

# Q-TRAN AK1RGB Linear Fixtures Surface Owner's Manual

Home » Q-TRAN » Q-TRAN AK1RGB Linear Fixtures Surface Owner's Manual

# Contents

- 1 Q-TRAN AK1RGB Linear Fixtures
- **Surface**
- **2 Product Information**
- **3 Product Usage Instructions**
- 4 FAQ
- **5 Overview**
- **6 PRODUCT DIMENSIONS**
- **7 DELIVERED LUMENS**
- **8 DIODE VISIBILITY**
- 9 WIRE INPUT/OUTPUT
- **10 CONFIGURATION OPTIONS**
- 11 CONNECTOR/WIRE IN/OUT
- **12 MOUNTING**
- 13 ACCESSORIES
- 14 Documents / Resources
  - 14.1 References



### Q-TRAN AK1RGB Linear Fixtures Surface



#### **Product Information**

#### **Specifications**

• Product: AK1RGB

Watts/Ft: 6.0
CCT: RGB

• Rated Efficiency: Standard

• Lens: Diffused

Wire Input: Bare Wire (Standard 24)Wire Output: Closed End (No feed)

Wire Color: WhiteWire Type: Class 2

• Mounting: Stainless Steel Plastic Clip

• Finish: Satin Black

• Length (in): Exact/Optimal

# **Product Usage Instructions**

### Step 1: Mounting

Attach the provided stainless steel plastic clips to the desired surface. For fixtures that are 4' or less, use 2 clips. For fixtures that are greater than 4', use 4 clips. If additional clips are needed, you can order them separately using SST-03.

#### Step 2: Wiring

Connect the wires to the fixture using the following instructions:

### Wire Input:

The standard wire input is bare wire (standard 24). Connect the white wire to the positive terminal and the black wire to the negative terminal.

### Wire Output:

The standard wire output is closed end (no feed). Connect the white wire to the positive terminal and the black wire to the negative terminal.

#### Note:

If you need a custom wire length, you can request it by writing the desired length next to "BW" in the part number. For example, if you need a 48-inch wire, write "BW48" in the part number.

#### Step 3: Power Supply

Refer to the last page of the manual for compatible power supplies. Make sure to use a Q-Tran power supply for the 5-year warranty to be valid.

#### Step 4: Diode Visibility and Photometric Performance

For representation of LED visibility and beam angles, refer to the Diode Visibility and Photometric Performance sections on the following pages.

#### **FAQ**

### Q: What is the warranty for this product?

A: The product comes with a 5-year warranty. Please note that the warranty is only valid when used with Q-Tran power supplies.

# Q: Can I make modifications to the product in the field?

A: No, field modifications will void the warranty. Please consult a professional if any modifications are required.

### Q: Are there any temperature ratings for this product?

A: The temperature ratings are not specified in the user manual. Please refer to the specifications section for more detailed information.

#### Q: What are the configuration options for wire input/output?

A: The standard configuration is bare wire (BW) for wire input and closed end (CLS) for wire output. No further specifications are needed for these options.

### Q: What wire colors are available?

A: The available wire colors are white and black. Please select the appropriate wire color based on your preference or installation requirements.

#### ARKA-FLAT (01) RGB

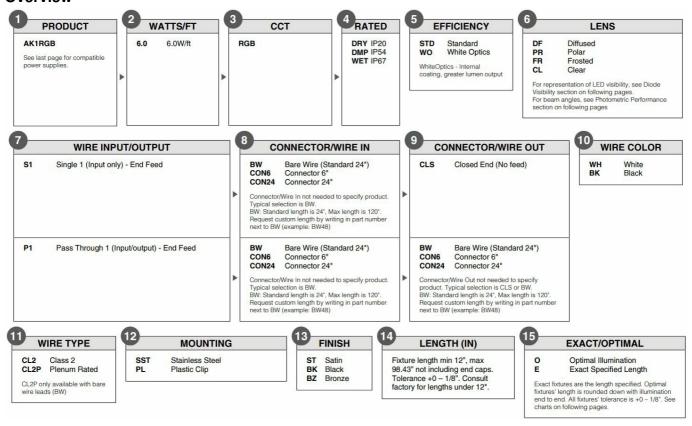
Linear Fixtures - Corner & Surface



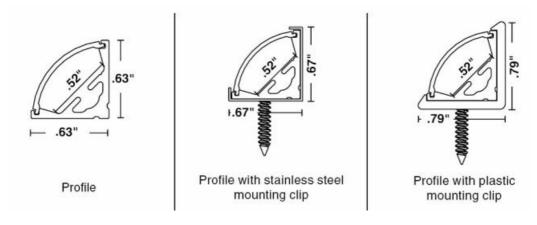
- Produces a wide 130º beam angle perfect for corner mount installations
- Ideal for cove, under cabinet and millwork applications

Sample Part Number: AK1RGB-6.0-RGB-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E

#### Overview



### **PRODUCT - DIMENSIONS**



### **DELIVERED LUMENS**

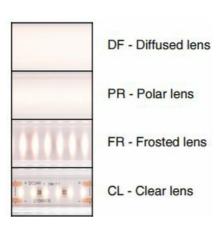
[Calculated L70 = 52000 hrs] Tested with AK1RGB-6.0-RGB-DRY-STD

	Red	Green	Blue
	LM/FT	LM/FT	LM/FT
CL	95	192	54
FR	93	188	53
PR	86	174	49
DF	79	160	45

[Calculated L70 = 52000 hrs] Tested with AK1RGB-6.0-RGB-DRY-WO

	Red	Green	Blue
	LM/FT	LM/FT	LM/FT
CL	102	206	58
FR	101	204	58
PR	106	214	60
DF	108	218	62

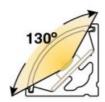
# **DIODE VISIBILITY**



# PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

CL



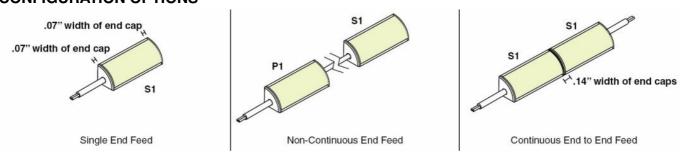
Clear 130°

Light Engine	W/FT	Minimum	Maximum
(LED Strip)		Limit (°F)	Limit (°F)
RGB	6.0	-14	105

# WIRE INPUT/OUTPUT

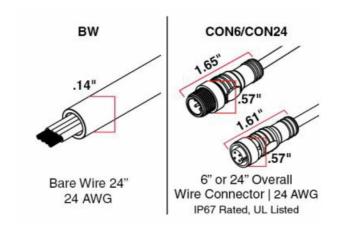


### **CONFIGURATION OPTIONS**

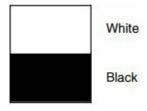


### **CONNECTOR/WIRE - IN/OUT**

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



# **WIRE COLOR**

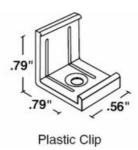


## **MOUNTING**



2 clips provided for 4' or less; 4 clips provided for greater than 4' To order separately use SST-03 Each clip comes with a  $\#4 \times 5/8"$  Flat Head SS

PL



2 clips provided for 4' or less; 4 clips provided for greater than 4' To order separately use PLC-02 Each clip comes with a  $\#4 \times 5/8"$  Flat Head SS

### **EXACT/OPTIMAL FIXTURE LENGTH**

EXAMPLES OF 12" OPTIMIZED STATIC WHITE FIXTURES WITH DIFFUSED LENS

S1 P1

# RGB DRY, DMP LENGTHS BY INCH

Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 - 1/8". Consult factory for lengths under 12".

#### **EXACT LENGTH**

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

**OPTIMAL LENGTH:** highlighted rows are closest to requested nominal length

	S1	P1
Requested Nominal Length	S1	P1 OUT #
	End Feed	End Feed
12"	10.5"	10.75"
13"	12.5"	12.75"
14"	12.5"	12.75"
15"	14.5"	14.75"
16"	14.5"	14.75"
17"	16.5"	16.75"
18"	16.5"	16.75"
19"	18.5"	18.75"
20"	18.5"	18.75"
21"	20.5"	20.75"
22"	20.5"	20.75"
23"	22.5"	22.75"
24"	22.5"	22.75"
36"	34.5"	34.75"
48"	46.5"	46.75"
60"	58.5"	58.75"
72"	70.5"	70.75"
84"	82.5"	82.75"
96"	94.5"	94.75"

# **RGB WET LENGTHS BY INCH**

Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 - 1/8". Consult factory for lengths under 12".

# **EXACT LENGTH**

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

**OPTIMAL LENGTH:** highlighted rows are closest to requested nominal length

	S1	P1
2	S1	P1
Requested Nominal Length	IN	OUT
	End Feed	End Feed
12"	10.625"	10.875"
13"	12.625"	12.875"
14"	12.625"	12.875"
15"	14.625"	14.875"
16"	14.625"	14.875"
17"	16.625"	16.875"
18"	16.625"	16.875"
19"	18.625"	18.875"
20"	18.625"	18.875"
21"	20.625"	20.875"
22"	20.625"	20.875"
23"	22.625"	22.875"
24"	22.625"	22.875"
36"	34.625"	34.875"
48"	46.625"	46.875"
60"	58.625"	58.875"
72"	70.625"	70.875"
84"	82.625"	82.875"
96"	94.625"	94.875"

# **COMPATIBLE POWER SUPPLIES**

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR	OUTDOOR	
DIM TO LEVEL	RGB	RGB	
0.1%	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX	
1%	QTM-eLED+DALI-DT8	QOM-eLED+DALI-DT8	
10%	Non-Dim Power Supply with RGB App Dongle		

DIMMING PROTOCOL	INDOOR	OUTDOOR	
DIMINING PROTOCOL	RGB	RGB	
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX	
DALI-2: DT8	QTM-eLED+DALI-DT8	QOM-eLED+DALI-DT8	
SCENE App Dimmed	Non-Dim Power Supply with RGB App Dongle		

# **ACCESSORIES**

# **COMPATIBLE MOUNTING ACCESSORIES**



### **COMPATIBLE WIRING ACCESSORIES**



# **COMPATIBLE CONTROL ACCESSORIES**



#### © 2023 Q-Tran Inc. All rights reserved |

- 155 Hill St. Milford, CT 06460 |
- 203-367-8777 |
- sales@q-tran.com
- www.q-tran.com

#### **Documents / Resources**



Q-TRAN AK1RGB Linear Fixtures Surface [pdf] Owner's Manual

AK1RGB Linear Fixtures Surface, AK1RGB, Linear Fixtures Surface, Fixtures Surface, Surface

- O Your Name as Your Email | Hover Realnames
- Q\_LED Lighting Systems, Linear LED Lights, LED transformers | Q-Tran
- Q\_LED Lighting Systems, Linear LED Lights, LED transformers | Q-Tran
- <u>User Manual</u>

Manuals+, Privacy Policy