

Chip6X Dome Customizable Inline RGB

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
Warranty



ETL Listed
RoHS Compliant

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



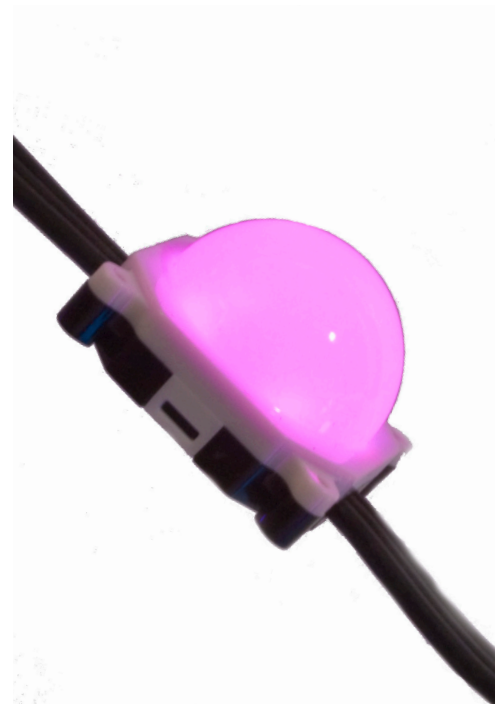
Introducing Chip6X Dome

Chip6X Dome is for Designers looking for dimension. **Chip6X Dome** 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.

This clip-on dome will also fit perfectly on our **Chip3X** modules adding to our variety of lens options: clear, white translucent flat, and now the ever-popular dome. Just choose and snap, and change it later!

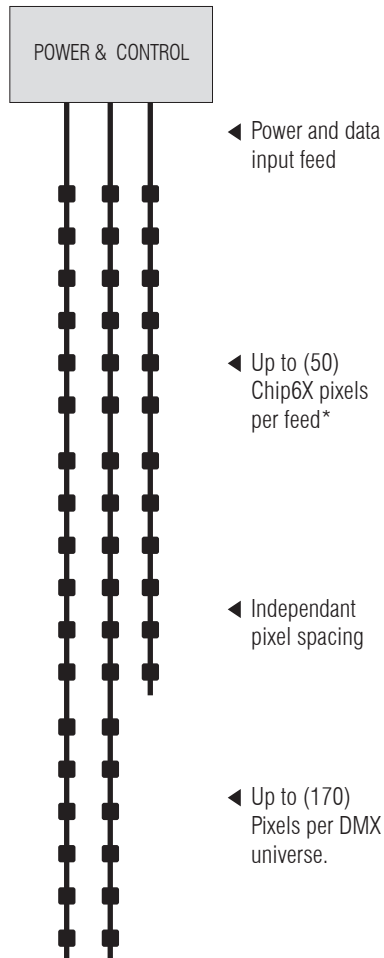
Field replaceable modules!

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 Dome** are field replaceable!



Chip6X Dome Customizable Inline RGB

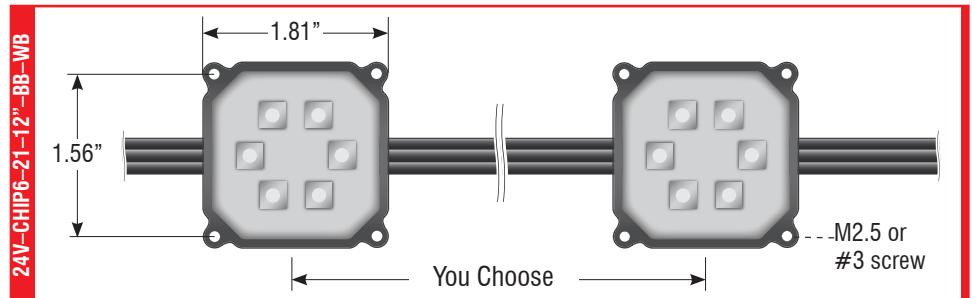
System Overview



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

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
	GRAYSACLE	256, 8-bit
ELECTRICAL	INPUT VOLTAGE	24V DC
	POWER	1.25W / pixel
CONTROL	INTERFACE	1-Wire DMX512
	CONTROL SYSTEM	DSD, 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-CHIP6X-WB-C

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

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

CHIP6X String Power

- Use total watts to determine necessary power supply capacity.
- Maximum power draw is 1.5 W per pixel at 24 V DC.

FESTO	AMPS @ 24V	TOTAL WATTS	
1	.065 A	1.50 W	SINGLE CHIP6X
12	.750 A	18 W	
24	1.50 A	36 W	
48	3.00 A	72 W	
96	6.00 A	144 W	
168	10.50 A	250 W	ONE UNIVERSE
336	21.00 A	500 W	TWO UNIVERSES
504	31.50 A	750 W	THREE UNIVERSES
672	42.00 A	1000 W	FOUR UNIVERSES

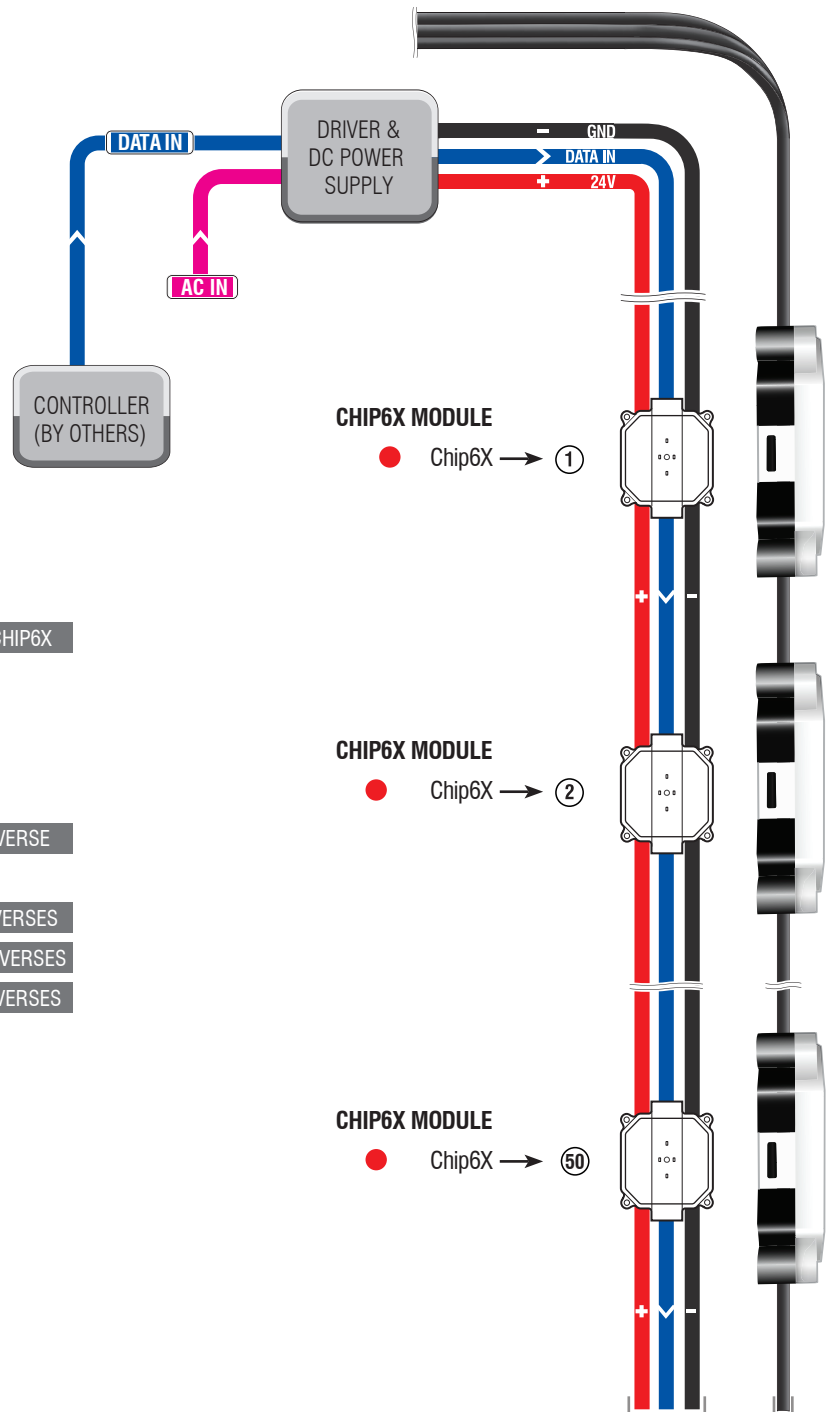
NOTES

Figures in this chart allow for 5% headroom.
Typical per-pixel wattage is 1.40 W.

IMPORTANT

Keep the power supply as close as possible to the strings to minimize voltage drop. Excessive voltage drop will cause color shift and/or intermittent operation.

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Installation Guide

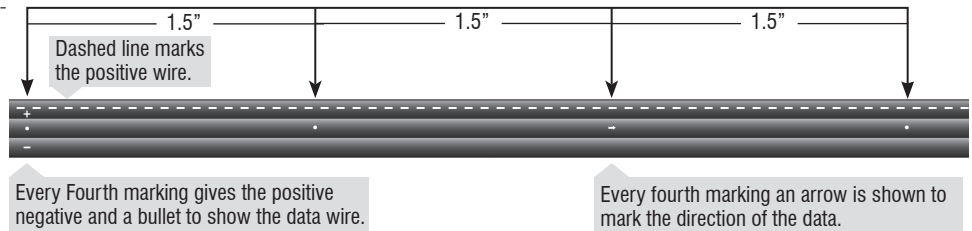
Step 1: Determine your layout

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.

Assembly Illustrations

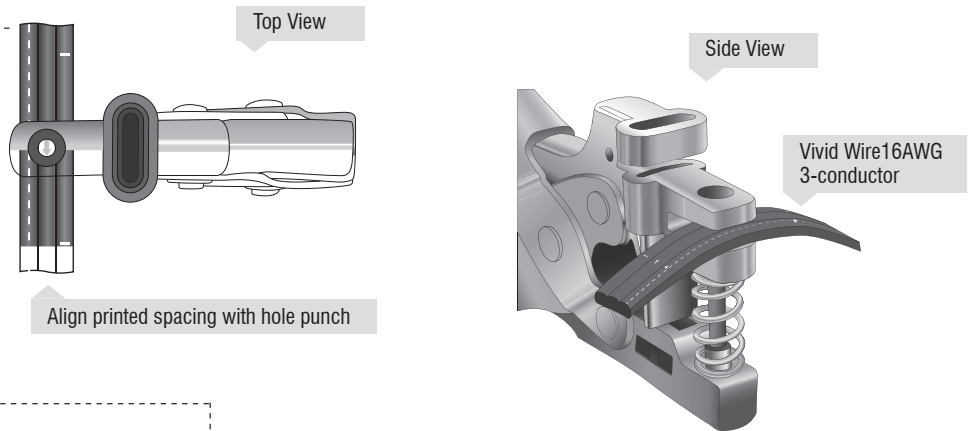


Step 2: Punch Hole

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

Ensure cable is fully seated and aligned before punching hole, it is not possible to repair

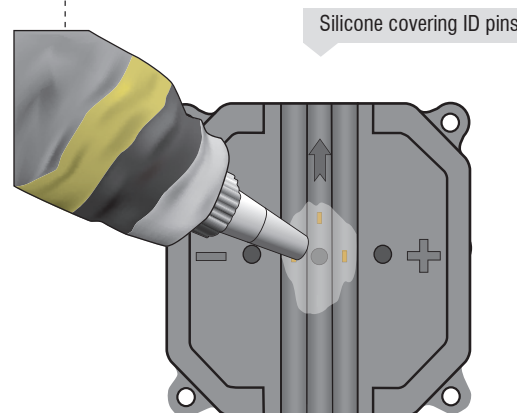


Step 3: Add Silicone

Place a small bead of silicone (the size of a dime) to cover the exposed insulation displacement pins on the bottom of the Chip6x housing to provide a water resistant seal.

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



Installation Guide cont.

Assembly Illustrations

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 Chip 6X 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 may be 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.

