

Key Features



6X Brightness



User Customizable Spacing



Epoxy Sealed Electronics



Low Profile



4 Corner Mounting Holes



Full-color **RGB** pixels



Dust and Water Resistant



24 Month Warrantv

ETL Listed

RoHS Compliant

Intertek

Many Applications

- Light Shows
- Signage
- Building Facades
- Trade Shows
- Retail Interiors
- · Concerts and Events
- Decorative Elements
- Architectural Accents
- High Brightness Video Installations

Further Reading

Visit us online for the most up-to-date product information:

www.VividRGBlighting.com

Chip6X Customizable Inline RGB Modules



Introducing Chip6X

Brighter and more flexibility is what you asked for, and Chip6X answered the call. Chip6X from Vivid RGB Lighting allows you to choose your own path! Build these strings in your own shop to your desired specifications or let Vivid RGB Lighting build them for you.

Chip6X module housing, Vivid Wire and PCB boards are available in black or white. We also offer a variety of lens options: clear, white translucent flat, and the ever-popular dome. Just choose and snap, and change it later!

Field replaceable modules!

We'd love to tell you that you'll never have a concern with one of our modules but we didn't grow a great product line and outstanding customer service by lying. However, if you do have a failure in the field - the Chip6X are field replaceable!

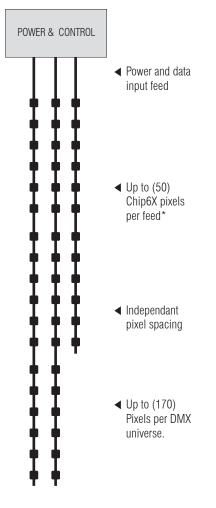






Chip6X Customizable Inline RGB Modules

System Overview



* More than (50) pixels per home run maybe possible in

some circumstances.

Revised 06/09/2021

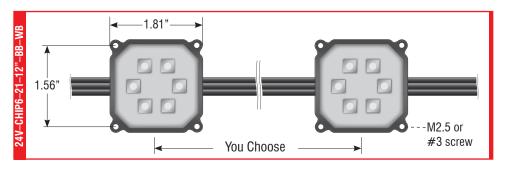


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Standard Configuration You create the standard!

We have broken the convention that you can't have what you want. With Chip6X, you choose the spacing, you build to your specification!



Technical Specifications*

OUTPUT	LUMEN MAINTENANCE	50,000+ hours
	LED CHANNELS	Red, Green, & Blue
	GRAYSCALE	256, 8-bit
ELECTRICAL	INPUT VOLTAGE	24V DC
	POWER	1.5W / pixel
CONTROL	INTERFACE	1-Wire DMX512
	CONTROL SYSTEM	ADS, VPD, Color Mimic, or compatible third-
		party DMX controller
PHYSICAL	TEMPERATURE RANGES	-20°C - 50°C / -4°F - 122°F
	HUMIDITY	Any
SAFETY	ENVIRONMENT	Dry & damp, water resistant; IP66

*Due to continuous improvements and design innovations, specifications subject to change without notice.

Build-to-Order Configurations

Our stocking version of the **Chip6X** is a White PCB with Black Housing and Clear Snap Lens. Stock Order Code: VRGB-C6X-WB-C

We also offer pre-made strings with custom spacing built exactly to your project needs.

Options Include

PCB Color: White (W) or Black (B) Housing: Black (B) or White (W) Lens: Clear Flat (C), Translucent White Flat (W), or Translucent White Dome (D) Vivid Wire: Black (VWB) or White (VWW)



Typical Wiring Instructions

CHIP6X

1

12

24

48

96

170

340

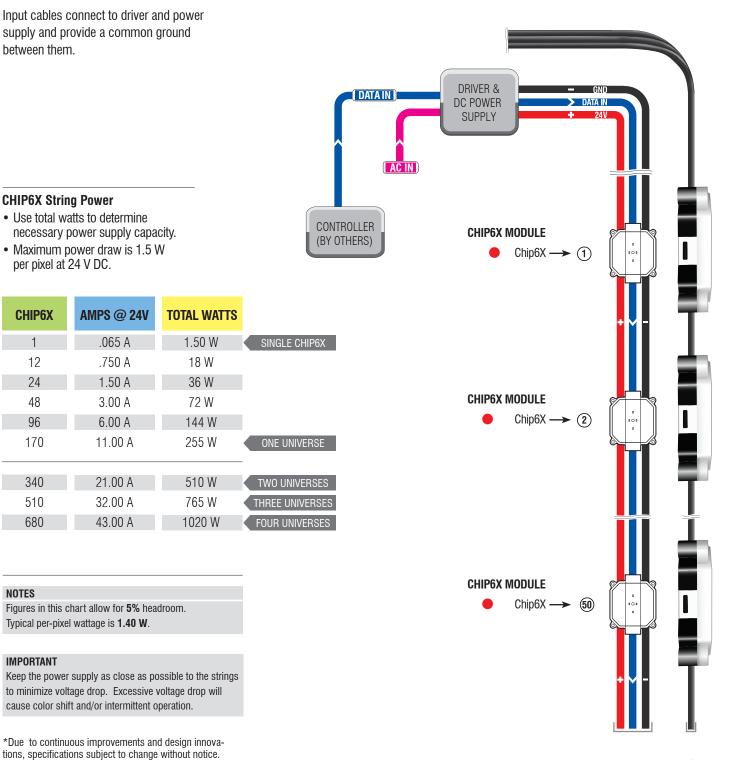
510

680

NOTES

IMPORTANT

Input cables connect to driver and power supply and provide a common ground between them.



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Installation Guide

Step 1: Determine your layout

The cable for the Chip6X is designed for easy customization of module spacing. The cable is labeled with a marking every 1.5 inches to simplify the hole punching process.

NOTE

Due to the stamping process, the marks may not be exactly 1.5" - if your project requires exact spacing, please confirm with the actual cable being used.

Step 2: Punch Hole -----

Using the hole in the specialized hole punch tool, visually line up the desired location of the module, squeeze the handles of the punch together, and the punch will perforate the cable.

NOTE

The cable can be inserted from either side of the cable. However, please ensure cable is fully seated and aligned before punching hole, it is not possible to repair a mis-punched hole!*

Step 3: Add Silicone

Place a <u>small</u> dab of silicone (smaller than size of a dime) to cover the exposed insulation displacement pins on the bottom of the Chip6X housing to provide a water resistant seal. MORE is NOT better - too much will prevent proper tightening of the screws.

NOTE

The silicone is not required for all projects, but its helps prevent water from corroding the cable and electrical connection pins and is recommended for outdoor projects.

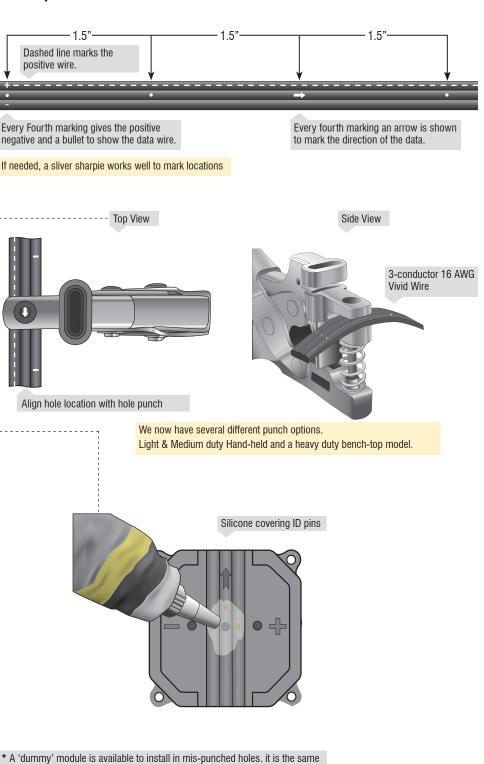
Tools Required



VIVID-PUNCH

Chip6X Customizable Inline RGB Modules

Assembly Illustrations



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size as a full module, but only contains a jumper bar to bridge the data line.



Chip6X Customizable Inline RGB Modules

Installation Guide cont.

Step 4: Align Chip6X -----

After perforating the cable, confirm proper orientation of the +/- symbols with the wire. Line up the post on the inside of the Chip6X housing with the hole and lightly push cable into place so the 4 pins perforate the wire.

NOTE

Installing a Chip 6X in reverse will not damage the module. However, that module and all modules after, will blink, flash or not work.

Step 5: Attach Chip6X -----

Place the wire into the grooves on the front and back panel. Fit wire over silicon and Attach the cap, insert screws and tighten.

When properly assembled, the back ______ panel will be flush with the rest of the fixture housing. Do not over tighten!

Step 6: Four Corner Mounting Holes -----

Use a 2.5m screw on the four corner mounting holes to install the lights.

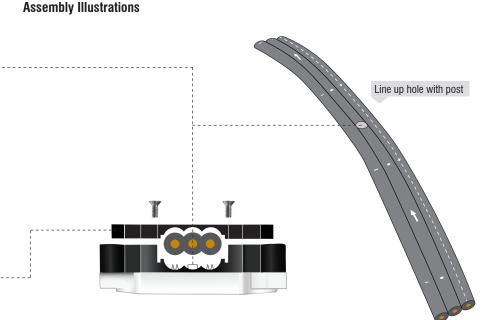
NOTE

The mounting holes fit a #3 or 2.5mm screw or smaller. These are available from Mcmaster Carr or other online stores at various lengths.

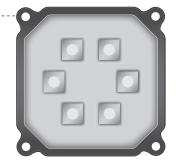
Depending on the installation, two screws maybe sufficient to hold the Chip6X in place.

Step 7: End Cap

A silicone end cap is also available to place on the end of the cable. Simply fill the cap with silicone and attach it at the end of the cable to seal from water.











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