



PRO SERIES

F24 37x40W BEE EYE PRODUCT MANUAL

Professional RGBW Moving Head Wash, Beam and Effect Light



37 x 40W
RGBW 4-in-1 LEDs

4.5°-45°
Variable Zoom

540° / 270°
Pan / Tilt

21/22/35/36CH
DMX Modes

READ THIS MANUAL BEFORE INSTALLATION OR OPERATION

Keep this manual for future reference and service procedures.

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TECHNICAL PARAMETERS

Item	Specification
Product Model	F24
Rated Voltage	AC 100-240V, 50/60Hz
Rated Power	1800W
Light Source	37 x 40W RGBW 4-in-1 LEDs
Color Temperature	2800K-8500K
LED Lifetime	Up to 50,000 hours
Display	Full-color display
Zoom / Beam Angle	4.5°-45°
Control Modes	DMX512, sound-activated, auto run, master/slave
DMX Channel Modes	21CH / 22CH / 35CH / 36CH
Pan	540°
Tilt	270°
Strobe	1-25 flashes per second, including random strobe

Important: Confirm the supply voltage, secure the fixture and safety cable, and verify the selected DMX mode before connecting the controller.

MENU OPERATION

Main Menu	Item	Options	Description
DMX Address	Address	000-512	Sets the DMX starting address.
Fixture	DMX Mode	21CH / 22CH / 35CH / 36CH	Selects the standard channel mode.
Fixture	Extended Mode	111CH / 148CH	Selects an extended pixel-control mode.
Fixture	Run Mode	DMX / Host / Sound	Selects controller, master/host or sound mode.
Fixture	Pan Invert	Off / On	Reverses pan direction.
Fixture	Tilt Invert	Off / On	Reverses tilt direction.
Fixture	No DMX Signal	Clear / Hold	Selects blackout/clear or hold-last-state behavior.
Fixture	Fan Control	Auto / Silent / High	Selects cooling fan behavior.
Fixture	Sound Sensitivity	00-99	Adjusts microphone sensitivity.

Main Menu	Item	Value	Description
Manual	Pan	000-255	Manual pan test.
Manual	Pan Fine	000-255	Manual fine pan test.
Manual	Tilt	000-255	Manual tilt test.
Manual	Tilt Fine	000-255	Manual fine tilt test.
Manual	Other Parameters	000-255	Continue through the remaining manual test parameters.
Information	Current Time	xxx h	Current operating time.
Information	Total Time	xxx h	Accumulated operating time.
Information	Power Count	xxxx	Power-on cycle count.
Information	Sensors	Status	Shows pan, tilt, zoom and other sensor status.
Information	Temperature	Head Temp xxx°C	Displays current head temperature.
Information	Software Version	Panel / Motor / Dimmer1	Displays software version numbers.



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Main Menu	Item	Options	Description
Factory	Password	000-255	Factory access value.
Factory	Pan / Tilt	000-255	Pan and tilt calibration.
Factory	Zoom / Zoom Rotation	000-255	Zoom calibration.
Factory	Red / Green / Blue / White	000-255	LED color calibration.
Fixture	Reset	Motor Reset	Runs a motor reset.
Fixture	Reset	Factory Reset	Restores factory settings.
Display		Language	Chinese / English
Display		Display Flip	Normal / Reverse
Display		Display Mode	60s / Show
Tuning Frequency	Refresh Frequency	1K / 10K / 15K / 20K / 25K	Selects the LED refresh frequency.

Channel Mode Overview

Mode	Application	Summary
21CH	Standard control	RGBW color and fine control, CTO, macros, strobe, 16-bit pan/tilt, zoom and zoom rotation.
22CH	Standard + frequency	Adds LED refresh / tuning frequency selection to the 21CH functions.
35CH	Shape effects	Adds shape selection, fade, speed, shape RGBW, foreground/background dimming and strobe.
36CH	Shape effects + frequency	Adds LED refresh / tuning frequency selection to the 35CH functions.
111CH / 148CH	Extended control	Extended modes available from the fixture menu for advanced control.

Menu note: After changing the DMX mode, confirm that the controller profile uses the same channel count. If no DMX signal is present, the fixture follows the selected Clear or Hold behavior.

Quick Start

Step	Action	Procedure
1	Install	Mount the fixture securely and attach an independent safety cable.
2	Power	Connect to a grounded AC 100-240V, 50/60Hz supply.
3	Address	Set the DMX starting address from 000 to 512.
4	Mode	Select 21CH, 22CH, 35CH or 36CH to match the controller profile.
5	Test	Verify pan, tilt, zoom, dimmer and color functions before the show.



DMX512 CHANNEL FUNCTIONS

The F24 supports four standard DMX modes. Select the correct channel mode in the fixture menu before operation. Values are shown in decimal format from 0 to 255.

21CH DMX CHANNEL MODE

CH	Function	DMX Value	Function / Description
1	Red	0-255	Red output: 0-100% brightness, dark to bright.
2	Red Fine	0-255	Fine adjustment of red output.
3	Green	0-255	Green output: 0-100% brightness, dark to bright.
4	Green Fine	0-255	Fine adjustment of green output.
5	Blue	0-255	Blue output: 0-100% brightness, dark to bright.
6	Blue Fine	0-255	Fine adjustment of blue output.
7	White	0-255	White output: 0-100% brightness, dark to bright.
8	White Fine	0-255	Fine adjustment of white output.
9	CTO	0-255	Linear color-temperature control.
10	Macro Color	0-255	Built-in color macro selection.
11	Strobe	0-255	0-3: blackout 4-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-212: light on 213-225: low-speed random strobe 226-238: medium-speed random strobe 239-251: high-speed random strobe 252-255: blackout
12	Dimmer	0-255	Master brightness: linear adjustment from 0-100%.
13	Dimmer Fine	0-255	Fine adjustment of master dimmer.
14	Pan	0-255	X-axis (pan) position control.
15	Pan Fine	0-255	Fine adjustment of X-axis position.
16	Tilt	0-255	Y-axis (tilt) position control.
17	Tilt Fine	0-255	Fine adjustment of Y-axis position.
18	Function	0-255	0-102: no function 103-105: extended mode 106-255: no function
19	Reset	0-255	0-199: no function 200-205: hold for 5 seconds to start automatic reset 206-255: no function
20	Zoom	0-255	Zoom / focusing control.
21	Zoom Rotation	0-255	Zoom rotation control.

21CH mode: Recommended for standard console operation with fine RGBW dimming, CTO, macro colors, strobe, 16-bit pan/tilt and zoom rotation.



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22CH DMX CHANNEL MODE

CH	Function	DMX Value	Function / Description
1	Red	0-255	Red output: 0-100% brightness, dark to bright.
2	Red Fine	0-255	Fine adjustment of red output.
3	Green	0-255	Green output: 0-100% brightness, dark to bright.
4	Green Fine	0-255	Fine adjustment of green output.
5	Blue	0-255	Blue output: 0-100% brightness, dark to bright.
6	Blue Fine	0-255	Fine adjustment of blue output.
7	White	0-255	White output: 0-100% brightness, dark to bright.
8	White Fine	0-255	Fine adjustment of white output.
9	CTO	0-255	Linear color-temperature control.
10	Macro Color	0-255	Built-in color macro selection.
11	Strobe	0-255	0-3: blackout 4-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-212: light on 213-225: low-speed random strobe 226-238: medium-speed random strobe 239-251: high-speed random strobe 252-255: blackout
12	Dimmer	0-255	Master brightness: linear adjustment from 0-100%.
13	Dimmer Fine	0-255	Fine adjustment of master dimmer.
14	Pan	0-255	X-axis (pan) position control.
15	Pan Fine	0-255	Fine adjustment of X-axis position.
16	Tilt	0-255	Y-axis (tilt) position control.
17	Tilt Fine	0-255	Fine adjustment of Y-axis position.
18	Function	0-255	0-102: no function 103-105: extended mode 106-255: no function
19	Reset	0-255	0-199: no function 200-205: hold for 5 seconds to start automatic reset 206-255: no function
20	Zoom	0-255	Zoom / focusing control.
21	Zoom Rotation	0-255	Zoom rotation control.
22	Frequency	0-255	LED refresh / tuning frequency selection.

22CH mode: Uses the same standard control functions as 21CH and adds a dedicated LED refresh / tuning frequency channel.



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35CH DMX CHANNEL MODE

CH	Function	DMX Value	Function / Description
1	Red	0-255	Red output: 0-100% brightness, dark to bright.
2	Red Fine	0-255	Fine adjustment of red output.
3	Green	0-255	Green output: 0-100% brightness, dark to bright.
4	Green Fine	0-255	Fine adjustment of green output.
5	Blue	0-255	Blue output: 0-100% brightness, dark to bright.
6	Blue Fine	0-255	Fine adjustment of blue output.
7	White	0-255	White output: 0-100% brightness, dark to bright.
8	White Fine	0-255	Fine adjustment of white output.
9	CTO	0-255	Linear color-temperature control.
10	Macro Color	0-255	Built-in color macro selection.
11	Strobe	0-255	0-3: blackout 4-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-212: light on 213-225: low-speed random strobe 226-238: medium-speed random strobe 239-251: high-speed random strobe 252-255: blackout
12	Dimmer	0-255	Master brightness: linear adjustment from 0-100%.
13	Dimmer Fine	0-255	Fine adjustment of master dimmer.
14	Pan	0-255	X-axis (pan) position control.
15	Pan Fine	0-255	Fine adjustment of X-axis position.
16	Tilt	0-255	Y-axis (tilt) position control.
17	Tilt Fine	0-255	Fine adjustment of Y-axis position.
18	Function	0-255	0-102: no function 103-105: extended mode 106-255: no function
19	Reset	0-255	0-199: no function 200-205: hold for 5 seconds to start automatic reset 206-255: no function
20	Zoom	0-255	Zoom / focusing control.
21	Zoom Rotation	0-255	Zoom rotation control.
22	Shape Selection	0-255	Graphic / shape selection.
23	Shape Fade	0-255	Smooth gradient control.
24	Shape Speed	0-255	Graphic movement speed control.
25	Shape Red	0-255	Shape red brightness: 0-100%.
26	Shape Green	0-255	Shape green brightness: 0-100%.
27	Shape Blue	0-255	Shape blue brightness: 0-100%.
28	Shape White	0-255	Shape white brightness: 0-100%.
29	Shape Dimmer	0-255	Shape master brightness: 0-100%.
30	Background Dimmer	0-255	Background brightness: 0-100%.
31	Shape Transition	0-255	Graphic transition control.
32	Shape Offset	0-255	Graphic offset control.
33	Foreground Strobe	0-255	0-4: blackout 5-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-255: light on
34	Background Strobe	0-255	0-4: blackout 5-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-255: light on
35	Background Select	0-255	Background spin / selection control.



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36CH DMX CHANNEL MODE

CH	Function	DMX Value	Function / Description
1	Red	0-255	Red output: 0-100% brightness, dark to bright.
2	Red Fine	0-255	Fine adjustment of red output.
3	Green	0-255	Green output: 0-100% brightness, dark to bright.
4	Green Fine	0-255	Fine adjustment of green output.
5	Blue	0-255	Blue output: 0-100% brightness, dark to bright.
6	Blue Fine	0-255	Fine adjustment of blue output.
7	White	0-255	White output: 0-100% brightness, dark to bright.
8	White Fine	0-255	Fine adjustment of white output.
9	CTO	0-255	Linear color-temperature control.
10	Macro Color	0-255	Built-in color macro selection.
11	Strobe	0-255	0-3: blackout 4-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-212: light on 213-225: low-speed random strobe 226-238: medium-speed random strobe 239-251: high-speed random strobe 252-255: blackout
12	Dimmer	0-255	Master brightness: linear adjustment from 0-100%.
13	Dimmer Fine	0-255	Fine adjustment of master dimmer.
14	Pan	0-255	X-axis (pan) position control.
15	Pan Fine	0-255	Fine adjustment of X-axis position.
16	Tilt	0-255	Y-axis (tilt) position control.
17	Tilt Fine	0-255	Fine adjustment of Y-axis position.
18	Function	0-255	0-102: no function 103-105: extended mode 106-255: no function
19	Reset	0-255	0-199: no function 200-205: hold for 5 seconds to start automatic reset 206-255: no function
20	Zoom	0-255	Zoom / focusing control.
21	Zoom Rotation	0-255	Zoom rotation control.
22	Shape Selection	0-255	Graphic / shape selection.
23	Shape Fade	0-255	Smooth gradient control.
24	Shape Speed	0-255	Graphic movement speed control.
25	Shape Red	0-255	Shape red brightness: 0-100%.
26	Shape Green	0-255	Shape green brightness: 0-100%.
27	Shape Blue	0-255	Shape blue brightness: 0-100%.
28	Shape White	0-255	Shape white brightness: 0-100%.
29	Shape Dimmer	0-255	Shape master brightness: 0-100%.
30	Background Dimmer	0-255	Background brightness: 0-100%.
31	Shape Transition	0-255	Graphic transition control.
32	Shape Offset	0-255	Graphic offset control.
33	Foreground Strobe	0-255	0-4: blackout 5-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-255: light on
34	Background Strobe	0-255	0-4: blackout 5-103: regular strobe, slow to fast 104-107: light on 108-207: pulse strobe, slow to fast 208-255: light on
35	Background Select	0-255	Background spin / selection control.
36	Frequency	0-255	LED refresh / tuning frequency selection.

MAINTENANCE AND CLEANING

CAUTION

Disconnect the fixture from mains power before beginning any inspection, cleaning or maintenance operation.

The following points must be checked during inspection:

- All screws used to install the fixture or its parts must be tight and free from corrosion.
- The housing, lenses, fixing points and installation locations (ceiling, suspension points or trussing) must not be deformed.
- Mechanically moving parts must show no abnormal wear and must rotate without imbalance.
- Power-supply cables must show no damage, material fatigue or deposits.

Additional requirements for the specific installation location and application must be followed by a qualified installer. Any identified safety problem must be corrected before the fixture is used again.

Recommended Cleaning Schedule

Interval	Procedure
Weekly	Clean the inside and outside optical lenses to prevent output loss caused by dust buildup.
Weekly	Clean the cooling fan and ventilation openings.
Every 3 months	Have an approved electrical engineer inspect the internal electrical connections to prevent overheating caused by poor contacts.
As required	Clean the housing with a soft, moist, lint-free cloth. Never use alcohol or solvents.

Service: There are no user-serviceable parts inside the fixture. Refer to the installation instructions and contact your local dealer when service or replacement parts are required. Use genuine replacement parts only.

STARSHINE LIGHTS SUPPORT

Product Model: F24

Website: www.starshinelights.com

Keep the product serial number and purchase information available when requesting support.



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