

EXTREME ENGINE



Mini 740 BEE EYES

Mini 740 – Bee Eye 7x40W LED Unofficial Manual

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Technical Specs

Model:	Mini 740
Shell Color:	Black
Material:	Aluminum alloy + Plastic Housing + Flame Retardant Materials
Voltage:	AC110V-240V 50/60Hz
Rated Power:	350W
Light Source:	7 x 40W LED
Strobe:	1-25Hz
Focusing:	Electronic
Zooming Range:	3 to 60 deg
X-Axis:	540° with 16BIT Fine-Tuning
Y-Axis:	270° with 16BIT Fine-Tuning
Control Mode:	Automatic/Sound Activated /DMX
Control Channel:	23CH/35CH/51CH
Protocol:	Standard DMX512 protocol,
Service life:	50000hrs
Data Connection:	3-Pin XLR Input/Output
Power Connection:	Powercon Input/Output
Display:	LCD Digital Display
Protection Grade:	IP20
Working Environment:	-20°C to 40°C

Notes

No information on the unit or box other than “Mini 740”. On Boot, LCD Screen says: “7 MEE B.”

Under System Information on LCD, states version is “APM-V9”

Manufactured by Foshan Jinqing Optoelectronics Technology Co. Ltd.

[Aliexpress Link](#) – [Store Link](#)

Power Testing

Idle: 31W

Idle with Fans on Full: 34W

RGBW on full: 252W

Red Full (Minus Idle w/ Fans): 67W

Green Full (Minus Idle w/ Fans): 78W

Blue Full (Minus Idle w/ Fans): 81W

White Full (Minus Idle w/ Fans): 80W

Sound Levels (1m away)

Idle: 52dB

Full Fans: 56dB

RDM Info

Device Model Description: ZOOM740

Manufacturer Label: MODU

Device Label: 740

Temperature Sensor (Not Working)

Can change DMX address via RDM, not channel mode though.

DMX/Profile Notes

Lens Rotation only works when the Zoom is set at maximum (fully zoomed in)

Strobe has to be on 255 for the Lamp to be on

35CH Only: Colour/Intensity Fine controls don't seem to do anything.

35CH Only: Animation Fade Time is only On or Off, fade time isn't adjustable.

35CH Only: Channel 31, 32, 35 don't seem to do anything.

Menu Settings

Arrow Keys to move around

Left Button to enter a menu, middle button to select things. Up/Down to change settings.

Menu Item	Sub Menu	Options
DMX Settings	DMX Address	DMX Address (001-512)
	Channel Settings	23CH 35CH 51CH
Run	Run Mode	DMX Slow Fast Sound Manual Test
Invert Pan/Tilt	Invert Pan	Yes/No
	Invert Tilt	Yes/No
Display Set	Invert Word	Flips Screen Upside Down
	English/Chinese	Language Options
	LCD Backlight On	Stops screen from turning off
Manual	Manual Controls for Pan/Tilt/Lens Rotate/Zoom/Intens/Strobe/Red/Green/Blue/White	
Sound Sense	Sound Sensitivity Setting	
System Set	System Information	Shows LED Temp + Version Number
	Default Settings	Resets Settings to Default
	Code Settings	Code is Down Down Up Up Contains advanced settings for setup – probably don't touch these! Default settings: PAN_INIT: 208 TILT_INIT: 128 ROTA_INIT: 190 ZOOM_INIT: 128 SET_R: 230 SET_G: 240 SET_B: 240 SET_W: 240

DMX Channel List – 23 Channel

Channel	Ch Name	EOS Ch Name	Notes
1	Pan	Pan	
2	Pan Fine		
3	Tilt	Tilt	
4	Tilt Fine		
5	Pan/Tilt Speed	Position Mspeed	Fast -> Slow
6	Zoom	Zoom	Out -> In
7	Lens Rotate	Compound Lens Index Rotate	0 = Tight Beam 0-127 - Standard Lens Rotate 128 - 190 - Forward Rotate Fast -> Slow 191 - Lens Rotate Pause 192-255 - Backwards Rotate Slow -> Fast
8	Intensity	Intens	Low -> High
9	Strobe	Shutter Strobe	0 = Lamp Off 1-103 = Strobe Slow -> Fast 104-105 = Strobe Off (Lamp On) 106-208 = Strobe Slow -> Fast 209-212 = Strobe Off (Lamp On) 213-252 = Random Strobe? 253-255 = Strobe Off (Lamp On)
10	Red	Red	
11	Green	Green	
12	Blue	Blue	
13	White	White	
14	CTO	Color Temperature	
15	Colour Effect	Color Mix	0-9 - Effect Off 10-18 - Assorted Colours 19 - Lamp Off 20 - 255 - Assorted Colours
16	Pattern Effect	Pixel Mask	Combination of Background + Foreground Colour 0-9 = Effect Off 10-129 = Foreground/Background Combos 130-179 = Multicolour Combos 180-184 = Lamp Off 185-255 = RGB
17	Animations	Pixel Mask 2	0-7 = Animations Off 8-9 = Foreground Colour, but different? 10-68 = Background Colour Solid 69-150 = Foreground/Background Combo Animations 151-159 = Lamp Off 160-255 = Assorted Rainbow Combinations
18	Animation Speed	Pixel Mask Effect Parameter Rate	0-128 - Forward Fast -> Slow 129-255 - Backward Slow -> Fast
19	Background Red	Background Red	
20	Background Green	Background Green	
21	Background Blue	Background Blue	
22	Background White	Background White	
23	Lamp Reset	Fixture Global Reset	0-250 = Nothing 251-255 = Reset (Hold 5 seconds)

DMX Channel List – 35 Channel

35CH	Ch Name	EOS Ch Name	Notes
1	Red	Red	
2	Red Fine		
3	Green	Green	
4	Green Fine		
5	Blue	Blue	
6	Blue Fine		
7	White	White	
8	White Fine		
9	CTO	Color Temperature	
10	Colour Effect	Color Mix	0-9 - Effect Off 10-18 - Assorted Colours 19 - Lamp Off 20 - 255 - Assorted Colours
11	Strobe	Shutter Strobe	0 = Lamp Off 1-103 = Strobe Slow -> Fast 104-105 = Strobe Off (Lamp On) 106-208 = Strobe Slow -> Fast 209-212 = Strobe Off (Lamp On) 213-252 = Random Strobe? 253-255 = Strobe Off (Lamp On)
12	Intensity	Intens	Low -> High
13	Intensity Fine		
14	Pan	Pan	0 = Forward 85 = Backward 169 = Forward (Set Home To This) 255 = Backward
15	Pan Fine		
16	Tilt	Tilt	127 = Straight Down (Home)
17	Tilt Fine		
18	Pan/Tilt Speed	Position Mspeed	Fast -> Slow
19	Reset	Fixture Global Reset	0-250 = Nothing 251-255 = Reset (Hold 5 seconds)
20	Zoom	Zoom	Out -> In
21	Lens Rotate	Compound Lens Index Rotate	0 = Tight Beam 0-127 - Standard Lens Rotate 128 - 190 - Forward Rotate Fast -> Slow 191 - Lens Rotate Pause 192-255 - Backwards Rotate Slow -> Fast
22	Pattern Effect	Pixel Mask	0-7 = Patterns Off 8-70 = Foreground + Background Patterns 21 + 22 = Special Rainbow FX
23	Animation Speed	Pixel Mask Effect Parameter Rate	0-63 - Animation Frames (Step by Step) 64-159 - Forward Fast -> Slow 160-255 - Backward Slow -> Fast
24	Animation Fade	Pixel Mask Effect Crossfade Time	0-15 = Off 16-255 = Fade On
25	Background Red	Background Red	
26	Background Green	Background Green	
27	Background Blue	Background Blue	
28	Background White	Background White	
29	Background Intensity	Background Intensity	
30	Foreground Intensity	Foreground Intensity	
31	Unknown	Dummy	Manual says "Shape Transition"
32	Unknown	Dummy	Manual Says "Shape Offset"
33	Background Strobe	Background Shutter Strobe	0 = Lamp Off 1-103 = Strobe Slow -> Fast 104-105 = Strobe Off (Lamp On) 106-208 = Strobe Slow -> Fast 209-212 = Strobe Off (Lamp On) 213-252 = Random Strobe? 253-255 = Strobe Off (Lamp On)
34	Foreground Strobe	Foreground Shutter Strobe	0 = Lamp Off 1-103 = Strobe Slow -> Fast 104-105 = Strobe Off (Lamp On) 106-208 = Strobe Slow -> Fast 209-212 = Strobe Off (Lamp On) 213-252 = Random Strobe? 253-255 = Strobe Off (Lamp On)
35	Unknown	Dummy	Manual Says "Background Select" - Does nothing

DMX Channel List – 51 Channel

Same as the 23 Channel Mode, with the 7 LED's individually addressable

51CH	ChName	EOS Ch Name	Notes
1	Pan	Pan	
2	Pan Fine		
3	Tilt	Tilt	
4	Tilt Fine		
5	Pan/Tilt Speed	Position Mspeed	Fast -> Slow
6	Zoom	Zoom	Out -> In
7	Lens Rotate	Compound Lens Index Rotate	0 = Tight Beam 0-127 - Standard Lens Rotate 128 - 190 - Forward Rotate Fast -> Slow 191 - Lens Rotate Pause 192-255 - Backwards Rotate Slow -> Fast
8	Intensity	Intens	Low -> High
9	Strobe	Shutter Strobe	0 = Lamp Off 1-103 = Strobe Slow -> Fast 104-105 = Strobe Off (Lamp On) 106-208 = Strobe Slow -> Fast 209-212 = Strobe Off (Lamp On) 213-252 = Random Strobe? 253-255 = Strobe Off (Lamp On)
10	Red	Red	
11	Green	Green	
12	Blue	Blue	
13	White	White	
14	CTO	Color Temperature	
15	Colour Effect	Color Mix	0-9 - Effect Off 10-18 - Assorted Colours 19 - Lamp Off 20 - 255 - Assorted Colours
16	Pattern Effect	Pixel Mask	Combination of Background + Foreground Colour 0-9 = Effect Off 10-129 = Foreground/Background Combos 130-179 = Multicolour Combos 180-184 = Lamp Off 185-255 = RGB
17	Animations	Pixel Mask 2	0-7 = Animations Off 8-9 = Foreground Colour, but different? 10-68 = Background Colour Solid 69-150 = Foreground/Background Combo Animations 151-159 = Lamp Off 160-255 = Assorted Rainbow Combinations
18	Animation Speed	Pixel Mask Effect Parameter Rate	17 Must be set 0-128 - Forward Fast -> Slow 129-255 - Backward Slow -> Fast
19	Background Red	Background Red	
20	Background Green	Background Green	
21	Background Blue	Background Blue	
22	Background White	Background White	
23	Lamp Reset	Fixture Global Reset	0-250 = Nothing 251-255 = Reset (Hold 5 seconds)

LED's 1-7 (Repeat this 7x)

Channel Groups: 24-27, 28-31, 32-35, 36-39, 40-43, 44-47, 48-51

24	LED1 Red		
25	LED1 Green		
26	LED1 Blue		
27	LED1 White		