EXPOLITE

# USER MANUAL

## WD 120 FX

led29072



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EXPOLITE


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Every fixture is fully tested by the manufacturer and properly packed. Before installation and use, make sure that the packaging and the fixture are in perfect condition. In case of transport damage, contact your dealer and do not operate the fixture.

As part of continuous product development, specifications are subject to change without notice.

# 01 SAFETY PRECAUTIONS

1.1 General information

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. No liability is accepted for injuries and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture, and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.

## WARNINGS

- Protection class I – the fixture must be properly grounded.
- There are no user-serviceable parts inside this unit. Do not attempt any repairs yourself, as doing so will void your manufacturer's warranty. Damages resulting from modifications to this fixture and/or the disregard of safety instructions and guidelines in this manual void the manufacturer's warranty and are not subject to any warranty claims and/or repairs.
- Do not plug the fixture into a dimmer pack!
- Never open this fixture while in use!
- Unplug power before servicing the fixture!
- Never touch the fixture during operation, as it may be hot! Keep flammable materials away from the fixture!
- Never look directly into the light source! Retina injury risk – may induce blindness! Sensitive persons may suffer an epileptic shock!
- Ensure all connections and end caps are properly sealed with a dielectric grease (available at most electrical suppliers) to prevent water corrosion and/or electrical short circuit.

| | |
|---|---|
| Minimum distance to objects/surfaces | 1 m (3.3 ft) |
| Minimum distance to flammable materials | 0.5 m (1.6 ft) |
| Maximum temperature of external surface | 85 °C (185 °F) |

# 01 SAFETY PRECAUTIONS

1.2 Safety precautions for operation

- Do not touch the fixture housing during operation. Turn off the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- Do not shake the fixture, and avoid brute force when installing and/or operating the fixture.
- Do not operate the fixture if the power cord is frayed, crimped or damaged, and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease.
- Never force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.
- Do not block any air ventilation slots.
- All fan and air inlets must remain clean and never blocked.
- Allow approx. 15 cm (6 in) between the fixture and other devices or a wall for proper cooling.
- Always disconnect the fixture from the main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process caused by excess paint in the interior of the casing burning off and will decrease gradually over time.
- Consistent operational breaks will ensure the fixture functions properly for many years.
- Only use the original packaging and materials to transport the fixture in for service.

# 02 MAINTENANCE

## 2.1 Cleaning

**Caution:** Disconnect power before performing any maintenance!

Frequent cleaning is recommended to ensure proper function, optimized light output and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Periodically clean the external lens surface with a soft cloth to avoid dirt/debris accumulation. Never use alcohol, solvents or ammonia-based cleaners.

## 2.2 Maintenance

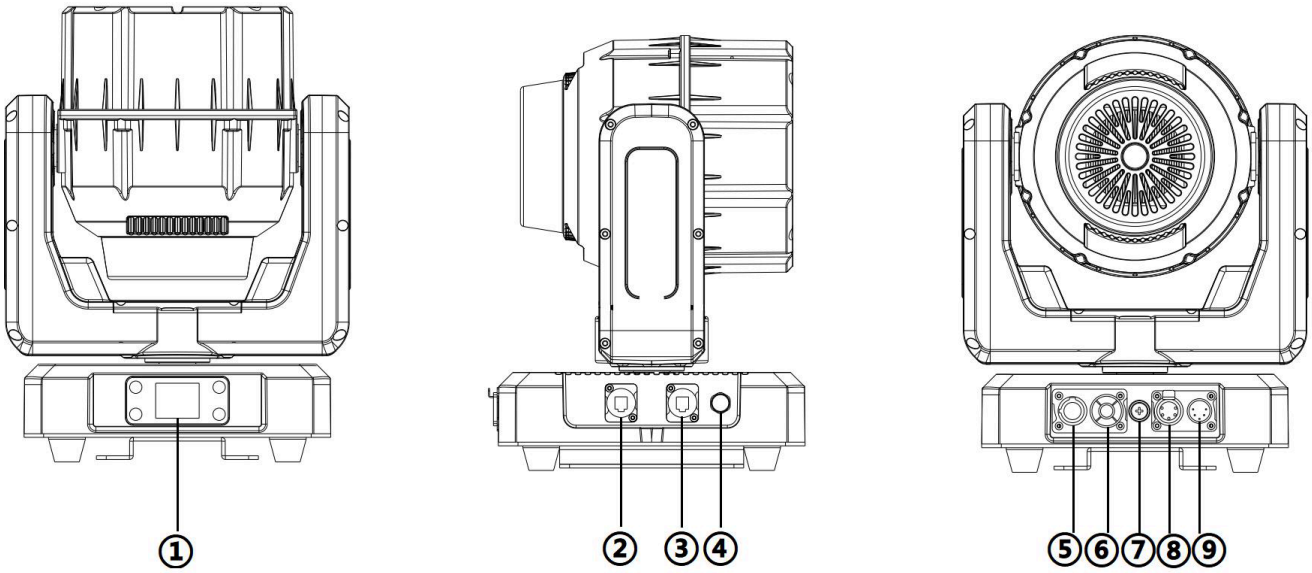
Regular inspections are recommended to ensure proper function and an extended life. There are no user-serviceable parts inside this fixture. Please refer all other service issues to an authorized service technician. Should you need any spare parts, please order genuine parts from your local dealer.

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, colour lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow dust to enter the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person.
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

# 03 OVERVIEW

## 3.1 Connections and controls




① System Menu LCD Display

② RJ45 Input

③ RJ45 Input

④ Value

⑤ Power Input

⑥ Power Output

⑦ Fuse

⑧ DMX Input

⑨ DMX Output

# 04 INSTALLATION

4.1 Safety distances and electrical connections

## INSTALLATION WARNINGS

- Keep the fixture a minimum of 1.5 m (5.0 ft) away from flammable materials and/or pyrotechnics.
- Minimum distance to surfaces/objects: 1 m (3.3 ft).
- Minimum distance to flammable materials: 0.5 m (1.6 ft).
- The external surface can reach temperatures of 85 °C (185 °F).
- A qualified electrician should be used for all electrical connections and/or installations.
- Do not install the fixture if you are not qualified to do so!

4.2 Rigging

The fixture must be installed following all local and national commercial electrical and construction codes and regulations. Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer must be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables and accessories.

Overhead rigging requires extensive experience, including calculating working load limits, the installation material being used, and periodic safety inspection of all installation material and the fixture, among other skills. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

The fixture ambient operating temperature range is -20 °C to 45 °C (-4 °F to 113 °F). Do not operate the fixture when the ambient temperature falls outside of this range.

Fixtures should be installed away from walking paths, seating areas, or areas where unauthorized personnel might reach the fixture by hand. Never stand directly below the fixture(s) when rigging, removing or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable. Allow approximately 15 minutes for the fixture to cool down before servicing.

# 05 SYSTEM MENU

5.1 Control

**Note:** Menu items are shown exactly as they appear on the fixture display.

| Menu | Item | Option/Value |
|---|---|---|
| Control → Base Control | DMX Address | 001–512 |
| Control → Base Control | Channel Mode | 21CH / 39CH / 223CH |
| Control → Base Control | Protocol | Art-net / sACN / DMX |
| Control → Base Control | Universe | 00001–32767 |
| Control → Aura Pixels Ctrl | DMX Address | 001–512 |
| Control → Aura Pixels Ctrl | Protocol | Art-net / sACN |
| Control → Aura Pixels Ctrl | Universe | 00001–32767 |
| Control → Aura Pixels Ctrl | Color Mode | RGB / RGBW |
| Control → Aura Pixels Ctrl | Net to DMX | No / YES |
| Control → Manual | Pan, Pan Fine, … | Manual control of the individual functions |
| Control → Network | IP Mode | DHCP / Static |
| Control → Network | IP Address | 000.000.000.000 |
| Control → Network | Subnet Mask | 255.000.000.000 |

# 05 SYSTEM MENU

5.2 Settings · 5.3 Information

| Menu | Item | Option/Value |
|---|---|---|
| Settings | Display | Always ON / 10 sec / 30 sec / 1 min |
| Settings | Display Reversal | NO / YES |
| Settings | Key Lock | NO / YES |
| Settings | DMX Fault | Hold / Blackout |
| Settings | Dimmer Speed | Standard / Fast / Slow |
| Settings | Dimmer Curve | Linear / Square / S-Shape |
| Settings | LED Frequency | 4 KHz / 8 KHz / 16 KHz / 24 KHz |
| Settings | Red Shift | Off / On |
| Settings | Fan Mode | Auto / Silent / Full |
| Settings | Pan Setting | Reversal / Calibration / Encoder |
| Settings | Tilt Setting | Reversal / Calibration / Encoder |
| Settings | Zoom Calibration | 0–255 |
| Settings | Factory Reset | No / Yes |
| Information | Error Info | * |
| Information | Temperature | * °C |
| Information | Version | V1.0 |
| Information | UID | * |

# 06 PATCHING GUIDELINES

6.1 Lighting console patching guidelines

The product is a versatile luminaire which combines two fixtures into one housing, allowing it to produce multiple unique lighting effects typically not found in a single lighting fixture. The DMX layout is designed to offer a variety of options for controlling each fixture efficiently.

The main fixture contains 1 × 120 W RGBL LED, while the Aura effect contains 48 × 1 W RGBWW LEDs.

**Note:** The complete channel layout of all three DMX modes (21CH / 39CH / 223CH) can be found in chapter 7.

# 07 DMX CHART

7.1 21CH Mode (DMX, ArtNet, sACN)

| Channel | Value | Function | Description |
|---|---|---|---|
| **1CH** | 0-255 | Pan | 540° |
| **2CH** | 0-255 | Tilt | 230° |
| **3CH** | 0-255 | Zoom | Small angle to large angle |
| **4CH** | 0-255 | Dimmer | |
| **5CH** | 0-5 | Strobe Open | |
| | 6-10 | Strobe Closed | |
| | 011-035 | Pulse | Random, slow → fast |
| | 036-060 | Ramp up | Random, slow → fast |
| | 061-085 | Ramp down | Random, slow → fast |
| | 086-110 | Random Strobe Effect | |
| | 111-135 | Strobe Break Effect | |
| | 136-250 | Strobe | Slow → fast |
| | 251-255 | Strobe Open | |
| **6CH** | 0-255 | R | |
| **7CH** | 0-255 | G | |
| **8CH** | 0-255 | B | |
| **9CH** | 0-255 | L | |
| **10CH** | 0-255 | FR | |
| **11CH** | 0-255 | FG | |
| **12CH** | 0-255 | FB | |
| **13CH** | 0-255 | FWW | |
| **14CH** | 0-5 | Off | |
| | 6-21 | 1800K | |
| | 22-37 | 2000K | |
| | 38-53 | 2500K | |
| | 54-69 | 2700K | |
| | 70-85 | 3000K | |
| | 86-101 | 3200K | |
| | 102-117 | 3500K | |
| | 118-133 | 4000K | |
| | 134-149 | 4500K | |
| | 150-165 | 5000K | |
| | 166-181 | 5600K | |
| | 182-197 | 6000K | |
| | 198-213 | 6500K | |
| | 214-229 | 7200K | |
| | 230-255 | 8000K | |

# 07 DMX CHART

7.1 21CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **15CH** Color Macros | 000-005 | / | |
| | 006-010 | Magenta | |
| | 011-015 | Peacock Blue | |
| | 016-020 | Steel Blue | |
| | 021-025 | Light Blue | |
| | 026-030 | Dark Blue | |
| | 031-035 | Leaf Green | |
| | 036-040 | Dark Green | |
| | 041-045 | Mauve | |
| | 046-050 | Deep Golden Amber | |
| | 051-055 | Pale Lavender | |
| | 056-060 | Primary Green | |
| | 061-065 | Bright Blue | |
| | 066-070 | Apricot | |
| | 071-075 | Pale Gold | |
| | 076-135 | Rainbow Effect | Smooth Gradient |
| | 136-194 | Color Macro Jumping | |
| | 195-255 | Color Macro Gradient | Smooth Gradient |
| **16CH** Inner ring auxiliary light effect | 000-009 | / | |
| | 010-034 | Effect 1 | |
| | 035-059 | Effect 2 | |
| | 060-084 | Effect 3 | |
| | 085-109 | Effect 4 | |
| | 110-134 | Effect 5 | |
| | 135-159 | Effect 6 | |
| | 160-184 | Effect 7 | |
| | 185-209 | Effect 8 | |
| | 210-234 | Effect 9 | |
| | 235-244 | Effect 10 | |
| | 245-255 | Built in effect 1-10 | |
| **17CH** | 000-255 | Effect Speed | 0–127 index, 128 stop, 129–191 clockwise rotation from fast to slow, 192 stop, 193–255 counterclockwise rotation from slow to fast |

# 07 DMX CHART

7.1 21CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **18CH** Outer ring auxiliary light effect | 000-009 | / | |
| | 010-034 | Effect 1 | |
| | 035-059 | Effect 2 | |
| | 060-084 | Effect 3 | |
| | 085-109 | Effect 4 | |
| | 110-134 | Effect 5 | |
| | 135-159 | Effect 6 | |
| | 160-184 | Effect 7 | |
| | 185-209 | Effect 8 | |
| | 210-234 | Effect 9 | |
| | 235-244 | Effect 10 | |
| | 245-255 | Built in effect 1-10 | |
| **19CH** | 000-255 | Effect Speed | 0–127 index, 128 stop, 129–191 clockwise rotation from fast to slow, 192 stop, 193–255 counterclockwise rotation from slow to fast |

# 07 DMX CHART

7.1 21CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **20CH** | 0-4 | / | |
| | 5-9 | The display stays on | 3 seconds delay start |
| | 10-14 | The display shows 10 seconds | 3 seconds delay start |
| | 15-19 | The display shows 30 seconds | 3 seconds delay start |
| | 20-24 | The display shows 1 min | 3 seconds delay start |
| | 25-29 | Screen lock off | 3 seconds delay start |
| | 30-34 | Screen lock on | 3 seconds delay start |
| | 35-39 | Signal Hold | 3 seconds delay start |
| | 40-44 | Black Field | 3 seconds delay start |
| | 45-59 | / | |
| | 60-64 | Standard dimming | 3 seconds delay start |
| | 65-69 | Fast dimming | 3 seconds delay start |
| | 70-74 | Slow dimming | 3 seconds delay start |
| | 75-84 | / | |
| | 85-89 | Linear | 3 seconds delay start |
| | 90-94 | Square | 3 seconds delay start |
| | 95-99 | S-curve | 3 seconds delay start |
| | 100-109 | / | |
| | 110-114 | 4000 Hz | 3 seconds delay start |
| | 115-119 | 8000 Hz | 3 seconds delay start |
| | 120-124 | 16000 Hz | 3 seconds delay start |
| | 125-129 | 24000 Hz | 3 seconds delay start |
| | 130-139 | / | |
| | 140-144 | Fan automatic | 3 seconds delay start |
| | 145-149 | Silent fan | 3 seconds delay start |
| | 150-154 | Fan full on | 3 seconds delay start |
| | 155-164 | / | |
| | 165-169 | Red drift off | 3 seconds delay start |
| | 170-174 | Red drift on | 3 seconds delay start |
| | 175-179 | / | |
| | 180-184 | Pan Reverse Off | 3 seconds delay start |
| | 185-189 | Pan Reverse On | 3 seconds delay start |
| | 190-194 | Pan error correction off | 3 seconds delay start |
| | 195-199 | Pan error correction on | 3 seconds delay start |
| | 200-204 | Tilt Reverse Off | 3 seconds delay start |
| | 205-209 | Tilt Reverse On | 3 seconds delay start |
| | 210-214 | Tilt error correction off | 3 seconds delay start |
| | 215-219 | Tilt error correction on | 3 seconds delay start |
| | 220-224 | Pan & Tilt Reset | 3 seconds delay start |
| | 225-229 | Zoom Reset | 3 seconds delay start |
| | 230-234 | Reset All | 3 seconds delay start |
| | 235-255 | / | |
| **21CH** | 000-015 | DMX Mode | Pixel controlled |
| | 016-238 | Mixed Mode | |
| | 239-255 | ArtNet Mode | |

# 07 DMX CHART

7.2 39CH Mode (DMX, ArtNet, sACN)

| Channel | Value | Function | Description |
|---|---|---|---|
| **1CH** | 0-255 | Pan | 540° |
| **2CH** | 0-255 | Pan Fine | |
| **3CH** | 0-255 | Tilt | 230° |
| **4CH** | 0-255 | Tilt Fine | |
| **5CH** | 0-255 | X/Y Speed | Fast to slow |
| **6CH** | 0-255 | Zoom | Small angle to large angle |
| **7CH** | 0-255 | Zoom Fine | |
| **8CH** | 0-255 | 120W LED Dimmer | |
| **9CH** | 0-255 | 120W LED Dimmer Fine | |
| **10CH** | 0-5 | Strobe Open | |
| | 6-10 | Strobe Closed | |
| | 011-035 | Pulse | Random, slow → fast |
| | 036-060 | Ramp up | Random, slow → fast |
| | 061-085 | Ramp down | Random, slow → fast |
| | 086-110 | Random Strobe Effect | |
| | 111-135 | Strobe Break Effect | |
| | 136-250 | Strobe | Slow → fast |
| | 251-255 | Strobe Open | |
| **11CH** | 0-255 | R | |
| **12CH** | 0-255 | R Fine | |
| **13CH** | 0-255 | G | |
| **14CH** | 0-255 | G Fine | |
| **15CH** | 0-255 | B | |
| **16CH** | 0-255 | B Fine | |
| **17CH** | 0-255 | L | |
| **18CH** | 0-255 | L Fine | |
| **19CH** | 0-255 | Inner ring Aura LEDs dimmer | |
| **20CH** | 0-255 | Inner ring Red | |
| **21CH** | 0-255 | Inner ring Green | |
| **22CH** | 0-255 | Inner ring Blue | |
| **23CH** | 0-255 | Inner ring WW | |
| **24CH** Inner ring Strobe | 0-5 | Strobe Open | |
| | 6-10 | Strobe Closed | |
| | 011-035 | Pulse | Random, slow → fast |
| | 036-060 | Ramp up | Random, slow → fast |
| | 061-085 | Ramp down | Random, slow → fast |
| | 086-110 | Random Strobe Effect | |
| | 111-135 | Strobe Break Effect | |
| | 136-250 | Strobe | Slow → fast |
| | 251-255 | Strobe Open | |

# 07 DMX CHART

7.2 39CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **25CH** | 000-255 | Outer ring dimmer | |
| **26CH** | 000-255 | Outer ring Red | |
| **27CH** | 000-255 | Outer ring Green | |
| **28CH** | 000-255 | Outer ring Blue | |
| **29CH** | 000-255 | Outer ring WW | |
| **30CH** Outer ring Strobe | 0-5 | Strobe Open | |
| | 6-10 | Strobe Closed | |
| | 011-035 | Pulse | Random, slow → fast |
| | 036-060 | Ramp up | Random, slow → fast |
| | 061-085 | Ramp down | Random, slow → fast |
| | 086-110 | Random Strobe Effect | |
| | 111-135 | Strobe Break Effect | |
| | 136-250 | Strobe | Slow → fast |
| | 251-255 | Strobe Open | |
| **31CH** CCT | 0-5 | / | |
| | 6-21 | 1800K | |
| | 22-37 | 2000K | |
| | 38-53 | 2500K | |
| | 54-69 | 2700K | |
| | 70-85 | 3000K | |
| | 86-101 | 3200K | |
| | 102-117 | 3500K | |
| | 118-133 | 4000K | |
| | 134-149 | 4500K | |
| | 150-165 | 5000K | |
| | 166-181 | 5600K | |
| | 182-197 | 6000K | |
| | 198-213 | 6500K | |
| | 214-229 | 7200K | |
| | 230-255 | 8000K | |
| **32CH** Green-magenta shift (tint) | 000-000 | OFF | |
| | 001-127 | From Magenta to OFF | |
| | 128-128 | OFF | |
| | 129-255 | From OFF to Green | |

7.2 39CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **33CH** Color Macros | 000-005 | / | |
| | 006-010 | Magenta | |
| | 011-015 | Peacock Blue | |
| | 016-020 | Steel Blue | |
| | 021-025 | Light Blue | |
| | 026-030 | Dark Blue | |
| | 031-035 | Leaf Green | |
| | 036-040 | Dark Green | |
| | 041-045 | Mauve | |
| | 046-050 | Deep Golden Amber | |
| | 051-055 | Pale Lavender | |
| | 056-060 | Primary Green | |
| | 061-065 | Bright Blue | |
| | 066-070 | Apricot | |
| | 071-075 | Pale Gold | |
| | 076-135 | Rainbow Effect | Smooth Gradient |
| | 136-194 | Color Macro Jumping | |
| | 195-255 | Color Macro Gradient | Smooth Gradient |
| **34CH** Inner ring auxiliary light effect | 000-009 | / | |
| | 010-034 | Effect 1 | |
| | 035-059 | Effect 2 | |
| | 060-084 | Effect 3 | |
| | 085-109 | Effect 4 | |
| | 110-134 | Effect 5 | |
| | 135-159 | Effect 6 | |
| | 160-184 | Effect 7 | |
| | 185-209 | Effect 8 | |
| | 210-234 | Effect 9 | |
| | 235-244 | Effect 10 | |
| | 245-255 | Built in effect 1-10 | |
| **35CH** | 000-255 | Effect Speed | 0–127 index, 128 stop, 129–191 clockwise rotation from fast to slow, 192 stop, 193–255 counterclockwise rotation from slow to fast |

7.2 39CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **36CH** Outer ring auxiliary light effect | 000-009 | / | |
| | 010-034 | Effect 1 | |
| | 035-059 | Effect 2 | |
| | 060-084 | Effect 3 | |
| | 085-109 | Effect 4 | |
| | 110-134 | Effect 5 | |
| | 135-159 | Effect 6 | |
| | 160-184 | Effect 7 | |
| | 185-209 | Effect 8 | |
| | 210-234 | Effect 9 | |
| | 235-244 | Effect 10 | |
| | 245-255 | Built in effect 1-10 | |
| **37CH** | 000-255 | Effect Speed | 0–127 index, 128 stop, 129–191 clockwise rotation from fast to slow, 192 stop, 193–255 counterclockwise rotation from slow to fast |

7.2 39CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **38CH** | 0-4 | / | |
| | 5-9 | The display stays on | 3 seconds delay start |
| | 10-14 | The display shows 10 seconds | 3 seconds delay start |
| | 15-19 | The display shows 30 seconds | 3 seconds delay start |
| | 20-24 | The display shows 1 min | 3 seconds delay start |
| | 25-29 | Screen lock off | 3 seconds delay start |
| | 30-34 | Screen lock on | 3 seconds delay start |
| | 35-39 | Signal Hold | 3 seconds delay start |
| | 40-44 | Black Field | 3 seconds delay start |
| | 45-59 | / | |
| | 60-64 | Standard dimming | 3 seconds delay start |
| | 65-69 | Fast dimming | 3 seconds delay start |
| | 70-74 | Slow dimming | 3 seconds delay start |
| | 75-84 | / | |
| | 85-89 | Linear | 3 seconds delay start |
| | 90-94 | Square | 3 seconds delay start |
| | 95-99 | S-curve | 3 seconds delay start |
| | 100-109 | / | |
| | 110-114 | 4000 Hz | 3 seconds delay start |
| | 115-119 | 8000 Hz | 3 seconds delay start |
| | 120-124 | 16000 Hz | 3 seconds delay start |
| | 125-129 | 24000 Hz | 3 seconds delay start |
| | 130-139 | / | |
| | 140-144 | Fan automatic | 3 seconds delay start |
| | 145-149 | Silent fan | 3 seconds delay start |
| | 150-154 | Fan full on | 3 seconds delay start |
| | 155-164 | / | |
| | 165-169 | Red drift off | 3 seconds delay start |
| | 170-174 | Red drift on | 3 seconds delay start |
| | 175-179 | / | |
| | 180-184 | Pan Reverse Off | 3 seconds delay start |
| | 185-189 | Pan Reverse On | 3 seconds delay start |
| | 190-194 | Pan error correction off | 3 seconds delay start |
| | 195-199 | Pan error correction on | 3 seconds delay start |
| | 200-204 | Tilt Reverse Off | 3 seconds delay start |
| | 205-209 | Tilt Reverse On | 3 seconds delay start |
| | 210-214 | Tilt error correction off | 3 seconds delay start |
| | 215-219 | Tilt error correction on | 3 seconds delay start |
| | 220-224 | Pan & Tilt Reset | 3 seconds delay start |
| | 225-229 | Zoom Reset | 3 seconds delay start |
| | 230-234 | Reset All | 3 seconds delay start |
| | 235-255 | / | |
| **39CH** | 000-015 | DMX Mode | Pixel controlled |
| | 016-238 | Mixed Mode | |
| | 239-255 | ArtNet Mode | |

# 07 DMX CHART

7.3 223CH Mode (DMX, ArtNet, sACN)

| Channel | Value | Function | Description |
|---|---|---|---|
| **1CH** | 0-255 | Pan | 540° |
| **2CH** | 0-255 | Pan Fine | |
| **3CH** | 0-255 | Tilt | 230° |
| **4CH** | 0-255 | Tilt Fine | |
| **5CH** | 0-255 | X/Y Speed | Fast to slow |
| **6CH** | 0-255 | Zoom | Small angle to large angle |
| **7CH** | 0-255 | Zoom Fine | |
| **8CH** | 0-255 | 120W LED Dimmer | |
| **9CH** | 0-255 | 120W LED Dimmer Fine | |
| **10CH** | 0-5 | Strobe Open | |
| | 6-10 | Strobe Closed | |
| | 011-035 | Pulse | Random, slow → fast |
| | 036-060 | Ramp up | Random, slow → fast |
| | 061-085 | Ramp down | Random, slow → fast |
| | 086-110 | Random Strobe Effect | |
| | 111-135 | Strobe Break Effect | |
| | 136-250 | Strobe | Slow → fast |
| | 251-255 | Strobe Open | |
| **11CH** | 0-255 | R | |
| **12CH** | 0-255 | R Fine | |
| **13CH** | 0-255 | G | |
| **14CH** | 0-255 | G Fine | |
| **15CH** | 0-255 | B | |
| **16CH** | 0-255 | B Fine | |
| **17CH** | 0-255 | L | |
| **18CH** | 0-255 | L Fine | |
| **19CH** | 0-255 | Inner ring Aura LEDs dimmer | |
| **20CH** Inner ring Strobe | 0-5 | Strobe Open | |
| | 6-10 | Strobe Closed | |
| | 011-035 | Pulse | Random, slow → fast |
| | 036-060 | Ramp up | Random, slow → fast |
| | 061-085 | Ramp down | Random, slow → fast |
| | 086-110 | Random Strobe Effect | |
| | 111-135 | Strobe Break Effect | |
| | 136-250 | Strobe | Slow → fast |
| | 251-255 | Strobe Open | |

7.3 223CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **21CH** | 0-255 | Outer ring auxiliary light dimmer fine | |
| **22CH** Outer ring Strobe | 0-5 | Strobe Open | |
| | 6-10 | Strobe Closed | |
| | 011-035 | Pulse | Random, slow → fast |
| | 036-060 | Ramp up | Random, slow → fast |
| | 061-085 | Ramp down | Random, slow → fast |
| | 086-110 | Random Strobe Effect | |
| | 111-135 | Strobe Break Effect | |
| | 136-250 | Strobe | Slow → fast |
| | 251-255 | Strobe Open | |
| **23CH** CCT | 0-5 | / | |
| | 6-21 | 1800K | |
| | 22-37 | 2000K | |
| | 38-53 | 2500K | |
| | 54-69 | 2700K | |
| | 70-85 | 3000K | |
| | 86-101 | 3200K | |
| | 102-117 | 3500K | |
| | 118-133 | 4000K | |
| | 134-149 | 4500K | |
| | 150-165 | 5000K | |
| | 166-181 | 5600K | |
| | 182-197 | 6000K | |
| | 198-213 | 6500K | |
| | 214-229 | 7200K | |
| | 230-255 | 8000K | |
| **24CH** Green-magenta shift (tint) | 000-000 | OFF | |
| | 001-127 | From Magenta to OFF | |
| | 128-128 | OFF | |
| | 129-255 | From OFF to Green | |

7.3 223CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **25CH** Color Macros | 000-005 | / | |
| | 006-010 | Magenta | |
| | 011-015 | Peacock Blue | |
| | 016-020 | Steel Blue | |
| | 021-025 | Light Blue | |
| | 026-030 | Dark Blue | |
| | 031-035 | Leaf Green | |
| | 036-040 | Dark Green | |
| | 041-045 | Mauve | |
| | 046-050 | Deep Golden Amber | |
| | 051-055 | Pale Lavender | |
| | 056-060 | Primary Green | |
| | 061-065 | Bright Blue | |
| | 066-070 | Apricot | |
| | 071-075 | Pale Gold | |
| | 076-135 | Rainbow Effect | Smooth Gradient |
| | 136-194 | Color Macro Jumping | |
| | 195-255 | Color Macro Gradient | Smooth Gradient |
| **26CH** Inner ring auxiliary light effect | 000-009 | / | |
| | 010-034 | Effect 1 | |
| | 035-059 | Effect 2 | |
| | 060-084 | Effect 3 | |
| | 085-109 | Effect 4 | |
| | 110-134 | Effect 5 | |
| | 135-159 | Effect 6 | |
| | 160-184 | Effect 7 | |
| | 185-209 | Effect 8 | |
| | 210-234 | Effect 9 | |
| | 235-244 | Effect 10 | |
| | 245-255 | Built in effect 1-10 | |
| **27CH** | 000-255 | Effect Speed | 0–127 index, 128 stop, 129–191 clockwise rotation from fast to slow, 192 stop, 193–255 counterclockwise rotation from slow to fast |

7.3 223CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **28CH** Outer ring auxiliary light effect | 000-009 | / | |
| | 010-034 | Effect 1 | |
| | 035-059 | Effect 2 | |
| | 060-084 | Effect 3 | |
| | 085-109 | Effect 4 | |
| | 110-134 | Effect 5 | |
| | 135-159 | Effect 6 | |
| | 160-184 | Effect 7 | |
| | 185-209 | Effect 8 | |
| | 210-234 | Effect 9 | |
| | 235-244 | Effect 10 | |
| | 245-255 | Built in effect 1-10 | |
| **29CH** | 000-255 | Effect Speed | 0–127 index, 128 stop, 129–191 clockwise rotation from fast to slow, 192 stop, 193–255 counterclockwise rotation from slow to fast |

7.3 223CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| **30CH** | 0-4 | / | |
| | 5-9 | The display stays on | 3 seconds delay start |
| | 10-14 | The display shows 10 seconds | 3 seconds delay start |
| | 15-19 | The display shows 30 seconds | 3 seconds delay start |
| | 20-24 | The display shows 1 min | 3 seconds delay start |
| | 25-29 | Screen lock off | 3 seconds delay start |
| | 30-34 | Screen lock on | 3 seconds delay start |
| | 35-39 | Signal Hold | 3 seconds delay start |
| | 40-44 | Black Field | 3 seconds delay start |
| | 45-59 | / | |
| | 60-64 | Standard dimming | 3 seconds delay start |
| | 65-69 | Fast dimming | 3 seconds delay start |
| | 70-74 | Slow dimming | 3 seconds delay start |
| | 75-84 | / | |
| | 85-89 | Linear | 3 seconds delay start |
| | 90-94 | Square | 3 seconds delay start |
| | 95-99 | S-curve | 3 seconds delay start |
| | 100-109 | / | |
| | 110-114 | 4000 Hz | 3 seconds delay start |
| | 115-119 | 8000 Hz | 3 seconds delay start |
| | 120-124 | 16000 Hz | 3 seconds delay start |
| | 125-129 | 24000 Hz | 3 seconds delay start |
| | 130-139 | / | |
| | 140-144 | Fan automatic | 3 seconds delay start |
| | 145-149 | Silent fan | 3 seconds delay start |
| | 150-154 | Fan full on | 3 seconds delay start |
| | 155-164 | / | |
| | 165-169 | Red drift off | 3 seconds delay start |
| | 170-174 | Red drift on | 3 seconds delay start |
| | 175-179 | / | |
| | 180-184 | Pan Reverse Off | 3 seconds delay start |
| | 185-189 | Pan Reverse On | 3 seconds delay start |
| | 190-194 | Pan error correction off | 3 seconds delay start |
| | 195-199 | Pan error correction on | 3 seconds delay start |
| | 200-204 | Tilt Reverse Off | 3 seconds delay start |
| | 205-209 | Tilt Reverse On | 3 seconds delay start |
| | 210-214 | Tilt error correction off | 3 seconds delay start |
| | 215-219 | Tilt error correction on | 3 seconds delay start |
| | 220-224 | Pan & Tilt Reset | 3 seconds delay start |
| | 225-229 | Zoom Reset | 3 seconds delay start |
| | 230-234 | Reset All | 3 seconds delay start |
| | 235-255 | / | |
| **31CH** | 000-015 | DMX Mode | Pixel controlled |
| | 016-238 | Mixed Mode | |
| | 239-255 | ArtNet Mode | |

7.3 223CH Mode (DMX, ArtNet, sACN) (continued)

| Channel | Value | Function | Description |
|---|---|---|---|
| Inner ring RGBWW LEDs | | | |
| **32CH** | 0-255 | R1 | |
| **33CH** | 0-255 | G1 | |
| **34CH** | 0-255 | B1 | |
| **35CH** | 0-255 | WW1 | |
| **…** | … | … | |
| **124CH** | 0-255 | R24 | |
| **125CH** | 0-255 | G24 | |
| **126CH** | 0-255 | B24 | |
| **127CH** | 0-255 | WW24 | |
| Outer ring RGBWW LEDs | | | |
| **128CH** | 0-255 | R1 | |
| **129CH** | 0-255 | G1 | |
| **130CH** | 0-255 | B1 | |
| **131CH** | 0-255 | WW1 | |
| **…** | … | … | |
| **220CH** | 0-255 | R24 | |
| **221CH** | 0-255 | G24 | |
| **222CH** | 0-255 | B24 | |
| **223CH** | 0-255 | WW24 | |

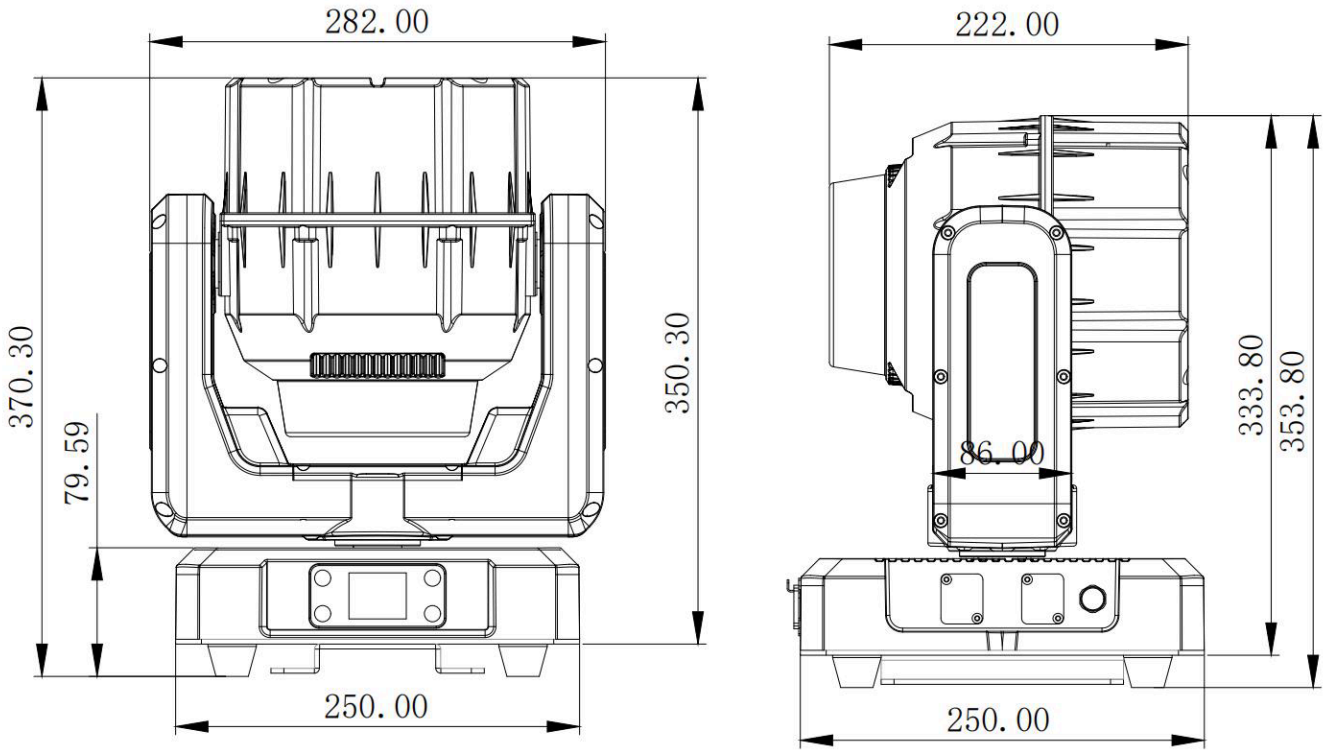
# 08 SPECIFICATIONS

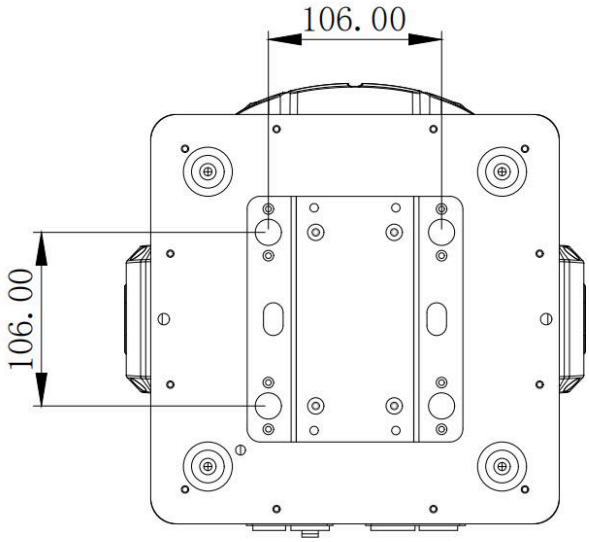
8.1 Overview

| | |
|---|---|
| **Light source** | |
| Main LED | 120 W RGBL |
| Lumen output | 2,500 lm |
| Intensity | 375,000 cd in narrow beam |
| Aura LED | 48 × 1 W RGBWW |
| Operation | Flicker-free, LED driver frequency adjustable |
| **Colour palette** | |
| Colour mixing | RGBL – saturated colours, soft pastels and white tones |
| Colour temperature | 1800 K – 8000 K, calibrated |
| Green-magenta shift | Calibrated (tint) |
| **Optics** | |
| Lens | 140 mm Fresnel lens |
| Zoom | 3.8° – 38°, motorized |
| Beam | Defined narrow beam to soft edge wide wash, minimal stray light |
| **Electrical and connectors** | |
| Input voltage range | 100–240 V, 50/60 Hz |
| Power in/out | Waterproof power connector in/out |
| Data in/out | 5-pin waterproof XLR |
| **Control** | |
| DMX modes | 21 / 39 / 223 channels |
| Protocols | DMX, Art-Net, sACN |
| **Construction** | |
| Dimensions (W × D × H) | 282 × 250 × 370.3 mm |
| Weight | 8.15 kg |
| Ingress protection | IP65 |
| Ambient temperature | -20 °C to 45 °C |

# 09 DIMENSIONAL DRAWINGS

9.1 Dimensions in mm



# QUESTIONS OR FEEDBACK?

Scan the QR code to get in touch — we’re happy to help!

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