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WasherACCU 1820
IP WDMX

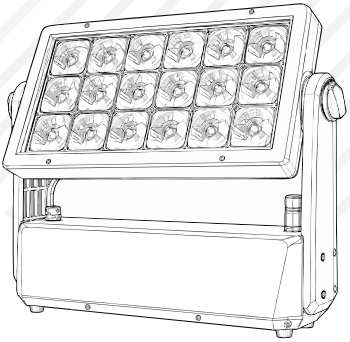
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User Manual

IP65 LED 0,2 m

KEEP THIS MANUAL FOR FUTURE REFERENCE



series EVENT by FLASH

WasherACCU 1820 IP WDMX

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INTRODUCTION

Thank you for choosing the Flash Event **WasherACCU 1820 IP WDMX** and adding it to your lighting equipment inventory.
We hope this fixture meets your expectations and inspires creative solutions in your future lighting projects.

FOR SAFETY REASONS AND TO ENSURE RELIABLE OPERATION, PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THE FIXTURE.

SAFETY INFORMATION



WARNING! Exercise extreme caution when operating the fixture. Dangerous voltages are present inside the unit — contact with electrical components may result in severe electric shock.

To ensure safe and reliable long-term operation, the user must comply with all safety instructions and warnings provided in this user manual.



IMPORTANT! Damage resulting from failure to follow the instructions in this manual may not be covered by the warranty. To the extent permitted by applicable law, the manufacturer and seller shall not be liable for damage resulting from improper use of the fixture or failure to follow the manufacturer's recommendations.

If the fixture has been exposed to sudden temperature changes, for example during transportation, do not switch it on immediately. Moisture condensation may damage electronic components. Before switching on the fixture, allow it to reach ambient temperature and dry completely.



IMPORTANT! The fixture can be powered by an AC 100–240 V, 50/60 Hz mains supply or its built-in battery. When using mains power, ensure that the supply parameters meet the fixture's requirements. The protective earth (PE) conductor must be properly connected to earth.

Regularly inspect the condition of power cables and connectors. Do not use damaged cables or improperly made connections. Exercise particular caution when connecting or disconnecting cables. When the fixture is not in use, it is recommended to disconnect it from the mains power supply.



WARNING! The fixture must only be placed on a stable surface or installed using suitable mounting hardware. An improperly secured fixture may tip over or fall, causing personal injury or equipment damage.

WARNING! During installation, use mounting hardware suitable for the weight of the fixture and its intended application. All brackets, bolts and connections must be properly secured and protected against accidental loosening.

WARNING! When installing the fixture overhead, always use an independent secondary safety attachment, such as a suitable safety cable. Safety components must be rated for the weight of the fixture and comply with applicable safety requirements.

WARNING! Do not look directly into the light source while the fixture is operating. Intense light radiation, including UV radiation, may pose a risk of eye injury.



IMPORTANT! Do not direct powerful external light sources at the fixture's optical components. This may cause excessive heating or damage to the optical components.

WARNING! Do not connect the fixture to dimmer packs or voltage regulation systems that are not designed for use with this fixture.

IMPORTANT! Before first use, carefully unpack the fixture and inspect it for any damage that may have occurred during transportation. If any damage is found, do not operate the fixture. Contact the seller or an authorized service center.



WARNING! If the fixture malfunctions, stop using it immediately. Do not attempt to repair the fixture yourself. Repairs must only be carried out by qualified personnel using appropriate replacement parts.

IMPORTANT! Before cleaning or performing maintenance, disconnect the fixture from the mains power supply and switch it off. Remember that the built-in battery remains a source of electrical energy even after the power cable has been disconnected. The fixture contains no user-serviceable parts.

WARNING! The fixture is equipped with a lithium battery. Do not expose the battery to fire, excessive heat or mechanical damage, and do not attempt to disassemble it. If the housing becomes deformed, abnormal heating, leakage or any other signs of battery damage occur, immediately stop using and charging the fixture.

IMPORTANT! Only charge the battery using the designated power supply system. Do not use damaged cables, connectors or incompatible charging equipment.

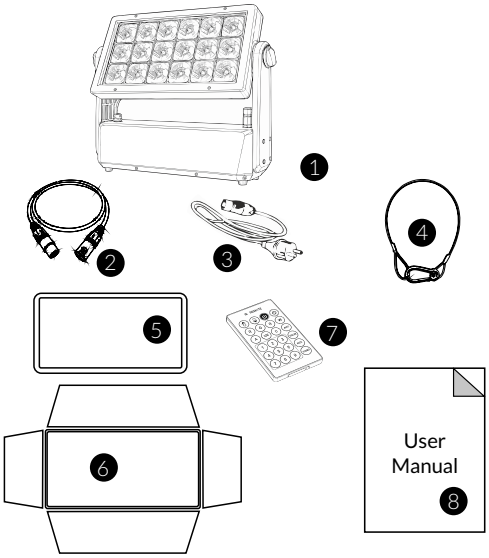
IMPORTANT! The fixture has an IP65 protection rating. Protection against dust and water ingress is ensured only when the housing is properly closed and all connectors are adequately sealed. Before outdoor use, inspect the condition of seals, protective caps and connections.

IMPORTANT! The maximum ambient operating temperature is 40°C. Do not operate the fixture in environments where the temperature exceeds this limit.

WARNING! The fixture housing may become hot during operation. Do not touch hot surfaces or obstruct components responsible for heat dissipation. Install the fixture at a safe distance from flammable materials.

WARNING! Do not modify the fixture or interfere with its construction, electronic circuits or battery. Unauthorized modifications may damage the fixture and create a risk of fire, burns or electric shock.

PACKAGE CONTENTS



The package contains
the following items:

1. WasherACCU 1820 (1 pc.)
2. DMX Cable (1 pc.)
3. TrueCON Power Cable (1 pc.)
4. Steel Safety Cable (1 pc.)
5. Frost Filter (1 pc.)
6. Barndoor (1 pc.)
7. IR Remote Control (1 pc.)
8. User Manual (1 pc.)

INSTALLATION

WARNING! The fixture must be installed away from pedestrian traffic areas, seating areas and locations accessible to unauthorized persons.

WARNING! Before installation, ensure that the mounting surface or supporting structure can withstand a static load of at least 10 times the weight of the fixture.

WARNING! When installed overhead, the fixture must always be secured with an additional, independent secondary safety system, such as a suitably rated safety cable.

WARNING! It is strictly prohibited to remain beneath the installation area during installation, removal or servicing of the fixture.

IMPORTANT! The minimum distance between the fixture and flammable materials must be at least 0.5 m.

WARNING! Overhead installation must only be carried out by qualified personnel with appropriate experience in:
- Calculating static and dynamic loads
- Selecting suitable mounting hardware
- Assessing supporting structures
- Performing periodic installation inspections

Improper installation may result in serious injury or death.

CAUTION! Before operating the fixture, ensure that all mounting components have been properly installed, secured and inspected.

CLAMP MOUNTING

CAUTION! Use only mounting hardware with an appropriate load capacity, designed for the intended type of installation.

The fixture features a stable base for placement on a flat surface and dedicated mounting points on the underside of the housing. The two central holes are designed for attaching an Omega bracket, while the holes on either side of the base are intended for securing a safety cable.

For truss mounting, attach the Omega bracket to the central mounting points on the fixture base, then secure a suitable mounting clamp to the bracket. All connections must be properly secured against loosening.

The fixture head is supported by two side brackets that allow the tilt angle to be adjusted. Once the desired position has been set, tighten the locking knobs on both sides of the fixture.

IMPORTANT! If any looseness is detected between mounting components, immediately inspect and tighten the affected connections. Do not operate the fixture with loose mounting hardware.

WARNING! Regardless of the mounting method used, any fixture suspended overhead must always be secured with an independent safety cable.

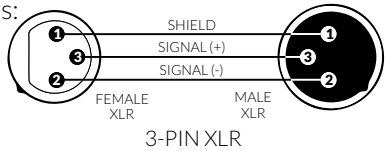
The safety cable must only be attached to the dedicated safety attachment points located on both sides of the fixture base. Do not attach the safety cable to adjustment knobs, cables, connectors or any other components not designed for this purpose.

WARNING! The safety cable must have a suitable load capacity for the weight of the fixture and the installation conditions, and must comply with applicable safety requirements.

CONNECTIONS AND SETTINGS

The fixture is equipped with the following connectors:

1. DMX (input/output): 3-pin XLR connectors
2. Power (input/output): TrueCON connectors

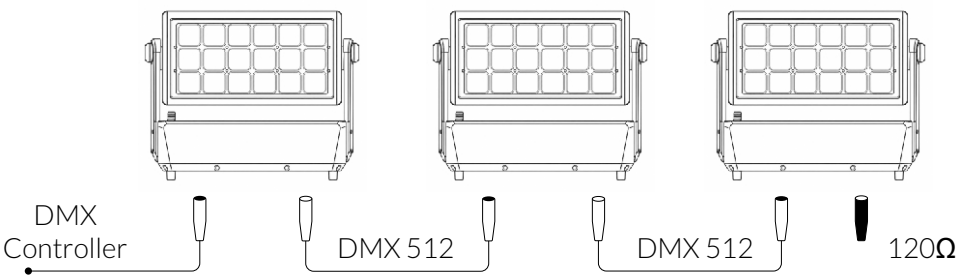


3-PIN XLR

The connection is made using a cable fitted with female and male XLR connectors.

CAUTION! The DMX signal must be terminated at the last fixture in the DMX chain. Solder a 120 **Ω** resistor between the signal (–) and signal (+) pins of an XLR connector, then connect it to the DMX output of the last fixture.

DMX Cable Connection Diagram



Power connection and operating conditions

The power connection is made using the supplied power cable with a TrueCON connector. The fixture should only be operated by qualified personnel.

CAUTION! If the power cable is damaged, do not attempt to repair it yourself. Replacement or repair must only be carried out by the manufacturer or appropriately qualified personnel.

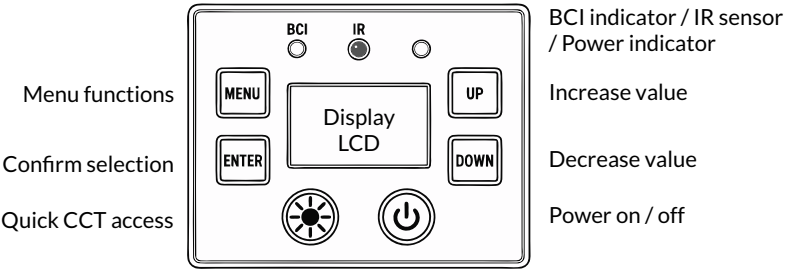
During operation, voltage fluctuations should remain within ±10%. Excessively high voltage may shorten the lifespan of the light source, while insufficient voltage may reduce its performance or cause improper operation.

After switching off the fixture, wait 20 minutes before switching it on again to allow it to cool down. Frequent switching on and off may affect the lifespan of the light sources.

IMPORTANT! A maximum of 4 fixtures may be connected in a power daisy chain.

Voltage Specifications

AC Input Voltage	Frequency	Total Power Consumption
100-240 [V]	50-60 [Hz]	360 [W]



Setting the DMX address

□ Press the MENU button to access the fixture settings.
□ Use the MENU button to select ADDRESS, then press ENTER.
□ Set the required DMX address (001–512) using the UP and DOWN buttons. Press ENTER to confirm.
□ Press MENU repeatedly until CHANNEL appears. Select the required DMX mode (2CH, 6CH, 8CH or 11CH) and press ENTER to confirm.
□ Press MENU repeatedly until CURVE appears. Select one of the four available dimming curves and press ENTER to confirm.
□ Press MENU repeatedly until DMX FAIL appears. Select how the fixture should respond if the DMX signal is lost:
- HOLD – The fixture retains the last received DMX values.
- BLACKOUT – The fixture turns off the light output.
Press ENTER to confirm the selected option.
□ Press MENU repeatedly until ADDRESS appears again. The fixture is now ready to operate in the selected DMX mode.

Setting Wireless DMX

□ Press MENU repeatedly until WIRELESS DMX appears, then press ENTER.
□ Use the UP and DOWN buttons to select ON (enable) or OFF (disable) for the Wireless DMX function. Press ENTER to confirm.
□ After confirmation, the fixture will proceed to the GROUP ID option. Use the UP and DOWN buttons to select one of the seven available groups (1–7).
□ Press ENTER to confirm the selected group.

Setting the PWM frequency (FREQUENCY)

□ Press MENU repeatedly until FREQUENCY appears, then press ENTER.
□ Use the UP and DOWN buttons to set the required PWM frequency within the range of 0.6–25 kHz.
□ Press ENTER to confirm the selected setting.

IMPORTANT! Proper PWM frequency adjustment helps reduce flickering and banding when recording with a camera. The optimal value depends on the camera settings.

Setting custom colors (CUSTOM)

□ Press MENU repeatedly until CUSTOM appears, then press ENTER.
□ Use the UP and DOWN buttons to select a color component: RED, GREEN, BLUE, WHITE, AMBER (YELLOW) or UV.
□ Press ENTER to adjust the selected color.
□ Use the UP and DOWN buttons to set a value from 0 to 255.
□ Press ENTER to confirm the setting. Repeat these steps for the remaining colors.

Selecting built-in programs (PROGRAM)

□Press MENU repeatedly until PROGRAM appears, then press ENTER.
□ Use the UP and DOWN buttons to select the required operating mode and press ENTER to confirm.

Mode	Description
STATIC	Selection of one of 32 colors; SPEED 00–16
AUTO	Automatic color changes; SPEED 00–16
FADE	Smooth color transitions; SPEED 00–16
SOUND	Four sound-activated programs (01–04); SENS 00–99
CCT	Color temperature adjustment from 2000 to 10000 K

□ Use the UP and DOWN buttons to adjust the available parameters of the selected mode and press ENTER to confirm.

IMPORTANT! In STATIC mode, setting SPEED to 00 provides continuous light output without a strobe effect.

Setting the color temperature (CCT)

□ Press MENU repeatedly until PROGRAM appears, then press ENTER.
□ Use the UP and DOWN buttons to select CCT and press ENTER to confirm.
□ Set the required color temperature within the range of 2000–10000 K.
□ Press ENTER to confirm the setting.

Battery power and charging

Setting the battery runtime (RUN TIME)

□ Press MENU repeatedly until RUN TIME appears, then press ENTER.
□ Use the UP and DOWN buttons to select the required battery runtime: 2, 3, 4, 5, 6, 7 or 8 hours.
□ Press ENTER to confirm the selected setting.

IMPORTANT! The fixture automatically adjusts its maximum light output according to the selected runtime, optimizing battery power consumption. Actual runtime may vary depending on the battery charge level and operating conditions.

Charging the battery

The fixture is equipped with a built-in lithium-ion (Li-ion) battery. A full charge takes approximately 6 hours.

For a set of 4 fixtures, charging can be carried out directly inside the transport case. Each fixture must be connected to an internal power outlet using a TrueCON cable. Then connect the case to an AC 100–240 V, 50/60 Hz mains supply using the external TrueCON power connector (POWER IN).

During charging, the charging screen appears on the fixture's display. A green LED indicator illuminates when the battery is fully charged.

IMPORTANT! It is recommended to charge the batteries with the transport case open to ensure adequate ventilation and heat dissipation. Do not leave the fixtures unattended while charging.

Operation during charging

The fixture can operate while the battery is charging. To exit the charging screen and enter normal operating mode, press the MENU button.

System settings

KEY POWER – Power button control
□ Press MENU repeatedly until KEY POWER appears, then press ENTER.
□ Use the UP and DOWN buttons to select ON or OFF.
□ Press ENTER to confirm the setting.

BLACK LIGHT – Display backlight
□ Press MENU repeatedly until BLACK LIGHT appears, then press ENTER.
□ Use the UP and DOWN buttons to select ALWAYS ON, 10 s, 20 s or 30 s.
□ Press ENTER to confirm the setting.

IR – Remote control
□ Press MENU repeatedly until IR appears, then press ENTER.
□ Use the UP and DOWN buttons to select ON or OFF.
□ Press ENTER to confirm the setting.

MENU LOCK – Control panel lock
□ Press MENU repeatedly until MENU LOCK appears, then press ENTER.
□ Use the UP and DOWN buttons to select ON or OFF.
□ Press ENTER to confirm the setting.

IMPORTANT! To unlock the control panel, press and hold the UP and DOWN buttons simultaneously until the panel is unlocked.

FACTORY RESET – Restore factory settings
□ Press MENU repeatedly until FACTORY RESET appears, then press ENTER.
□ Use the UP and DOWN buttons to select YES to restore factory settings or NO to cancel.
□ Press ENTER to confirm the selection.

INFORMATION – Fixture information
□ Press MENU repeatedly until INFORMATION appears.
□ Press ENTER to display the fixture's firmware version.

DMX CHARTS

Mode 2 CH					
Ch	**Function**	**Value**	**Description**	**Default**	**Highlight / locate**
1	Dimmer	0–255	Dimmer	0	255
2	CTC	0–10	No function	128	128
		11–240	CTC		
		241–255	No function		

Mode 6 CH					
Ch	**Function**	**Value**	**Description**	**Default**	**Highlight / locate**
1	Red	0-255	Red min - max	0	255
2	Green	0-255	Green min - max	0	255
3	Blue	0-255	Blue min - max	0	255
4	White	0-255	White min - max	0	0
5	Amber	0-255	Amber min - max	0	0
6	UV	0-255	UV fine min - max	0	0

Mode 8 CH					
Ch	**Function**	**Value**	**Description**	**Default**	**Highlight / locate**
1	Dimmer	0–255	Dimmer	0	255
2	Shutter	0–10	Open	0	0
		11–255	Strobe 1–25 Hz		
3	Red	0–255	Red min – max	0	255
4	Green	0–255	Green min – max	0	255
5	Blue	0–255	Blue min – max	0	255
6	White	0–255	White min – max	0	0
7	Amber	0–255	Amber min – max	0	0
8	UV	0–255	UV fine min – max	0	0

Mode 11 CH					
Ch	**Function**	**Value**	**Description**	**Default**	**Highlight / locate**
1	Dimmer	0–255	Dimmer	0	255
2	Red	0–255	Red min – max	0	255
3	Green	0–255	Green min – max	0	255

4	Blue	0–255	Blue min – max	0	255
5	White	0–255	White min – max	0	0
6	Amber	0–255	Amber min – max	0	0
7	UV	0–255	UV fine min – max	0	0
8	Shutter	0–10	Open	0	0
		11–255	Strobe 1–25 Hz		
9	CTC	0–10	No function	0	0
		11–240	CTC		
		241–255	No function		
10	Color macro	0–255	Macro	0	0
11	Macro speed	0–255	Macro speed	0	0

MENU STRUCTURE

Display mode	Submenu	Value	Function
Address		001-512	Address code mode
Channel		2CH	2- channel mode
		6CH	6- channel mode
		8CH	8- channel mode
		11CH	11- channel mode
DMX Fail		Blackout	Control panel data black filed
		Hold	Control panel data retention
Frequency		600 Hz	600 Refresh Frequency
		1200 Hz	1200 Refresh Frequency
		2000 Hz	2000 Refresh Frequency
		4000 Hz	4000 Refresh Frequency
		12 kHz	12K Refresh Frequency
		25 kHz	25K Refresh Frequency
Custom		Red: 0-255	Red manual dimming
		Green: 0-255	Green manual dimming
		Blue: 0-255	Blue manual dimming
		White: 0-255	White manual dimming
		Amber: 0-255	Amber (Yellow) manual dimming
		UV: 0-255	Purple manual dimming
Program	Static	Colour: 01-32	32 Types Static Color Mixing
		Speed: 00-16	Strobe Speed (static color mixing when the speed is 00)
	Auto	Speed: 00-16	Color Jump
	Fade	Speed: 00-16	Color Gradient Change
	Sound	Sound: 01 / Sens: 00-99	Voice controlled color change
		Sound: 02 / Sens: 00-99	Voice controlled mutation
		Sound: 03 / Sens: 00-99	Voice controlled color change strobe

Program	Sound	Sound: 04 / Sens: 00-99	Voice controlled color change+mutation+color change strobe
	CCT	2000-10000K	Color temperature 2000-10000K
WIFI		LED_XXX	WIFI Mode and link address
Wireless		DMX (ON/OFF)	Wireless 2.4G on/off
		Group ID:1-7	7 frequency bands (red/green/yellow/blue/purple/cyan/white)
Run Time		2/3/4/5/6/7/8 hours	Lamp usage time setting
Key Power		ON/OFF	One click on/off (MENU key for this function)
Black Light		Always on	Display Normally Open
		10s	Display standby for 10 seconds and turn off screen
		20s	Display standby for 20 seconds and turn off screen
		30s	Display standby for 30 seconds and turn off screen
IR		ON/OFF	Infrared remote control on/off
Menu Lock		ON/OFF	Key lock on/off (When locking the screen, long press the UP+DOWN key to unlock)
Factory Reset		NO/YES	System self check reset
Curve		Led Curve 1	Linear curve
		Led Curve 2	Square curve
		Led Curve 3	Logarithmic curve
		Led Curve 4	s-curve
Information		Version V11	Software version

IR REMOTE / MOBILE APP

IR REMOTE CONTROL

The fixture can be controlled remotely using an infrared (IR) remote control. Before use, enable the IR function in the fixture's menu.

Button	Function
Brightness + / –	Increase or decrease brightness and adjust effect speed.
ON	Turn on the light output.
OFF	Turn off the light output.
R, G, B, W, A, UV	Select one of six basic colors.
1–9	Select one of nine preset colors.
AUTO	Automatic color changes.
STROBE	Activate the strobe effect.
FADE	Smooth transitions between colors.
SOUND	Activate sound-controlled effects.



IMPORTANT! In AUTO, STROBE and FADE modes, the adjustment buttons control the effect speed. In SOUND mode, they are used to adjust the sound-controlled effect settings.

WI-FI CONTROL (MOBILE APP)

The WasherACCU 1820 IP WDMX can be controlled wirelessly using the LED LAMP (Stage LED LIGHT) app, available for Android and iOS mobile devices.

Connecting the fixture to the app

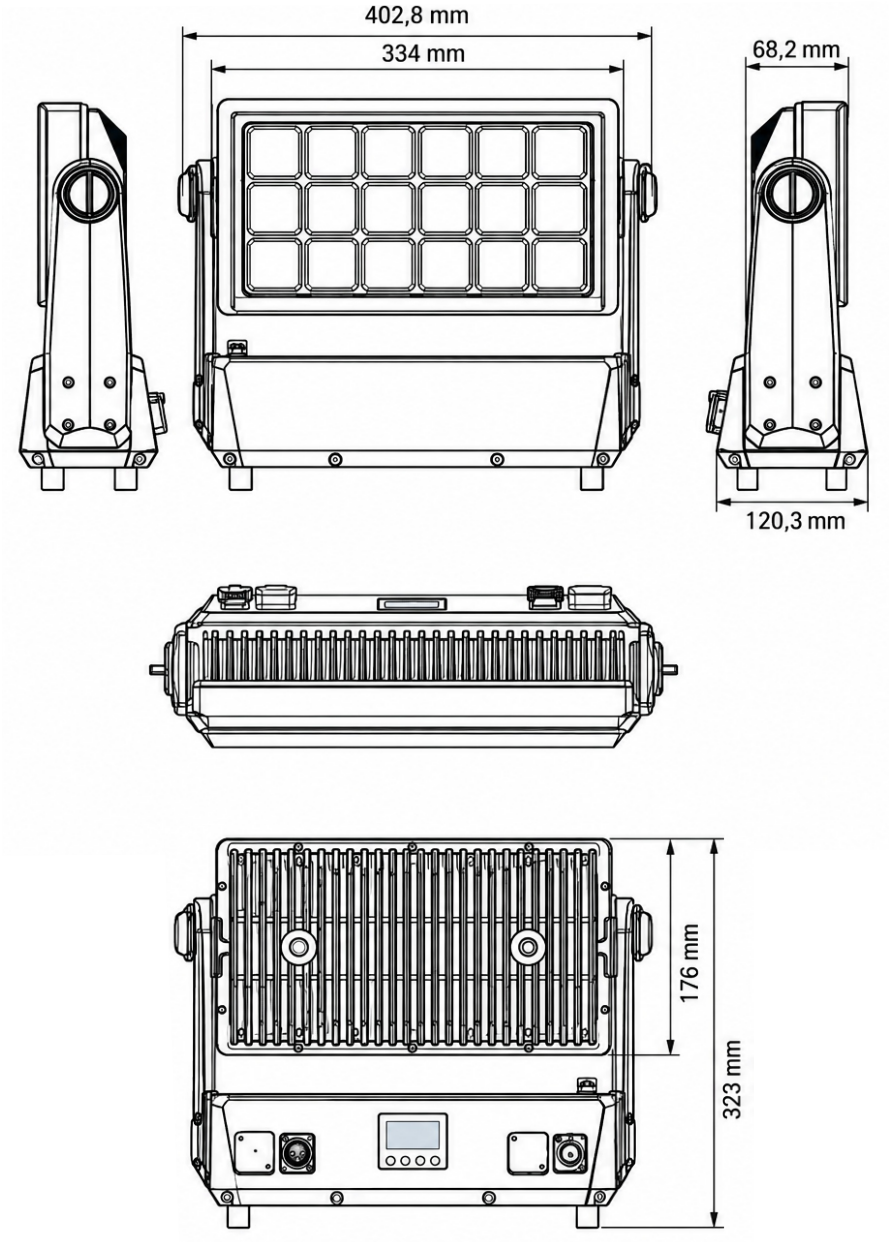
SCAN TO DOWNLOAD THE APP

- Install the LED LAMP (Stage LED LIGHT) app on your smartphone or tablet.
- Press MENU repeatedly until PROGRAM appears, then select WIFI mode.
- Enable Wi-Fi on your mobile device and search for available wireless networks.
- Select the fixture's network with a name beginning with LED_ (e.g. LED_XXX) and connect to it.
- Launch the LED LAMP app. Once the connection is established, you can control the fixture's lighting functions.

IMPORTANT! When using the app, your mobile device must be connected to the Wi-Fi network broadcast by the fixture. The availability of individual control functions depends on the app version.

TECHNICAL DRAWINGS

Dimensions (mm)



TROUBLESHOOTING

A. The fixture does not turn on or emit light

1. Check the power cable connection and mains voltage.
2. Check the battery charge level. If necessary, connect the fixture to the power supply and charge the battery.
3. Make sure the fixture is switched on and BLACKOUT mode is not active.
4. Check the brightness settings and selected operating mode.
5. If the fixture still does not operate, contact an authorized service center.

B. No response to DMX control

1. Check that the DMX cables are properly connected and inspect the condition of the XLR connectors.
2. Check the DMX address and selected channel mode (2CH, 6CH, 8CH or 11CH).
3. Make sure the DMX controller is sending signals to the correct channels.
4. Check the DMX FAIL setting and the channel values responsible for brightness and light output.
5. If interference occurs, check the DMX terminator (120 **Ω**) and signal cable routing.
6. Try using a different DMX cable or controller.

C. No response to Wireless DMX

1. Check that WIRELESS DMX is enabled (ON).
2. Make sure the transmitter and receiver are operating in the correct GROUP ID (1–7).
3. Check that the transmitter is sending a DMX signal.
4. Check the DMX address and channel mode settings.
5. Minimize obstacles between the transmitter and the fixture, and check for strong radio interference nearby.

D. Battery runtime is too short

1. Check the battery charge level.
2. Check the RUN TIME setting (2–8 hours).
3. Remember that actual runtime depends on light output intensity, selected colors and operating conditions.
4. If the runtime is significantly shorter than expected, have the battery inspected by an authorized service center.

E. The fixture turns off the light output or reduces brightness

1. Check the brightness settings, programs and RUN TIME function.
2. Make sure the fixture is not operating in an excessively high ambient temperature.
3. Check that the heat dissipation components are not obstructed or dirty.
4. Allow the fixture to cool down before switching it on again.

CLEANING AND MAINTENANCE

Regular maintenance and cleaning help maintain optimal light output and ensure reliable operation of the fixture. Cleaning frequency depends on operating conditions, particularly the amount of dust and dirt in the environment.

□ Before cleaning, switch off the fixture, disconnect it from the power supply and allow it to cool down completely.
□ Clean the optical surface with a soft, lint-free cloth. If necessary, use a small amount of cleaning solution specifically designed for optical surfaces.
□ Regularly remove dust and dirt from the housing and heat sink responsible for passive heat dissipation.
□ Do not use harsh detergents, solvents or abrasive materials that may damage the fixture's surfaces.
□ Regularly inspect the condition of power and signal cables, connectors, seals, mounting hardware and the safety cable.
□ After cleaning, ensure that all components are completely dry before switching the fixture on again.

IMPORTANT! Do not open the housing or attempt to repair the fixture yourself. Servicing that requires access to internal components must only be carried out by qualified personnel.

IMPORTANT! Do not direct a high-pressure water jet at the fixture. The IP65 protection rating does not mean that the fixture is suitable for high-pressure washing.

SPECIFICATIONS

- Power supply AC 100–240 V, 50/60 Hz
- Power consumption 360 W
- Battery type Lithium-ion (Li-ion), 18650
- Battery runtime settings 2 / 3 / 4 / 5 / 6 / 7 / 8 h
- Automatic brightness adjustment Yes
- Light source 18 × 20 W RGBWA+UV LEDs
- Number of control sections 1
- Color temperature 2000–10000 K
- Color Rendering Index (CRI) 90
- Color mixing RGBWA+UV, 8-bit
- CTO adjustment Smooth
- Dimming 8-bit
- Dimming curves 4
- PWM frequency 600–25000 Hz
- Beam angle Vertical: 11°, Horizontal: 20°
- Strobe frequency 1–25 Hz
- Strobe effects Pulse effect, Random effect
- Control protocols and modes DMX512, F-WDMX, Sound, Auto, Master/Slave, IR

DMX channel modes 2 / 6 / 8 / 11 CH

- AC IN / OUT TrueCON IP65, with protective caps
- DMX IN / OUT 3-pin XLR IP65, with protective caps
- IP rating IP65
- Housing material Aluminum
- Mounting Omega bracket (Fast Lock)
- Housing color Black
- Cooling Passive (fanless)
- Dimensions 40.2 × 6.8 × 32.3 cm
- Net weight 5.8 kg



FLASH

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