



tetra control 2

INTERACTIVE REAL-TIME
DMX LIGHTING CONTROLLER







INTRODUCTION

The Tetra Control 2 is a preprogrammed DMX lighting controller designed to automatically enhance any performance or ambient setting that incorporates wash lights, effects lights and moving heads, while also providing intuitive real-time control, custom settings and hands-free operation. This controller also comes with a port for a VenueLink dongle that allows it to transmit wireless DMX commands to compatible VenueLink devices.

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BEFORE YOU BEGIN

What Is Included

- Tetra Control 2
- Mic Stand Mount
- Power Adapter
- User Manual
- Color Options/Mood Guide

Unpacking Instructions

Carefully unpack the carton, then check the contents to ensure that all parts are present and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping, or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.




Manual Conventions

Venue® manuals use the following conventions to differentiate certain types of information from the regular text.

CONVENTION	MEANING
<Cycle>	Knob or button to be utilized on the controller's Control Panel
1~512	Range of values
50/60	Set of values of which only one can be chosen
Settings	Menu option not to be modified
MENU > Settings	Sequence of menu options to be followed
ON	Value to be entered or selected

Icons

This manual uses the following icons to indicate information that requires special attention on the part of the user.

ICONS	MEANING
	This paragraph contains critical installation, configuration or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, cause damage to the fixture or cause harm to the user.
	This paragraph contains important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This paragraph reminds you of useful, although not critical, information.

SAFETY INSTRUCTIONS



Please read these instructions carefully. It includes important information about the installation, usage and maintenance of this product.

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference, and
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

- Please keep this User Manual for future reference.
- Make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only! To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20" (50 cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from the power source before servicing or replacing the fuse, and be sure to replace with same type fuse.
- Secure fixture to included safety loop using a safety chain.
- Maximum ambient temperature is 104° F (40° C). Do not operate the fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit yourself.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Never carry the fixture directly from the cord. Always use the hanging/mounting bracket.
- Avoid direct eye exposure to the light source while it is on.

INTRODUCTIONS

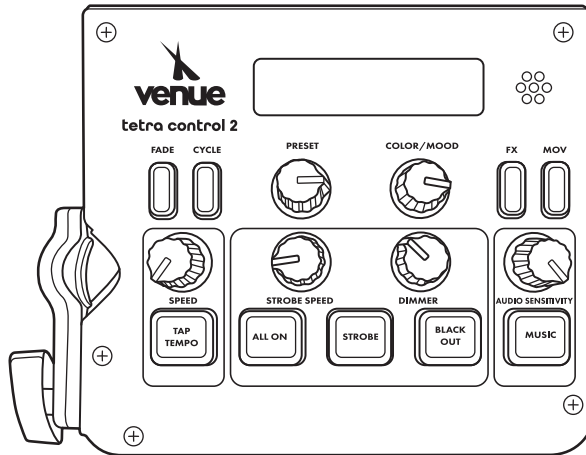
Control Features

- Compact, pre-programmed DMX controller for LED fixtures.
- Controls up to 7 separate lighting banks (4 wash lights, 2 moving heads, 1 effect light).
- Includes 31 different preprogrammed lighting chases, or “presets.”
- Includes 20 different color palettes, or “moods.”
- “Cycle Mode” automatically switches between different moods & presets.
- Manual speed controls, internal microphone, and audio-in jack for additional tempo options.
- Backlit real-time control buttons for Cycle, Fade, Tap Tempo, Sound-Active Operation, All On, Strobe, Blackout, Moving Head toggle and Effect Light toggle.
- Real-time control knobs for Preset, Mood, Speed, Strobe Speed, Dimmer & Audio Sensitivity.
- 4x 7-channel DMX-512 operation.
- 2x 11-channel DMX-512 operation.
- 1x 13-channel DMX-512 operation.
- VenueLink Wireless DMX dongle compatibility

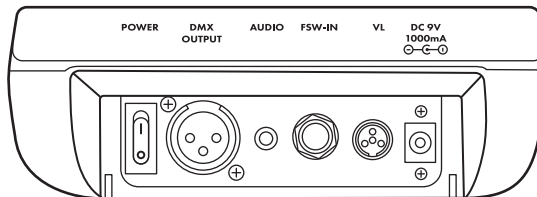
Additional Features

- Includes attached rubber feet and mic stand mount for additional placement options.
- Recessed input/output panel to keep cables secure.

Control Panel



Back Panel



SETUP

AC Power

This unit runs on 9VDC, 1000mA (pin center positive). Before powering on the unit, check the output of the power supply to be sure that it is correct. To determine the product's power requirements (circuit breaker, power outlet and wiring), use the current value listed on the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.



Always connect the fixture to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.



To eliminate unnecessary wear and improve its lifespan, during periods of non-use, completely disconnect the unit from power via breaker or by unplugging it.



Never connect the unit to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

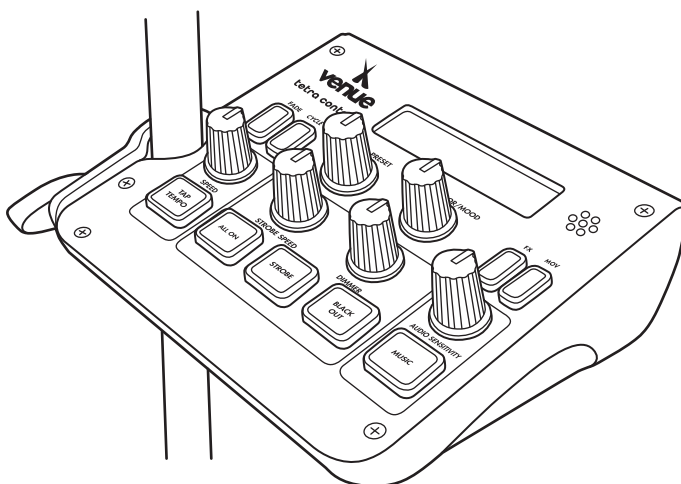
Placement/Mounting

The Tetra Control can be placed on any safe surface or mounted to a microphone stand for easy access during any performance.

Rigging

Be sure that the mic stand or mounting structure is sturdy and can support the weight of the Tetra Control. Please see the Technical Specifications section of this manual for a detailed weight listing. Mount the fixture securely by tightening the mounting clamp over the mic stand as shown in the illustration below. Please see the following notes for best installation practices.

- Ensure that the clamp is fully tightened over the mic stand to avoid slipping during use.
- Ensure that cables are neatly organized and that no cables are tugging on the unit's input/output jacks.
- There are rubber feet attached to the base, which may be used primarily for floor or desk standing positions.
- The brightness of the backlight controls on the Tetra Control can be adjusted through the settings menu to suit your performance space. See Settings Menu on page 11 for further instructions.



DMX Addressing

The Venue Tetra Control 2 can control up to seven separate lighting banks for three different DMX channel layouts. The first four banks work best with wash lights, while the fifth and sixth banks work best with moving head lights and the seventh bank is compatible with effects lights. Connected lights of applicable category must be set to a lighting bank starting DMX address.

Lighting Bank	DMX Starting Address
Wash Light 1	1
Wash Light 2	8
Wash Light 3	15
Wash Light 4	22
Moving Head 1	30
Moving Head 2	41
Effects Light	55

Your lighting fixture's DMX operating mode must also be set to the correct channel scheme for best results.

Wash Lights

For banks 1-4, best results are achieved by choosing a DMX operating mode for the fixture in which all of the fixture's LED colors are addressed to a dedicated DMX channel, and no DMX channels are used for any layered functions, such as master dimmer, etc. For use with the Venue Tetra 6 and Venue Tetra 12, use the 4-channel mode.

Fixture Type	DMX Operating Mode
RGB	3-CH. DMX
RGBA	4-CH. DMX
RGBW	4-CH. DMX
RGBAW	5-CH. DMX
RGBWA	5-CH. DMX

Moving Heads

Moving Head 1 and 2 banks are reserved for use with the Venue Revolver Wash and Venue Revolver Laser on 10- or 11-channel mode. The default setting of the controller is Mixed mode, meaning Moving Head 1 bank is set up for a Revolver Laser and Moving Head 2 bank is set up for a Revolver Wash. You may configure the controller to control two Revolver Lasers or two Revolver Washes in the Settings menu under the MovinHead parameter, further explained on page 12.

Effects Lights

The Effects Light bank is reserved for the Venue Mothership on 13-channel mode.

OPERATING INSTRUCTIONS

Control Panel Buttons

The Control Panel includes several real-time controls, and allows the user to navigate the LCD Display menu. For detailed functions, please see the table below.

FUNCTION	CONTROL TYPE	FUNCTION
Settings Menu (Hold Cycle + Power On)	Combination	Hold down the Cycle button while powering on the unit to access the Settings Menu. Here, you can adjust several global settings as outlined in the Settings Menu section on page 11.
Factory Reset (Hold: All On + Strobe + Blackout + Power On)	Combination	Hold down the All On, Strobe and Blackout buttons while powering on the unit to initiate factory reset and revert to factory settings.
Preset	Encoder/Switch	Turn the knob to select a preset in the currently selected menu, and press/click the knob to confirm your selection. This knob works to select options in the Setting Menu, Show Mode and Strobe Mode.
Mood	Encoder/Switch	Turn the knob to select a color preset in the currently selected menu, and press/click the knob to confirm your selection. This knob works to select color presets in Show Mode, All On Mode and Strobe Mode.
Fade	Button	Press this button to change between switching or fading transitions. When the green backlight is illuminated, colors will fade into the next step of each sequence. When the backlight is off, colors will quickly switch from one step to the next.
Cycle	Button	Press this button to activate or deactivate Cycle Mode. Cycle Mode randomly cycles through all available Presets and Moods, allowing the show to run itself. The rate at which programs cycle can be adjusted in the Settings Menu, and real-time controls are still functional while Cycle Mode is active. Cycle Mode is active when the green backlight is illuminated. See Cycle Mode on page 13 for more details.
FX	Button	Press to activate or deactivate connected effects lights. Compatible effects lights include the Venue Mothership.
MOV	Button	Press to activate or deactivate connected moving heads. Compatible moving heads include Venue Revolver Wash, Venue Revolver Laser, Venue Gobo Moving Head. Select the type of moving head connected in the Settings Menu (pages 11-12). While in Revolver Laser or Mixed mode, press and hold this button to toggle the laser of the Revolver Laser on or off. While in Gobo Moving Head mode, press and hold this button to toggle the gobo selection between static and cycling.

Control Panel Functions (Continued)

FUNCTION	CONTROL TYPE	FUNCTION
Tap Tempo	Button	Tap this button at the desired BPM to automatically set the tempo of your lighting chases. The blue backlight will always display the current BPM (except when in Music Mode) by blinking at the tempo designated by the tempo button or speed knob. The current tempo can be overridden by tapping in a new tempo, adjusting the speed knob, or activating Music Mode.
Speed	Knob	Turn this knob to manually adjust the current tempo, displayed in the top-right corner of the LCD Display in Show Mode. The manually selected tempo can be overridden by activating Music Mode, or using the Tap Tempo button.
All On	Button	Press this button to activate All On Mode. This mode sets all lights to one static color or color combination. There are 25 color combinations to choose from, selectable using the Mood encoder while in All On Mode. All On Mode is active when the yellow backlight is illuminated. See All On Mode on page 13 for more details.
Strobe	Button	Press this button to activate Strobe Mode. There are three different strobe settings to choose from, selectable using the Preset encoder while in Strobe Mode. Strobe speed can also be adjusted in real time by using the Strobe Speed knob. Strobe Mode is active when the yellow backlight is illuminated. See Strobe Mode on page 14 for more details.
Strobe Speed	Knob	Turn this knob to adjust the strobe rate. Effects will only be visible while in Strobe Mode.
Blackout	Button	Press this button to instantly turn all lights off. Blackout is active when the red backlight is illuminated. See Blackout on page 14 for more details.
Dimmer	Knob	Turn this knob to adjust the brightness of your lights. This knob is functional in all modes.
Music	Button	Press this button to activate Music Mode, enabling sound-active operation via built-in microphone or TRS audio input. Music Mode is active when the blue backlight is illuminated. See Music Mode on page 14 for more details.
Audio Sensitivity	Knob	Turn this knob to adjust the sensitivity of your audio input source while in Music Mode. See Music Mode on page 14 for more details.

Settings Menu

To access the Settings Menu, hold down the <CYCLE> button while powering on the controller. Here, you can adjust several global settings, including DMX Footprint, Backlight controls and Cycle Rate.

Once inside the Settings Menu:

1. Turn the <PRESET> Encoder knob to scroll through the menu functions.
2. Turn the <MOOD> Encoder knob to find your desired setting within a particular function.
3. Press/Click the <MOOD> Encoder knob to confirm your selection.
4. To enter standard controller use, scroll to "Exit" and press/click the <MOOD> Encoder knob.

For detailed functions within the Settings Menu, see the table below.

MENU FUNCTION	SELECTION	INSTRUCTIONS
Footprint	RGB	Select the DMX profile of the Tetra Control. This setting ensures that the Tetra Control will map correctly to nearly any type of DMX fixture. Refer to the user manual for your lighting fixtures to determine which DMX profile they use (RGB, RGBA and RGBW are most common), and set this accordingly. If you are using multiple lights with different DMX personalities, set the Footprint to RGB for the most accurate performance with multiple lighting types.
	RGBA	
	RGBW	
	RGBAW	
	RGBWA	
Backlight	Enabled	Enables dimmed backlights behind controls when settings are inactive. This allows the user to see the full control panel in low-visibility settings.
	Disabled	Disables backlights behind controls when settings are inactive.
Cycle Rate	1-32	Determines the frequency of program changes when in Cycle Mode. The cycle rate is based on full sequence completions of the currently selected program. For example, if a cycle rate of 4 is chosen, each program will complete it's full sequence four times before switching to the next program. Here, the user may choose between 1-32 sequence completions per program change in Cycle Mode.
Cycle Opt	Pset&Mood	Enables random switching of both presets and moods while Cycle Mode is active.
	Pset Only	Enables random switching of only presets while Cycle Mode is active. The mood will remain the same, unless manually altered.
	Full AI	Enables random switching of patterns, moods, Fade Mode, and Moving Head Modes. Will also switch to slow color fade upon loss of tempo in Sound-Active Mode.
BO Fade	Enabled	Enables faded blackout. This will cause all lights to fade to black when the Blackout button is pressed.
	Disabled	Disables faded blackout. This will cause all lights to instantly turn off when the Blackout button is pressed.

MovinHead	Mixed	For use with an independently channeled Venue Revolver Wash and Venue Revolver Laser. The Revolver Wash must be set to DMX channel 30 and the Revolver Laser must be set to DMX channel 41.
	Rev Wash	For use with up to two independently channeled Venue Revolver Washes on Moving Head 1 and 2 banks (channels 30 and 41).
	Rev Laser	For use with up to two independently channeled Venue Revolver Lasers on Moving Head 1 and 2 banks (channels 30 and 41).
Exit		Press this menu option to confirm your setting selections and return to normal usage.

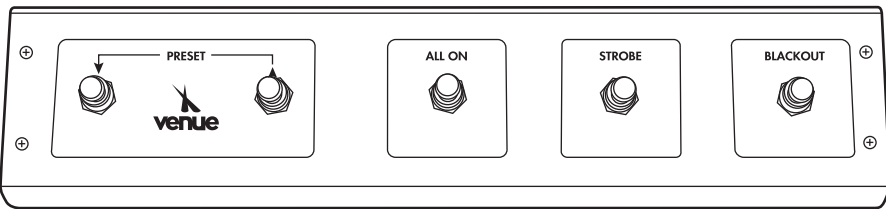
Footswitch Operation

The Tetra Control 2 is compatible with the optional Venue Tetra Footswitch for hands-free operation. Each button on the footswitch corresponds to a control on the Tetra Control 2, and any settings implemented via the footswitch will be reflected on the front panel of the Tetra Control 2.

To connect the footswitch, plug the included TRS cable into the ¼" input jack on the back of the unit. Plug the other end of the TRS cable into the ¼" FSW-IN jack on the back on the Tetra Control 2 unit.

Unlike the Preset Knob on the Tetra Control 2, the Preset Up and Down buttons on the footswitch will instantly change to the next program without confirming the selection.

For detailed functions, please see the table below.



Front

FUNCTION	INSTRUCTIONS
Preset Up (Forward)	Scrolls forward/back one program in the Presets options (0–30). Pressing this button will also scroll forward/back one Mood while All On is active, and one Strobe pattern while Strobe Mode is active. Using the foot controller Preset buttons automatically confirms the selection when pressed.
Preset Down (Back)	
All On	Press this button to activate or deactivate All On Mode.
Strobe	Press this button to activate or deactivate Strobe Mode.
Blackout	Press this button to activate or deactivate Blackout.

MODES OF OPERATION

Show Mode

Show Mode is the default mode of operation, where presets and moods may be selected, and tempo functions are adjustable. There are 31 preset chases (#0–30) and 20 unique moods to choose from, using the Preset and Mood encoders. For a detailed listing of presets and color options, see the color options and mood guide sheet included in the box. Cycle Mode and Music Mode may both work in conjunction with Show Mode for a fully automated experience.

To select a Preset/Lighting Chase:

1. Turn the <PRESET> Encoder knob until your desired preset is flashing on the bottom line of the LCD display.
2. Press/Click the <PRESET> Encoder knob to confirm your selection.

To select a Mood/Color Palette:

1. Turn the <MOOD> Encoder knob until your desired preset is flashing on the top line of the LCD display.
2. Press/Click the <MOOD> Encoder knob to confirm your selection.

Additional controls in Show Mode:

- Adjust the overall brightness of the lights by turning the <DIMMER> knob.
- Switch between fading or switching color transitions by pressing the <FADE> button.
- Manually adjust the speed of lighting chases by turning the <SPEED> knob, or tapping the <TAP TEMPO> button at the desired BPM. The current BPM will always be shown in the upper right-hand corner of the LCD Display while in Show Mode.
- Toggle the moving heads on or off by pressing the <MOV> button.
- Reverse the direction of the moving heads and toggle the laser (if applicable) on or off by long pressing the <MOV> button while the <MOV> button is activated.
- Toggle the effects lights on or off by pressing the <FX> button.

Cycle Mode

Cycle Mode works in conjunction with Show Mode. Press the <CYCLE> button to activate this mode. When activated, the green backlight will be illuminated, and preset chases/moods will change in a random order. The Cycle Opt setting in the settings menu determines whether Cycle Mode affects only the preset, only the mood, or both the preset and mood. These presets and/or moods will change after a predetermined amount of sequence completions, adjustable from the Cycle Rate setting, also in the settings menu.

Music Mode

Music Mode works in conjunction with Show Mode. Press the <MUSIC> button to activate this mode. When activated, the blue backlight will be illuminated and preset chases will automatically follow the beat of the music. By default, audio will be received through the built-in microphone, but can be overridden by plugging an audio source directly into the back of the unit, using a TRS cable.

Audio sensitivity can be adjusted to ensure that chases move to the intended beat. To do this, turn the <Audio Sensitivity> knob up or down to alter the level of the audio signal being received by the microphone or TRS input.

All On Mode

All On Mode overrides any previously selected settings. Press the <ALL ON> button to activate this mode. When activated, the yellow backlight will be illuminated, and all lights will be set to a single color or color combination. Deactivating this mode by pressing <ALL ON> again will return the unit to your most recently selected setting.

There are 25 color presets for All On Mode that are also shared by Strobe Mode. In order to change the color or color combination:

1. Turn the <MOOD> Encoder knob until your desired color is flashing on the top line of the LCD display.
2. Press/Click the <Mood> Encoder knob to confirm your selection.

Additional controls in All On Mode:

- Adjust the overall brightness of the lights by turning the <DIMMER> knob.
- Toggle the moving heads and effects light on or off using the <MOV> and <FX> buttons respectively.

Strobe Mode

Strobe Mode overrides any previously selected settings. Press the <STROBE> button to activate this mode. When activated, the yellow backlight will be illuminated, and all lights other than the effects lights will be set to a single color or color combination while producing a strobe effect. Effects lights will not strobe and will continue the program they were set to before the <STROBE> button was pressed. You may still toggle the effects light on or off by using the <FX> button. Deactivating this mode by pressing <STROBE> again will return the unit to your most recently selected setting.

There are three different strobe presets available to choose from. In order to change the strobe sequence:

1. Turn the <PRESET> Encoder knob until your desired strobe effect (Strobe 1, Strobe 2, Strobe 3) is flashing on the bottom line of the LCD display.
2. Press/Click the <PRESET> Encoder knob to confirm your selection.

There are 25 color presets for Strobe Mode that are also shared by All On Mode. In order to change the color or color combination:

1. Turn the <MOOD> Encoder knob until your desired color is flashing on the top line of the LCD display.
2. Press/Click the <MOOD> Encoder knob to confirm your selection.

Additional controls in Strobe Mode:

- Adjust the speed of the strobe effect by turning the <STROBE SPEED> knob. This knob is designated only for the strobe effect, and can be preemptively adjusted even when Strobe Mode is deactivated.
- Adjust the overall brightness of the lights by turning the <DIMMER> knob.
- Toggle the moving heads and effects light on or off using the <MOV> and <FX> buttons respectively.

Blackout

Blackout overrides any previously selected settings. Press the <BLACKOUT> button to activate. When activated, the red backlight will be illuminated, and all lights will be instantly turned off (0%).

While Blackout is active, your most recent settings will remain on the LCD display. The currently active mode is still adjustable while lights are off, and any new settings selected will become visible once Blackout is deactivated. Pressing the <BLACKOUT> button again will deactivate Blackout, and lights will display your currently selected setting.

PRESET & COLOR CHARTS

Presets

The Tetra Control contains 31 preprogrammed lighting chases, defined as Presets. These presets can be chosen manually in Show Mode, or will be randomly chosen when in Cycle Mode. See the Show Mode section on page 13 for usage instructions. Please see the chart below for a detailed list of Presets options:

#	PRESET NAME
0	Color Fade
1	Spectrum L
2	Spectrum R
3	Crawl L
4	Crawl R
5	Flow L
6	Flow R

#	PRESET NAME
7	Cascade L
8	Cascade R
9	Marquee L
10	Marquee R
11	Wave
12	Immerse
13	Quicksand

#	PRESET NAME
14	Mirror
15	Fill
16	Flash
17	Splash
18	Ping Pong
19	Flare
20	Bang

#	PRESET NAME
21	Siren
22	Switch
23	Cross
24	Cross Fade
25	Snake

#	PRESET NAME
26	Scan
27	Skip
28	Sweep
29	Beatkeeper
30	Glimmer

Color Options

The Tetra Control contains 14 unique color macros that define each Mood. Please see the included color options and mood guide.

Moods

The Tetra Control contains 20 unique color palettes that are defined as Moods. The currently selected Mood decides what colors will be displayed during the current Preset. Moods #1–15 are standard Moods that are randomly chosen when in Cycle Mode. Moods #15–20 are seasonal Moods that will not be included in Cycle Mode. See the Show Mode section on page 13 for usage instructions.

Additionally, there are 25 static color combinations that are selectable for use in All On and Strobe Modes. See the All On Mode and Strobe Mode sections on page 14 for usage instructions. See the included color options and Mood guide.

APPENDIX

FIXTURE LINKING

You will need a serial data link to run light shows of one or more fixtures using a DMX controller to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all of the fixtures on a serial data link determines the number of fixtures the data link can support.

- i** Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard, no more than 32 fixtures should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the DMX signal.

Maximum recommended serial data link distance: 500 m (1,640 ft)

Maximum recommended number of fixtures on a serial data link: 32

DMX Data Cable

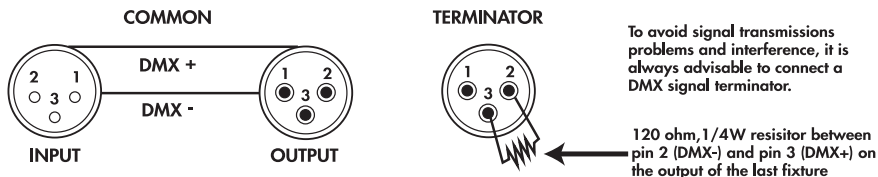
Use a cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable must have the following characteristics:

Type:	Shielded, 2-conductor, twisted pair
Maximum capacitance between conductors:	30 pF/ft.
Maximum capacitance between conductor and shield:	55 pF/ft.
Maximum resistance:	20 ohms/1000 ft.
Nominal impedance:	100–140 ohms

Cable Connectors

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.

DMX CONNECTOR CONFIGURATION

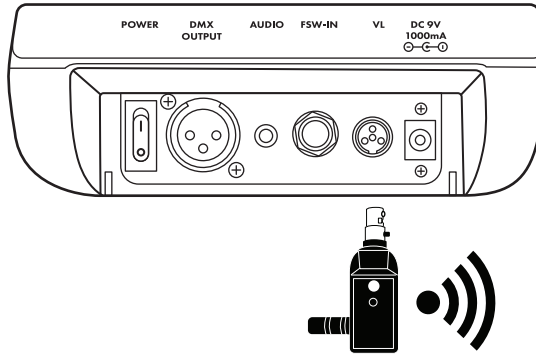


- i** Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

VenueLink Dongle

You can wireless transmit commands from a Venue Tetra Control 2 using a VenueLink dongle connected to the jack on the back panel labeled VL. Wireless operation is recommended with Venue fixtures with VenueLink compatibility, denoted by the suffixes VP and VI.

When connected to the Tetra Control 2, the VenueLink dongle will automatically begin to transmit DMX commands to other VenueLink dongles or products within the same universe. To wirelessly connect lights to the controller, ensure that the LED on both the dongle attached to the Tetra Control 2 and the dongle/built-in LED for the light is blinking the same color.



General Maintenance

To maintain optimum performance and minimize wear, fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust reduces performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

- Unplug fixture from power.
- Use a vacuum or air compressor, and a soft brush, to remove dust collected on external vents.
- Clean all glass when the fixture is cold with a mild solution of glass cleaner or isopropyl alcohol, and a soft lint-free cotton cloth or lens tissue.
- Apply solution to the cloth or tissue, and drag dirt and grime to the outside of the lens.
- Gently polish optical surfaces until they are free of haze and lint.

The cleaning of external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates. Damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. Clean the external optics at least every 20 days. Clean the fixture at least every 30/60 days.



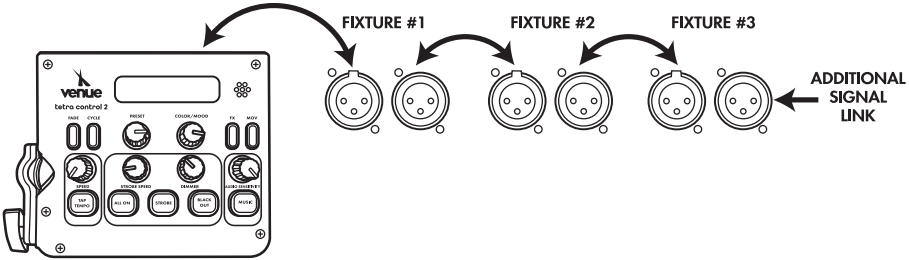
Always dry parts carefully after cleaning them.

Signal Linking

In order to use this unit in DMX operation, you may either daisy chain using DMX cables to link from one fixture to another, or transmit commands via a VenueLink Wireless DMX dongle to compatible Venue products.

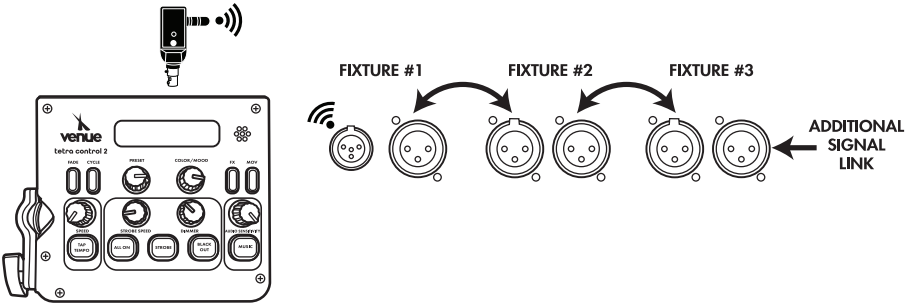
To Daisy Chain Using DMX Cables:

1. Connect the (male) 3-pin connector side of the DMX cable to the output (female) 3-pin connector of the controller.
2. Connect the end of the cable coming from the controller, which will have a (female) 3-pin connector, to the input connector of the next fixture consisting of a (male) 3-pin connector.
3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.



VenueLink Signal Linking

With the use of a VenueLink dongle, the Tetra Control 2 can transmit wireless DMX commands to up to 32 independent wireless fixtures. As an alternative to transmitting to independent wireless fixtures, you may daisy chain off of a wireless fixture as the first in the series.



NOTE: When daisy-chaining DMX signal to non-VenueLink compatible fixtures, the controller and connected dongle should be powered on and transmitting before the lighting fixtures are also powered on and connected. Failure to begin signal transmission before non-VenueLink compatible fixtures are connected will result in a loss of signal. If this happens, simply power cycle the lights while keeping the controller on and dongle connected.

General Troubleshooting

SYMPTOM	POSSIBLE CAUSE(S)	POSSIBLE ACTION(S)
Breaker/Fuse keeps blowing	<ul style="list-style-type: none"> • Excessive circuit load • Short circuit along the power wires 	<ul style="list-style-type: none"> • Check total load placed on the electrical circuit • Check for a short in the electrical wiring (internal and/or external)
Device does not power up	<ul style="list-style-type: none"> • No power • Loose power cord 	<ul style="list-style-type: none"> • Check for power on mains • Check power cord
Fixture is not responding to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Wrong polarity settings on the controller • Loose DMX cables • Faulty DMX interface • Faulty Main PCB 	<ul style="list-style-type: none"> • Check Control Display and unit addressing • Check DMX cables • Check polarity switch settings on the controller • Check cable connections • Replace DMX input • Replace Main PCB
Loss of signal	<ul style="list-style-type: none"> • Non-DMX cables • Bouncing signals • Long cable/Lo- level signal • Too many fixtures • Interference from AC wires 	<ul style="list-style-type: none"> • Use only DMX compatible cables • Install terminator as suggested • Install amplifier right after fixture with strong signal • Install an optically coupled DMX splitter after unit #32 • Keep DMX cables separated from power cables or black light

TECHNICAL SPECIFICATIONS

Weight & Dimensions

Length	6.22" (158 mm)
Width	4.92" (125 mm)
Height	2.36" (60 mm)
Weight	1.1 lb. (0.5 kg)

Power

Auto-Ranging Power Supply	9VDC, 1000mA
Polarity	Center Pin Positive
Power Adapter	Provided

Indoor/Outdoor

Rating	For indoor use only
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Thermal

Maximum Ambient Temperature	104° F (40° C)
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Control & Programming

Data Output	3-pin XLR female socket
Data Pin Configuration	pin 1 shield, pin 2 (-), pin 3 (+)
Wireless Connectivity	4-pin VenueLink socket
Protocols	DMX-512 USITT
DMX Control Channels	001-68

Ordering Information

Tetra Control Model #	LC100
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WARRANTY

One (1) Year Limited Warranty

Subject to the limitations set forth below, Venue® hereby represents and warrants that the components of this product shall be free from defects in workmanship and materials, including implied warranties of merchantability or fitness for a particular purpose, subject to normal use and service, for one (1) year to the original owner from the date of purchase.

Retailer and manufacturer shall not be liable for damages based upon inconvenience, loss of use of product, loss of time, interrupted operation or commercial loss, or any other incidental or consequential damages, including but not limited to, lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any costs of recovering, reprogramming, or reproducing any program or data stored in equipment that is used with Venue products. This guarantee gives you specific legal rights. You may have other legal rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Venue Lighting Effects

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