JUNIOR PR

JNR MINI MANTIS 7*40
JNR-8133

1 SAFETY INSTRUCTIONS

> ⚠ **CAUTION**
> Becareful with your operations.With a dangerous voltage you cansuffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

> ⚠ **IMPORTANT**
> Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

10 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 ope

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 weakneess 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.

			0-255	
26		Blue in Pixel 3	0-255	Blue in pixel 3 saturation control(0-100%)
27		White in Pixel 3	0-255	White in pixel 3 saturation control(0-100%)
28		Red in Pixel 4	0-255	Red in pixel 4 saturation control(0-100%)
29		Green in Pixel 4	0-255	Green in pixel 4 saturation control(0-100%)
30		Blue in Pixel 4	0-255	Blue in pixel 4 saturation control(0-100%)
31		White in Pixel 4	0-255	White in pixel 4 saturation control(0-100%)
32		Red in Pixel 5	0-255	Red in pixel 5 saturation control(0-100%)
33		Green in Pixel 5	0-255	Green in pixel 5 saturation control(0-100%)
34		Blue in Pixel 5	0-255	Blue in pixel 5 saturation control(0-100%)
35		White in Pixel 5	0-255	White in pixel 5 saturation control(0-100%)
36		Red in Pixel 6	0-255	Red in pixel 6 saturation control(0-100%)
37		Green in Pixel 6	0-255	Green in pixel 6 saturation control(0-100%)
38		Blue in Pixel 6	0-255	Blue in pixel 6 saturation control(0-100%)
39		White in Pixel 6	0-255	White in pixel 6 saturation control(0-100%)
40		Red in Pixel 7	0-255	Red in pixel 7 saturation control(0-100%)
41		Green in Pixel 7	0-255	Green in pixel 7 saturation control(0-100%)
42		Blue in Pixel 7	0-255	Blue in pixel 7 saturation control(0-100%)
43		White in Pixel 7	0-255	White in pixel 7 saturation control(0-100%)
44	20	14	0-19	No function
			20-29	No function
			30-39	No function
			40-79	No function
			80-89	All motor reset
			90-94	Scan motor reset
			95-99	Focus motor reset
			100-119	Internal program 1
			120-139	Internal program 2
			140-159	Internal program 3
			160-179	Internal program 4
			180-199	Internal program 5
			200-219	Internal program 6
			220-239	Internal program 7
			240-255	Internal sound program 1

2 UNPACKING

Thank you for choosing our JNR MINI MANTIS 7*40. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

The JNR MINI MANTIS 7*40 is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

The JNR MINI MANTIS 7*40 adopts 7PCS 4-IN-1 40W LEDs which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:

③

OPTIONAL

USA Standard   Euro Standard   UK Standard

②

①   ④

⑤   ⑥
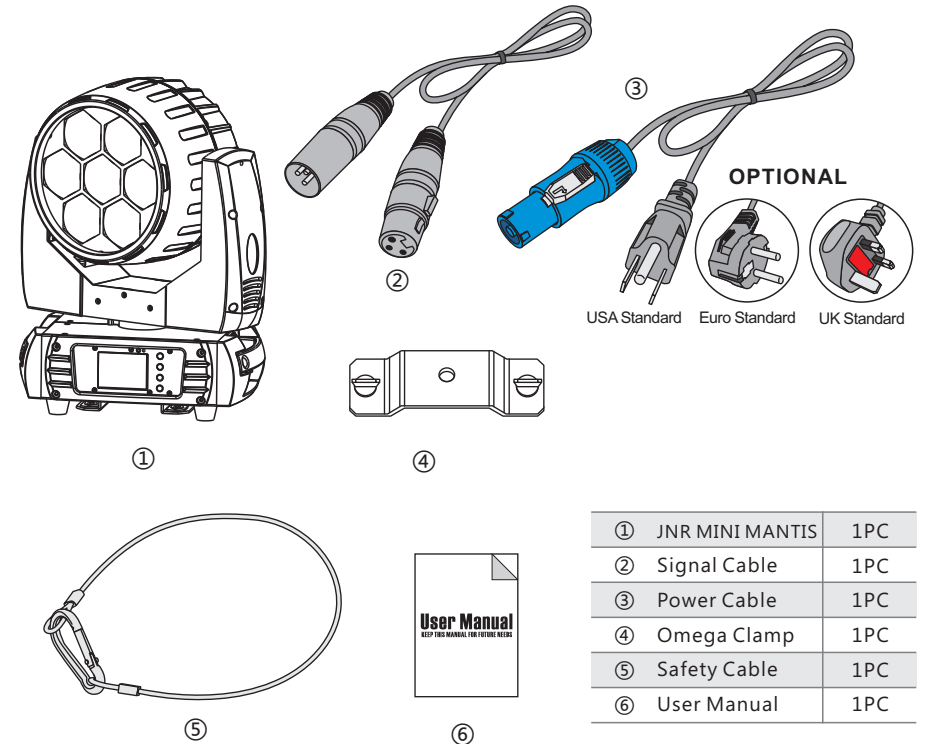
①	JNR MINI MANTIS	1PC
②	Signal Cable	1PC
③	Power Cable	1PC
④	Omega Clamp	1PC
⑤	Safety Cable	1PC
⑥	User Manual	1PC

3 FEATURES & SPECIFICATIONS

Features

- 7*40W 4-IN-1 OSRAM RGBW LEDs
- 50,000 hours lifespan and low power consumption
- Pixel mapping capability with each LEDs controllable individually
- Specific optic lens of highly efficient elements integrated with glass tube
- Fast, smooth and quiet motorized zoom with 8° -62°range
- Even, soft edge and pure color mixing coverage
- Flicker free sources management
- 8/16 Bit smooth, fast and precise PAN/TILT movement
- 630°/540°/360°PAN optional and 270°/180°/90°TILT optional
- PAN/TILT reversible advantage
- PAN/TILT calibration available
- Scan position memory, auto reposition after unexpected movement
- 0-100% Smooth linear LED dimmer
- 7 built-in default programs for easy operation
- 6 Kinds of pre-programmed macro effects with variable speed
- Variable speed strobe effect with 1-25 flashes per second
- Variable pusle and random effects
- 44/20/14 DMX channel modes（USITT DMX-512）
- DMX512, master-slave and sound activated controllable or auto operation
- Sound control with sensitivity adjustment
- 2. 4" TFT LCD display (320*240pix) with 4 control buttons
- LCD display switch-off automatically after 60 seconds
- 180°Reversible for LCD display
- DMX signal monitoring indicator available
- Lower noise and efficient FAN cooling system
- Efficient low noise self adjusting fan cooling system
- Constant temperature readout and management function
- Over heat protection management
- Powercon IN/OUT with power switch and fuse
- 3-Pin DMX connectors IN/OUT
- DB rating@1M=54. 18dB
- IP20 protection rating
- -35°C to 45°C ambient temperature
- 1*1/4 turn fastening Omega Clamps (Adaptable vertically and horizontally)
- 1*Safety attachment point
- CE (EMC/LVD) and RoHS certified

15	19		Static patterns (If channel 18 is in the interval 016-031)	32-39	Static scene 5
				40-47	Static scene 6
				48-55	Static scene 7
				56-63	Static scene 8
				64-71	Static scene 9
				72-79	Static scene 10
				80-87	Static scene 11
				88-95	Static scene 12
				96-103	Static scene 13
				104-111	Static scene 14
				112-119	Static scene 15
				120-127	Static scene 16
				128-135	Static scene 17
				136-143	Static scene 18
				144-151	Static scene 19
				152-159	Static scene 20
				160-167	Static scene 21
				168-175	Static scene 22
				176-183	Static scene 23
				184-191	Static scene 24
				192-199	Static scene 25
				200-207	Static scene 26
				208-215	Static scene 27
				216-223	Static scene 28
				224-231	Static scene 29
				232-239	Static scene 30
				240-247	Static scene 31
				248-255	Static scene 32
			Dynamic Patterns (If channel 18 is in the internal 032-255)	0-23	No function
				24-137	Forward speed from zero speed to fast speed
				138-141	Stop movement
				142-255	Reverse speed from zero speed to fast speed
16			Red in Pixel 1	0-255	Red in pixel 1 saturation control(0-100%)
17			Green in Pixel 1	0-255	Green in pixel 1 saturation control(0-100%)
18			Blue in Pixel 1	0-255	Blue in pixel 1 saturation control(0-100%)
19			White in Pixel 1	0-255	White in pixel 1 saturation control(0-100%)
20			Red in Pixel 2	0-255	Red in pixel 2 saturation control(0-100%)
21			Green in Pixel 2	0-255	Green in pixel 2 saturation control(0-100%)
22			Blue in Pixel 2	0-255	Blue in pixel 2 saturation control(0-100%)
23			White in Pixel 2	0-255	White in pixel 2 saturation control(0-100%)
24			Red in Pixel 3	0-255	Red in pixel 3 saturation control(0-100%)
25			Green in Pixel 3	0-255	Green in pixel 3 saturation control(0-100%)

			226-240	Gradual nuance from full white 3200k to white 4200k
			241-255	Gradual nuance from full white 4200k to white 5600k
13	17	Background dimmer	0-255	Background dimmer0-100%
14	18	Patterns	0-15	No function
			16-31	Static patterns
			32-38	Dynamic scene 1
			39-45	Dynamic scene 2
			46-52	Dynamic scene 3
			53-59	Dynamic scene 4
			60-66	Dynamic scene 5
			67-73	Dynamic scene 6
			74-80	Dynamic scene 7
			81-87	Dynamic scene 8
			88-94	Dynamic scene 9
			95-101	Dynamic scene 10
			102-108	Dynamic scene 11
			109-115	Dynamic scene 12
			116-122	Dynamic scene 13
			123-129	Dynamic scene 14
			130-136	Dynamic scene 15
			137-143	Dynamic scene 16
			144-150	Dynamic scene 17
			151-157	Dynamic scene 18
			158-164	Dynamic scene 19
			165-171	Dynamic scene 20
			172-178	Dynamic scene 21
			179-185	Dynamic scene 22
			186-192	Dynamic scene 23
			193-199	Dynamic scene 24
			200-206	Dynamic scene 25
			207-213	Dynamic scene 26
			214-220	Dynamic scene 27
			221-227	Dynamic scene 28
			228-234	Dynamic scene 29
			235-241	Dynamic scene 30
			242-248	Dynamic scene 31
			249-255	Dynamic scene 32
15	19	Static patterns or patterns speed	0-7	Static scene 1
			8-15	Static scene 2
			16-23	Static scene 3
			24-31	Static scene 4

Specifications

Input Voltage: AC90-260V 50/60Hz
LED Quantities: 7*40W 4-IN-1 LED(RGBW)LEDs
Control Signal: DMX512,master-slave and sound activated or auto operation
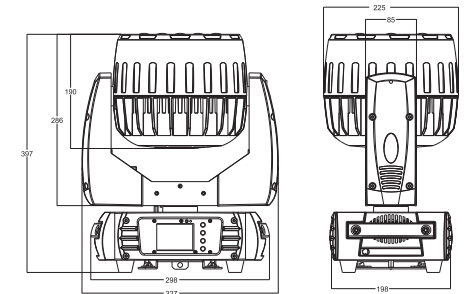Control Channel: 44/20/14 DMX Channels USITT DMX-512
Power Consumption: 345W
Dimensions: 327(D)*198(W)*397(H)mm
Packing Dimensions: 410(D)*305(W)*473(H)mm
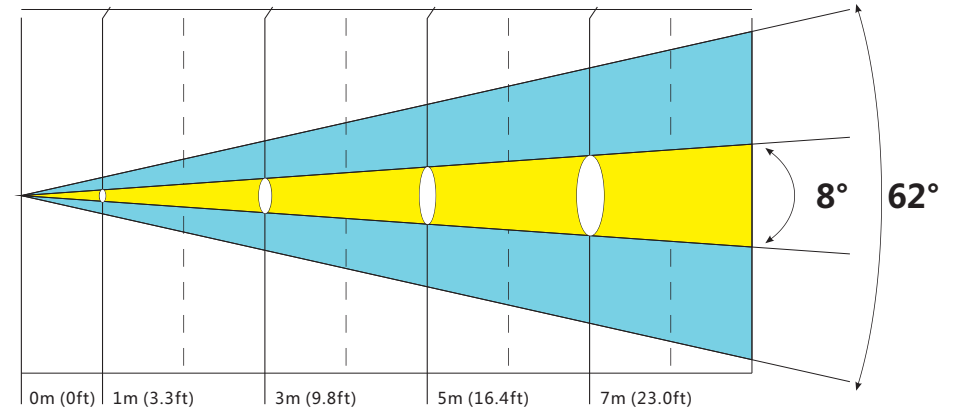Net Weight: 9.2kg
Gross Weight: 12kg

4 PHOTOMETRIC DATA

▶ Photometric Beam Angle Data   8°~62°Beam Angle LUX × 0.0929=FC

R	2641 / 28435 485 / 5220	400 / 4281 75 / 805	160 / 1727 22 / 233	18 / 198 14 / 148	
G	1953 / 21021 361 / 3884	280 / 3300 50 / 536	114 / 1232 18 / 196	523 / 480 9 / 96	
B	3796 / 40865 782 / 8415	600 / 6387 103 / 1113	220 / 2365 36 / 385	100 / 1065 19 / 201	
W	3474 / 37400 746 / 8030	560 / 6031 94 / 1013	203 / 2183 33 / 352	94 / 1012 11 / 118	
RGBW	11343 / 122100 2231 / 24013	1770 / 19052 270 / 3000	680 / 7315 114 / 1221	348 / 3751 62 / 663	(8°) (62°) (FC/LUX)

8°   62°

0m (0ft)   1m (3.3ft)   3m (9.8ft)   5m (16.4ft)   7m (23.0ft)

5 OPERATION INSTRUCTIONS

· The JNR MINI MANTIS 7*40 is for wash effect for on-site decoration purpose.
· Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
· This light should be keep away from strong shaking during any transportation or movement.
· Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
· Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
· Make sure the installation place is in good safety condition before installing the fixture.
· Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
· Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
· Make sure the fixture is operated by qualified personnel who knows the fixture before using.
· Keep the original packages if any second shipment is needed.
· Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
· It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

6 INSTALLATIONS

Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

				226-240	Gradual nuance from full white 3200k to white 4200k
				241-255	Gradual nuance from full white 4200k to white 5600k
10	14		Foreground color for patterns	0-0	No function
				1-13	Red
				14-27	Green
				28-41	Blue
				42-55	White
				56-69	Red+White
				70-83	Green+White
				84-97	Blue+White
				98-111	Green+Blue
				112-125	Red+Blue
				126-139	Red+Green
				140-153	Green+Blue + White
				154-167	Red+Blue+white
				168-181	Red + Green + Blue
				182-195	Red + Green + Blue + White
				196-225	Gradual nuance from full white to white 3200k
				226-240	Gradual nuance from full white 3200k to white 4200k
				241-255	Gradual nuance from full white 4200k to white 5600k
11	15		Foreground dimmer	0-255	Foreground dimmer0-100%
12	16	11	Background color for patterns	0-0	No function
				1-13	Red
				14-27	Green
				28-41	Blue
				42-55	White
				56-69	Red+White
				70-83	Green+White
				84-97	Blue+White
				98-111	Green+Blue
				112-125	Red+Blue
				126-139	Red+Green
				140-153	Green+Blue + White
				154-167	Red+Blue+white
				168-181	Red + Green + Blue
				182-195	Red + Green + Blue + White
				196-225	Gradual nuance from full white to white 3200k

9 DMX CHANNELS

Mode/Channel			Function	Values	Description
44	20	14			
1	1	1	PAN	0-255	PAN movement
2	2	2	PAN-fine	0-255	Fine control of PAN movement
3	3	3	TILT	0-255	TILT movement
4	4	4	TILT-fine	0-225	Fine control of TILT movement
5	5	5	Speed PAN/TILT	0-225	Max to min speed
				226-235	Blackout by movement
				236-255	No function
6	6	6	Dimmer	0-255	Dimmer 0%...100%
7	7	7	Shutter	0-31	Shutter closed
				32-63	Shutter open
				64-95	Strobe effect slow to fast
				96-127	Shutter open
				128-159	Pulse-effect in sequences slow to fast
				160-191	Shutter open
				192-255	Shutter open
	8	8	Red	0-255	0-100%Red dimmer from dark to bright
	9	9	Green	0-255	0-100%Green dimmer from dark to bright
	10	10	Blue	0-255	0-100%Blue dimmer from dark to bright
	11	11	White	0-255	0-100%White dimmer from dark to bright
8	12	12	Zoom	0-225	In(near)to out (far)
9	13	13	Virtual color	0-0	No function
				1-13	Red
				14-27	Green
				28-41	Blue
				42-55	White
				56-69	Red+White
				70-83	Green+White
				84-97	Blue+White
				98-111	Green+Blue
				112-125	Red+Blue
				126-139	Red+Green
				140-153	Green+Blue + White
				154-167	Red+Blue+white
				168-181	Red + Green + Blue
				182-195	Red + Green + Blue + White
				196-225	Gradual nuance from full white to white 3200k

Never stand directly below the device when mounting, removing, or servicing the fixture.

from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points: Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp mounting: The JNR MINI MANTIS 7*40 provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.

① Omega Bracket
② Satety Clamp
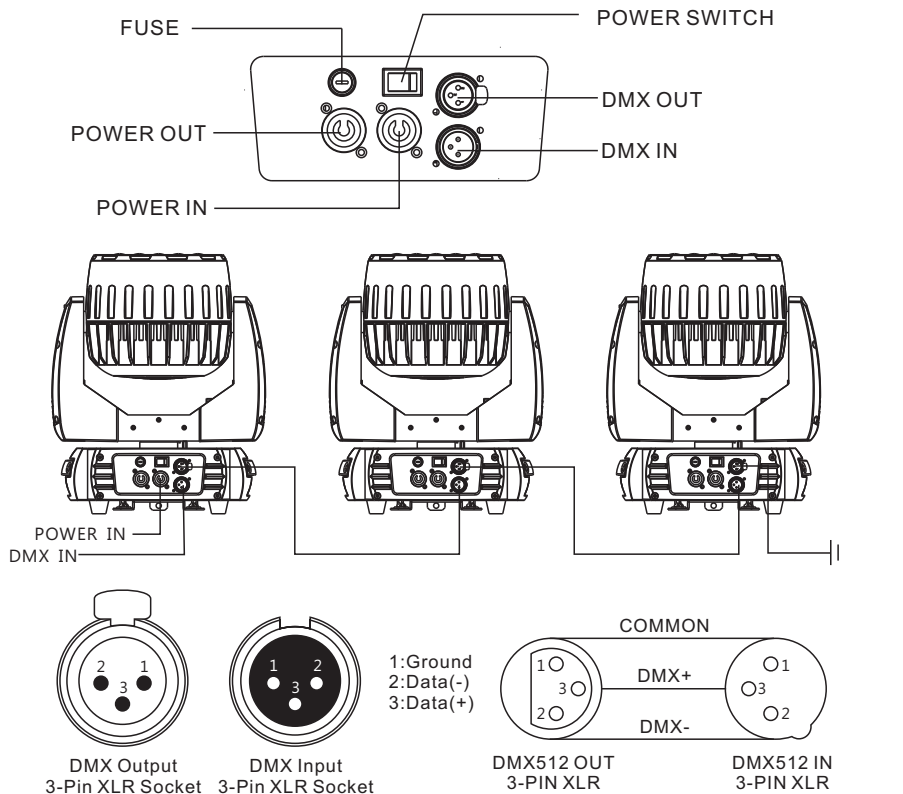③ Safety Cable
④ 1/4 Turn Quick-Lock Fasteners
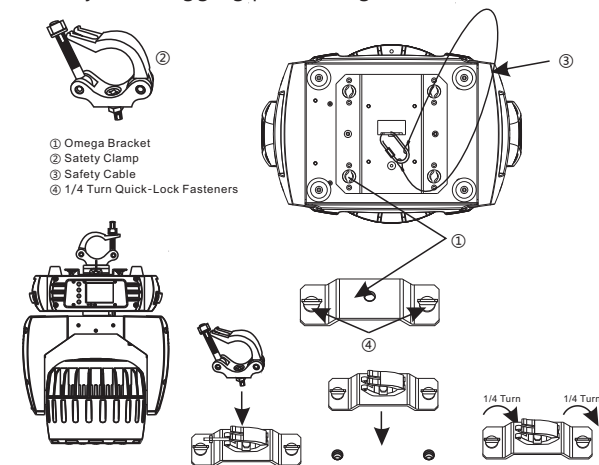
Regardless of the rigging option you choose for your JNR MINI MANTIS 7*40, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

7 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple

Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator

FUSE
POWER SWITCH
DMX OUT
POWER OUT
DMX IN
POWER IN

POWER IN
DMX IN

DMX Output
3-Pin XLR Socket

DMX Input
3-Pin XLR Socket

1:Ground
2:Data(-)
3:Data(+)

COMMON
DMX+
DMX-

DMX512 OUT
3-PIN XLR

DMX512 IN
3-PIN XLR

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

120 Ω

PIN3
PIN2
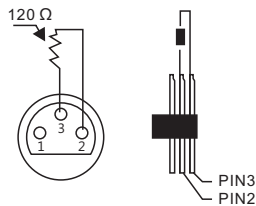
8 MENU OPERATIONS

MENU					
Function Mode	Dmx address	A001-AXXX		DMX address setting
	Channel mode	CH44		44 channel mode
		Ch20		20 channel mode
		CH14		14 channel mode
	Auto run	Internal program 1~8	Master/Alone	Alone mode
	Music control	Internal program 1~8	Master/Alone	Sound mode
Option	Reset default	Yes/No		Over loading factory all parameters
	Signal set	Wire DMX		Wire DMX input
		Wireless DMX		Wireless DMX input
		Act WDMX & Out		Wireless DMX input, wire DMX output signal at the same time
	PAN/TILT	Reverse PAN (On/Off)		PAN scan reverse
		Reverse TILT (On/Off)		TILT scan reverse
		Select PAN 630°/540° /360°		PAN angle select
		Select TILT 270°/180°/90°		TILT angle select
	UI SET	Mic sensitivity 0~99%		Mic sensitivity setting
		OFF signal mode (On/Off)		No DMX signal,keep the original State(No)reset state
Information	Temperature	XXX°C/°F		Current temperature
	Software version	V1.0~v9.9		Software version
Manual Control	Reset	Total reset		Reset all
		PAN/TILT reset		PAN/TILT reset
		Zoom reset		Zoom reset
	Channel	PAN=XXX……		Channel value control
ADVANCED (Access Code 088)	Calibration	PAN=XXX……		Calibration function

Tip：Press UP& DOWN buttons at same time，hold on 3 seconds，Display rotating

LED Display
Signal Lamp
Mic
Func
Up
Down
Enter