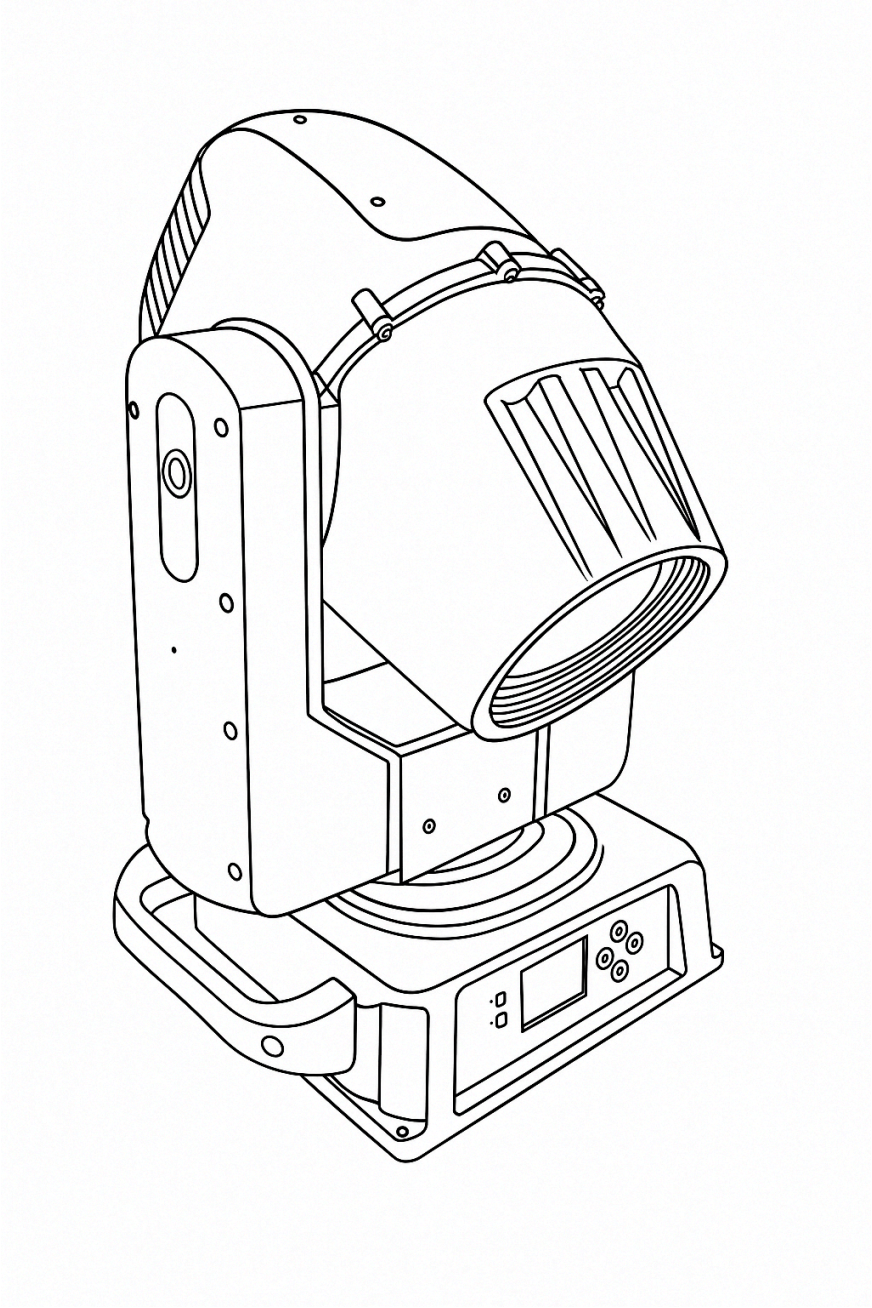

Magicolour Aura

IP65 Beam

Please read the instructions completely and carefully before using the product.

Thank you for choosing the Magicolour Aura! Before installation or use, please read this manual carefully to ensure proper operation and safety. This guide includes essential information for setup, operation, and maintenance. Retain it for future reference.

The Magicolour Aura is a beautifully designed fixture with a high-temperature-resistant metal body. It is built to CE standards and uses the international DMX512 signal protocol. It features fast rotation, low noise, and powerful functions, making it suitable for small and medium-sized concerts, theaters, studios, nightclubs, bars, light shows, and similar venues.

TCarefully remove the packaging, then inspect the fixture for any damage that may have occurred during shipping. Also verify that all included components are present and complete.

Included in the Box

- Beam Fixture × 1
- Power Cord × 1
- Signal Cable × 1
- Quick Locks × 2
- Instruction Manual × 1

This product is fully tested and functional before leaving the factory. To maintain its performance and ensure safe operation, please follow all safety instructions and warnings provided in this manual.

Important Safety Instructions

- **Read and follow all instructions in this manual.**
- **Damage due to misuse or failure to follow the manual is not covered under warranty.**
- Ensure the product is used in environments with voltage between **90–240V AC**. Only connect to a grounded Class I socket.
- Do not connect power immediately after transportation; allow time for the product to return to room temperature to prevent condensation damage.
- Regularly inspect the power cord for damage. Do not bend, splice, or share power cables with other devices.
- Disconnect power when the fixture is not in use or before cleaning.
- Only qualified professionals should install or operate the fixture. Most failures result from improper operation.
- Do not allow children or untrained personnel to handle or operate the fixture.
- Do not modify the fixture—unauthorized changes will void the warranty and may cause injury or damage.
- Maintenance must be performed by professionals. The fixture does not include user-serviceable parts.

DMX512 Signal Connection

- Use a dual-core shielded cable.
- Connect fixtures using the DMX IN and OUT (3-pin XLR) jacks.
- Use a **120-ohm, 1W terminator** between pins 2 and 3 of the last fixture's XLR OUT to prevent signal interference.

DMX Addressing Example:
Fixture 1: A001 (16CH)
Fixture 2: A019
Fixture 3: A037
(Each fixture's start address = previous address + channel count)

Fixture Installation

- Can be installed **upright, angled, or upside down.**
- Always verify structural stability.
- Use **safety cables** in overhead installations.
- After installation, block access to the fixture and routinely inspect safety cables and lock screws.

Lamp Installation & Replacement

- Turn off and unplug the fixture before replacing the bulb.
- Do not touch the glass part of the bulb.
- Use high-quality, manufacturer-recommended bulbs.
- Allow the fixture to cool for **at least 10 minutes** before handling.
- If the bulb overheats or fails, the fixture will automatically cut power to prevent damage.

Technical Specifications

Parameter	Value
Power Supply	AC 110–240V, 50/60Hz
Focus	Electronic focus
Dimming	0–100% linear
Color Wheel	13 colors
Gobos	13 patterns
Rectifier	Electronic or traditional
Pan (X) Movement	540°, 16-bit resolution
Tilt (Y) Movement	270°, 16-bit resolution
Lens	2-in-1 high-precision optical lens
Prism	Multi-effect diamond mirror prism
Strobe	Variable, with random & pulse modes
Display	Color display screen

Menu Overview

DMX Address

System Setup

- DMX Address
- Run Mode
- Channel Mode
- Pan Default Position
- Tilt Default Position
- Invert Pan
- Invert Tilt
- Signal Keep
- Screen Lock
- Encode Correct
- Hall Correct
- Backlight Time
- Invert Screen
- Language
- Update Slave
- Load Default
- Manual Control

Manual Control

Calibration (Factory Use Only)

Lamp Test

- Start Lights
- Manual Lights
- Half-Power
- Lamp Time

System Reset

Head

- XY
- All

System Menu

- Reset Error Information
- DMX Data Table
- Sensor Information
- Hardware Version
- Software Version
- Lifetime Hours

Special Features

Automatic Screen Rotation:
The screen auto-rotates based on gravity. You can disable this feature in the menu.

Power-Off DMX Addressing:
With a battery installed, press and hold the confirmation button for 5 seconds while the fixture is off to power the display and set DMX address without connecting power.

Setup Options & Explanations

Option	Explanation
Run Mode	DMX: Receives DMX signals from a console or host
	Random: Runs random preprogrammed effects
	Sound-Activated: Reacts to audio signals
Channel Mode	Standard16: Uses 16-channel DMX layout
Invert Pan	Toggle X-axis inversion:Off/On
Invert Tilt	Toggle Y-axis inversion: Off/On
Swap Pan/Tilt	Swap X and Y channels (including fine-tuning)
Hall Correction	On: Use optocoupler for auto-correction
	Off: Disable encoder auto-correction
Signal Keep	Maintain: Hold last state; Reset: Return motors to home
Screen Lock	Open: Turns off backlight after 30s idle; Close: Backlight always on
Start Lights	On: Bulb lights automatically on power-on; Off: Manual activation required
Invert Screen	Open: Auto-rotate screen; Close: Disable rotation
Restore Defaults	Press "Enter" twice to confirm restore to factory settings

System Information

Option	Explanation
Software Version	Displays the current software version of the fixture.
DMX Channel Values	Accesses a sub-menu to view channel values numerically and as percentages.
System Error Record	If the red ERR indicator is lit, an error has occurred. Enter the sub-menu to view error details. After review, press the “Clear” key to delete the error history.
Total Usage Time	Displays the total accumulated operating time (in minutes).
Current Session Time	Shows the runtime since the most recent power-on (in minutes).
Total Lamp Time	Displays the cumulative usage time of the lamp (in minutes).
Current Lamp Time	Displays the runtime of the current lamp session (in minutes).

Error Messages

Message	Explanation
Motor Reset Failed / Serial Port Error	No response from the driver board; possible issue with the serial communication cable or driver board itself.
X-Axis Reset Failed	Fault in the X-axis motor or its photoelectric switch.

Y-Axis Reset Failed	Fault in the Y-axis motor or its photoelectric switch.
X-Axis Hall Error	Hall sensor malfunction on the X-axis.
Y-Axis Hall Error	Hall sensor malfunction on the Y-axis.
Color Plate Reset Failed	Fault with the color plate motor or Hall sensor.
Pattern Disk Reset Failed	Fault with the pattern disk motor or Hall sensor.
Focus Reset Failed	Focus adjustment motor malfunction.
Prism Focus Reset Failed	Fault with the prism focusing motor or its Hall sensor.
Lamp Control Failed	Ignitor or lamp malfunction; lamp failed to ignite or shut off unexpectedly.
Lamp Time Exceeded	The lamp has surpassed its preset lifetime threshold. Replace the lamp, then reset the timer in the High-Level menu to start tracking the new lamp.

High-Level Settings

Option	Explanation
Password Protection	Set a password to prevent unauthorized access. Default password: “Up and Down” key sequence. Press “Enter” to verify.
Reset Calibration	Fine-tune the zero position of the X, Y, and other motors to correct hardware misalignment. Range: -128 to +127 (0 = no adjustment).
Maximum Lamp Time	Set a maximum usage threshold (0–9999 hours). The system will trigger an alert when exceeded.

Clear Lamp Time	Resets the cumulative lamp usage timer to zero.
Sensor Monitoring	Provides real-time status readouts of all photoelectric and Hall sensors in the fixture.

Channel Table

	CHANNEL MODE	
	6CH	**16CH**
1	Color wheel	COLOR
2	Dimming	DIMMER
3	Cut light/strobe	STOP/STROBE
4	Pattern plate	GOBO
5	Prism 1	PRISM One
6	Prism 1 rotation	PRISM 1 RT
7		
8		
9		FOCUS
10		PAN
11		PAN FINE
12		TILT
13		TILT FINE
14		PAN & TILT Speed
15		FROST
16		Lamp Control & Reset

COLOR

Bit	Effect	Result	Remarks
255	Fast Rotation	Fast rotation	
140	Slow Rotation	Slow rotation	
135-139	Color 13+White	Color 13 + white	For the convenience of memory, the color value is always a multiple of 5. Linear changes:
130	Color 13	Color 13	
125	Color 12+Color 13	Color 12 + Color 13	
120	Color 12	Color 12	
115	Color 11+Color 12	Color 11 + Color 12	
110	Color 11	Color 11	
105	Color 10 + Color 11	Color 10 + Color 11	

100	Color 10	Color 10	The color ratio can be adjusted, for example: when the value is 5, it is 50% white and 50% crimson. If the value is 4, it is 60% white and 40% crimson; if the value is 6, it is 40% white and 60% crimson.
95	Color 9 + Color 10	Color 9 + Color 10	
90	Color 9	Color 9	
85	Color 8 + Color 9	Color 8 + Color 9	
80	Color 8	Color 8	
75	Color 7 + Color 8	Color 7 + Color 8	
70	Color 7	Color 7	
65	Color 6 + Color 7	Color 6 + Color 7	
60	Color 6	Color 6	
55	Color 5 + Color 6	Color 5 + Color 6	
50	Color 5	Color 5	
45	Color 4 + Color 5	Color 4 + Color 5	
40	Color 4	Color 4	
35	Color 3 + 4	Color 3 + Color 4	
30	Color 3	Color 3	
25	Color 2 + Color 3	Color 2 + Color 3	
20	Color 2	Color 2	
15	Color 1 + 2	Color 1 + Color 2	
10	Color 1	Color 1	
5	White + Color 1	White + color 1	
0	White	White	

STOP/STOBE

Bit	EFFECT	Result	Remarks
252-255	Open	The light gate is open.	Controlled by the dimming channel
250	Fast strobe	Fast strobe	
.....	.....	.....	
Four	Slow strobe	Slow strobe	
0-3	Closed	The light gate is closed.	

DIMMER

Bit	EFFECT	Result	Remarks
255	One hundred percent	Brightness 100%	
.....	.....	.....	
0	Zero percent	Brightness 0%	

GOBO

Bit	EFFECT	Result	Remarks

255	Gobo 13 shake, fast speed	Pattern 13 fast shaking	The value is always a multiple of 5.
.....	.....	.....	
251	Gobo 13 shake, slow speed	Pattern 13 slow shaking	
.....	.....	(Pattern 2 to Pattern 12)	
195	Gobo 1 shake, fast speed	Pattern 1 shakes quickly	
.....	.....	.....	
191	Gobo 1 shake, slow speed	Pattern 1 slow shaking	
190	Fast rotation	Fast rotation (forward)	
.....	.....	.....	
135	Slow rotation	Slow rotation (forward)	
130-134	Stop	Stop	
129	Slow rotation	Slow rotation (reverse)	
.....	.....	.....	
70	Fast rotation	Fast rotation (reverse)	
65-69	Gobo 13	Pattern 13	The value is always a multiple of 5.
60	Gobo 12	Pattern 12	
55	Gobo 11	Pattern 11	
50	Gobo 10	Pattern 10	
45	Gobo 9	Pattern 9	
40	Gobo 8	Pattern 8	
35	Gobo 7	Pattern 7	
30	Gobo 6	Pattern 6	
25	Gobo 5	Pattern 5	
20	Gobo 4	Pattern 4	
15	Gobo 3	Pattern 3	
10	Gobo 2	Pattern 2	
5	Gobo 1	Pattern 1	
0	No Gobo	No Pattern	

PRISM1

Bit	EFFECT	Result	Remarks
128-255	PRISM INSERTED	Insert the prism	
0-127	PRISM EXCLUDED	Remove the prism	

PRISM 1 ROTATION

Bit	EFFECT	Result	Remarks
255	Fast Rotation	Fast rotation (forward)	
.....	.....	.....	

193	Slow Rotation	Slow rotation (forward)	
191-192	Stop	Stop	
190	Slow Rotation	Slow rotation (reverse)	
.....	.....	.....	
127	Fast Rotation	Fast rotation (reverse)	
0-127	Position	Angle adjustment	

PRISM 2

Bit	EFFECT	Result	Remarks
128-255	Prism 1 Inserted	Insert Prism 1	
0-127	Prism 1 Excluded	Remove the prism 1	

PRISM 2 ROTATION

Bit	EFFECT	Result	Remarks
255	Fast Rotation	Fast rotation (forward)	
.....	.....	.....	
193	Slow Rotation	Slow rotation (forward)	
191-192	Stop	Stop	
190	Slow Rotation	Slow rotation (reverse)	
.....	.....	.....	
127	Fast Rotation	Fast rotation (reverse)	
0-127	Position	Angle adjustment	

FROST

Bit	EFFECT	Result	Remarks
128-255	Frost Inserted	Atomize	
0-127	Frost Excluded	No atomization	

IRIS.

Bit	EFFECT	Result	Remarks
128-255	Iris Inserted	Colorful	
0-127	Iris Excluded	No colorful	

FOCUS

Bit	EFFECT	Result	Remarks
255	100%	Focus 100%	
.....	.....	.....	
Zero	0%	Focus 0%	

PAN; PAN FINE; TILT; TILT FINE (All Omitted)

PAN-TILT TIME

	Timing Channel	Channel function	Remark	
0-255	Pan-Tilt time	Pan-Tilt-(Pan fine-Tilt find	255 ..... Zero	Slow speed ..... Fast speed

Ø **LAMP CONTROL & RESET**

Bit	EFFECT	Result	Remarks
255-255	Complete reset	All motor reset	It will be effective after staying in the corresponding area for 5 seconds.
200-205	Lamp on	Turn on the light bulb	
100-105	Lamp off	Turn off the light bulb	
0-99	Unused range	Invalid area	

Autonomous programming mode

- Enter the settings on the main interface: press the OK key in manual mode
- Enter the programming manual effect and choose independently.
    - Example:
    - Color plate
    - Dimming
    - Strobe
    - Fixed chart disk
    - .....
    - XY speed (autonomous selection control)
- Running time (self-selected and determined)
- Operation scenario (self-edited) 0-15 16 scenarios in total
- The operating frequency is 15 steps in total;
- Clear data: Press the ‘OK’ key, and then press the up key to adjust 1, and then make sure to clear all the edited values;
- It is convenient for programming to quickly enter the next scenario.
- Finally, the main interface: running mode: (scene)

Manual and autonomous programming effects are completed.

Maintenance and Upkeep

Shutdown Operation:
Before turning off the power, allow the light bulb to cool for at least **10 minutes**. This gives the heat dissipation fan enough time to release the heat generated during operation, helping extend the lifespan of internal components, especially the bulb.

To ensure stable performance, the fixture must be kept clean. **Always disconnect the power supply before disassembling the fixture for repairs or maintenance**, and ensure the unit remains dry.

Regular cleaning is essential not only for maintaining maximum brightness but also for extending the fixture's service life. We recommend using **high-quality glass cleaner and a soft cloth** for the exterior. The interior should be cleaned with a **vacuum cleaner at least once every six months**.

Important Notice

Each fixture undergoes a rigorous quality inspection before leaving the factory and is packaged to ensure it arrives in perfect condition. **Failures resulting from improper use or user-caused damage are not covered by the warranty.**

Optional Parts

- Replacement bulb
- Additional weatherproof power and DMX cables
- Beam safety cable