TRAX™
RETICULAR BACKLIGHTING SYSTEM | RGBW
ITEM #: TX1-24-RGBW SERIES (RED, GREEN, BLUE, WHITE)

evo-lite®
ADVANCED LUMINOUS SOLUTIONS

SPECIFICATION SHEET
BACKLIGHTING // RETICULAR LED SYSTEMS // TRAX // RGBW
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTIFICATION

For the latest product updates, specifications, troubleshooting, product handling, installation, and integration advisories, visit www.evo-lite.com.

IP65 · c UL us LISTED · CE · RoHS COMPLIANT · 24V · DIMMABLE

ELECTRICAL

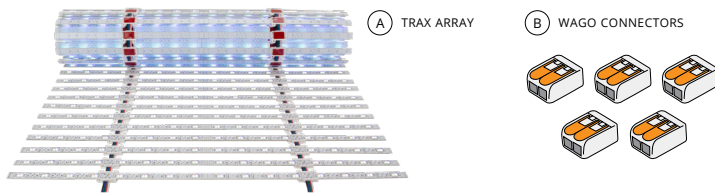|	
Input Voltage	24V DC – Constant Voltage
Power Consumption	86W per Array, 1.34W per bar, 0.021W per LED
Wires	18AWG 5 conductor (black wire positive, red wire (red LEDs), green wire (green LEDs), blue wire (blue LEDs), white wire (5300K))
Connector	Stripped wire ends are 12" (304.8mm) in length x 4
Certification	IP65, cULus Listed (E495221), CE Compliant (EMC and LVD), and RoHS Certified

PHYSICAL

Color Temperature	RGB + 5300K White
CRI	95+ for 5300K
Light Output	Up to 82 lumens per bar / 30 lumens per bar (5300K LEDs only)
Mounting	Direct install with mechanical fasteners through included wire clips. Use the recommended Rail Mounting Kit (sold separately) to improve accuracy, shorten installation time, and reduce labor.
Operating Temp.	-22°F ~+158° F (-30C ~ +70C)
Environment	Wet location (IP65 Rated)
Coverage	Up to 16ft^2 (1.486m^2) per Class 2 guidelines, 0.098ft^2 (0.009m^2) per bar
Cutting Increment	Snappable segments every 0.75" (19mm), see page 2.
TRAX Dimensions	24" x 96" (609.6mm x 2438.4mm)
Bar Dimensions	24" wide by 0.56" tall (609.6mm x 14.2mm)
LED Quantity/Density	64 LEDs per bar, 4096 LEDs per Array
Bar Count	64 bars per Array
Bar Spacing	1.5" (38.1mm) on center
Weight	5.51lb per Array (2.5kg)
Customization Options Available	Voltage, color temperature, IP Rating, LED pitch/placement, LED bar length/spacing/PCB material, pre-mounted layouts, wattage, lumens/brightness. Contact Evo-Lite for more information.

*NEVER CUT OR MODIFY PRODUCT WHILE POWERED.

PACKING

Each RGBW TRAX Array (A) comes sized 24" by 96" with 64 LED bars pre-mounted and pre-wired to wire mounting clips with adhesive backing. Includes 5 wago connectors (B). TRAX is sold as single Arrays and cartons of 10.

Ⓐ TRAX ARRAY   Ⓑ WAGO CONNECTORS

OPTIONAL ACCESSORIES (SOLD SEPARATELY)

RAIL MOUNTING KIT // ITEM #: TX1-M-RMK   `Strongly recommended - see RMK spec sheet`

Each Rail Mounting Kit (RMK) comes with 8 white aluminum 24" Mounting Rails (C), 6 Rail To Rail Connectors (D), 16 Rail Mounting Clips (E), and 4 Rail End Mounting Clips (F).

STANDARD BAR RETENTION CLIPS // ITEM #: TX1-BRC-STD-15

Standard Bar Retention Clips (G) are sold in bags of 10. Use to add extra support to LED bar when not using the rail mounting kit, primarily when LED bars are shortened. See instructions.

DEEP BAR RETENTION CLIPS // ITEM #: TX1-BRC-RMK-15

Deep Bar Retention Clips (H) are sold in bags of 10. Use to add extra support to LED bar when using the rail mounting kit, primarily when LED bars are shortened. See instructions.

FEATURES

Field Customizable	TRAX Array and bar lengths customizable by cutting or snapping. Maintains UL Listing when cut*
Unique Power Distribution Grid	Single LEDs or groups may be removed from any part of TRAX LED bar
PCB Construction	Double FR4 PCB - flame resistant glass-reinforced epoxy laminate
Consistent Light Quality	Tight ANSI bin control LEDs
Energy Efficiency	61 lumens per watt (all channels)
Long Lifespan	50,000+ hours
Advanced 5-Year Warranty	Included. See bottom of next page for details.
Full Integration Support	Included

POWER & CONTROLS

Compatible with full range (100%-0%), flicker-free power and control componenets. Quality tested for low end light output consistency across all LEDs. Please contact Evo-Lite for optimal solutions to fit your requirements.

PRODUCT WIRING & CONTROL ADVISORY

1. The TRAX system's integrated bar to wire connectors have a 4A capacity. Do not exceed the load capacity of these connection blocks in any configuration.
2. To retain Class 2 compliance per UL regulation use one 96W 24V Class 2, LPS, or LVLE power supply / channel per TRAX Array (86W). Best practices include allowing headroom for power supply longevity.

PART	QTY	ITEM #	TRAX RGBW
A	1	TX1-24-RGBW	TRAX Array (24" x 96" / 609.6mm x 2438mm) with 64 LED bars each pre-wired and pre-mounted to wire mounting clips
B	5	–	Wago same polarity, two port splicing connectors
PART	**QTY**	**ITEM #**	**RAIL MOUNTING KIT (SOLD SEPARATELY: TX1-M-RMK)**
C	8	TX1-M-AR-24	24" Mounting Rails. Combine to create two 8 foot sections
D	6	TX1-M-AR-RC	Rail To Rail Connectors
E	16	TX1-M-AR-MC	Rail Mounting Clips
F	4	TX1-M-AR-EMC	Rail End Mounting Clips
PART	**QTY**	**ITEM #**	**STANDARD BAR RETENTION CLIPS (SOLD SEPARATELY)**
G	10	TX1-BRC-STD-15	Standard Bar Retention Clips
PART	**QTY**	**ITEM #**	**DEEP BAR RETENTION CLIPS (SOLD SEPARATELY)**
H	10	TX1-BRC-RMK-15	Deep Bar Retention Clips for use with the Rail Mounting Kit

SUPPLEMENTARY ACCESSORIES
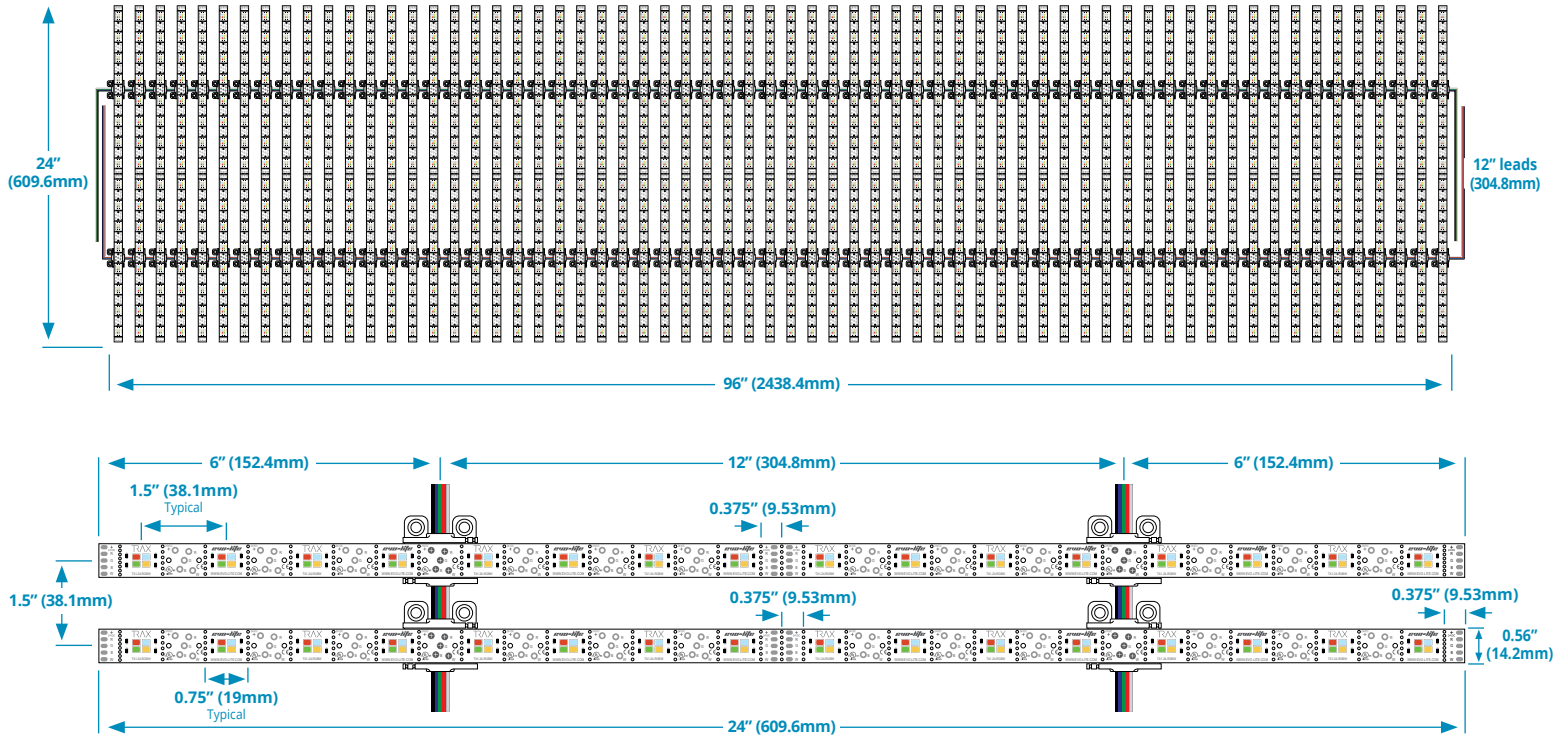
POWER & CONTROLS

Evo-Lite offers a variety of compatible power and control options for our lighting products. Please contact Evo-Lite to explore the appropriate components for your installation.

ADDITIONAL WIRE // ITEM #: 18-6-7-CMP

18AWG, 6 conductor, CMP Rated wire (plenum rated). Sold by the foot.

TECHNICAL DRAWINGS

TRAX RGB + WHITE

Overall TRAX Array Size: 24" x 96" (609.6mm x 2438.4mm). Not to scale.

SPECIFYING TRAX

DYNAMIC COLOR (RGBW, NON-LENSED)

ITEM NUMBER	DESCRIPTION
TX1-24-RGBW	RGB + 5300K White

OTHER AVAILABLE OPTIONS

TUNABLE WHITE (TW, NON-LENSED)

ITEM NUMBER	DESCRIPTION
TX1-24-TW	2700K – 6500K Tunable White

SINGLE COLOR WHITE (SCW, NON-LENSED)

ITEM NUMBER	DESCRIPTION
TX1-24-27	2700K
TX1-24-30	3000K
TX1-24-35	3500K
TX1-24-41	4100K
TX1-24-53	5300K

SINGLE COLOR WHITE WITH LENS (SCWWL)

ITEM NUMBER	DESCRIPTION
TX1-24-27-L175	2700K with 175° lens
TX1-24-30-L175	3000K with 175° lens
TX1-24-35-L175	3500K with 175° lens
TX1-24-41-L175	4100K with 175° lens
TX1-24-53-L175	5300K with 175° lens

TRAX CUSTOMIZATION OPTIONS

Evo-Lite can customize TRAX to meet your exact specifications while maintaining the UL Listing. Minimum order quantities apply.

CUSTOMIZE:

• Voltage
• Specific color temperatures
• IP Rating
• LED pitch and placement
• Bar length, spacing, and PCB material type
• Pre-mounted to quick install substrates
• Wattage / energy-efficiency
• Lumens / brightness

Contact Evo-Lite with customization requests.

This specifications sheet is specifically designed for TRAX RGBW.
Please consult our other specification sheets for TRAX Single Color White, Single Color White With Lens, and Tunable White.

This product comes with an advanced 5-year warranty. Please review section 19 of *Terms & Conditions of Sale* at evo-lite.com/legal-documents/#TermsSale