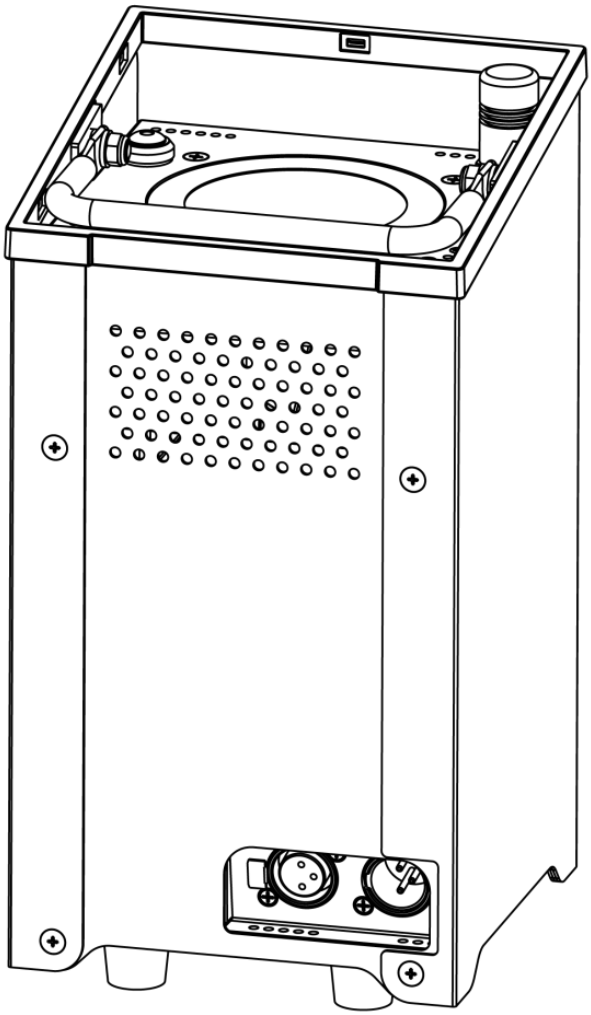
WELL™ QUAD-M

WIRELESS EVENT LED LUMINAIRE

User Manual



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Edition Notes

This user manual covers the description, safety precautions, installation, programming, operation, and maintenance of the WELL™ Quad-M.

CHAUVET® released this edition of the WELL™ Quad-M user manual in August 2013.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any person in charge of installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

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Author	Date	Editor	Date
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Table of Contents

1. Before You Begin

What Is Included

Single Product:

- WELL™ Quad-M
- Battery charger
- Warranty card
- Quick Reference Guide

Six-piece Set:

- Six WELL™ Quad-M products
- Six-bay flight case with built-in battery charger
- Warranty card
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not CHAUVET®. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within 7 days of delivery.

Manual Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
	Important installation or configuration information. Failure to comply with this information may keep the product from working.
	Useful information.

The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Safety Notes

Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this user manual will only apply to properly trained CHAUVET® certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its battery charger and turn the battery switch off before servicing.
- Always connect this product's battery charger to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing when operating because it may be hot.

Mounting and Rigging

- Do not submerge this product or subject it to water jets (IP44). Regular outdoor operation under light rain or splashing water is fine.
- Do not hang this product, as this is a floor-standing product.
- Do not tilt this product further than 10º.
- Always carry this product using the built-in handle.
- Do not leave any flammable material within 50 cm of this product while operating or recharging the battery.

Power and Wiring

- Always make sure that you are connecting this product's battery charger to the proper voltage, as per the specifications in this manual or on the product's sticker.
- Never connect this product's battery charger to a dimmer pack or rheostat.
- Never disconnect this product's battery charger by pulling or tugging on the power cable.

Operation

- Do not operate this product if you see damage on the housing, lenses, or cables. In any of these cases, have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when the product is operating to avoid internal overheating.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate this product at a higher temperature.
- Do not close the flight case/charger lid when during charging.
- In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your CHAUVET® product may require service, contact CHAUVET® Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. Introduction

Description

The WELL™ Quad-M (Wireless Event Light Luminaire) is a battery powered, portable upward wash light. It consists of a single product that contains the 12 V gel battery, the LEDs, the LED drivers, and the main control. The battery provides up to 10 hours of runtime.

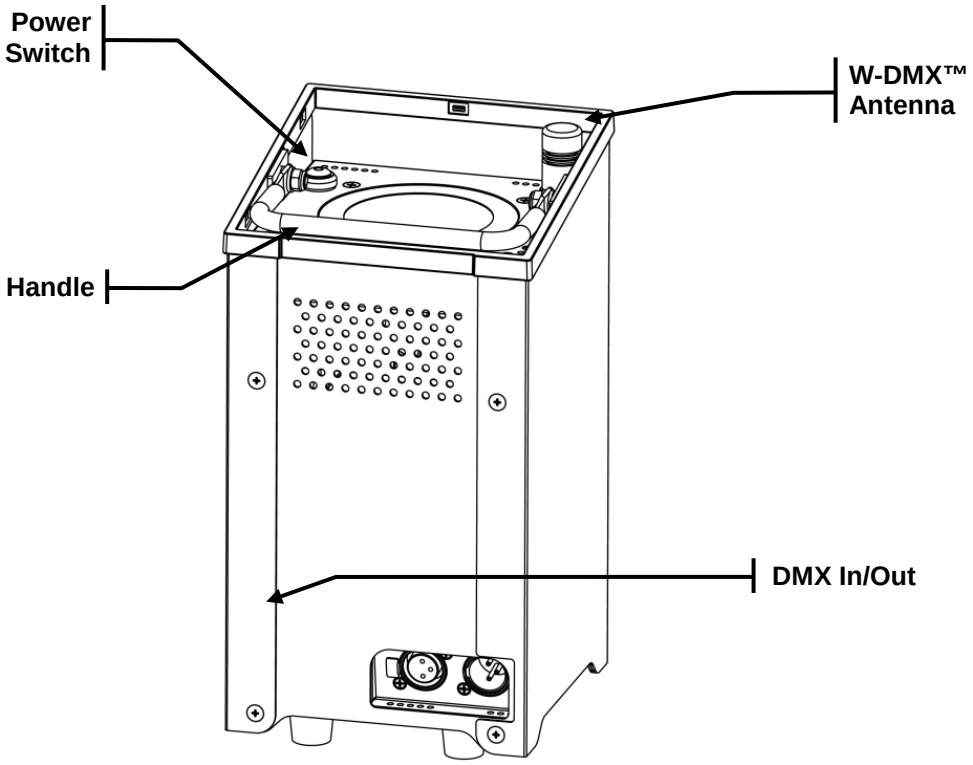
When purchased as a single product, it comes with a stand-alone single product battery charger. Additional batteries are available for purchase.

When purchased as a 6-piece set, they come with an empty flight case that has six storage bays and a built-in charger. Each storage bay in the flight case has its own battery charging connector. This allows recharging all six WELL™ Quad-M products simultaneously while in the flight case. The W-DMX™ (Wireless DMX) transmitter is available for purchase separately.

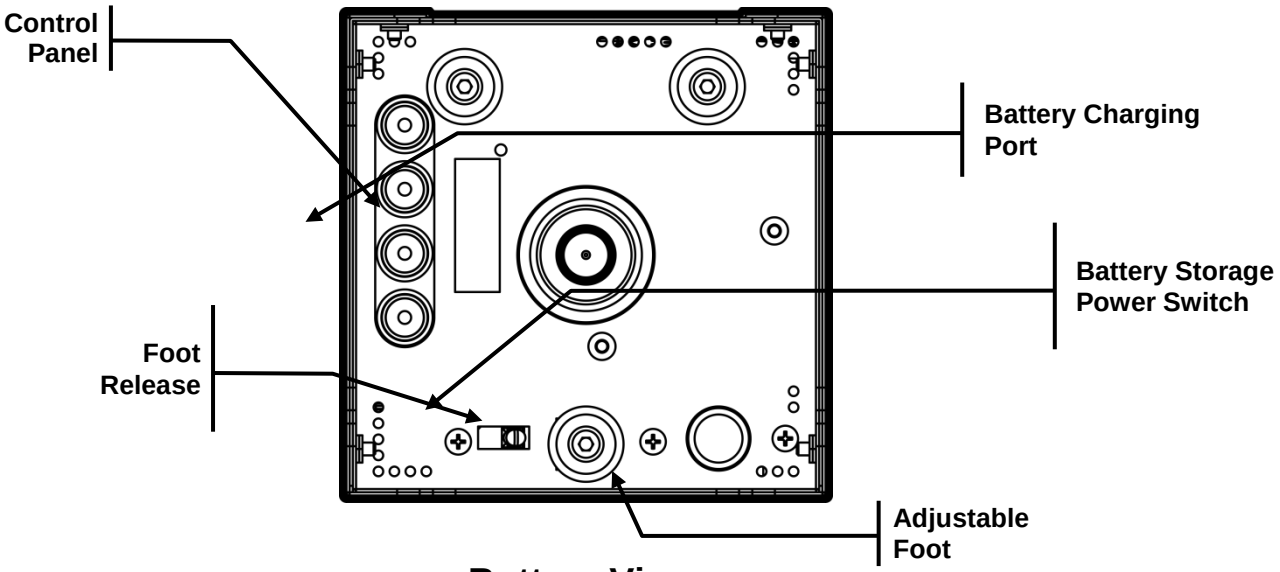
Features

- DMX Channels: 3, 4, 5, 6, 10, or 15
- 16-bit dimming of individual colors as well as master dimmer
- Lithium ion battery
- IR remote controllable (remote included)
- 10 hour battery life at full output
- 10 hour charge time from 0 to 100%
- Reflective mirror finish, blends with surroundings
- Easy to use charger included

Overview

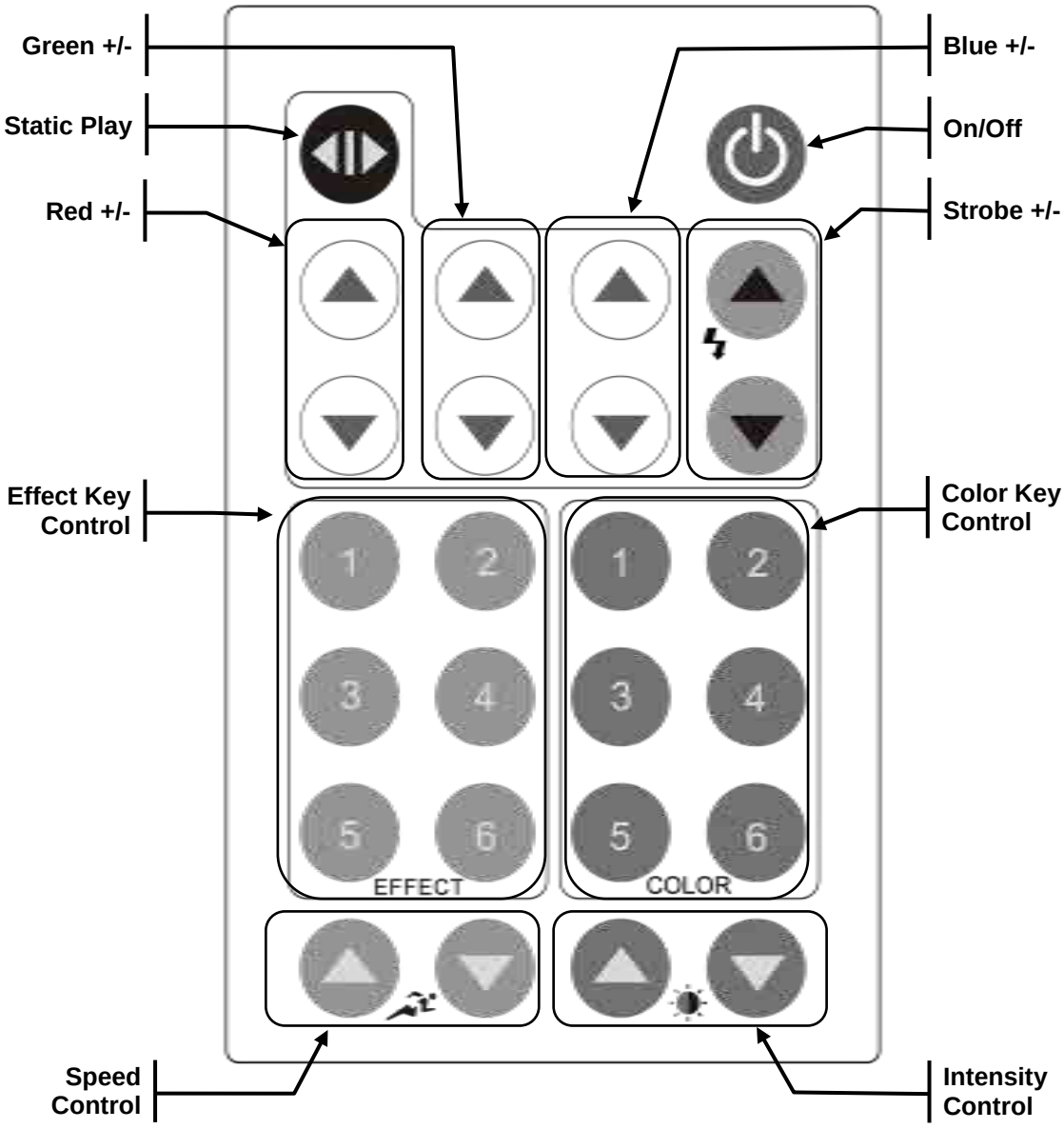


Front View

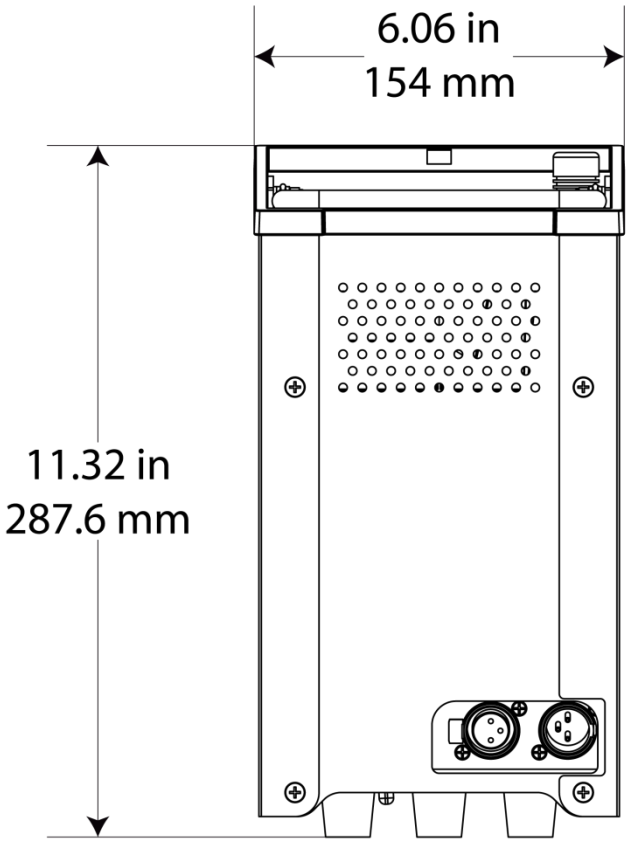


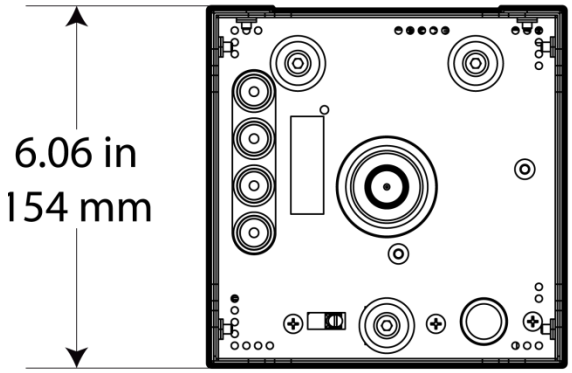
Bottom View

Overview


Green +/-
Blue +/-
Static Play
On/Off
Red +/-
Strobe +/-
Effect Key Control
Color Key Control
1
2
3
4
5
6
EFFECT
COLOR
Speed Control
Intensity Control

Dimensions





3. Setup

AC Power

Each WELL™ Quad-M has an auto-ranging battery charger, whether stand-alone or inside the flight case that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each WELL™ Quad-M, refer to the label affixed to the product. For more information, see the Technical Specifications section.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download *Sizing Circuit Breakers* from the CHAUVET® website: www.chauvetpro.com.

Always connect this product's battery charger to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect this product's battery charger to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The WELL™ Quad-Ms battery charger comes with a power input cord terminated with an Edison plug (US market). If the power input cord that came with your product has no plug or you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Make sure to disconnect the product's power cord before replacing a blown fuse. Always replace the blown fuse with another of the same type and rating.

Fuse Replacement

The stand-alone battery charger has no external fuse. However, the flight case/charger comes with a replaceable fuse (T 6.3 A @ 250 V).

To change the fuse on the flight case/charger, do the following:

1. Disconnect the product from the power outlet.
2. With a Phillips #2 head screwdriver, unscrew the fuse holder cap from its housing.
3. Remove the blown fuse and replace it with a good fuse of the same type and rating (T 6.3 A @ 250 V).
4. Screw the fuse holder cap back in its place and reconnect power.

Battery Charge Notes

- Make sure to turn the battery storage switch on before connecting the product to the charger.
- Always use the supplied charger to recharge the built-in battery.
- Recharge the battery within three days of last use.
- Recharge the battery to full capacity before storing this product.
- For best results, charge the battery in a temperature between 32 ºF (0 ºC), and 95 ºF (35 ºC).
- When charging the battery, keep the product at no less than 1 m from any open flame or hot plate.
- When charging the battery inside the flight case/charger, keep the flight case's cover open.
- Always charge the battery with the product in an upright position.
- Do not keep charging the battery for more than 24 hours.
- Perform a full discharge/recharge cycle every three months.
- During charging, the green power indicator LED will illuminate solid, regardless of the level of charge of the battery.
- Once fully charged, while still connected to the battery charger, the green power indicator LED will turn off.
- Always store the product in an upright position (≤ 10º tilt).
- Store charged product(s) in a dry environment, away from direct sunlight.
- Turn the battery switch off if storing the product for more than 7 days.

Storage Notes

- Always store the unit in an upright position (≤ 10º tilt).
- Recharge the battery to full capacity before storing the unit.
- Store charged unit(s) in a dry environment, away from direct sunlight.
- Turn the battery storage switch off if storing the unit for more than seven days.

Turn Product On

1. Turn the battery storage switch on.
2. Push the On/Off switch on the top for more than three seconds (the built-in red LED will illuminate solid).

   When not connected to the battery charger, the power status LED indicates the amount of remaining battery charge, as follows:

Green:	>70%	(100 to 70% charge)
Yellow:	>20%	(69 to 21% charge)
Red:	Empty	(20% to 0 charge)

Turn Product Off

1. Push the On/Off switch on the top for more than three seconds.
2. If storing the product for more than seven days after recharging it, also turn the battery storage switch off.

DMX Linking

You can link the WELL™ Quad-M to a DMX controller using a standard DMX serial connection or via W-DMX™. If using other DMX compatible products with the WELL™ Quad-M, you can control each individually with a single DMX controller.

DMX Modes

The WELL™ Quad-M uses the standard DMX data connection for its **TOUR, TR16, ARC.1, AR1.D, ARC.2, AR2.D, AR2.S** and **HSV** DMX modes.

- Refer to the Introduction section for a brief description of these modes.
- Refer to the Operation section to learn how to configure the WELL™ Quad-M to work in these modes.
- The DMX Values section provides you with detailed information regarding the DMX modes.

Master/Slave Connectivity

The Master/Slave mode allows a WELL™ Quad-M (master product) to control one or more products (slave products) without a DMX controller.

One WELL™ Quad-M becomes the master product either when running in static (STAT) mode or when using the automatic (AT) or customizable (PR) programs.

In addition, you must configure each of the slave products (via control panel) to operate in Slave (SLAV) mode. During Master/Slave operation, the slave products will operate in unison with the master product.

For more information, see the Menu Map section.

Do not connect a DMX controller to products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master product.

- The Operation section of this manual provides detailed instructions on how to configure the Master and Slave products.
- If you need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed in order to link the product to a DMX controller, you can download the *DMX Primer* from the CHAUVET® website: www.chauvetpro.com.
- Verify the **DIMX** and **CURV** settings are set to OFF for optimal control of the TR16 personality. For more information, see the Menu Map section.

W-DMX™ Operation

The product can operate in W-DMX™ mode up to 300 m (900 ft) from the W-DMX™ transmitter. For wireless operation, the W-DMX™ receiver inside the product must be paired with a W-DMX™ transmitter.

Initial Setup

1. Turn the W-DMX™ transmitter on.
2. Connect the W-DMX™ transmitter to a DMX controller.
3. Place the product within 300 m from the W-DMX™ transmitter.
4. Disconnect any DMX cable from the product.
5. Turn the product on.

Configuration

1. From the product's control panel, go to **RUN > DMX**.
2. Select the desired DMX start address. .
3. Go to **WDMX > ACTI**.
4. Select **ON**.

Product Pairing

Product currently paired with the transmitter

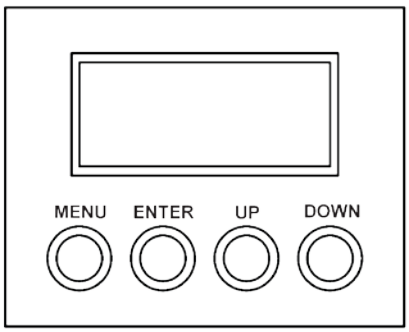
· If the product is paired with the W-DMX™ transmitter, a red LED on the On/Off switch will slowly flash. The product is ready to work in wireless mode.

Pairing the product with a new W-DMX™ transmitter

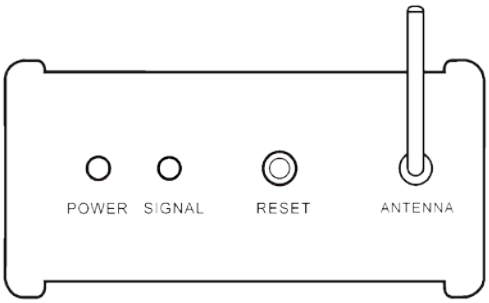
1. From the product's control panel, go to **WDMX > REST**.
2. Select **YES** (a red LED appears on the On/Off switch).
3. From the W-DMX™ transmitter, press <**RESET**> (the SIGNAL indicator will flash).
4. Once the transmitter has found the product, the SIGNAL indicator on the W-DMX™ transmitter will illuminate solid.
5. From the On/Off switch, the red LED flashes slowly indicating the presence of DMX signal.

W-DMX™ operation can be interrupted or inhibited by liquid masses between the transmitter and receiver such as water, snow, or people. For best results, keep the antenna clear of any liquid mass.

WDMX™ Setup



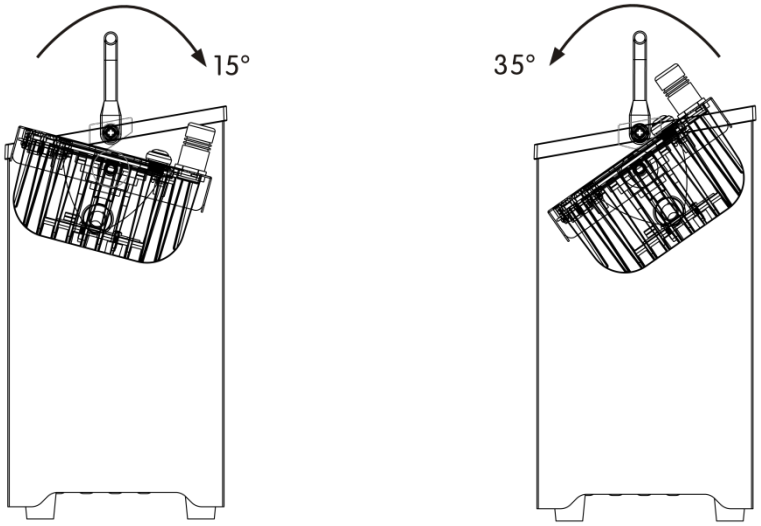
Control Panel



WDMX Transmitter

Lens Angle Adjustment

The product contains a single LED lens platform, that which allows the unit to be tilted from 55º up to 105º from the center.



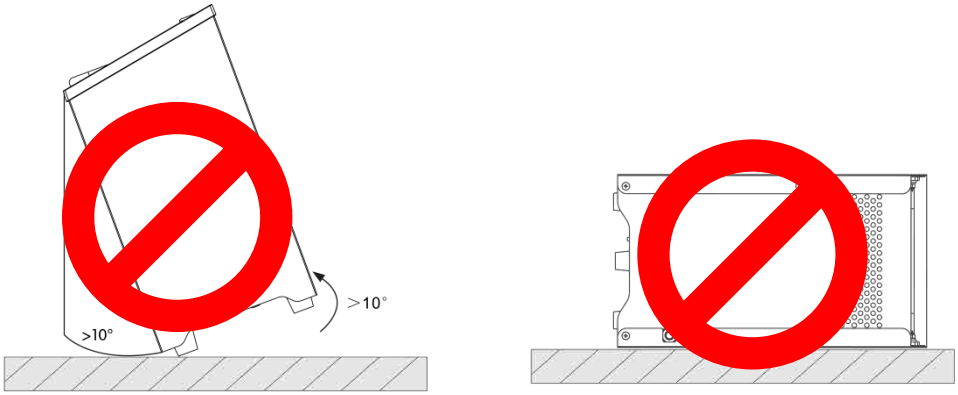
Positioning

The WELL™ Quad-M stands on the support legs and positioned on a hard, steady surface that can support its weight. You should not mount the product in any way.

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to place the product away from any flammable material.
- Do not mount the product in places where heavy rain, water jets, extreme temperature changes, or restricted ventilation may affect it.
- This is a floor-standing fixture. Do not hang this unit.
- Always operate the unit in an upright position.
- Only use the retractable foot to tilt the unit.
- Do not operate the unit in a sealed enclosure or in an area without air circulation.

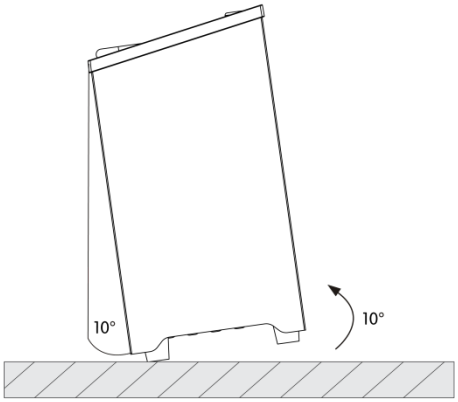
Tilt Angle Procedure

The WELL™ Quad-M stands on a hard, steady surface that can support its weight. Using the installed retractable foot, the product is adjustable by using the foot release lever up to10º. Do not tilt the product any further than 10º or mount it on its side.



Incorrect Floor Mounting

Mounting Diagram



Correct Floor Mounting

4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu options and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu options and decreases the numeric value when in a function

Control Options

You can set the WELL™ Quad-M starting address in the 001 to 512 DMX range. This enables control of up to 34 products in the 15-channel **TR16** personality.

Programming

The menu map shows the main level and a variable number of programming levels for each option. For more information on how to use the menu options, refer to the Menu Map section.

- To go to the desired main level, press **<MENU>** repeatedly until the desired option displays on the control panel. Press **<ENTER>** to select. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press **UP** or **<DOWN>** until the option shows on the display. Press **<ENTER>** to select. In this case, if there is another programming level, you will see that first option, or you will see the selected value.
- Press **<MENU>** repeatedly to exit to the previous main level.

DMX Personality

This setting allows you to choose a particular DMX personality.

1. Go to the **PERS** main level.
2. Select the desired personality (**TOUR, TR16, ARC.1, AR1.D, ARC.2, AR2.D, AR2.S** or **HSV**).

For the highest starting address you can select for each personality, see the DMX Values section. Verify that the starting addresses on the products do not overlap due to the new personality setting.

DMX Control

In this mode, each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison.

1. Select a DMX personality as shown in DMX Personality.
2. Set the running mode:
   a. Go to the **RUN** main level.
   b. Select the **DMX** programming level.
3. Set the starting address:
   a. Go to **ADDR** main level.
   b. Select the starting address (**D.001~512**).

The highest recommended starting address for each DMX mode are as follows:

DMX Mode	DMX Address	DMX Mode	DMX Address	DMX Mode	DMX Address
TOUR	503	**ARC.2**	509	**HSV**	510
ARC.1	510	**AR2.D**	508	**TR16**	498
AR1.D	509	**AR2.S**	507		

Loss of Signal Setting

This setting controls how the product will respond when the DMX signal is lost.

1. Go to the **SET** main level, and select **DERR**.
    a. Select **SAVE** to make the product use the last command used when the signal is lost.
    b. Select **BLAK** to turn off the all the LEDs when the signal is lost.

Static Color

The Static Color mode allows for permanent RGBA color mixing without a DMX controller.

1. Go to the **STAT** main level.
2. Select the desired color (**RED**, **GREN**, **BLUE**, or **AMBR**).
3. Select the desired color value (**000**~**255**).
4. Repeat the steps for additional colors.
5. Select **STRB**.
6. Select the desired frequency (**00**~**20**).

Auto Programs

Auto programs allow for dynamic RGBA color mixing without a DMX controller.

1. Go to **AUTO**.
2. Select the desired auto (**AT. 01~10**) or custom program (**PR. 01~10**).
3. Select the desired speed at which the chosen program will run (**P. 000~255**).

You cannot edit any of the auto programs (AUTO 01~10).

Edit Custom Programs

This setting allows the programming of up to 30 scenes for each of the 10 customizable programs, including colors and effects.

1. Go to the **EDIT** main level.
2. Select the desired auto program (**PR. 01~10**).
3. Select the desired scene (**SC. 01~30**).
4. Select the desired color or effect (**RED**, **GREN**, **BLUE**, **AMBR**, **STRB**, **TIME**, or **FADE**).
5. Select the color or effect value (**000~255** for colors and timers, or **00~20** for strobe).
6. Repeat the steps for additional colors or effects.
7. Return to the scene level (**SC. 01~30**).
8. Repeat the settings of colors and effects for the other scenes.

Strobe Personality

This setting allows you to select the CLASSIC (01~20 Hz) strobe or SPECIAL (Random/Slow/Fast) strobe personalities.

1. Go to the **SET** main level.
2. Select a strobe personality (**SPEC** or **CLAS**).

Battery Life

This setting allows the user to select the output intensity for a given runtime (battery life).

1. Go to **SET**.
2. Select **LIFE**.
3. Select a battery life (**ECON** or **LONG**).

Master/Slave

The Master/Slave mode allows a group of WELL™ Quad-Ms (slave products) to simultaneously duplicate the output of another WELL™ Quad-M (master product) without a DMX controller.

1. Set each of the slave products:
   a. Go to **RUN**.
   b. Select **SLAVE**.
2. Set the master product:
   a. Set the running mode to **DMX** (see DMX Control).
   b. Select an auto or custom program as explained in Auto Programs above, or a static mix of colors.

- The master product is the one that runs a program whether in Auto, Custom or Static Color mode.
- Do not connect a DMX controller to the products configured for Master/Slave operation. The DMX controller may interfere with signals from the master product.
- The master product should be the first product in the daisy chain.

Color Settings

The Color setting determines how the product generates the white color based on various RGB settings.

1. Go to the **SET** main level.
2. Select **COLR**.
3. Select **OFF**, **RGBW**, or **UC**.

OFF:	When all the RGB faders are set to **255**, the output is maximum, although the resulting white color may not be balanced.
RGBW:	When all the RGB faders are set to **255**, the resulting output is defined by the configured White color (see White Calibration).
UC:	When all the RGB faders are set to **255**, the output matches that of less efficient products (Universal Color).

Effect Key Programming

This setting allows you to program the effect keys on the IRC remote.

1. Go to **EDIT > EKY** level.
2. Select the desired key on the IRC remote to program (**EKY 1~6**).
3. Enter the desired program (**AT. 01~10** or **PR. 01~10**).
4. Repeat the steps to program additional effect keys.
5. Press the corresponding effect key to confirm programming.

Color Key Programming

This setting allows you to program the color keys on the IRC remote.

1. Go to **EDIT > CKY** level.
2. Select the desired key to program (**CKY 1~6**).
3. Select the desired color or effect (**RED, GREEN, BLUE,** or **STROBE**).
4. Select the desired value (**000~255** for colors or **00~20** for strobe).
5. Repeat the steps to program additional color keys.
6. Press the corresponding color key to confirm programming.

Dimmer Curves

This setting provides you with four options to simulate the dimming curve of an incandescent light product.

1. Go to the **SET** main level.
2. Select **DIMX**.
3. Select the desired dimmer curve (**OFF**, **DIM1**, **DIM2**, **DIM3**, or **DIM4**).

OFF The output is proportional (linear) to the dimmer and RGBA channel values.

DIM1~4: The output follows the dimmer and RGBA channel values based on the corresponding dimmer curve, being **DIM1** the fastest and **DIM4** the slowest.

Dimmer Curve Settings

This setting allows you to select the dimmer curve shape using the red, green, blue, amber, and dimmer faders.

1. Go to the **SET** main level.
2. Select **CURV**.
3. Select the desired dimmer curve (**OFF**, **CV1**, **CV2**, or **CV3**).

OFF This output is proportional (linear) to the Dimmer and RGBA channel values.

CV1~3 This output follows the dimmer and RGBA channel values based on the corresponding dimmer curve, being **CV1** the fastest and **CV3** the slowest.

For optimum control of the 16-bit dimming channels in the TR16 personality, be sure that both dimming curves in SET > DIMX and SET > CURV are set to OFF

Control Panel Lock

This setting enables you to activate or disable the control panel lock, which keeps non-authorized personnel from changing the product's settings.

1. Go to the **KEY** main level.
2. Select **ON** or **OFF**.

When the control panel lock is active, the product will prompt you to enter the password after 30 seconds of control panel inactivity or after turning on the product.

Password

If you are prompted to enter a password on the product, press the buttons in the following order: **UP > DOWN > UP > DOWN > ENTER**. The product's password cannot be changed and must be entered whenever you are prompted.

Settings Lock Out

This setting enables you to activate or disable the main level **SET** (settings) lock, which keeps unauthorized personnel from changing the product's settings.

1. Go to the **SET** main level.
2. Select **SLCK**.
3. Select **ON** or **OFF**.

Program Upload

This option allows you to duplicate the custom programs of a product onto another product using the Master/Slave mode.

1. Configure and connect the products in a Master/Slave arrangement, where the master product has the custom programs you want to transfer to the slave products.
2. From the master product, go to the **SET** main level.
3. Select **UPLD**.
4. When **PASS** shows, press **<ENTER>**.
5. Enter the master access password (see Control Panel Lock).
6. When **SEND** shows, press **<ENTER>** to start the upload.
7. Wait for the upload process to finish (the display will show **OK** before continuing or turning the products off.

The Master/Slave products will provide the status of the process by lighting up as follows:

- Yellow indicates that the upload process is running.
- Green indicates that the upload process completed successfully.
- Red indicates that the upload process failed due to an error. Recheck all cable connections and restart the process. If the issue persists, contact CHAUVET® Technical Support.

Do not upload the data from a WELL™ Quad-M to a different product, as the other product may become inoperative.

Resetting Factory Defaults

This setting allows you to reset the product's default values, including the custom programs.

1. Go to the **SET** main level.
2. Select **REST**.
3. When **PASS** shows, press **<ENTER>**.
4. Enter the master access password (see Control Panel Lock).
5. Wait for the reset process to finish.

Resetting Calibration Defaults

This setting allows you to reset the product's default values of the color macros in Whites Setting or Whites Calibration.

1. Go to the **CAL** main level.
2. When **PASS** shows, press **<ENTER>**.
3. Enter the master access password.
4. Go to **CALR**.
5. When **PASS** shows, press **<ENTER>**.
6. Enter the master access password.

Setting the White Color

This setting allows you to select and edit the temperature of the white colors used in channel 6 when in the **TOUR** mode or channel 11 when in **TR16** mode.

1. Go to the **CAL** main level.
2. Enter the master access password as described in Control Panel Lock.
3. Go to **CAL1**.
4. Select a white color (**WH.01~11**).
5. Select a color (**RED**, **GREN**, **BLUE**, or **AMBR**).
6. Select a color value (**000~255**).
7. Repeat for the other colors.

Calibrating the White Color

This setting allows you to calibrate the white color when **RGBW** and the DMX controller's red, green, and blue faders are set to "255".

1. Go to the **CAL** main level.
2. Enter the master access password (Control Panel Lock).
3. Go to **CAL2**.
4. Select the desired color (**RED**, **GREN**, or **BLUE**).
5. Select a desired color value (**000** to **255**).
6. Repeat the steps for additional colors.

When selecting **CAL** > **CAL2** >, you will only be able to define the values of red, green, and blue.

The values of RED, GREN (green), and BLUE configured from CAL > CAL2 > will define the color temperature shown when the RGB faders are set to "255" if SET > COLR > RGBW is active.

TOUR Notes

These notes clarify the way the **TOUR** DMX personality works.

Master Dimmer

- Channel 1 controls the intensity of the currently projected color.
- When the slider is at the highest position (**100%**), the intensity of the output is at maximum.

Red, Green, Blue, and Amber Color Selection

- Channels 2 through 5 control the intensity ratio of each of the red, green, blue, and amber LEDs.
- When these channels are at the highest position (**100%**), the intensity of each color is at maximum if **SET > COLR** is **OFF**.
- You can combine channels 2 through 5 to create over one trillion colors.

Color Macros

- Channel 6 selects the required Color Macro.
- Channel 6 has priority over channels 2 through 6.
- Channel 1 controls the intensity of the Color Macro.

Strobe

- Channel 7 controls the strobe frequency (not the intensity) of channels 2 through 6.
- Channel 7 can strobe channels 2 through 5 when not running macros, allowing the individual faders (R, G, B, and A), as well as channel 1 (D), to control the output intensity.
- Channel 7 can strobe channel 6 when running macros, allowing channel 6 to select the macro and channel 1 to control the output intensity.

Auto/Custom

- Channel 8 selects the preset auto programs **AT.01~10** or the custom programs **PR.01~10**.
- When activating the custom programs **PR.01~10**, you can control the Step Time and Fade Time using channels 2 and 3, respectively.
- Channel 8 has priority over channels 2 through 7.
- Channel 9 controls the speed at which each auto program plays.

Dimmer Speed

- Channel 10 selects the Dimmer mode and speed. The Dimmer mode provides four different options to simulate the dimming curve of an incandescent lighting product.
- When Dimmer is set to **OFF,** the changes in the RGBA and Master Dimmer faders are linear.
- When Dimmer is set to **DIM1~DIM4**, **DIM1** is the fastest dimmer curve and **DIM4** is the slowest.

Menu Map

Main Level	Programming Levels				Description
STAT	RED		000~255		Combine Red, Green, Blue, and Amber to make a custom color
	GREN				
	BLUE				
	AMBR				
	STRB		00~20		Selects the strobe frequency (0~20 Hz)
AUTO	AT.		01~10	P. 000~255	10 automatic programs
	PR.				10 customizable programs
RUN	DMX				DMX mode
	SLAV				Master/Slave mode
ADDR	D.		001~512		Selects the DMX starting address
PERS	TOUR				10 Channels: R/G/B/A, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed
	TR16				15 Channels: 16-bit- R/G/B/A and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed
	ARC.1				3-channel: R/G/B control
	AR1.D				4-channel: R/G/B, dimmer
	ARC.2				4-channel: R/G/B/A control
	AR2.D				5-channel: R/G/B/A, dimmer
	AR2.S				6-channel: R/G/B/A, dimmer, strobe
	HSV				3-channel: HSV control
EDIT	PR. 01~10	SC. 01~30	RED	000~255	Combine Red, Green, Blue, and Amber to generate a custom color (0~100%)
			GREN		
			BLUE		
			AMBR		
			STRB	00~20	Selects the strobe frequency (0~20 Hz)
			TIME	000~255	Defines the step duration (0~100%)
			FADE		Defines the fade duration (0~100%)
	EKY	1~6	AT.	01~10	Assigns automatic programs to the auto keys on the IRC
			PR		Assigns custom programs to the auto keys on the IRC
	CKY	1~6	RED	000~255	Assigns color and intensity to the color keys on the IRC
			GREN		
			BLUE		
			AMBR		
			STRB	00~20	Assigns strobe and frequency to the color keys on the IRC

Menu Map (Cont.)

Main Level	Programming Levels					Description
SET	**KEY**			**ON**		Turns the password on or off
				OFF		
	UPLD			**PASS** (Enter Passcode)	**SEND/ OK**	Uploads custom programs to other WELL™ Quad-Ms
	REST			**PASS** (Enter Passcode)	**SEND/ OK**	Defaults product to factory settings
	COLR			**OFF**		RGB set to “255” = max. output
				RGBW		RGB set to “255” = balanced white
				UC.		Universal color balance
	DIMX			**OFF**		No dimmer
				DIM1		Dimmer curve
				DIM2		
				DIM3		
				DIM4		
	CURV			**OFF**		No dimmer
				CV1		Slow (**CV3**) to fast (**CV1**) dimmer curves
				CV2		
				CV3		
	DERR			**SAVE**		Blacks out fixture upon loss of DMX
				BLAK		Continues with last command upon loss of DMX control
	SLCK			**OFF**		**SET** main level access lock
				ON		
	STRB			**SPEC**		Selects strobe personality used in **TOUR**, and **TR16** personalities
				CLAS		
	LIFE			**LONG**		Long run time (approx. 12 hours)
				ECON		Standard run time (approx. 10 hours)
CAL	**PASS** (Enter Passcode)	**CAL1**	**WH. 01~11**	**RED**	**000~255**	Modifies the color macros used in the **TOUR** and **TR16** personalities
				GREN		
				BLUE		
				AMBR		
		CAL2		**RED**		Defines the color temperature used when **COLR** is set to **RGBW**
				GREN		
				BLUE		
		CALR		**PASS** (Enter Passcode)		Defaults **CAL** to factory settings
WDMX	**ACTI**			**ON**		Activates/deactivates W-DMX™ receiver
				OFF		
	REST	**NO**				Resets receiver to pair with transmitter
		YES		**OK**		

DMX Values

TOUR

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%
2	**Red**	000 ó 255	0~100% (**Step Time** if Custom 1~10 active)
3	**Green**	000 ó 255	0~100% (**Fade Time** if Custom 1~10 active)
4	**Blue**	000 ó 255	0~100%
5	**Amber**	000 ó 255	0~100%
6	**Color Macro + White Balance**	000 ó 010	No Function
		011 ó 030	R: 100% G: 0~100% B: 0
		031 ó 050	R: 100%~0 G: 100% B: 0
		051 ó 070	R: 0 G: 100% B: 0~100%
		071 ó 090	R: 0 G: 100%~0 B: 100%
		091 ó 110	R: 0~100% G: 0 B: 100%
		111 ó 130	R: 100% G: 0 B: 100%~0
		131 ó 150	R: 100% G: 0~100% B: 0~100%
		151 ó 170	R: 100%~0 G: 100%~0 B: 100%
		171 ó 200	R: 100% G: 100% B: 100% A: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
		231 ó 235	White 7
		236 ó 240	White 8
		241 ó 245	White 9
		246 ó 250	White 10
		251 ó 255	White 11
7*	**Special Strobe**	000 ó 009	No Function
		010 ó 099	Slow to Fast
		100 ó 109	No Function
		110 ó 179	Lighting Effect Slow to Fast
		180 ó 189	No Function
		190 ó 255	Random
	Classic Strobe	000 ó 009	No Function
		010 ó 019	1 Hz
		020 ó 029	2 Hz
		030 ó 039	3 Hz
		040 ó 049	4 Hz
		050 ó 059	5 Hz
		060 ó 069	6 Hz
		070 ó 079	7 Hz
		080 ó 089	8 Hz
		090 ó 099	9 Hz
		100 ó 109	10 Hz
		110 ó 119	11 Hz
		120 ó 129	12 Hz
		130 ó 139	13 Hz
		140 ó 149	14 Hz
		150 ó 159	15 Hz
		160 ó 169	16 Hz
		170 ó 179	17 Hz
		180 ó 189	18 Hz
		190 ó 199	19 Hz
		200 ó 255	20 Hz

*Select strobe function in the main menu under **SET > STRB**, select **SPEC** or **CLAS**

DMX Values (Cont.)

TOUR (Cont.)

Channel	Function	Value	Percent/Setting
8	**Programs**	000 ó 040	No Function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
		191 ó 200	Custom 6
		201 ó 210	Custom 7
		211 ó 220	Custom 8
		221 ó 230	Custom 9
		231 ó 255	Custom 10
9	**Auto Speed**	000 ó 255	0~100%
10	**Dimmer Speed**	000 ó 009	Preset dimmer speed from display menu
		010 ó 029	Linear dimmer
		030 ó 069	Nonlinear dimming curve 1 (fastest)
		070 ó 129	Nonlinear dimming curve 2
		130 ó 189	Nonlinear dimming curve 3
		190 ó 255	Nonlinear dimming curve 4 (slowest)

DMX Values (Cont.)

TR16

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%
2	**Fine Dimmer**	000 ó 255	0~100%
3	**Red**	000 ó 255	0~100%
4	**Fine Red**	000 ó 255	0~100%
5	**Green**	000 ó 255	0~100%
6	**Fine Green**	000 ó 255	0~100%
7	**Blue**	000 ó 255	0~100%
8	**Fine Blue**	000 ó 255	0~100%
9	**Amber**	000 ó 255	0~100%
10	**Fine Amber**	000 ó 255	0~100%
11	**Color Macro + White Balance**	000 ó 010	No Function
		011 ó 030	R: 100% G: 0~100% B: 0
		031 ó 050	R: 100%~0 G: 100% B: 0
		051 ó 070	R: 0 G: 100% B: 0~100%
		071 ó 090	R: 0 G: 100%~0 B: 100%
		091 ó 110	R: 0~100% G: 0 B: 100%
		111 ó 130	R: 100% G: 0 B: 100%~0
		131 ó 150	R: 100% G: 0~100% B: 0~100%
		151 ó 170	R: 100%~0 G: 100%~0 B: 100%
		171 ó 200	R: 100% G: 100% B: 100% A: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
		231 ó 235	White 7
		236 ó 240	White 8
		241 ó 245	White 9
		246 ó 250	White 10
		251 ó 255	White 11

DMX Values (Cont.)

TR16 (Cont.)

Channel	Function	Value	Percent/Setting
12*	**Special Strobe**	000 ó 009	No Function
		010 ó 099	Slow to Fast
		100 ó 109	No Function
		110 ó 179	Lighting Effect Slow to Fast
		180 ó 189	No Function
		190 ó 255	Random
	Classic Strobe	000 ó 009	No Function
		010 ó 019	1 Hz
		020 ó 029	2 Hz
		030 ó 039	3 Hz
		040 ó 049	4 Hz
		050 ó 059	5 Hz
		060 ó 069	6 Hz
		070 ó 079	7 Hz
		080 ó 089	8 Hz
		090 ó 099	9 Hz
		100 ó 109	10 Hz
		110 ó 119	11 Hz
		120 ó 129	12 Hz
		130 ó 139	13 Hz
		140 ó 149	14 Hz
		150 ó 159	15 Hz
		160 ó 169	16 Hz
		170 ó 179	17 Hz
		180 ó 189	18 Hz
		190 ó 199	19 Hz
		200 ó 255	20 Hz
13	**Programs**	000 ó 040	No Function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
		191 ó 200	Custom 6
		201 ó 210	Custom 7
		211 ó 220	Custom 8
		221 ó 230	Custom 9
		231 ó 255	Custom 10

*Select strobe function in the main menu under **SET > STRB**, select **SPEC** or **CLAS**

DMX Values (Cont.)

TR16 (Cont.)

Channel	Function	Value	Percent/Setting
14	**Auto Speed**	000 ó 255	0~100%
15	**Dimmer Speed**	000 ó 009 010 ó 029 030 ó 069 070 ó 129 130 ó 189 190 ó 255	Preset dimmer speed from display menu Linear dimmer Nonlinear dimming curve 1 (fastest) Nonlinear dimming curve 2 Nonlinear dimming curve 3 Nonlinear dimming curve 4 (slowest)

ARC.1

Channel	Function	Value	Percent/Setting
1	**Red**	000 ó 255	0~100%
2	**Green**	000 ó 255	0~100%
3	**Blue**	000 ó 255	0~100%

AR1.D

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%
2	**Red**	000 ó 255	0~100%
3	**Green**	000 ó 255	0~100%
4	**Blue**	000 ó 255	0~100%

ARC.2

Channel	Function	Value	Percent/Setting
1	**Red**	000 ó 255	0~100%
2	**Green**	000 ó 255	0~100%
3	**Blue**	000 ó 255	0~100%
4	**Amber**	000 ó 255	0~100%

AR2.D

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%
2	**Red**	000 ó 255	0~100%
3	**Green**	000 ó 255	0~100%
4	**Blue**	000 ó 255	0~100%
5	**Amber**	000 ó 255	0~100%

DMX Values (Cont.)

AR2.S

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%
2	**Red**	000 ó 255	0~100%
3	**Green**	000 ó 255	0~100%
4	**Blue**	000 ó 255	0~100%
5	**Amber**	000 ó 255	0~100%
6	**Classic Strobe**	000 ó 009 010 ó 019 020 ó 029 030 ó 039 040 ó 049 050 ó 059 060 ó 069 070 ó 079 080 ó 089 090 ó 099 100 ó 109 110 ó 119 120 ó 129 130 ó 139 140 ó 149 150 ó 159 160 ó 169 170 ó 179 180 ó 189 190 ó 199 200 ó 255	No Function 1 Hz 2 Hz 3 Hz 4 Hz 5 Hz 6 Hz 7 Hz 8 Hz 9 Hz 10 Hz 11 Hz 12 Hz 13 Hz 14 Hz 15 Hz 16 Hz 17 Hz 18 Hz 19 Hz 20 Hz

HSV

Channel	Function	Value	Percent/Setting
1	**Hue**	000 ó 255	0~100%
2	**Saturation**	000 ó 255	0~100%
3	**Value**	000 ó 255	0~100%

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean your product:

- Unplug the product from power.
- Wait until the product is at room temperature.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and accessible internal components.
- Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Wipe any dirt or grime to the outside edges of the lens surface.
- Gently polish the lens surfaces until they are free of haze and lint.

Always dry the external surfaces thoroughly and carefully after cleaning them.

Returns

You must send the product prepaid, in the original box, and with the original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

Clearly label the package with an RMA number. CHAUVET® will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
6.06 in (154 mm)	6.06 in (154 mm)	11.32 in (287 mm)	12.2 lb (5.53 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

Power Supply Type	Range	Voltage Selection
Switching (External)	100~240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption (Single Product)	79 W	84 W
Consumption (Flight Case)	474 W	504 W
Operating(Single Product)	.65 A	.36 A
Operating (Flight Case)	3.9 A	2.16 A
Fuse (Flight Case)	6.3 A, 250 V	6.3 A, 250 V

Power I/O	U.S./Worldwide	Europe
Power input connector (Single product)	Proprietary	Proprietary
Power input connector (Flight case)	Neutrik® powerCON® A/IEC	Neutrik® powerCON® A/IEC
Power cord plug	Edison (U.S.)	Local plug

Light Source

Type	Power	Lifespan
LED	40 W	50,000 hours

Color	Quantity	Current
quad-color RGBA	1	650 mA

Photo Optic

Parameter	Standard Optics	with Color Filter
Illuminance @ 5 m	504 lx	246 lx
Beam angle	9º	15º
Field angle	22.5º	28º

Thermal

Max. External Temperature	Cooling System
104 °F (40 °C)	Convection

DMX

I/O Connectors	Connector Type	Channel Range
3- and 5-pin XLR	Sockets	3, 4, 5, 6, 10, 15

Ordering

Product Name	Item Code	UPC Number
WELL™ Quad-M	01030719	781462210670
WELL™ Quad-M x 6	01030736	781462210847

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