

# PixLite® R4D-S

Long Range Receiver



DATASHEET

## KEY FEATURES

- Receive Data up to 300m from Transmitter
- Up to 12 Universes of Data-Only Pixels
- Power In and Fuse Good LED Indicators
- Electrical Fault Protection on all Ports
- Compact Form Factor

Made in Australia  
3 Year Warranty

**ADVATEK**  
LIGHTING

# PixLite® R4D-S

## Long Range Receiver

### PRODUCT OVERVIEW

The **PixLite R4D-S** is a pixel LED controller that's built to last and has all the protection one needs for peace of mind with professional installations.

Paired with a **PixLite T8** controller, the **PixLite R4D-S** receives differential (long distance) data and converts it into a pixel ready signal. Perfect for any professional installation, particularly when the LEDs will be separated by some distance.

### A CLOSER LOOK AT THE RECEIVER

#### 4 PIXEL OUTPUTS

4 individually fused outputs suitable for **data-only** pixel LEDs (see next page for details). Configuring the PixLite transmitter unit to **expanded mode** exclusively allows the use of data-only pixels

#### FAULT PROTECTION

Features electrical fault protection on all inputs and all pixel output lines, resulting in higher reliability and less equipment failures over time. Each output also includes a 7.5A mini blade fuse which will help protect the pixels and power supply in a fault condition, as well as keeping the installation safe. See details on next page.

#### SMALL FORM FACTOR

Compact, lightweight, slimline unit designed for mounting in tight spaces

#### QUICK CONNECT POWER

High current quick connect clamp connector for fast and reliable power connection

#### CONTENTS

**PixLite R4D-S**

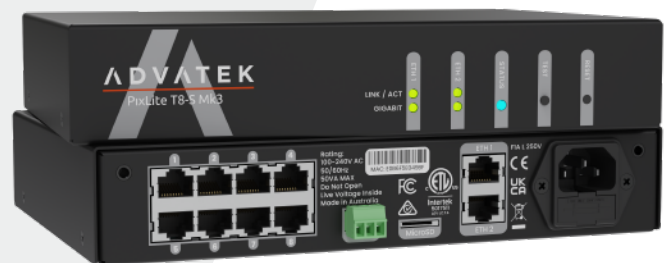
Installation Guide

#### CERTIFICATIONS



#### COMPATIBLE TRANSMITTERS

**PixLite T8-S Mk3**

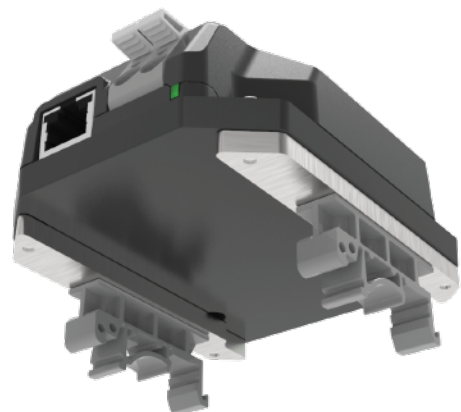


**PixLite T8-S Mk2**



#### OPTIONAL ACCESSORIES

**Din-Rail Mounting Bracket**



# PixLite® R4D-S

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### SPECIFICATIONS

#### PHYSICAL

|                                       |                           |
|---------------------------------------|---------------------------|
| Pixel Outputs                         | 4 x Powered               |
| Data Input (From PixLite Transmitter) | 1 x RJ45                  |
| Dimensions (excluding connectors)     | 95 x 78 x 33mm            |
| Weight                                | 0.2kg                     |
| Enclosure                             | High Strength ABS - Black |
| Mounting                              | Wall & Din-Rail Mountable |

#### FAULT PROTECTION

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Electrostatic Discharge (ESD) | All ports protected                       |
| Data Input                    | +/- 24V DC fault protection               |
| Pixel Output Clock/Data       | +/- 24V DC fault protection               |
| Pixel Output Power            | Over Current and Short Circuit Protection |

#### THERMAL

|                               |                |
|-------------------------------|----------------|
| Storage Temperature           | -20°C to +55°C |
| Ambient Operating Temperature | -20°C to +55°C |

#### POWER

|                          |                        |
|--------------------------|------------------------|
| Input Power              | 5V - 24V DC            |
| Per Output Current Limit | 7.5A (Mini Blade Fuse) |
| Total Current Limit      | 30A                    |

#### CERTIFICATIONS & MARKS

|                         |                                        |
|-------------------------|----------------------------------------|
| North America           | ETL Listing (Equivalent to UL Listing) |
| Europe                  | CE                                     |
| North America           | FCC                                    |
| Canada                  | ICES3                                  |
| Australia & New Zealand | RCM                                    |
| United Kingdom          | UKCA                                   |

#### TESTING STANDARDS

|                                          |                        |
|------------------------------------------|------------------------|
| Audio/Video & ICTE - Safety Requirements | UL 62368-1             |
| Radiated & Conducted Emissions           | EN 55032 & FCC Part 15 |
| Immunity for ITE                         | EN 55024               |
| Restriction of Hazardous Substances      | RoHS 3                 |

#### INSTALLATION

Refer to installation instructions in the Product User Manual for acceptable use and storage requirements.

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Standard               | Indoors Only                                                             |
| With Conformal Coating | May be installed outdoors when installed inside a weatherproof enclosure |

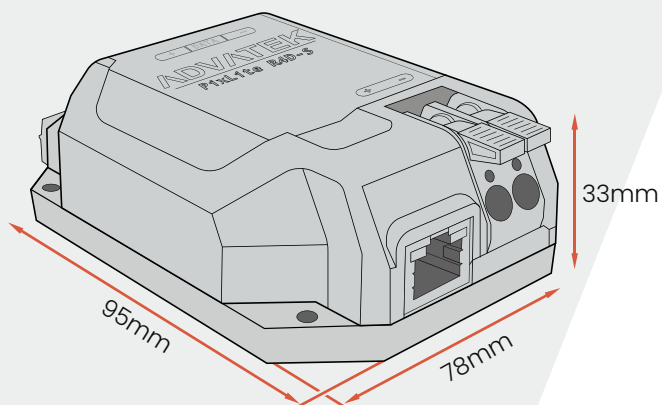
#### PIXEL DATA

#### EXPANDED MODE ENABLED

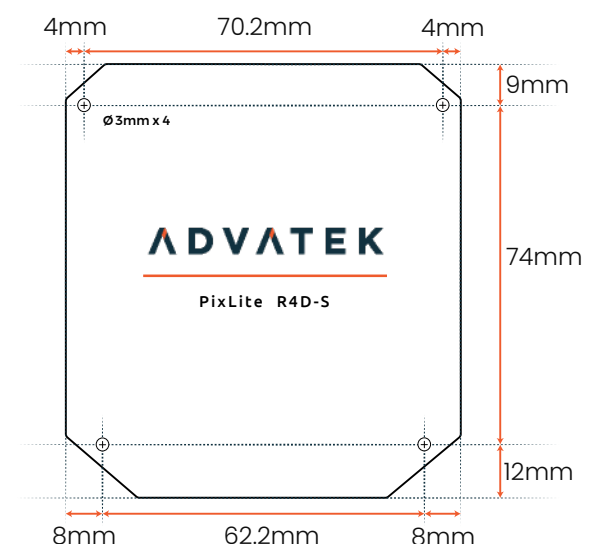
(Limits are set by the configuration of the transmitter)

|                            |     |
|----------------------------|-----|
| Pixel Outputs              | 4   |
| RGB Pixels per Output      | 510 |
| RGBW Pixels per Output     | 384 |
| Universes per Pixel Output | 3   |
| Total Pixel Universes      | 12  |

#### OVERALL DIMENSIONS



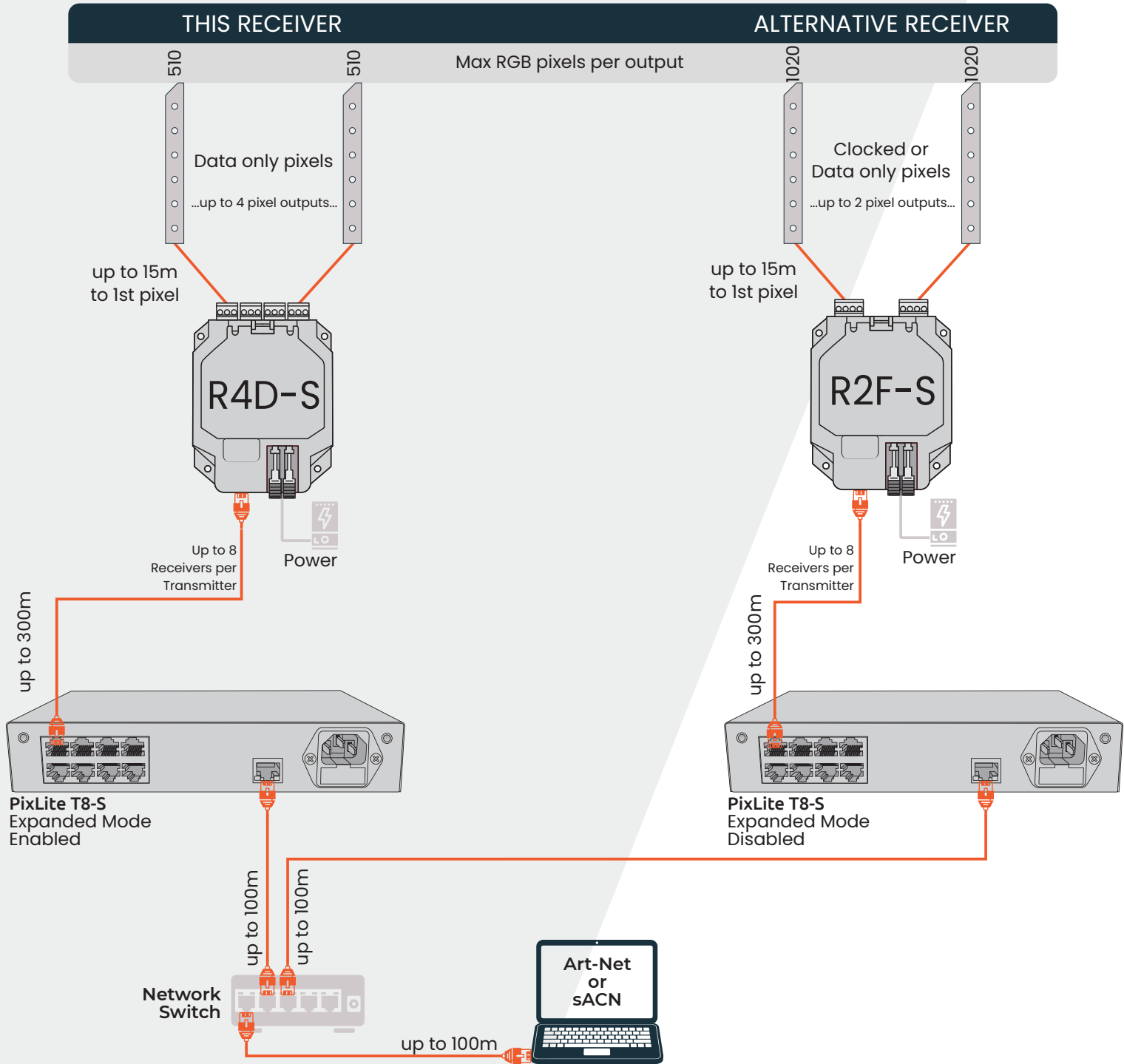
#### MOUNTING DIMENSIONS



# PixLite® R4D-S

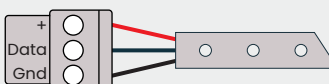
## Long Range Receiver

### TYPICAL WIRING DIAGRAM



### CONNECTIONS TO PIXELS

Pixels ..... Data Only  
Expanded Mode ..... Enabled



### ORDER CODES

PixLite R4D-S ..... PIXR4DS  
PixLite R4D-S with Conformal Coating ..... PIXR4DS-CC  
Din-Rail Mounting Bracket ..... MNT0101