MT ONE
User Manual

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TECHNICAL PARAMETERS

Light source

Voltage: AC100-240V 50/60HZ

Light source power: Red, green, blue, lemon colored light source, 150W.

Total power: 200W

Auxiliary light source: 24 high brightness RGB color light beads.

Optical

Zoom: Electric zoom, 19-27 degrees.

The zoom channel has a continuous dynamic zoom pulse effect

Controls

Channel: 20CH/36CH/108CH/20aCH

Control mode: DMX512, self-propelled, voice controlled, master-slave, supports RDM operation.

Effect

Dimming: 16 bit linear 0-100% smooth dimming.

Construction

Level: 540 °

Vertical: 200 °

Weight&Dimension

Lamp size: 255 * 185 * 370MM
Net weight of lamp: 4.5KG

1. Safety instructions

information of this product.

- Please keep the instructions for future reference. If you sell it to other users, please make sure they have received this instruction manual as well.
- All equipment is complete from the manufacturer, please operate according to the instructions, because of non-compliance with the instructions caused damage is not covered by warranty.
- After opening the package, please check whether the product is damaged in the transportation process before use.
- This product is for indoor use only in dry conditions.
- It is recommended that the product be operated by a technician familiar with the product.
- Use a safety rope when installing. Do not lift the entire product through the lamp head.
- This product must be installed in a ventilated environment and at least 50cm above the surface.
- Make sure that no ventilation hole is blocked, resulting in high temperature during product operation.
- Before operation, ensure that the voltage and power frequency meet the product requirements.
- Yellow and green conductors must be grounded to avoid electric shock.
- The maximum temperature is TA: 40℃. Stop the operation when the ambient temperature exceeds the maximum temperature.
- Please do not connect this product to other dimmers.
- When used for the first time, it may smoke or have an unpleasant smell, which will disappear after a few minutes of running.

- Make sure there are no flammable materials around before use to avoid a fire!
- Please check the power cord carefully and replace it immediately if any damage is found.
- Avoid running for a long time to avoid shortening its service life. Avoid any flammable liquid, water, or metal objects entering the lamp.
- In case of accident, please cut off the power immediately.
- Please do not use in dirty or dusty environments and remember to clean the equipment regularly.
- Please avoid children touching or operating this equipment.
- Do not touch any wires during operation to avoid the risk of electric shock.
- Avoid wrapping power cords and other cables together.
- Do not connect the main power supply when replacing a fuse, bulb or repairing.
- When replacing the fuse, only the same model of fuse can be used.
- In case of serious operation failure, stop the operation immediately.
- Please do not turn this product on and off continuously.
- If there is obvious damage to the shell, lens or UV filter, replace it.
- Please do not open this product, this product does not contain user repair parts.
- Please do not repair this product without authorization. Non-technical personnel may damage or malfunction this product. If the product fails, please contact the authorized technical assistance center.
- If not used for a long time, do not immediately connect to the main power supply.

Menu Display and Function Description

	MenuLayer1	MenuLayer2		Description
1	Addr	1-512		
2	Set	Channel mode	20CH/36CH/108CH/20aCH/24CH	
		XY Opt Enable	On/Off	
		X INVERSE	On/Off	
		Y INVERSE	On/Off	
		Mic Sensitivity	1-99	
		Display Set	Language	Chinese /English
			Display INVERSE	On/Off
			Backlight setting	30S
		Default Factory	Yes/No	
		No Signal Hold	Yes/No	Default Settings:No
		Dimmer CURVE	Line	Default
			SQUARE LAW	

		INVERSE SQUARE LAW	
		S CURVE	
	Lee Mode	Mode1	Default
		Mode2	
3	Manual	Manual Control	Strobe...
			Aid Blue
		Reset	Yes/No
4	Moto Calibration		
5	Control Mode	Dmx	
		Auto	
		Sound	
6	information	Led Startup time	
		Fixture Startup time	
		Software version	
		RDM UID	
		Reset sensor information	
		Safe	
		Opt Info	

Dmx Channel Description：

Compact DMX Mode   20CH

Channel	DMX Value	Function	Default
1		**Strobe/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	0-65535	**Dimmer**	
3		Close->Open	
4	0-65535	**Red**	
5		Intensity 0 → 100%	
6	0-65535	**Green**	
7		Intensity 0 → 100%	

8	0-65535	**Blue**	
9		Intensity 0 → 100%	
10		**CTC**	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	…		
	255	12850K	
11		**Tint (Green Magenta Shift)**	
	0	Δuv - 0.05 (full shift towards magenta)	
	1-126	Δuv - 0.05 → Δuv 0.00	
	127-128	Δuv 0.00 (no shift - on black body curve)	
	129-254	Δuv 0.00 → Δuv + 0.05	
	255	Δuv + 0.05 (full shift towards green)	
12		**Virtual color wheel**	
	0-10	Close	
	11-106	LEE...	
	107-255	Close	
13		**Zoom**	
	0–51400	Narrow → wide	
14	51401–57825	Pulse forward fast → slow	
	57826–59110	Zoom stops at current position	
	59111–65535	Pulse backward slow → fast	
15		**Pan**	
16	0-65535	Left → right	
17		**Tilt**	
18	0-65535	Left → right	
19		**Fixture control / settings**	
	0–9	No Function	
	10–14	Reset fixture – 5 sec.	
	15–16	No function	
	17	Reset Beam only – 5 sec.	
	18	Reset pan and tilt only – 5 sec.	
	19–22	No function	
	23	Linear dimmer curve – 1 sec.	
	24	Square law dimmer curve (default) – 1 sec.	
	25	Inverse square law dimmer curve – 1 sec.	

Channel	DMX Value	Function	Default
	26	S-Curve dimmer curve – 1 sec.	
	27-255	No Function	
20		**LED PWM frequency**	
	0-255	No function	

Compact DMX Mode   36CH

Channel	DMX Value	Function	Default
1		**Strobe/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	0-65535	**Dimmer**	
3		Close->Open	
4	0-65535	**Red**	
5		Intensity 0 → 100%	
6	0-65535	**Green**	
7		Intensity 0 → 100%	
8	0-65535	**Blue**	
9		Intensity 0 → 100%	
10		**CTC**	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	…		
	255	12850K	
11		**Tint (Green Magenta Shift)**	
	0	Δuv - 0.05 (full shift towards magenta)	
	1-126	Δuv - 0.05 → Δuv 0.00	
	127-128	Δuv 0.00 (no shift - on black body curve)	
	129-254	Δuv 0.00 → Δuv + 0.05	
	255	Δuv + 0.05 (full shift towards green)	
12		**Virtual color wheel**	
	0-10	Close	
	11-106	LEE...	
	107-255	Close	

		Zoom	
13			
	0–51400	Narrow → wide	
14	51401–57825	Pulse forward fast → slow	
	57826–59110	Zoom stops at current position	
	59111–65535	Pulse backward slow → fast	
15		**Pan**	
16	0-65535	Left → right	
17		**Tilt**	
18	0-65535	Left → right	
19		**Fixture control / settings**	
	0–9	No Function	
	10–14	Reset fixture – 5 sec.	
	15–16	No function	
	17	Reset Beam only – 5 sec.	
	18	Reset pan and tilt only – 5 sec.	
	19–22	No function	
	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.	
	27-255	No Function	
20		**LED PWM frequency**	
	0-255	No function	
21	0-255	No Function	
22		**Aid Led Effect**	
	0-51	No Function	
	52-255	Aid Led Effect	
23		**Aid Led Effect Speed**	
	0–255	Aid Led Effect Speed(slow → fast)	
24		**No Function**	
	0-255	No Function	
25		**No Function**	
	0–255	No Function	
26		**No Function**	
	0–255	No Function	
27		**Backlight strobe/shutter**	
	0–19	Shutter closed	
	20–49	Shutter open	
	50–255	Strobe (slow → fast)	
28	0-65535	**Backlight Dimmer**	
29		Close->Open	

Channel	DMX Value	Function	Default
30	0-255	**Backlight Red**	
		Intensity 0 → 100%	
31	0-255	**Backlight Green**	
		Intensity 0 → 100%	
32	0-255	**Backlight Blue**	
		Intensity 0 → 100%	
33		**Backlight CTC**	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	…		
	255	12850K	
34		**BacklightTint (Green Magenta Shift)**	
	0	Δuv - 0.05 (full shift towards magenta)	
	1-126	Δuv - 0.05 → Δuv 0.00	
	127-128	Δuv 0.00 (no shift - on black body curve)	
	129-254	Δuv 0.00 → Δuv + 0.05	
	255	Δuv + 0.05 (full shift towards green)	
35		**BacklightVirtual color wheel**	
	0-10	Close	
	11-255	LEE...	
36		**No Function**	
	0–255	No Function	

Compact DMX Mode   108CH

Channel	DMX Value	Function	Default
1		**Strobe/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	0-65535	**Dimmer**	
3		Close->Open	
4	0-65535	**Red**	
5		Intensity 0 → 100%	

6	0-65535	**Green**	
7		Intensity 0 → 100%	
8	0-65535	**Blue**	
9		Intensity 0 → 100%	
10		**CTC**	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	…		
	255	12850K	
11		**Tint (Green Magenta Shift)**	
	0	Δuv - 0.05 (full shift towards magenta)	
	1-126	Δuv - 0.05 → Δuv 0.00	
	127-128	Δuv 0.00 (no shift - on black body curve)	
	129-254	Δuv 0.00 → Δuv + 0.05	
	255	Δuv + 0.05 (full shift towards green)	
12		**Virtual color wheel**	
	0-10	Close	
	11-106	LEE...	
	107-255	Close	
13		**Zoom**	
	0–51400	Narrow → wide	
14	51401–57825	Pulse forward fast → slow	
	57826–59110	Zoom stops at current position	
	59111–65535	Pulse backward slow → fast	
15		**Pan**	
16	0-65535	Left → right	
17		**Tilt**	
18	0-65535	Left → right	
19		**Fixture control / settings**	
	0–9	No Function	
	10–14	Reset fixture – 5 sec.	
	15–16	No function	
	17	Reset Beam only – 5 sec.	
	18	Reset pan and tilt only – 5 sec.	
	19–22	No function	
	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.	
	27-255	No Function	
20		**LED PWM frequency**	
	0-255	No function	
21	0-255	No Function	
22		**Aid Led Effect**	
	0-51	No Function	
	52-255	Aid Led Effect	
23		**Aid Led Effect Speed**	
	0–255	Aid Led Effect Speed(slow → fast)	
24		**No Function**	
	0-255	No Function	
25		**No Function**	
	0–255	No Function	
26		**No Function**	
	0–255	No Function	
27		**Backlight strobe/shutter**	
	0–19	Shutter closed	
	20–49	Shutter open	
	50–255	Strobe (slow → fast)	
28	0-65535	**Backlight Dimmer**	
29		Close->Open	
30	0-255	**Backlight Red**	
		Intensity 0 → 100%	
31	0-255	**Backlight Green**	
		Intensity 0 → 100%	
32	0-255	**Backlight Blue**	
		Intensity 0 → 100%	
33		**Backlight CTC**	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	…		
	255	12850K	
34		**BacklightTint (Green Magenta Shift)**	
	0	Δuv - 0.05 (full shift towards magenta)	

	1-126	Δuv - 0.05 → Δuv 0.00	
	127-128	Δuv 0.00 (no shift - on black body curve)	
	129-254	Δuv 0.00 → Δuv + 0.05	
	255	Δuv + 0.05 (full shift towards green)	
35		**BacklightVirtual color wheel**	
	0-10	Close	
	11-255	LEE...	
36		**No Function**	
	0–255	No Function	
37		**Backlight Pixel 1 Red**	
	0-255	0 → 100%	
38		**Backlight Pixel 1 Green**	
	0-255	0 → 100%	
39		**Backlight Pixel 1 Blue**	
	0–126	0 → 100%	
…	…	…	
106		**Backlight Pixel 24 Red**	
	0-255	0 → 100%	
107		**Backlight Pixel 24 Green**	
	0-255	0 → 100%	
108		**Backlight Pixel 24 Blue**	
	0–255	0 → 100%	

Compact Direct DMX Mode   20aCH

Channel	DMX Value	Function	Default
		Strobe/shutter	
1	0–19	Shutter closed	
	20–49	Shutter open	
	50–200	Strobe (slow → fast)	
	201–210	Shutter open	
	211–255	Random strobe (slow → fast)	
2	0-65535	**Dimmer**	
3		Close->Open	
4	0-65535	**Red**	
5		Intensity 0 → 100%	
6	0-65535	**Green**	
7		Intensity 0 → 100%	
8	0-65535	**Blue**	
9		Intensity 0 → 100%	
10	0-65535	**Lime**	
11		Intensity 0 → 100%	

		Virtual color wheel	
12	0-10	Close	
	11-106	LEE...	
	107-255	Close	
13		**Zoom**	
	0–51400	Narrow → wide	
14	51401–57825	Pulse forward fast → slow	
	57826–59110	Zoom stops at current position	
	59111–65535	Pulse backward slow → fast	
15		**Pan**	
16	0-65535	Left → right	0
17		**Tilt**	
18	0-65535	Left → right	0
19		**Fixture control / settings**	
	0–9	No Function	
	10–14	Reset fixture – 5 sec.	
	15–16	No function	
	17	Reset Beam only – 5 sec.	
	18	Reset pan and tilt only – 5 sec.	
	19–22	No function	
	23	Linear dimmer curve(default) – 1 sec.	
	24	Square law dimmer curve – 1 sec.	
	25	Inverse square law dimmer curve – 1 sec.	
	26	S-Curve dimmer curve – 1 sec.	
	27-255	No function	
20		**No function**	
	0-255	No function	

Custom DMX Mode   24CH

Channel	DMX Value	Function	Default
1		**Pan**	
2	0-65535	Left → right	0
3		**Tilt**	
4	0-65535	Left → right	0
5		**Pan/Tilt Speed**	
	0-255	Pan/Tilt Speed (fast →slow)	
6		**Strobe/shutter**	
	0–19	Shutter closed	
	20–49	Shutter open	
	50–200	Strobe (slow → fast)	

	201–210	Shutter open	
	211–255	Random strobe (slow → fast)	
7	0-255	**Dimmer**	
		Close->Open	
8	0-255	**Red**	
		Intensity 0 → 100%	
9	0-255	**Green**	
		Intensity 0 → 100%	
10	0-255	**Blue**	
		Intensity 0 → 100%	
11	0-255	**Lime**	
		Intensity 0 → 100%	
12		**Zoom**	
	0–51400	Narrow → wide	
13	51401–57825	Pulse forward fast → slow	
	57826–59110	Zoom stops at current position	
	59111–65535	Pulse backward slow → fast	
14		**CTC**	
	0-10	No Function	
	11-38	2000K	
	39		
	..		
	127	6450K	
	128	6500K	
	129	6550K	
	…		
	255	12850K	
15		**Tint (Green Magenta Shift)**	
	0	Δuv - 0.05 (full shift towards magenta)	
	1-126	Δuv - 0.05 → Δuv 0.00	
	127-128	Δuv 0.00 (no shift - on black body curve)	
	129-254	Δuv 0.00 → Δuv + 0.05	
	255	Δuv + 0.05 (full shift towards green)	
16		**Virtual color wheel**	
	0-10	Close	
	11-106	LEE...	
	107-255	Close	
17		**Backlight strobe/shutter**	
	0–19	Shutter closed	
	20–49	Shutter open	
	50–255	Strobe (slow → fast)	
18	0-255	**Backlight Dimmer**	
		Close->Open	

19	0-255	**Backlight Red**	
		Intensity 0 → 100%	
20	0-255	**Backlight Green**	
		Intensity 0 → 100%	
21	0-255	**Backlight Blue**	
		Intensity 0 → 100%	
22		**Aid Led Effect**	
	0-51	No Function	
	52-255	Aid Led Effect	
23		**Aid Led Effect Speed**	
	0–255	Aid Led Effect Speed(slow → fast)	
24		**Fixture control / settings**	
	0–9	No Function	
	10–14	Reset fixture – 5 sec.	
	15–16	No function	
	17	Reset Beam only – 5 sec.	
	18	Reset pan and tilt only – 5 sec.	
	19–22	No function	
	23	Linear dimmer curve(default) – 1 sec.	
	24	Square law dimmer curve – 1 sec.	
	25	Inverse square law dimmer curve – 1 sec.	
	26	S-Curve dimmer curve – 1 sec.	
	27-255	No function	

REMARK

The product has perfect performance and intergrity packing.

All users should be strictly comply with the warning and operating instructions as stated.

Or we aren 't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company 's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.