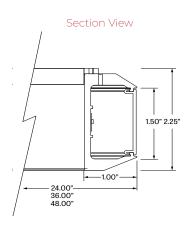
RIM VFRS

ACOUSTIX - CHROMAWERX DUO. SOLA AND QUADRO







Rim Verso Acoustix combines generous ambient illumination with elegant geometry. The 2" high extruded aluminum frame is formed and finished into a seamless ring that can be painted in a wide range of standard and custom colors. The driver installs remotely, either above or below the ceiling. Three-to-four point suspension is available in an ultra-clean integrated power-over-cable option. Rim Verso Acoustix is available in three diameters: 24", 36" and 48". It is available for Chromawerx SOLA, DUO and QUADRO. Static White is also available, see separate spec sheets.

LUMENWERX

Order Guide

LUMINAIRE ID	SIZE	OPTICS	LIGHT SOURCE	CRI	LUMEI	N PACKAG	ES			VOLTAGE
RIMVACORP		ULO		90						
RIMVACORP - Rim Verso Acoustix Round Pendant	24 - 24" diameter 36 - 36" diameter 48 - 48" diameter	ULO - Uniform Lambertian optic	DUO - Tunable white 2-channel control 27K to 65K SOLA - Dim-to-warm single- channel control 22K to 35K QUADRO- four-channel RGB with 3500K/90CRI	90 - 90CRI	Ø 24* Ø 36* Ø 48*	SOLA & D Low L2000lm L3000lm L4000lm	Medium M3000lm M4500lm M6000lm	High H4000lm H6000lm H8000lm	QUADRO* 27W - 27W output 40W - 40W output 54W - 54W output packages over 4500lm.	120 -120V 277 - 277V UNV - 120V-277V

DRIVER	ELECTRICAL	MOUNTING					
	1						
SOLA	1 - 1 circuit	DRIVER BOX	CANOPY FINISH	POWER	MOUNTING POINTS	HEIGHT	
DA ² - DALI 0-10V - Single 0-10V input DUO		RDB - Remote driver box	AL - Aluminum B - Matte black W - Matte white CF# - Custom	BAC - Black power cord + aircraft cable WAC - White power cord + aircraft cable	SC - Single canopy MC ³ - Multiple canopies ³ 3 canopies for Rim 24".	canopy to the	nce from the e fixture in inches anopy option, the
DA ² - DALI 0-10V - Dual 0-10V input for CCT/Intensity			finish specify RAL#	Cord + all craft cable	and 4 canopies for Rim 36" and Rim 48".	_	ounting heights are:
DMX ² - DMX with remote driver only (to specify see pages 8 to 14) QUADRO						Ø 24" Ø 36"	min height 18.5" min height 29"
DMX ² - DMX with remote driver only (to specify see pages 8 to 14)						Ø 48"	min height 39.25"
² On-site commissioning is required.							

FIXTURE FINISH	FELT COLOR	FELT COLOR				
AL - Aluminum	STANDARD COLORS	PREMIUM COLORS 5	DUO			
B - Matte black W - Matte white	FWN LVN	PKN CDN IVN BHN	WCW - Wall controller white WCB - Wall controller black			
CF# - Custom finish specify RAL#	FON EN LEN	OGN LCN SLN CFN	QUADRO			
Titilist'specify RAL#	ION CYN	LNN SYN CNN GRN	WCIW - Wall controller 1 white			
	TBN PMI	LMN BLN GHN MON	WC1B - Wall controller 1 black WC2W - Wall controller 2 white			
	MDN FGN	EGN NVN CLN ESN	WC2B - Wall controller 2 black			
	⁵ Please consult factory for more color options. Lead time may vary.	To specify see pages 8 to 14.				





ACOUSTIX - CHROMAWERX DUO. SOLA AND QUADRO









Standard Color Options





















Premium Color Options*



















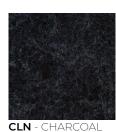






















*Please consult factory for more color options. *Lead time may vary.













LUMENWERX Project:





Mounting Options

RDB - REMOTE DRIVER BOX

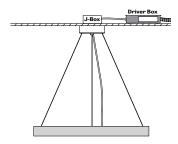
RDB -Remote Driver Box - driver is in a 26"x4"x5.5" enclosure with brackets for mounting to ceiling joists, runners, or other supporting members. The 5 1/2" diameter x15/8" deep wiring compartment canopy conceals and supports suspension and power cables. It is available in standard finishes (see ordering code). It can be installed in drywall or grid ceilings.

Note: Support hardware is not supplied.

SC - SINGLE CANOPY



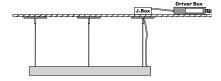
Shown with POC option Also available with AC.



MC - MULTIPLE CANOPIES



Shown with POC option. Also available with AC.



The multiple canopy option, available with Remote Driver Box only, allows the fixture to be installed closer to the ceiling compared to the single canopy option. Three canopies are provided for Rim 24", and four canopies are provided for Rim 36" and Rim 48".











LUMENWERX





ACOUSTIC CALCULATOR

Using the Lumenwerx Acoustix Value Calculator table, you can determine the number of acoustic luminaires required in a space by fixture type. We have three levels of recommended sound reduction: good, better, and best. Choosing one of these options will reduce the sound accordingly. The best option indicates the best acoustic improvement. Calculations are based on a standard ceiling height of 9 feet.



- \bigcirc Calculate the square feet of your room (L x W).
- (2) Choose the level of acoustical improvement you are looking for, and find the corresponding value based on your room dimension and luminaire configuration.

% in reduction in reverberation time						
(GOOD	25%				
99	BETTER	40%				
000	BEST	50%				

	Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
SIZE	GOOD <u></u>	BETTER	BEST ① ① ①	GOOD <u></u>	BETTER	BEST
24"	18	9	6	28	14	9
36"	42	20	14	65	32	22
48"	75	38	25	120	59	41

(3) Use the Lumenwerx Acoustix Value Formula to determine the number of luminaires needed in the room.

Square feet ÷ Value = Number of luminaires

Example:

Luminaires: Rim Verso Acoustix, 48" diameter Room square feet: L: 20 ft x W: 18 ft = 360 sq ft **Desired acoustical improvement:** Better = 59

Number of luminaires needed in the room: 360 ÷ 59 = 7 luminaires

NOTES:

- You can mix lit and blank fixtures.
- Lumenwerx acoustic calculators were developed to act as a guide. For precise acoustic performance in a space, please consult an acoustician.







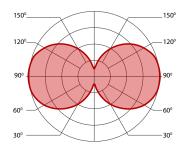




Project:

Technical Specifications

Uniform Lambertian Optic (ULO) - Thermoformed from impactmodified white PMMA, the ULO provides even luminosity, with up to 88% transmission. Combined with the LED array running around the inside of the housing, the open form and ULO create a widespread 50% direct and 50% indirect light distribution with spacing criteria of 1.6.



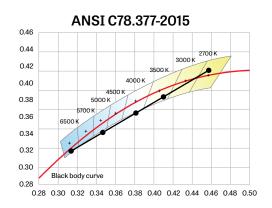
HROMAWERX

CHROMAWERX - SOLA and DUO

Custom linear array of alternating color temperature mid-flux LEDs are mounted directly to the housing for optimal thermal performance. For the DUO products, a color temperature range from 2700K - 6500K is achievable with color points on or below the black body curve. For the SOLA products, a color temperature range from 2200K - 3500K is controlled synchronously with intensity. Color consistency between fixtures is maintained within 3 SDCM. LEDs are operated at a reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance are greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

Chromawerx SOLA is a single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control sends a common signal to dual output digital drivers, which are programmed to adjust a specially populated LED array to emulate the effect of dimming a filament source. Dimming range is programmable but the default option runs from 3500K at 100% of full power to 2200K at 5% of full power. CRI is maintained above 80 throughout the dimming range.

Chromawerx DUO is a two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI) protocol for synchronous control of both warm and cool LED arrays to enable the user to set color temperature and light output. Commonly called "tunable white", Chromawerx two-channel control provides the range of warm (2700K) to cool (6500K) color that can be useful for helping to entrain circadian rhythms, stimulate alertness for improved educational and work productivity, and compensate for jet lag, among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures. CRI is maintained above 80.



LUMENWERX



CHROMAWERX - RGBW

Chromawerx QUADRO is a four-channel control that operates an RGBW LED array and addresses the need for more expressive color in architectural applications. The DMX driver supports familiar programming tools for both dynamic multi-hued color and precise white color point control. While a typical user interface will be a DMX controller by others, Lumenwerx also offers a simple control station for standalone color changing applications.













Technical Specifications

ELECTRICAL REMOTE

All remote drivers are furnished with factory enclosure for recessed installation in drywall and grid ceilings.

0-10V (SOLA and DUO):

Driver features factory-set adjustable output current with 120-277V AC line input. Dimmable from 100% to 1%. Rated life (90% survivorship) is 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. 0-10V 1% Driver performance at maximum load, efficiency > 84%, Power Factor > 0.9, THD < 20%.

DALI (SOLA and DUO):

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using an existing DALI control system (supplied by others), one control channel adjusts the fixture color temperature, and the other control channel adjusts fixture brightness. Dimming range from 100%-0%. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

DMX (QUADRO and DUO):

Factory-set, adjustable output current, multi-channel LED driver with universal (120-277VAC) input. Using DMX wall controls (optionally supplied by Lumenwerx) or an existing DMX control system, either two channels of LEDs (warm-white & cool-white) for DUO or four channels of LEDs (Red/Green/Blue/White) for QUADRO are independently adjustable. Each DMX driver has multiple output channels that can be independently addressed at the factory or on-site using built-in RDM (Remote Device Management) functionality. Dimming range from 100%-0%. At maximum driver load, efficiency<89%, PF>0.9, THD<20%.

WEIGHT

Rim Verso Acoustix 24 - 6.17lbs - 2.80kg Rim Verso Acoustix 36 - 9.25lbs - 4.20kg Rim Verso Acoustix 48 - 12.34lbs - 5.60kg

CONSTRUCTION

Housing - Rolled and seamlessly welded aluminum extrusion, wide variety of colored powder coating

Diffuser - Uniform Lambertian optic, co-extruded flexible polycarbonate satine finished lens

FINISH

Interior - 95% reflective, matte white powder coating Exterior - matte white, matte black or aluminum powder coating. Custom finishes are also available.

ACOUSTIC FINISH

Material is 100% polyester containing up to 50% of recycled plastic bottles (PET) with an ASTM E-84 Class A fire rating and is moisture resistant.

CARE

Remove dust and debris with a clean, dry, soft, lint-free cloth, or vacuum.

LUMENWERX

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

ENVIRONMENT

Ambient temperature at fixture location shall not exceed 30°C/86°F. For indoor use only.

WARRANTY

Lumewerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website. Wall controllers are covered by the manufacturer warranty.







RIM VER ACOUSTIX - CHROMAWERX DUO,

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IMENWERY







WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature LO4 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

SOLA AND OUADRO

- Feature 54 or LO3 when DUO is selected
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Sound - This luminaire is recommended for use as an acoustical absorption surface to limit reverberation times (RT) in a given space. This luminaire contributes to noise reduction and vibration dampening to promote focus and concentration. Reverberation needs to be calculated in each space based on the materials used.



WELL for Mind (SOLA and DUO only) -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, smooth optics, and a sound diminishing element. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information please contact well@lumenwerx.com.









_UMENWERX

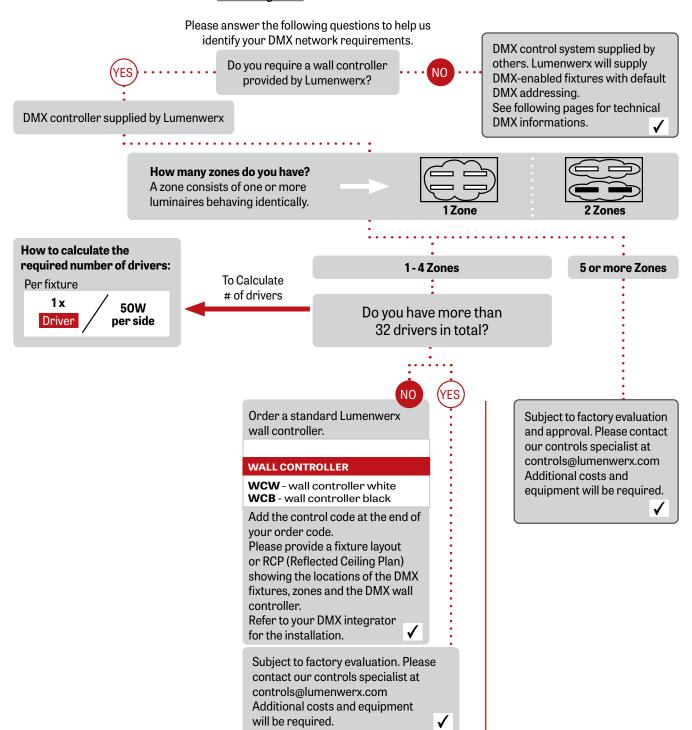




CHROMAWERX TUNABLE WHITE AND DIM TO WARM

DUO DMX SPECIFICATION

A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the contact information of your DMX integrator.













LUMENWERX

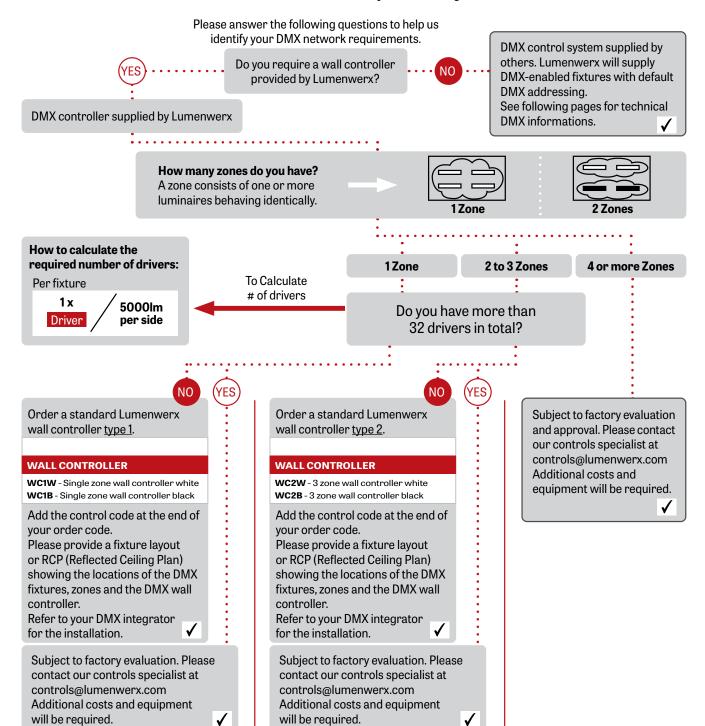




CHROMAWERX QUADRO - RGBW

OUADRO DMX SPECIFICATION

A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the contact information of your DMX integrator.













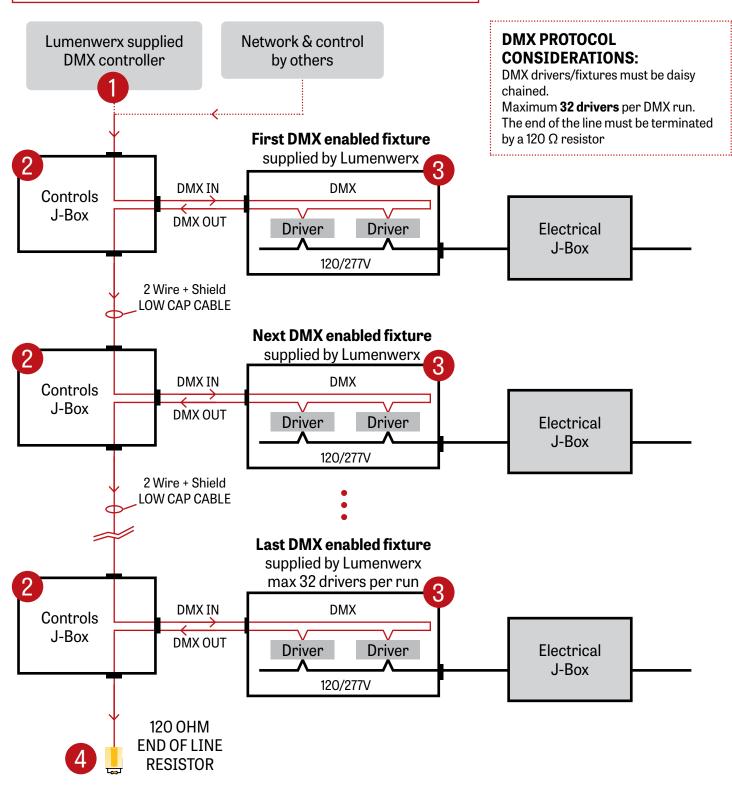
ACOUSTIX - CHROMAWERX DUO. SOLA AND OUADRO



Type:

LUMENWERX

GENERIC DMX NETWORK ARCHITECTURE









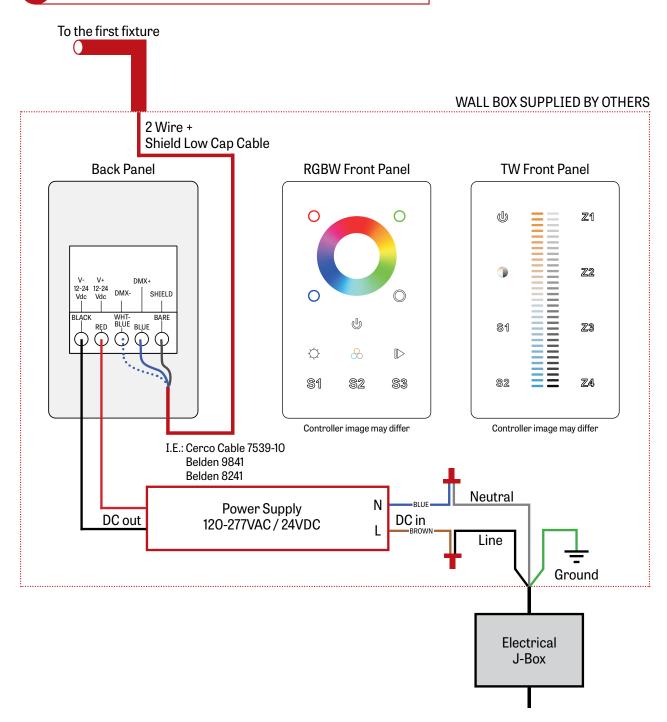
SOLA AND QUADRO

LUMENWERX



CHROMAWERX TUNABLE WHITE AND RGBW

LUMENWERX SUPPLIED DMX CONTROLLER









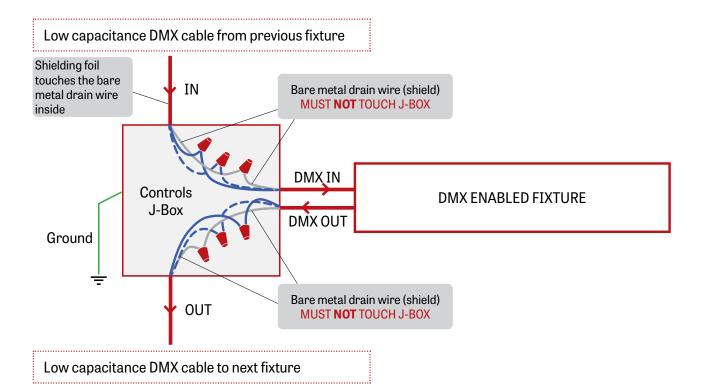
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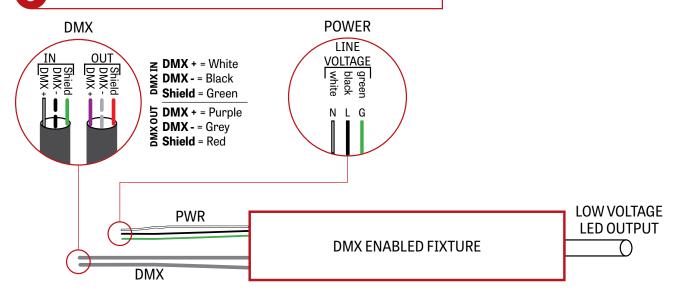


CHROMAWERX TUNABLE WHITE AND RGBW

J-BOX DMX DAISY CHAIN DETAIL



DMX CONNECTION PENDANT & WALL REMOTE DRIVER









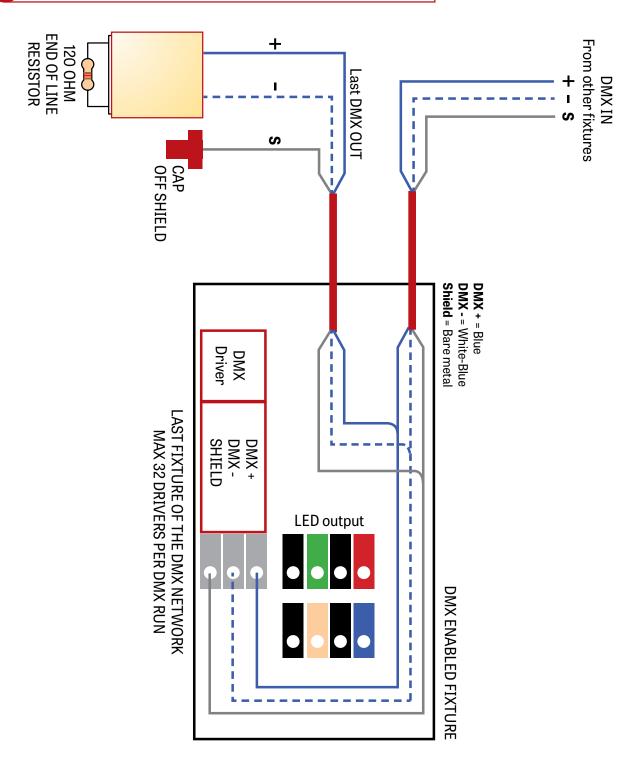


LUMENWERX

ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO



DMX LAST FIXTURE DETAIL









ACOUSTIX - CHROMAWERX DUO. SOLA AND OUADRO







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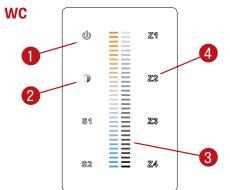
CHROMAWERX TUNABLE WHITE AND RGBW

DMX WALL CONTROLLER - TUNABLE WHITE

Default DMX Addresses:

1. WARM

2. COOL



(1) Power: Use this button to turn ON or OFF the fixture.

(2) Brightness/CCT: Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected; when

Yellow: color is selected.

(3) Slider: Depending on the mode chosen in step 2, the slider will allow

the user to set desired color or brightness.

Up to 4 zones can be selected, either independently or (4) Zone select:

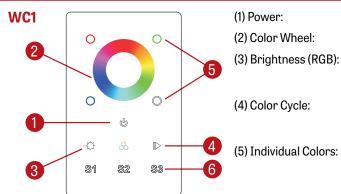
together. Once selected, the commands will be sent to the

zone identified by a Blue LED.

DMX WALL CONTROLLER - RGBW

Default DMX Addresses:

1. RED 2. GREEN 3. BLUE 4. WHITE



(1) Power:

Use this button to turn ON or OFF the RGBW fixture.

(2) Color Wheel:

The wheel is used to rapidly select a color (RGB colors only).

Hold down this button to either increase or decrease the brightness of the current RGB selection. White will not be

affected by the RGB brightness button.

(4) Color Cycle: This button will start an animation, rotating between reds,

greens, and blues, the arrows allow the user to speed up or

slow down the animation.

(5) Individual Colors:

By pressing and holding a color, it will be possible to brighten

or dim it. Quickly pressing a color will either turn it OFF or

turn it ON to its previous dim level.

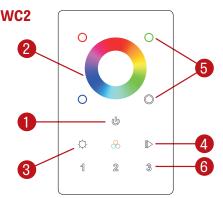
White: In order to activate or deactivate and dim the White

channel, the White button needs to be used.

(6) Scenes: By holding down one of the scenes button, the current

color selection is saved. It can be later accessed by quickly

pressing on one of the Scene buttons.



(1) Power:

Use this button to turn ON or OFF the RGBW fixture.

(2) Color Wheel: (3) Brightness:

The wheel is used to rapidly select a color (RGB colors only).

Hold down this button to either increase or decrease the brightness of the current RGB selection. White will not be

affected by the RGB brightness button.

(4) Color Cycle:

This button will start an animation, rotating between reds, greens, and blues, the arrows allow the user to speed up or

slow down the animation.

(5) Individual Colors:

By pressing a color, it will be possible to brighten or dim that

specific color.
White: In order to activate or deactivate and dim the White

channel, the White button needs to be used.

By holding down one of the zone buttons, a zone can be

selected and controlled.



(6) Zone:







