



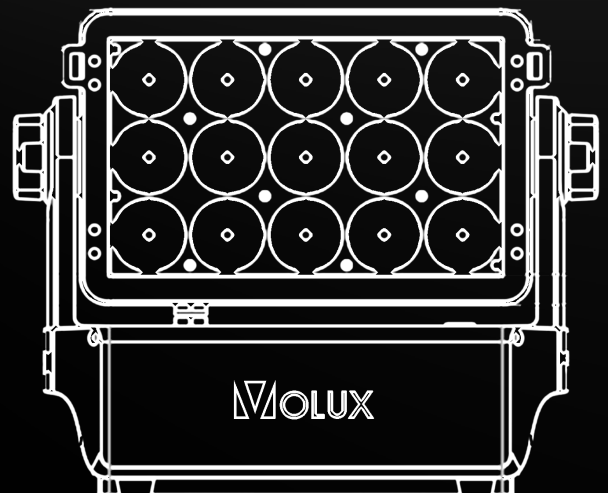
INNOVATIVE LUMINESCENCE



CUEWASH 300B

15x20W RGBL IP65 Battery Wash Light

USER MANUAL



Contents

1. Safety Information	3
2. Product Overview	4
3. Fixture Dimensions	5
4. Controls & Connections	6
5. Positioning & Rigging	7
6. Power & Battery	8
7. Data & Wireless Control	9
8. Menu Operation	10
9. Operation & Effects	11
10. DMX Channel Chart	12
11. Troubleshooting	14
12. Maintenance	15
13. Technical Specifications	16
14. Warranty & Service	17

Thank you for choosing the VOLUX CueWash 300B. This manual covers safe installation, charging, setup, operation and maintenance of the fixture. Read it completely before installing or operating the unit, and keep it with the fixture for future reference. The latest version of this manual and current firmware are available at voluxlighting.com and from the VOLUX Support Portal at support.voluxlighting.com.

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1. Safety Information

WARNING

No user-serviceable parts. Any references to servicing this product are for competent, trained personnel. Do not open the housing or attempt repairs yourself; doing so will void the warranty. All applicable codes and regulations apply to installation.

WARNING

Built-in lithium-ion battery. Do not open, puncture, crush or short-circuit the battery, and do not expose the fixture to fire or temperatures above the operating range. If the housing is swollen, hot or leaking, or smells of burning, disconnect power, move the fixture to a safe area and contact VOLUX Support.

CAUTION

Intense light and hot surfaces. Never look directly into the light source. Position the fixture so the audience cannot stare into the light at close range. The heatsink can become hot during operation.

User and audience safety

- This product is intended for professional use only. Do not install it yourself if you are not familiar with stage lighting.
- Keep the fixture away from the audience's eyes where prolonged staring is expected.

Mounting and rigging safety

- Always use a safety cable when suspending the fixture overhead, and make sure all accessories and rigging hardware are tightly secured.
- When the fixture stands on the floor, place it on a flat, stable surface where it cannot be knocked over.
- Keep at least 20 in (50 cm) of clearance around the heatsink. The fixture is fanless and relies on free air flow for cooling.

Power and battery safety

- Do not connect the fixture to a dimmer rack or rheostat.
- Connect only to the correct voltage and a stable, grounded power source, using the supplied or VOLUX-approved TRUE1 cables.
- Charge the battery only through the fixture's power input, and never charge a damaged fixture. Ship per lithium-ion battery regulations.

Outdoor and environmental safety

- Keep the fixture at least 5 ft (1.5 m) from flammable materials and pyrotechnics.
- The CueWash 300B is **IP65-rated and approved for temporary outdoor use**. Do not submerge it.
- **Not for permanent installation in extreme environments**, including marine, saline or coastal locations (within 3 miles of salt water), locations where normal temperatures exceed the operating range, and locations prone to flooding or being buried in snow.
- Outdoors, use IP-rated cables, close unused ports with the weather seal covers and run cables downward away from the connectors.
- Condensation may form when the fixture moves between very different environments (e.g. a cold truck to a warm, humid ballroom). Let it adjust before turning it on; light lens condensation is normal (see Section 11).

2. Product Overview

CueWash 300B is a battery-powered, IP65-rated wash light built for events, architecture and outdoor uplighting where running cable isn't practical. Fifteen **20 W 4-in-1 RGBL LEDs** deliver **5,500 lumens** of saturated color and calibrated whites from **2,800 to 10,000 K** through a 10° optic, which can be widened with magnetic 30° and 60° × 10° diffuser lenses. A built-in battery runs the fixture for up to 20 hours, and it can be controlled over wired DMX, CRMX/WDMX wireless DMX or Bluetooth, or run stand-alone with built-in programs, sound-active mode and wireless master/slave. A fanless, convection-cooled design keeps it silent.

Key features

Feature	Detail
Light source	15 × 20 W 4-in-1 RGBL LEDs • 5,500 lm • 50,000-hour rated life
Optics	10° beam / 20° field • optional magnetic diffuser lenses: 30° and 60° × 10°
Color	RGBL mixing with calibrated whites • white presets 2,800–10,000 K • color macro presets
Dimming & effects	16-bit dimming with 4 curves • 1–20 Hz strobe • built-in color scroll and fade programs • sound-active mode
Battery	Built-in lithium-ion battery, 20,800 mAh at 21.5 V • up to 20 hours run time • 8-hour recharge
Control	DMX512 (6 / 9 / 10-channel modes) • CRMX/WDMX wireless DMX • Bluetooth app • stand-alone and wireless master/slave
Environment	IP65 for temporary outdoor use • fanless convection cooling • 17.6 lb (8 kg)

Package contents

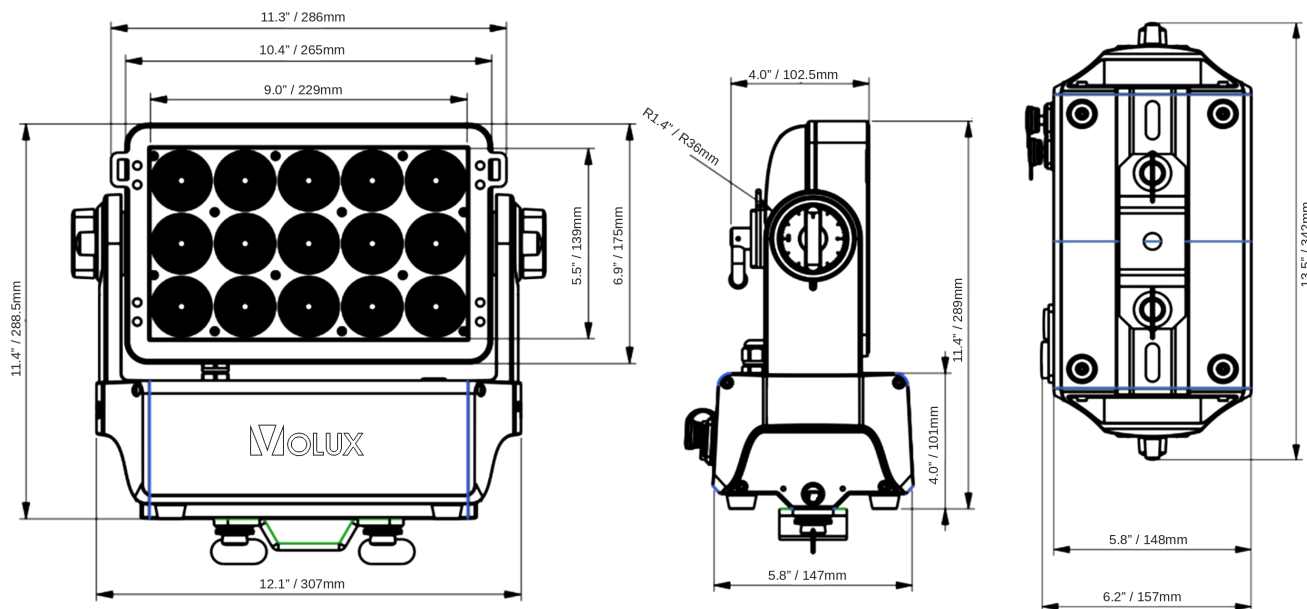
Qty	Item
1	CueWash 300B wash light
1	TRUE1-compatible IP65 power cable
1	5-pin XLR DMX cable
1	Omega bracket

Quantities may vary with the original order configuration; refer to the packing list or invoice. Optional accessories: magnetic diffuser lenses (30°, 60° × 10°), barndoors, 4-unit TRUE1 charging flight case, power link cables, white housing and custom RAL colors.

Claims

Unpack the fixture immediately and check that all parts are present and in good condition. If the box or contents show shipping damage, contact the carrier immediately; failure to report damage promptly may invalidate your claim. Report missing parts or damage not related to shipping to your VOLUX Authorized Dealer or Distributor within 7 days of delivery.

3. Fixture Dimensions



Front, side and underside views. Dimensions shown in inches / millimeters.

Dimension	Value
Overall height	11.4 in (288.5 mm)
Overall width, including tilt knobs	13.5 in (342 mm)
Base width	12.1 in (307 mm)
Base depth	5.8 in (147 mm)
Overall depth, including connectors	6.2 in (157 mm)
Base height	4.0 in (101 mm)
Head width × height	11.3 in × 6.9 in (286 mm × 175 mm)
Head depth	4.0 in (102.5 mm)
LED array (W × H)	9.0 in × 5.5 in (229 mm × 139 mm)
Net weight	17.6 lb (8 kg)

Allow additional clearance for the head's tilt range and at least 20 in (50 cm) around the heatsink for cooling.

4. Controls & Connections

Control panel



Control	Function
Display	Shows the menu, DMX address and status. Turns off after the set screen time; press any button to wake it.
Battery icon	Battery status and charging indication.
Wireless icon	Wireless DMX link status.
MENU	Open the menu, or go back / exit the active submenu.
UP / DOWN	Scroll through the menu, or increase / decrease the active value.
ENTER	Enter a menu or confirm the selected function or value.

Connections

Connector	Function
POWER IN	TRUE1 IP65 mains input. Powers the fixture and charges the battery.
POWER THRU	TRUE1 IP65 link output to additional fixtures.
DMX IN	5-pin XLR DMX512 input.
DMX OUT	5-pin XLR DMX link output.

The connectors are on the side of the base. Close every unused connector with its weather seal cover.

5. Positioning & Rigging

The CueWash 300B can stand on the floor for uplighting or be hung from a truss with the included omega bracket. Rigging must be carried out by qualified personnel in accordance with local codes and regulations.

CAUTION

To maintain weatherproofing and electrical safety, always run cables downward from the connectors to prevent water collecting around the connections.

WARNING

Never stand directly below the fixture while rigging, de-rigging or servicing. When rigging overhead, always use a safety cable.

Floor installation

- Place the fixture on its feet on a flat, stable surface, away from foot traffic, or secure it so it cannot be knocked over.
- Remove the omega bracket before standing the fixture on the floor.

Overhead installation

1. Bolt a rated clamp to the omega bracket.
2. Place the omega bracket on the underside of the base and turn both quarter-turn fasteners a full 1/4 turn clockwise until they lock.
3. Lift the fixture into position from a stable platform and tighten the clamp onto the truss.
4. Attach a safety cable rated for at least 10 times the fixture weight (8 kg / 17.6 lb) between the truss and the fixture.
5. Have a second qualified person check the installation before applying power.

Aiming

1. Loosen the tilt lock knobs on both sides of the yoke.
2. Tilt the head to the required angle, using the angle scale on the yoke to match fixtures.
3. Tighten both tilt lock knobs fully.

Diffuser lenses and accessories

The optional magnetic diffuser lenses (30° and 60° × 10°) attach directly to the front of the head and widen the 10° output for wall washing and grazing. Barndoors are also available. Make sure accessories are fully seated before rigging the fixture overhead.

6. Power & Battery

Mains power

Connect the fixture to mains power with the supplied TRUE1-compatible IP65 cable to run it and charge the battery at the same time. Maximum power consumption is **160 W**. Further fixtures can be linked from **POWER THRU** with VOLUX power link cables.

[ENGINEERING TO SUPPLY] Mains input voltage range and maximum number of fixtures per power link at 110–120 V, 208 V and 230–240 V.

CAUTION

Always connect the fixture to a protected, grounded circuit. Outdoors, use IP65 or higher rated power and data cables and close all unused ports with the attached weather seal covers.

Battery operation

- The built-in lithium-ion battery (20,800 mAh at 21.5 V) powers the fixture for up to **20 hours**, depending on the battery mode and output level.
- A full recharge takes approximately **8 hours**. Connect mains power to charge; the fixture can be used while charging.
- The battery icon on the display shows the charge status.

Battery modes

Choose the battery mode under **Setting > Battery** (or over DMX, see Section 10). Lower modes limit the maximum output to extend run time.

Mode	Output	Use
Full	Maximum output	Shortest run time. For brightest results or when mains power is connected.
Med.	Reduced output	Balanced output and run time.
Eco.	Lowest output	Longest run time, up to 20 hours.

Battery care

- Fully charge new fixtures before first use.
- For storage longer than a month, charge the battery to about 50–60%, store the fixture in a cool, dry place and recharge it every 3 months.
- Battery capacity decreases gradually with age and use. Contact VOLUX Support if run time drops noticeably.

7. Data & Wireless Control

The CueWash 300B can be controlled by wired DMX, CRMX/WDMX wireless DMX or the Bluetooth app, or run stand-alone (see Section 9). Select the DMX mode under **Channels** and the start address under **DMX Address**.

Mode	Channels	Description	Fixtures / universe
6CH	6	Dimmer, strobe and RGBL	85
9CH	9	Dimmer, strobe, built-in programs, program speed, color macro and RGBL	56
10CH	10	16-bit dimmer, strobe, built-in programs, program speed, color macro and RGBL	51

Wired DMX512

- Connect the console's DMX output to **DMX IN** (5-pin XLR) and link further fixtures from **DMX OUT**.
- Use shielded 120 ohm DMX cable, connect in a daisy chain only, and fit a 120 ohm terminator to the last fixture.

CRMX/WDMX wireless DMX

The built-in receiver is compatible with CRMX and G3/G4 WDMX transmitters. Wireless DMX requires **Auto Mode** set to **Off** and **Master/Slave** set to **Slave**.

1. If the fixture was paired before, go to **Setting > W-DMX Setting > Reset** and press ENTER to unpair it. A fixture must be unpaired before it can be paired again.
2. Put the wireless DMX transmitter into pairing (link) mode.
3. On the fixture, go to **Setting > W-DMX Setting > Link** and press ENTER.
4. When pairing is complete, the wireless icon on the display shows the link. Set the DMX mode and address as for wired DMX.

Wireless master/slave

One fixture set to **Master** transmits its color and program settings wirelessly to the fixtures paired to it, so a group can run stand-alone in sync without a console. Pair each slave to the master with **W-DMX Setting > Link**, using the same procedure as pairing to a transmitter. In Master mode the fixture does not receive DMX.

Bluetooth app

Set **Operate Mode > Control Mode** to the app option to control the fixture from a phone or tablet over Bluetooth. Contact VOLUX Support for the current app.

8. Menu Operation

Press MENU to open the menu, use UP and DOWN to select an item, and press ENTER to open it or confirm a value. Press MENU to go back. Default values are shown in bold.

Main menu	Item	Options / values	Description
DMX Address	DMX Address	001–512	Fixture start address.
Operate Mode	Control Mode	W-DMX / App	Wireless DMX or Bluetooth app control.
	Auto Mode	Off / Auto01–Auto07	Run a built-in program stand-alone. Set to Off for DMX control.
	Auto SP	000–100 (50)	Speed of the built-in programs.
	Master/Slave	Master / Slave	Wireless master/slave. Set to Slave for DMX control.
	Sound	000–100% (60)	Sound-active mode and microphone sensitivity.
	Static Control	Dimmer, Strobe, Effect Macro, Speed, Color Macro, Red, Green, Blue, Lime (000–255)	Set a static look without a console.
	Dimmer Speed	Dim0 (0 s) / Dim1 (0.25 s) / Dim2 (0.5 s) / Dim3 (0.75 s) / Dim4 (1 s)	Dimmer smoothing time.
Channels	Channels	6CH / 9CH / 10CH	DMX mode.
Setting	Hold	On / Off	On loss of signal: hold the last state (On) or black out (Off).
	Display Reverse	On / Off	Flip the display.
	Battery	Full / Med. / Eco.	Battery mode (see Section 6).
	Dimmer Curve	Linear / Exp / Log / S-Curve	Dimming curve (see Section 9).
	PWM Rate	600 / 1,200 / 2,000 / 2,400 / 6,000 / 18,000 / 25,000 Hz	LED PWM frequency.
	Screen Time	10–60 s	Time before the display turns off.
	W-DMX Setting	Link / Reset	Pair or unpair wireless DMX (see Section 7).
	Factory Reset	On / Off	Restore factory settings.
	Current Adj. / Temp	–	Reserved for service (also the White Balance menu).
System Info	Software Version	–	Firmware version.
	DMX Level	Red / Green / Blue / Lime	Received DMX values for each color.
	Temp	°C	Fixture temperature.
	Operate Time	hours	Total operating hours.

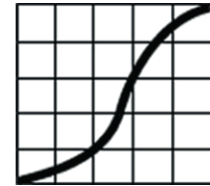
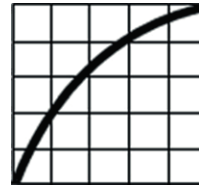
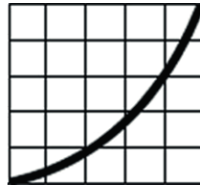
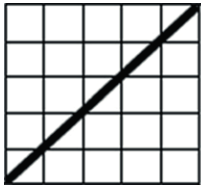
Set the DMX mode and address

1. Go to **Channels** and select the DMX mode.
2. Go to **DMX Address** and set the start address. With several fixtures on one line, add the channel count to the previous start address: 6CH 001, 007, 013... 9CH 001, 010, 019... 10CH 001, 011, 021...

9. Operation & Effects

Function	Operation
Static control	Set dimmer, strobe, color, color macro and programs from the menu under Static Control to create a look without a console.
Auto programs	Seven built-in color scroll and fade programs (Auto01–Auto07), with adjustable speed (Auto SP).
Sound-active	Programs follow the music picked up by the built-in microphone. Adjust the sensitivity under Sound .
Master/slave	A master fixture drives paired slaves wirelessly so a group runs in sync (see Section 7).
Dimming	16-bit dimming (10CH) with four curves and five dimmer smoothing speeds.
Strobe	Synchronous, lightning and random strobe effects, 1–20 Hz.
Color	RGBL mixing, color macros and calibrated white presets from 2,700 K to 10,000 K.
PWM rate	Seven selectable LED frequencies up to 25,000 Hz for flicker-free camera work.

Dimmer curves



Linear	Exp	Log	S-Curve
Intensity rises evenly with the DMX value.	Finer control at low levels, coarser at high levels.	Coarser control at low levels, finer at high levels.	Finer control at low and high levels, coarser in the middle.

Photometric data

Measured at the center of the light with all LEDs at full (RGBL = 255), battery mode Full, without a diffuser lens.

Distance	Illuminance	Light diameter
3.3 ft (1 m)	7,376 fc (79,400 lx)	1.6 ft (0.5 m)
6.6 ft (2 m)	2,912 fc (31,350 lx)	2.3 ft (0.7 m)
9.8 ft (3 m)	1,519 fc (16,350 lx)	3.3 ft (1 m)
13.1 ft (4 m)	903 fc (9,720 lx)	4.3 ft (1.3 m)
16.4 ft (5 m)	613 fc (6,600 lx)	6.2 ft (1.9 m)

LED lifespan

LEDs gradually lose brightness over time, mainly due to heat. The estimated lifespan under normal conditions is approximately 50,000 hours. Keeping the heatsink clean and unobstructed and avoiding continuous operation at full output in high ambient temperatures extends LED life.

10. DMX Channel Chart

The table below shows where each function sits in each DMX mode (– = not in that mode). Value ranges follow.

Function	6CH	9CH	10CH
Dimmer	1	1	1
Dimmer fine	–	–	2
Strobe	2	2	3
Programs (auto / sound)	–	3	4
Program speed	–	4	5
Color macro	–	5	6
Red	3	6	7
Green	4	7	8
Blue	5	8	9
Lime	6	9	10

Value ranges

Function	DMX value	Setting
Dimmer (and dimmer fine, 10CH)	0–255	0–100%
Strobe (6CH and 9CH)	0–5	No strobe
	6–63	Strobe, slow to fast
	64–191	Lightning strobe, slow to fast
	192–255	Random strobe, slow to fast
Strobe (10CH)	0–3	No strobe
	4–63	Strobe, slow to fast
	64–150	Lightning strobe, slow to fast
	151–255	Random strobe, slow to fast
Programs (9CH)	0–5	No function
	6–41	Auto 1
	42–77	Auto 2
	78–112	Auto 3
	113–147	Auto 4
	148–182	Auto 5
	183–217	Auto 6
	218–255	Sound-active
Programs (10CH)	0	No function
	1–32	Auto 1
	33–64	Auto 2
	65–95	Auto 3
	96–128	Auto 4
	129–160	Auto 5
	161–192	Auto 6
	193–224	Sound-active 1
	225–255	Sound-active 2

Function	DMX value	Setting
Program speed	0–255	Slow to fast
Color macro (9CH)	0–7	No function
	8–127	Color macros 1–15 (8 values each: 8–15, 16–23 ... 120–127)
	128–135	White 2,700 K
	136–143	White 3,200 K
	144–151	White 3,600 K
	152–159	White 4,000 K
	160–167	White 4,500 K
	168–175	White 5,000 K
	176–183	White 5,600 K
	184–191	White 6,000 K
	192–197	White 6,500 K
	198–205	White 7,000 K
	206–213	White 7,500 K
	214–221	White 8,000 K
	222–229	White 8,500 K
	230–243	White 9,000 K
	244–255	White 10,000 K
Red / green / blue / lime	0–255	0–100%

[ENGINEERING TO SUPPLY] 10CH color macro (channel 6) value table. Partial data: 0–9 no function, 10–15 white 10,000 K, 16–21 white 9,000 K, 22–27 white 8,500 K, 28–33 white 8,000 K. Also confirm whether the DMX control functions (battery mode, unlink, factory reset) are available, and on which channel.

11. Troubleshooting

Symptom	Possible cause	Action
Fixture does not turn on	Battery empty; no mains power; loose connector	Connect mains power to charge; check the supply and breaker; reseal the TRUE1 connector.
Short battery run time	Battery mode Full; battery not fully charged; aged battery	Select Med. or Eco. mode; charge fully (about 8 hours); contact VOLUX Support if run time stays short.
No response to DMX	Wrong address or DMX mode; Auto Mode on; set to Master	Check DMX Address and Channels; set Auto Mode to Off and Master/Slave to Slave.
No wireless DMX	Not paired; still paired to another transmitter	Unpair with W-DMX Setting > Reset, then pair again with Link.
Erratic or intermittent response	Missing terminator; faulty cable; weak wireless signal	Fit a 120 ohm terminator; replace suspect cables; reduce the distance to the transmitter or clear obstructions.
No light output with dimmer up	Color channels at 0	Raise the red, green, blue and lime channels, or select a color macro.
Reduced output	High temperature; blocked heatsink; battery mode	Clean the heatsink and improve air flow; check the battery mode.
Scan lines on camera	PWM rate unsuitable for the camera shutter	Select a higher PWM rate in the menu.
Condensation or fog inside the lens	Temperature or humidity change (normal for IP-rated fixtures)	Run all LEDs at full until it clears (see below). If it persists, contact VOLUX Support.

If a problem persists, contact VOLUX Technical Support with the fixture serial number.

Lens condensation and fogging

NOTE

Condensation or fogging may appear on the inside of the lens when the fixture is moved between different temperatures or humidity levels, for example from a cold truck into a warm venue, or as outdoor temperatures drop at night. This is normal for any IP-rated fixture: the sealed housing traps the air inside, and moisture in that air condenses on the coolest surface, the lens.

To clear condensation:

1. Connect mains power if possible, so the battery is not drained.
2. Set the dimmer to full and the strobe to no strobe.
3. Set all LEDs to full output (red, green, blue and lime at 255).
4. Leave the fixture running until the condensation clears. The heat from the LEDs warms the lens and clears the moisture.

If condensation returns frequently or water droplets collect inside the lens, contact VOLUX Technical Support to have the seals checked.

12. Maintenance

Dust on the lens and heatsink reduces light output and cooling, which shortens LED life. Clean the fixture at least once a month, and more often in heavy use or harsh conditions. Keep a written maintenance record for each fixture and supply it with any warranty claim.

WARNING

Turn the fixture off, disconnect it from power and let it cool to room temperature before cleaning or maintenance.

1. Turn the fixture off, disconnect power and wait until it is at room temperature.
2. Remove dust from the heatsink and housing with a soft brush, a vacuum or dry compressed air.
3. Clean the lens with a mild soap solution or ammonia-free glass cleaner applied to a soft, lint-free cloth or lens tissue.
4. Gently wipe dirt toward the outside edge, then polish until free of haze and lint.

Keep the connector seals and weather caps clean and intact. Check the omega bracket, tilt lock knobs and safety cable before each installation. Charge the battery regularly as described in Section 6.

Firmware updates

Check the installed firmware under **System Info > Software Version**. For current firmware and update instructions, visit the VOLUX Support Portal at support.voluxlighting.com.

13. Technical Specifications

OPTICAL

Light source	15 × 20 W 4-in-1 RGBL LEDs
Luminous flux	5,500 lm
Beam / field angle	10° / 20° optional magnetic diffuser lenses 30° and 60° × 10°
Source life	50,000 hours

COLOR & EFFECTS

Color mixing	RGBL with calibrated whites color macros
Color temperature	2,800–10,000 K
Dimming / strobe	16-bit, 4 curves 1–20 Hz strobe
Effects	Built-in color scroll and fade programs sound-active mode
PWM	600 / 1,200 / 2,000 / 2,400 / 6,000 / 18,000 / 25,000 Hz

CONTROL

Protocols	DMX512 CRMX/WDMX wireless DMX Bluetooth app
DMX modes	6 / 9 / 10 channels
Stand-alone	Static, auto programs, sound-active, wireless master/slave
Display	Display with 4 control buttons

ELECTRICAL

Max. consumption	160 W
Battery	Built-in lithium-ion, 20,800 mAh at 21.5 V up to 20 hours run time 8-hour recharge

PHYSICAL

Connections	TRUE1 IP65 IN/THRU 5-pin XLR IN/OUT
IP rating	IP65 (temporary outdoor use)
Cooling	Convection heatsink (fanless)
Rigging	Omega bracket (included) + safety cable
Dimensions	13.5 in (342 mm) W × 11.4 in (288.5 mm) H × 5.8 in (147 mm) D
Weight	17.6 lb (8 kg)
Housing options	Black (standard) white custom RAL colors

14. Warranty & Service

The CueWash 300B is covered by the VOLUX Limited Warranty. Warranty periods, coverage and exclusions are subject to change. For the most up-to-date warranty information, visit voluxlighting.com/warranty-information or refer to your purchase agreement.

Keep your proof of purchase and a written maintenance record for each fixture. Both are required when requesting warranty service.

Obtaining service (RMA)

Submit a service request through the VOLUX Support Portal at support.voluxlighting.com, or contact your VOLUX Authorized Dealer or Distributor, with a written description of the problem and the fixture serial number to obtain an RMA number. Photos or short videos of the fault and the serial label help speed up diagnosis.

- Ship the unit in its original or equivalent protective packaging, following the applicable rules for products with lithium-ion batteries.
- Include proof of purchase, maintenance records and the problem description with the returned unit.
- Returns without a valid RMA number will be refused.



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