

IP65 7x60W MAC Aura LED Moving Head Light



Operation Manual

Parameters:

Voltage: AC100V-240V 50-60Hz.

Rated Power: 500W.

Light Source: 7x60W RGBW 4in1 LEDs.

Color Temperature: 2800K-8500K.

Led Lifetime: 50000 hours.

Optical System: high-precision single lens structure, high transmittance quartz glass rod+PMMA lens.

Optical Zoom Angle: adjustable from 4.5°-45°.

Beam: Outstanding small angle beam effect.

Wash : Evenly spread light at medium to large angles.

Main Led Color: Single Led Control, RGBW color mixing system, uniform color mixing without flicker, fast color rainbow effect.

Back LED Effect: Back RGB Leds filaments deliver a brighter aura backlight effect as well as the ability to show iconic aura filaments that can also be individually controlled. Full pixel control with video mapping capabilities onto beam, aura or both promise new and exciting eye candy looks for creating intriguing stage effects.

Dimming: Electronic dimming

Strobe: 1-25pcs/second, random

Control methods: DMX512, RDM, master-slave mode, auto mode, sound mode, USB, ARTNET protocol (according to requirements)

Channels: 20CH-1/36CH/108CH/20CH-2

Pan: 540°

Tilt: 270°

Temperature Control: Intelligent temperature control, capable of automatically adjusting the speed of the cooling fan and overheating protection, with three fan modes

Software Upgrade: Upload upgrade files through the DMX

Magnetic Coding Positioning: non-contact magnetic rotary encoder positioning, signal feedback, absolute position memory

Body: Latest second-generation structural waterproof design, metal die-casting aluminum shell and fire-resistant engineering plastic

Display screen: Colorful screen

IP Rating: IP65

Product size: 330*230*507mm

Net weight: 15.1kg

Menu Operation:

Main Menu	Second	Third	Fourth
Dmx Address	000 - 512		
Fixture	Dmx Mode	20CH-1/36CH/108CH/20CH-2	
	Run Mode	DMX / Host / Sound	
	Pan Invert	Close / Open	

	Tilt Invert	Close / Open	
	Dmx Signal	Clear / Hold	
	Fan Control	Auto / Client / High	
	Dim Curve	Linear /Square law /Inverse square law /S-Curve	
	Sound Control	1 -- 99	
Manual	Shutter	000 - 255	
	Dimmer	000 - 255	
	Dimmer Fine	000 - 255	
	Red	000 - 255	
	⋮	⋮	
Information	Time	Current Time	xxxH
		Total Time	xxxH
		Power Count	xxxx
	Sensor	Pan	FALSE / TURE
		Tilt	FALSE / TURE
		Zoom	FALSE /

			TURE
		Temp	FALSE / TURE
	Temperature	Head Temp	xxx°C
	Software Version	Panel	Vx.xx
Factory	Password	000 - 255	
	Pan	000 - 255	
	Tilt	000 - 255	
	Zoom	000 - 255	
	Red	000 - 255	
	Green	000 - 255	
	Blue	000 - 255	
	Lime	000 - 255	
Reset	Motor Reset	Off / Run	
	Factory	Off / Run	
Display	Language	CH / EN	
	Display Flip	Normal / Reverse	
	Display Mode	60s / Show	

Channels:

20CH-1	36CH	108CH	20CH-2	Function	VALUE	DESCRIPTION
1	1	1	1	Shutter	0–19	Shutter closed
					20–49	Shutter open
					50–200	Strobe slow → fast
					201–210	Shutter open

					211–255	Random strobe slow → fast
2	2	2	2	Dimmer	000-255	Closed → Open
3	3	3	3	Dimmer Fine	000-255	Closed → Open
4	4	4	4	Red	000-255	Intensity 0 → 100%
5	5	5	5	Red Fine	000-255	Intensity 0 → 100%
6	6	6	6	Green	000-255	Intensity 0 → 100%
7	7	7	7	Green Fine	000-255	Intensity 0 → 100%
8	8	8	8	Blue	000-255	Intensity 0 → 100%
9	9	9	9	Blue Fine	000-255	Intensity 0 → 100%
			10	Lime	000-255	Intensity 0 → 100%
			11	LimeFine	000-255	Intensity 0 → 100%
10	10	10		CTC	0-38	2000K
					39	2050K
					...	...
					127	6450K
					128	6500K
					129	6550K
					...	...
					255	12850K
11	11	11		Tint	000-255	Green Magenta Shift
12	12	12	12	Virtual Color Wheel	0–10	Open
					11–12	Moroccan Pink (LEE 790)
					13–14	Pink (LEE 157)
					15–16	Special Rose Pink (LEE 332)
					17–18	Follies Pink (LEE 328)
					19–20	Fuchsia Pink (LEE 345)
					21–22	Surprise Pink (LEE 194)
					23–24	Congo Blue (LEE 181)
					25–26	Tokyo Blue (LEE 071)
					27–28	Deep Blue (LEE 120)
					29–30	Just Blue (LEE 079)
					31–32	Medium Blue (LEE 132)
					33–34	Double CT Blue (LEE 200)
					35–36	Slate Blue (LEE 161)
					37–38	Full CT Blue (LEE 201)

					39–40	Half CT Blue (LEE 202)
					41–42	Steel Blue (LEE 117)
					43–44	Lighter Blue (LEE 353)
					45–46	Light Blue (LEE 118)
					47–48	Medium Blue Green (LEE 116)
					49–50	Dark Green (LEE 124)
					51–52	Primary Green (LEE 139)
					53–54	Moss Green (LEE 089)
					55–56	Fern Green (LEE 122)
					57–58	Jas Green (LEE 738)
					59–60	Lime Green (LEE 088)
					61–62	Spring Yellow (LEE 100)
					63–64	Deep Amber (LEE 104)
					65–66	Chrome Orange (LEE 179)
					67–68	Orange (LEE 105)
					69–70	Gold Amber (LEE 021)
					71–72	Millennium Gold (LEE 778)
					73–74	Deep Golden Amber (LEE 135)
					75–76	Flame Red (LEE 164)
					77–78	Red Magenta (LEE 113)
					79–80	Medium Lavender (LEE 343)
					81–82	Pure White (White LEDs only)
					83–84	Pure Red (Red LEDs only)
					85–86	Pure Yellow (Red + Green LEDs only)

					87–88	Pure Green (Green LEDs only)
					89–90	Pure Cyan (Green + Blue LEDs only)
					91–92	Pure Blue (Blue LEDs only)
					93–94	Pure Magenta (Blue + Red LEDs only)
					95–96	Peacock Blue (LEE 115)
					97–98	Dark Lavender (LEE 180)
					99–100	Double CT Orange (LEE 287)
					101–102	Full CT Orange (LEE 204)
					103–104	Half CT Orange (LEE 205)
					105–106	Deep Straw (LEE 015)
					107–190	No function
					191–214	CW,fast->slow
					215–219	stop
					220–243	CCW,slow->fast
					244–255	random colors fast->slow
13	13	13	13	Zoom	000-255	Zoom 0%-100% (small to big)
14	14	14	14	Zoom Fine	000-255	Zoom Fine
15	15	15	15	Pan	000-255	Pan
16	16	16	16	Pan Fine	000-255	Pan Fine
17	17	17	17	Tilt	000-255	Tilt
18	18	18	18	Tilt Fine	000-255	Tilt Fine
19	19	19	19	Fixture control	0–9	Function
					10–14	Reset fixture – 5 sec.
					15–16	Empty
					17	Empty
					18	Reset pan and tilt only – 5 sec.
					19–22	Empty
					23	Linear dimmer curve – 1 sec.
					24	Square law dimmer curve (default) – 1 sec.
					25	Inverse square law dimmer curve – 1 sec.

					26	S-Curve dimmer curve – 1 sec.
					27	Empty
					28	Empty
					29	Empty
					30–35	空
					36	Empty
					37	Empty
					38	Empty
					39	Empty
					40–51	Empty
					52	Empty
					53	Empty
					54	Auto fan speed, fixed output intensity (default) – 1 sec.
					55	Client fan speed, regulated output intensity – 1 sec.
					56	High fan speed, regulated output intensity– 1 sec.
					57	Empty
					58	Empty
					59–60	Empty
					61	Empty
					62	Empty
					63–64	Empty
					65	Empty
					66	Empty
					67	Empty
					68	Empty
					69	Empty
					70	Empty
					71	Empty
					72	Empty
					73	Empty
					74	Empty
					75	Empty
					76	Empty
					77–91	Empty
					92	Empty
					93	Empty
					94–99	Empty
					100	Empty
					101	Empty
					102	Empty
					103–113	Empty

					114	Empty
					115–198	Empty
					199	Empty
					200–255	Empty
20	20	20	20	LED PWM frequency	0	Hybrid LED dimming mode
					1–127	Variable -2% – 0%
					128	2400 Hz
					129–254	Variable 0% – +2%
					255	No function
	21	21		Beam P3 Mix	000-255	Reserved
	22	22		FX 1 remark: FX 1 are all auto run shows	0	No function
					1	Effect 1
					2	Effect 2
					3	Effect 3
					4 - 47	No function
					48	Effect 4
					49	Effect 5
					50	Effect 6
					51	Effect 7
					52	Effect 8
					53	Effect 9
					54	Effect 10
					55	Effect 11
					56	Effect 12
					57	Effect 13
					58-255	No function
	23	23		FX 1 adjust	0–126	Reverse fast → slow
					127–129	Stop
					130–255	Slow → fast
	24	24		FX 2 remark: FX 2 are all auto run shows	0	No function
					1	Effect 1
					2	Effect 2
					3	Effect 3
					4 - 47	No function
					48	Effect 4
					49	Effect 5
					50	Effect 6
					51	Effect 7
					52	Effect 8
					53	Effect 9
					54	Effect 10
					55	Effect 11
					56	Effect 12

					57	Effect 13
					58-255	No function
	25	25		FX 2 adjust	0-126	Reverse fast → slow
					127-129	Stop
					130-255	Slow → fast
	26	26		FX Synchronization	000-255	Reserved
	27	27		Backlight shutter	0-19	Shutter closed
					20-49	Shutter open
					50-200	Strobe slow → fast
					201-210	Shutter open
					211-255	Random strobe slow → fast
	28	28		Backlight dimmer	000-255	Closed → Open
	29	29		Backlight dimmer Fine	000-255	Closed → Open
	30	30		Backlight Red	000-255	Intensity 0 → 100%
	31	31		Backlight Green	000-255	Intensity 0 → 100%
	32	32		Backlight Blue	000-255	Intensity 0 → 100%
	33	33		Backlight CTC	000-255	Same as Channel CTC
	34	34		Backlight Tint	000-255	Same as Channel Tint
	35	35		Backlight virtual color wheel	000-255	Same as Channel Virtual Color Wheel
	36	36		Backlight P3 Mix	000-255	Reserved
		37		Backlight Pixel 1 Red	000-255	Intensity 0 → 100%
		38		Backlight Pixel 1 Green	000-255	Intensity 0 → 100%
		39		Backlight Pixel 1 Blue	000-255	Intensity 0 → 100%
		40		Backlight Pixel 2 Red	000-255	Intensity 0 → 100%
		41		Backlight Pixel 2 Green	000-255	Intensity 0 → 100%
		42		Backlight Pixel 2 Blue	000-255	Intensity 0 → 100%
		43		Backlight Pixel 3 Red	000-255	Intensity 0 → 100%
		44		Backlight Pixel 3 Green	000-255	Intensity 0 → 100%

		45		Backlight Pixel 3 Blue	000-255	Intensity 0 → 100%
		46		Backlight Pixel 4 Red	000-255	Intensity 0 → 100%
		47		Backlight Pixel 4 Green	000-255	Intensity 0 → 100%
		48		Backlight Pixel 4 Blue	000-255	Intensity 0 → 100%
		49		Backlight Pixel 5 Red	000-255	Intensity 0 → 100%
		50		Backlight Pixel 5 Green	000-255	Intensity 0 → 100%
		51		Backlight Pixel 5 Blue	000-255	Intensity 0 → 100%
		52		Backlight Pixel 6 Red	000-255	Intensity 0 → 100%
		53		Backlight Pixel 6 Green	000-255	Intensity 0 → 100%
		54		Backlight Pixel 6 Blue	000-255	Intensity 0 → 100%
		55		Backlight Pixel 7 Red	000-255	Intensity 0 → 100%
		56		Backlight Pixel 7 Green	000-255	Intensity 0 → 100%
		57		Backlight Pixel 7 Blue	000-255	Intensity 0 → 100%
		58		Backlight Pixel 8 Red	000-255	Intensity 0 → 100%
		59		Backlight Pixel 8 Green	000-255	Intensity 0 → 100%
		60		Backlight Pixel 8 Blue	000-255	Intensity 0 → 100%
		61		Backlight Pixel 9 Red	000-255	Intensity 0 → 100%
		62		Backlight Pixel 9 Green	000-255	Intensity 0 → 100%
		63		Backlight Pixel 9 Blue	000-255	Intensity 0 → 100%
		64		Backlight Pixel 10 Red	000-255	Intensity 0 → 100%
		65		Backlight Pixel 10 Green	000-255	Intensity 0 → 100%
		66		Backlight Pixel 10 Blue	000-255	Intensity 0 → 100%

		67		Backlight Pixel 11 Red	000-255	Intensity 0 → 100%
		68		Backlight Pixel 11 Green	000-255	Intensity 0 → 100%
		69		Backlight Pixel 11 Blue	000-255	Intensity 0 → 100%
		70		Backlight Pixel 12 Red	000-255	Intensity 0 → 100%
		71		Backlight Pixel 12 Green	000-255	Intensity 0 → 100%
		72		Backlight Pixel 12 Blue	000-255	Intensity 0 → 100%
		73		Backlight Pixel 13 Red	000-255	Intensity 0 → 100%
		74		Backlight Pixel 13 Green	000-255	Intensity 0 → 100%
		75		Backlight Pixel 13 Blue	000-255	Intensity 0 → 100%
		76		Backlight Pixel 14 Red	000-255	Intensity 0 → 100%
		77		Backlight Pixel 14 Green	000-255	Intensity 0 → 100%
		78		Backlight Pixel 14 Blue	000-255	Intensity 0 → 100%
		79		Backlight Pixel 15 Red	000-255	Intensity 0 → 100%
		80		Backlight Pixel 15 Green	000-255	Intensity 0 → 100%
		81		Backlight Pixel 15 Blue	000-255	Intensity 0 → 100%
		82		Backlight Pixel 16 Red	000-255	Intensity 0 → 100%
		83		Backlight Pixel 16 Green	000-255	Intensity 0 → 100%
		84		Backlight Pixel 16 Blue	000-255	Intensity 0 → 100%
		85		Backlight Pixel 17 Red	000-255	Intensity 0 → 100%
		86		Backlight Pixel 17 Green	000-255	Intensity 0 → 100%
		87		Backlight Pixel 17 Blue	000-255	Intensity 0 → 100%
		88		Backlight Pixel 18 Red	000-255	Intensity 0 → 100%

		89		Backlight Pixel 18 Green	000-255	Intensity 0 → 100%
		90		Backlight Pixel 18 Blue	000-255	Intensity 0 → 100%
		91		Backlight Pixel 19 Red	000-255	Intensity 0 → 100%
		92		Backlight Pixel 19 Green	000-255	Intensity 0 → 100%
		93		Backlight Pixel 19 Blue	000-255	Intensity 0 → 100%
		94		Backlight Pixel 20 Red	000-255	Intensity 0 → 100%
		95		Backlight Pixel 20 Green	000-255	Intensity 0 → 100%
		96		Backlight Pixel 20 Blue	000-255	Intensity 0 → 100%
		97		Backlight Pixel 21 Red	000-255	Intensity 0 → 100%
		98		Backlight Pixel 21 Green	000-255	Intensity 0 → 100%
		99		Backlight Pixel 21 Blue	000-255	Intensity 0 → 100%
		100		Backlight Pixel 22 Red	000-255	Intensity 0 → 100%
		101		Backlight Pixel 22 Green	000-255	Intensity 0 → 100%
		102		Backlight Pixel 22 Blue	000-255	Intensity 0 → 100%
		103		Backlight Pixel 23 Red	000-255	Intensity 0 → 100%
		104		Backlight Pixel 23 Green	000-255	Intensity 0 → 100%
		105		Backlight Pixel 23 Blue	000-255	Intensity 0 → 100%
		106		Backlight Pixel 24 Red	000-255	Intensity 0 → 100%
		107		Backlight Pixel 24 Green	000-255	Intensity 0 → 100%
		108		Backlight Pixel 24 Blue	000-255	Intensity 0 → 100%

Maintenance and Cleaning

The following points have to be considered during the inspection:

1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded. 2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing). 3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances. 4. The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

**CAUTION!**

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents. There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions". Should you need any spare parts, please order genuine parts from your local dealer