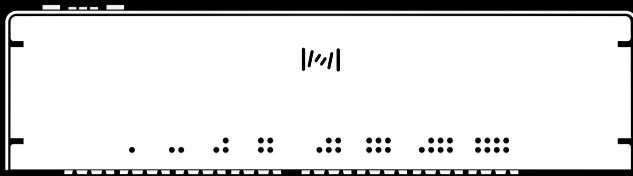# LONG-RANGE
LED CONTROLLER
V2

ProtoPixel

Thank you for choosing the ProtoPixel Long-Range. A ready-to-use LED controller for large-scaled, architectural projects. Distance matters and ProtoPixel is here to help you enter the future of great lighting projects with this high-performance device, capable of controlling fixtures within a 300-meter radius.

Designed for installers and integrators that work from hospitality to corporate and others, it fits all standards through a centralized, safe, and accessible set-up in a rack. Plan lighting deployments easily and professionally with this new controller.

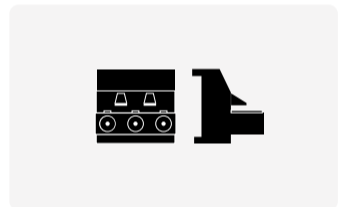for further info head to: protopixel.io
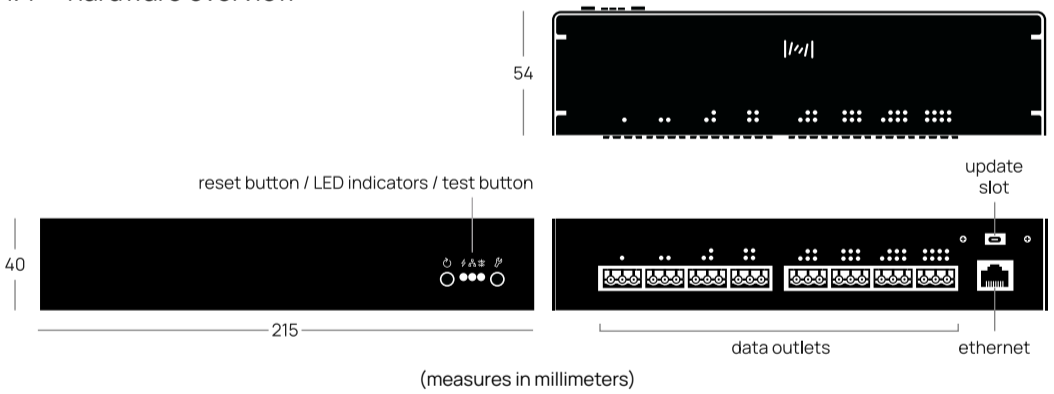
WHAT'S IN THE BOX

1 Long-Range Controller
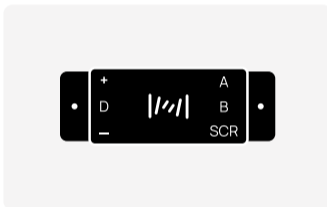
up to 8 Receivers*

24 Plug-in Screw Terminals*

*each receiver comes with 2 plug-in screw terminals

1. 1   hardware overview

54

40

reset button / LED indicators / test button

215

(measures in millimeters)

update slot

data outlets   ethernet

1. 2   power & factory reset

ethernet switch   PoE injector
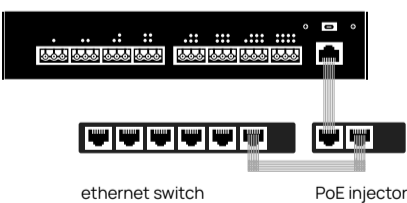
Connect the controller to your Power over Ethernet (PoE) injector or PoE router to get the device running.

FRONT VIEW DETAIL

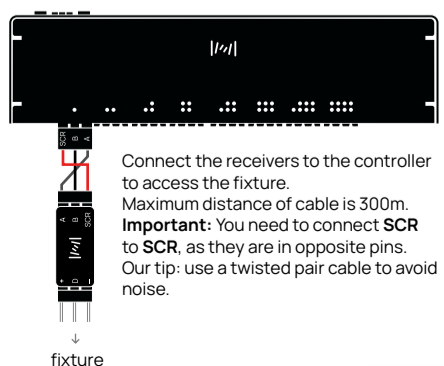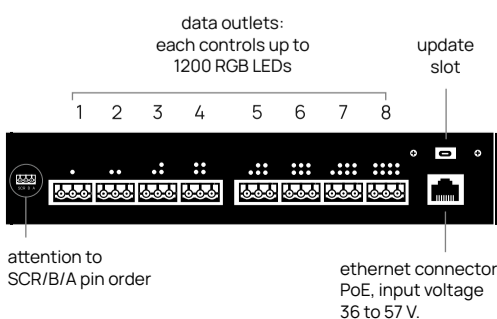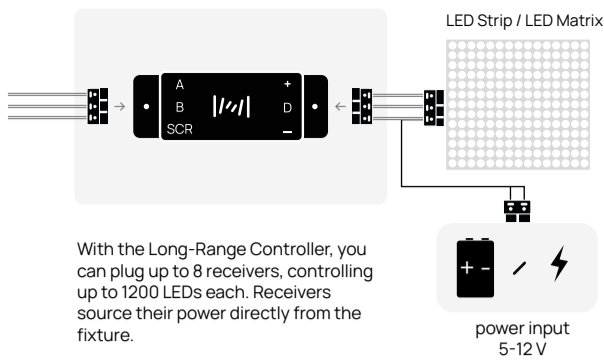reset   test
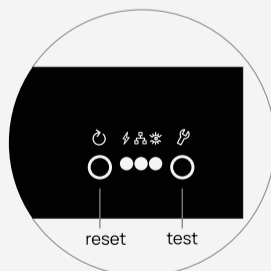
active LED indicates stable power

press & hold reset button for 10 seconds to restore the Long-Range to its factory settings

1. 3   inputs & outputs

data outlets: each controls up to 1200 RGB LEDs

update slot

1 2 3 4 5 6 7 8

attention to SCR/B/A pin order

ethernet connector PoE, input voltage 36 to 57 V.

Connect the receivers to the controller to access the fixture.
Maximum distance of cable is 300m.
Important: You need to connect **SCR** to **SCR**, as they are in opposite pins. Our tip: use a twisted pair cable to avoid noise.

↓ fixture

1.4 receivers

LED Strip / LED Matrix
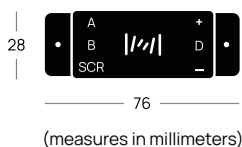
With the Long-Range Controller, you can plug up to 8 receivers, controlling up to 1200 LEDs each. Receivers source their power directly from the fixture.

power input
5-12 V

LIST OF SUPPORTED INTEGRATED CIRCUITS

WS2811, WS2812, WS2812B, WS2813, WS2815, Neopixel, SK6812, GW6205, UCS1903, UCS1903B, UCS2904 & CS8812 protocol families

INTERFACE OVERVIEW

the Long-Range Controller comes with three indicator LEDs, one reset button, and one test button.
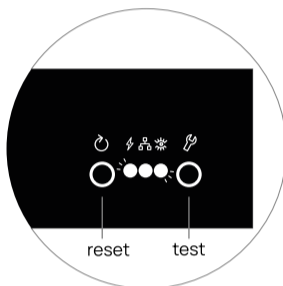
⚡ power | test output

品 network | test pattern

☀ mode | test mode

2.1 buttons & indicators

⚡ No. of blinking times indicates output (1-8)

品 No. of blinking times indicates pattern (1-10)

enter test mode: hold the test button for 3 seconds

select test output: in test mode press the reset button

reset   test
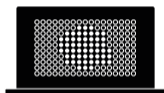
reset device: hold the reset button for 3 seconds

PATTERN OPTIONS   品

0 Channel Run   5 All channels
1 Channel 1   6 CH 1 + CH 2
2 Channel 2   7 CH 2 + CH 3
3 Channel 3   8 CH 1 + CH 3
4 Channel 4   9 Dynamic

in **test mode**, press the test button once to select the desired pattern to test.

exit test mode: hold for 3 seconds

2.2 design & control

CREATE

ProtoPixel Create is the most powerful lighting design software. Work with a neat and intuitive interface to bring your vision of light to reality.
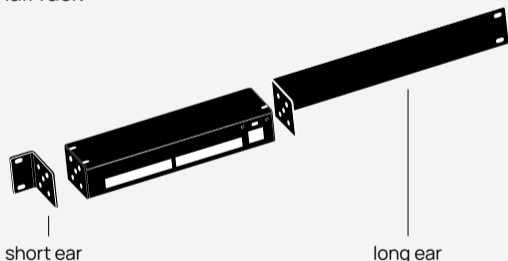
SPACES

ProtoPixel Spaces app is the configuration co-pilot of the ProtoPixel platform that allows you to easily organize and control lighting projects from your phone or tablet.
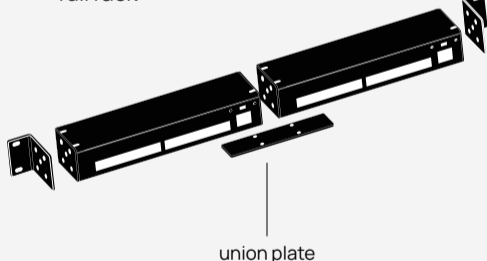
 App Store

 Google Play

ACCESSORIES OVERVIEW

half rack

full rack

short ear

long ear

union plate

3.1 rack mount

To purchase accessories contact your local retailer. You can find yours at **protopixel.io**.
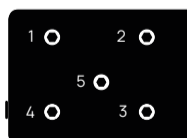
RACK MOUNT: SCREWS

To fasten the Long-Range to its rack-mount ears, remove all screws except no. 5.
Use the loose screws to secure both rack mount ears to the Long-Range.

HALF RACK MOUNT

To mount only one Long-Range in a rack, fasten one short ear and one long ear to each end of the controller. Holes in the extremes of the ears are standardized and ready for rack mounting.

SIDE VIEW

1   2
5
4   3

FULL RACK MOUNT

After fastening the corresponding right and left rack mount ears to each Long-Range, remove screws 1 & 2 from both, and secure the union plate.