

# PHILIPS Selecon

## WIRELESS DMX RECEIVERS



PL1WDMX01 / PL1WDMX03 / PL1LDMX01 / PL1LDMX03 / PL1SDMX01 / PL1SDMX03

For use with PL1 LED and PL3 LED Luminaires

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**PL1WDMX01 / PL1WDMX03 / PL1LDMX01 / PL1LDMX03 / PL1SDMX01 / PL1SDMX03 Wireless DMX  
Receivers User's Guide**

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# 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 use near gas or electric heaters.
- d. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- e. Do not use this equipment for other than intended use.
- f. 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 proper use specifications.

**WARNING:** This equipment is intended for use 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.

## FCC Compliance

The DMX wireless receivers described herein comply with Part 15 of the FCC Rules and are CE marked.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.



To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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**WARNING! RF Exposure Warning for North America and Australia** - To meet FCC and other national safety guidelines for RF exposure, the antenna for this device must be positioned to ensure a minimum separation distance of 20 centimeters (7.9 inches) from persons.

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### FCC Markings

Model	FCC ID
PL1LDMX01	XRSCRMXNOVA101
PL1LDMX03	XRSCRMXNOVA101
PL1WDMX01	UQT-WDMXOEMPCBF
PL1WDMX03	UQT-WDMXOEMPCBF
PL1SDMX01	VU65792
PL1SDMX03	VU65792

### Industry Canada Compliance

- This Class B Digital apparatus meets all the requirements of the Canadian Interference Causing Equipment Regulations ICES 003.
- Cet appareil numérique de classe B respecte les exigences du règlement du Canada sur le matériel brouilleur NMB-003.

The device is certified to the requirements of RSS-210 for 2.4 GHz spread spectrum devices. The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations. For further information, contact your local Industry Canada office.

### Industry Canada (IC) Markings

Model	IC Number
PL1LDMX01	8879A-CRMXN101
PL1LDMX03	8879A-CRMXN101
PL1WDMX01	6612A-WDMXOEM
PL1WDMX03	6612A-WDMXOEM
PL1SDMX01	7480A-5972
PL1SDMX03	7480A-5972

### CE Marking

The DMX wireless receivers described herein are CE marked and are designed to install and operate with the Philips Selecon luminaires described in this manual. For all other applications and use, please contact your local Philips Selecon office.



### Philips Selecon Limited Three-Year Warranty

Philips Selecon offers a three-year limited warranty of its products 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](http://www.seleconlight.com) or by contacting your local Philips Selecon office.

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# PREFACE

## About this Guide

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

- PL1WDMX01 PL1 LED Luminaire W-DMX Wireless DMX512 Receiver, White
- PL1WDMX03 PL1 LED Luminaire W-DMX Wireless DMX512 Receiver, Black
- PL1LDMX01 PL1 LED Luminaire Lumen Radio Wireless DMX512 Receiver, White
- PL1LDMX03 PL1 LED Luminaire Lumen Radio Wireless DMX512 Receiver, Black
- PL1SDMX01 PL1 LED City Theatrical SHoW DMX DMX512 Receiver, White
- PL1SDMX03 PL1 LED City Theatrical SHoW DMX DMX512 Receiver, Black

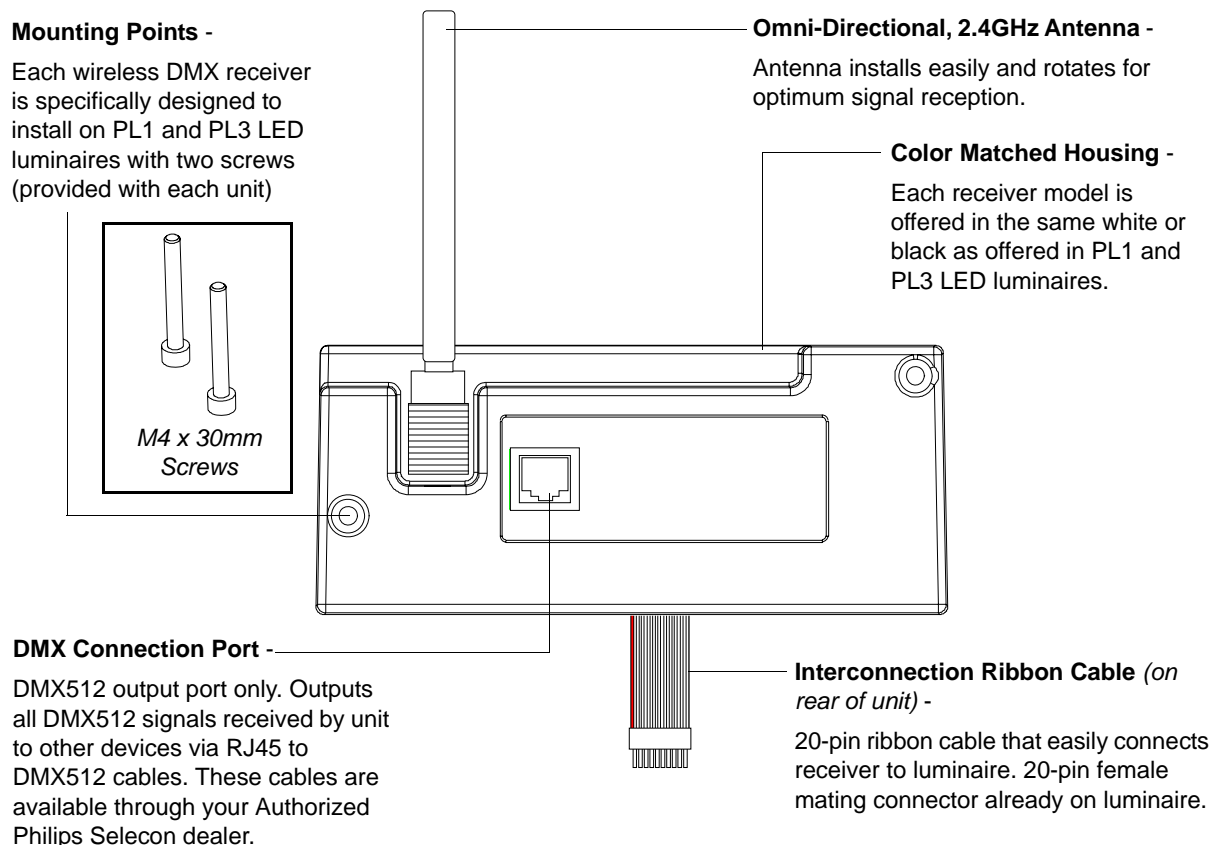
Please read all instructions before using this product. *Retain this manual for future reference.* Additional information for these products may be downloaded at [www.seleconlight.com](http://www.seleconlight.com)

## Product Description

The PL1WDMX01 / PL1WDMX03 / PL1LDMX01 / PL1LDMX03 / PL1SDMX01 / PL1SDMX03 wireless DMX receivers are used to connect to PL1 and PL3 LED Luminaires to allow wireless DMX512 communications and control. These receivers are offered in two wireless standards - Wireless Solution W-DMX and Lumen Radio Wireless DMX. They are also offered in either black or white to match the luminaire's body color. Each wireless DMX receiver installs directly on to, and is powered by, the luminaire.

## Wireless DMX Receiver Features

Refer to **Figure 1** for the features of the wireless DMX receiver. Note, each has same features.



**Figure 1: Wireless DMX Receiver Features**

# WIRELESS DMX RECEIVER INSTALLATION

## Installing Receiver on PL1 LED Luminaires

To install on a PL1 LED Luminaire:



**WARNING!** Before proceeding, remove power from PL1 LED luminaire.

Step 1. Unpack unit and make sure all parts are present.

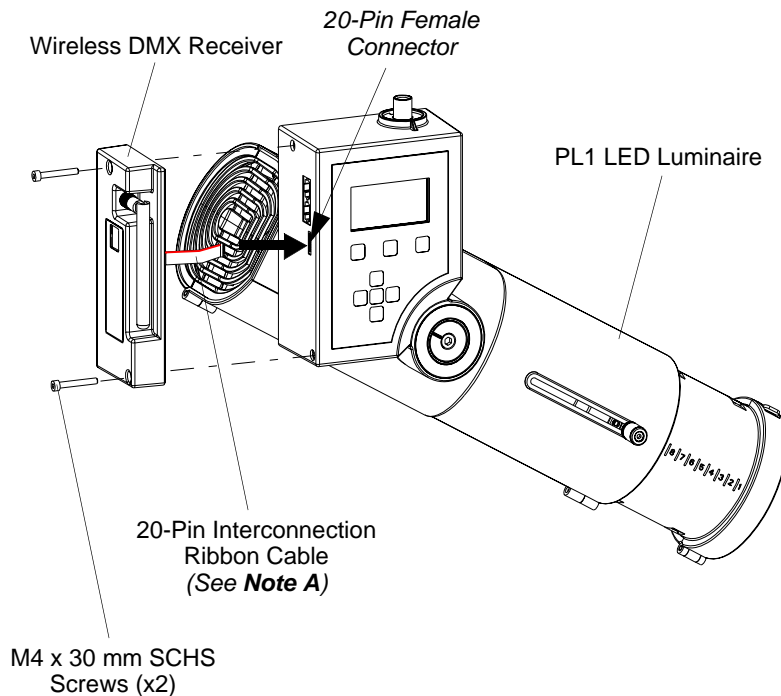
Step 2. If antenna is not installed, install antenna.



**CAUTION:** In next step, do not twist ribbon cable. The RED stripe on ribbon cable should be on same side as RJ45 port on luminaire.

Step 3. A rear of receiver, connect 20-pin ribbon cable (provided with unit) to 20-pin female header connector on unit.

Step 4. Position unit over luminaire mounting point as shown in **Figure 2**. Make sure ribbon cable is completely encased in receiver housing before securing to luminaire. Do not pinch ribbon cable.



**Note A:** Make sure the red stripe is towards the luminaire's RJ45 (DMX512) port when connecting ribbon cable to fixture.

**Figure 2: Wireless DMX Receiver Installation - PL1 LED Luminaires**

Step 5. Install receiver unit by inserting two M4 X 30 mm socket cap head screws (provided with unit) through holes in receiver housing into luminaire. Hand-tighten screws using a 3 mm Allen Wrench (not provided) or ARLAKTOOL (provided with PL1 LED luminaires). Do not over tighten!

Step 6. Once installation is complete, proceed to ["WIRELESS DMX RECEIVER OPERATION" on page 7](#) for configuration instructions.

## Installing Receiver on PL3 LED Luminaires

To install on a PL3 LED Luminaire:



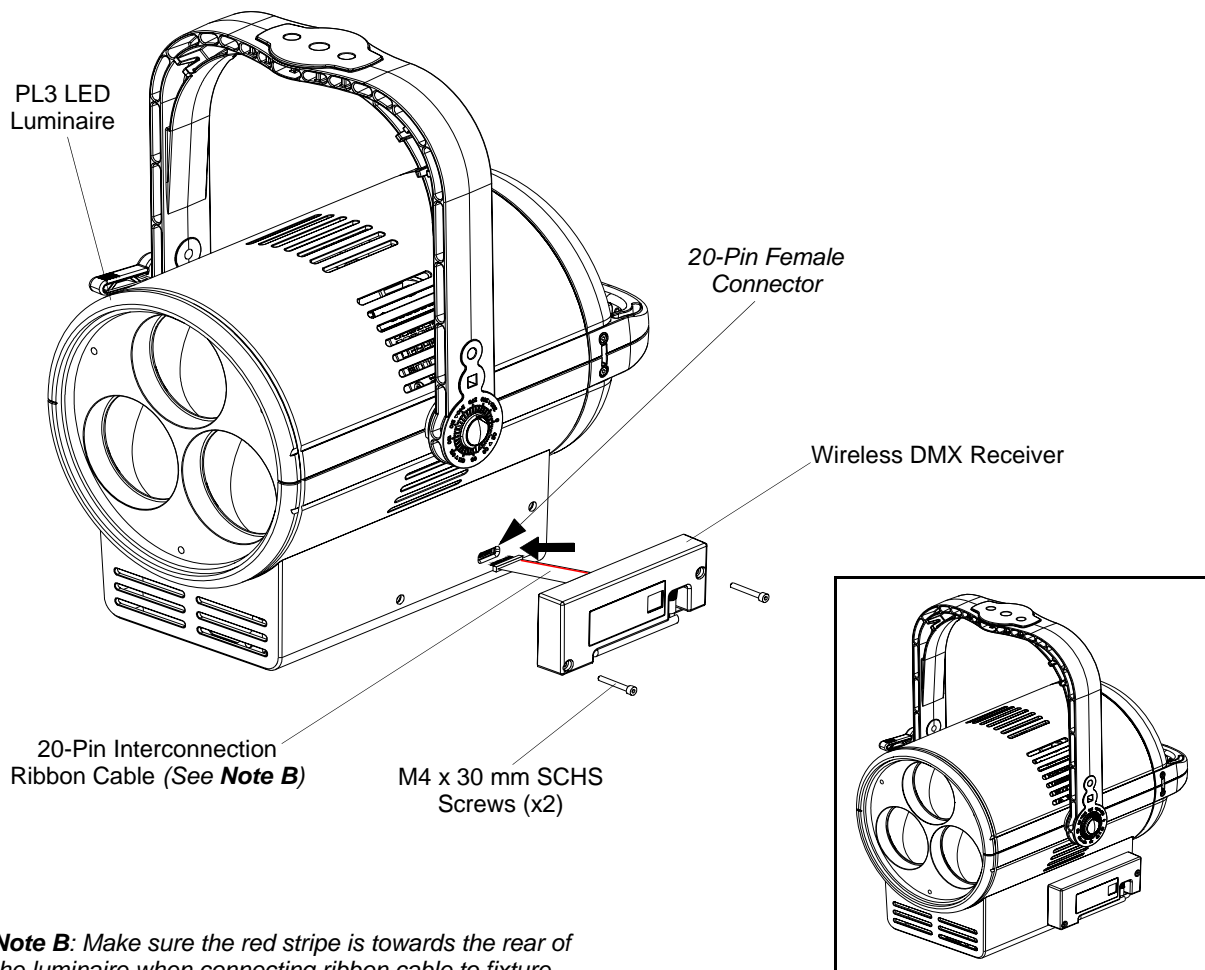
**WARNING!** Before proceeding, remove power from PL3 LED luminaire.

- Step 1. Unpack unit and make sure all parts are present.  
 Step 2. If antenna is not installed, install antenna.



**CAUTION:** In next step, do not twist ribbon cable. The RED stripe on ribbon cable should be towards the rear of the luminaire.

- Step 3. A rear of receiver, connect 20-pin ribbon cable (provided with unit) to 20-pin female header connector on unit.  
 Step 4. Position unit over luminaire mounting point as shown in **Figure 3**. Make sure ribbon cable is completely encased in receiver housing before securing to luminaire. Do not pinch ribbon cable.



**Note B:** Make sure the red stripe is towards the rear of the luminaire when connecting ribbon cable to fixture.

**Figure 3: Wireless DMX Receiver Installation - PL3 LED Luminaires**

- Step 5. Install receiver unit by inserting two M4 X 30 mm socket cap head screws (provided with unit) through holes in receiver housing into luminaire. Hand-tighten screws using a 3 mm Allen Wrench (not provided). Do not over tighten!  
 Step 6. Once installation is complete, proceed to ["WIRELESS DMX RECEIVER OPERATION" on page 7](#) for configuration instructions.



# WIRELESS DMX RECEIVER OPERATION

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## Configuring the Luminaire to Operate with Receiver

### To enable wireless DMX communications:

- Step 1. Install unit according to instructions contained in ["WIRELESS DMX RECEIVER INSTALLATION"](#) on [page 5](#).
- Step 2. Power on luminaire.
- Step 3. At luminaire display, enable luminaire to operate with wireless DMX receiver as follows:
  - a. Press [Menu] button and arrows on luminaire menu until **Connectivity** screen appears. Press [Enter] button.
  - b. Scroll through options: **None**, **DMX** (for direct wired DMX connections), **Wireless W-DMX** (when using PL1WDMX01 / PL1WDMX03 units), **Wireless CMRX-DMX** (when using PL1LDMX01 / PL1LDMX03 units), **Wireless Show-DMX** (when using PL1SDMX01 / PL1SDMX03 units), **WiFi Art-Net**, and **WiFi ShowNet**.
  - c. Press [ESC] button to reboot.
- Step 4. Receiver is ready to connect to a wireless DMX transmitter. *Refer to transmitter manual for signal assigning/connecting to transmitter and DMX512 signal set up.*

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**Note:** Once the wireless DMX device is linked to its transmitter, other fixtures or devices (without a wireless DMX device) can be connected via hard wire to the output of the wireless DMX device to receive DMX commands.

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## Unlinking Receiver from Connected Transmitter

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**Note:** This section is only applicable to PL1WDMX01 / PL1WDMX03 / PL1LDMX01 / PL1LDMX03 wireless DMX receivers. For PL1SDMX01 and PL1SDMX03 models, refer to ["Returning the Receiver to a Known ShowID \(ShowID 201\)"](#).

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### To unlink (disconnect) receiver from its connected transmitter:

- Step 1. At luminaire display, change luminaire DMX Address to 000.
- Step 2. The luminaire LCD display will show a message saying, **Un-Linking** for about 5 seconds.
- Step 3. The luminaire DMX address will return to its previously set DMX address when unlinking is completed.

## Returning the Receiver to a Known ShowID (ShowID 201)

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**Note:** This section is only applicable to PL1SDMX01 / PL1SDMX03 wireless DMX receivers. For PL1WDMX01 / PL1WDMX03 / PL1LDMX01 / PL1LDMX03 models, refer to ["Unlinking Receiver from Connected Transmitter"](#).





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### Returning the Receiver to a known ShowID (ShowID 201):

- Step 1. At luminaire display, change luminaire DMX Address to 000.
- Step 2. The luminaire LCD display will show a message saying, **Un-Linking** for about 5 seconds.
- Step 3. The luminaire DMX address will return to its previously set DMX address when Complete.

The Receiver is now set to **ShowID 201** and will connect to a transmitter with the same ShowID. Refer to City Theatrical Documentation on changing the Receiver's setting using RDM, through the Transmitter.

## Luminaire LCD Display Icons and Meanings

LCD Display Icon	Icon Name	Description / Meaning
	Unlink / Not Connected	Receiver is not assigned or connected to a wireless DMX512 transmitter
	Linked / Connected	Receiver is connected to a wireless DMX512 transmitter <b>BUT</b> DMX512 signal is not present. Note, the luminaire LCD display will be <b>NORMAL</b> in appearance.
	Signal Linked	Receiver connected to a wireless DMX512 transmitter <b>AND</b> DMX512 signal is present. Note, the luminaire LCD display will be <b>REVERSE</b> in appearance.
	Signal Linking (or Seeking Lost Signal)	Receiver is process of linking to transmitter <b>or</b> ; Signal link to transmitter is lost and trying to reacquire signal.

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**Note:** The RJ45 port on the receiver is DMX512 output only. The port uses a RJ45 to DMX512 cable available from Philips Selecon. Contact your local Philips Selecon dealer or Philips Selecon for more information.

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## Notes

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