire plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.

WARNING! Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the Studio Panel LED Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

If you have any questions regarding the use or care of your Studio Panel LED Luminaire, please contact Philips Selecon technical support or your local Authorized Dealer.

2. Front Lens Cleaning

To clean the front lens:

Step 1. Turn off luminaire and allow to cool completely.

Step 2. Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.

Step 3. Wipe all debris, dirt, fingerprints, etc. from lens.

Step 4. Using a second lint-free lens tissue, wipe off any alcohol residue.

3. Service and Maintenance

For all other service and maintenance issues, please contact your local Philips Selecon office or an Authorized Service Center.

WARNING! Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local Philips Selecon office or an Authorized Service Center for technical support and service.

4. Accessories

Only Philips Selecon approved accessories should be used with your Studio Panel LED Luminaire. For a list of available accessories from Philips Selecon, please see "Accessories" on page 3. For questions regarding accessories, please contact your local Authorized Philips Selecon Dealer or Philips Selecon office.

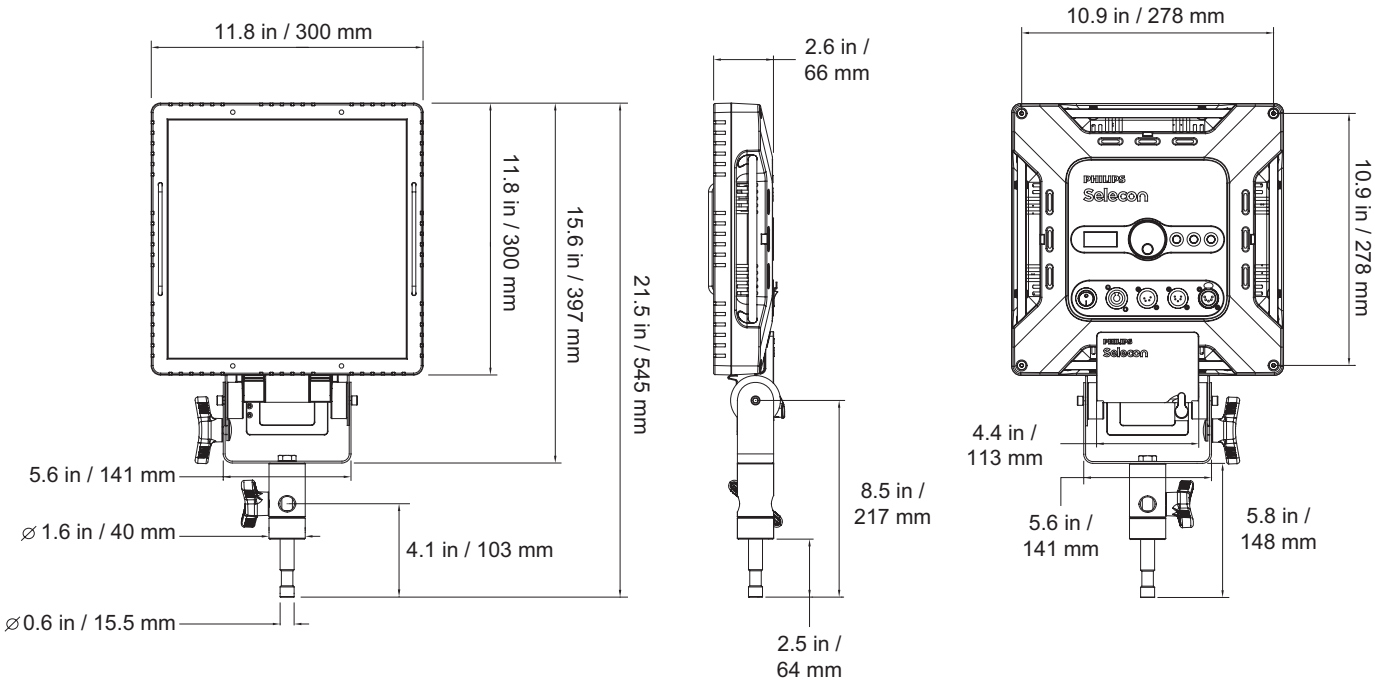
TECHNICAL SPECIFICATIONS

1. Studio Panel LED Luminaire Operational Specifications

Source:	Tunable White LED Array
Light Output:	> 2,000 lumens
Color Temperature:	3000 - 6000K (user adjustable)
Input Voltage (AC):	100V to 240V (+/- 10%, auto-ranging)
Current (AC):	0.80 Amps (max.) at 115V / 0.40 Amps (max.) at 230V
Input Voltage (DC):	12V to 24V (50 Watts max.)
Frequency:	50/60Hz
Control Protocols:	DMX512 (1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	0 to 40 degrees C (32 to 104 degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Natural Convection
Weight:	5.1 lbs (2.3 kg) - Luminaire only (no mount, AC input cable or accessories)
Compliance:	cETLus listed and CE Marked. IP20 Rated

Note: Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet or visit the Philips Selecon web site at www.seleconlight.com for more details.

2. Studio Panel LED Luminaire Dimensions



Note: Shown with supplied stud adapter installed. This adapter is removable.

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