

LED 150W Spot Moving Head



CE F IP20 LED $\lambda = 0.2\text{mm}$ $t_a: 40^\circ\text{C}$ $t_s: 150^\circ\text{C}$

User Manual

1**SAFETY INSTRUCTIONS / 安全守则****CAUTION**

Be careful with your operations. With a dangerous voltage you can suffer 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 or smell may arise. This is a normal process and does not necessary 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

感谢您使用本公司生产的 LED 灯,为了确保对本产品进行正确、安全的安装、使用和维护,必须阅读本说明书,遵照本说明书的内容进行操作;对因未按照本说明书要求进行安装、使用和维护而导致的灯具损坏,财产损失或人身伤害,本公司不承担任何责任。

请将此说明书妥善保管,以备不时之需。

一、安全提示

为确保您的安全和正确的使用灯具。请在使用前,仔细阅读以下安全提示,以免出现不必要的故障和伤害。

- 1,非专业人员,切勿擅自拆卸灯具和灯具内配件。
- 2,不要将光束照射在易燃物品上,灯具与易燃物之间应保持在至少 1M 以上的距离。
- 3,灯具使用的环境温度: -15°C - 40°C , 灯具表面最高温度 40°C 。

- 4, 灯具要远离液体物质和潮湿环境。
- 5, 使用灯具之前一定要确保灯具接地良好，不可带电安装和拆卸灯具任何部件。
- 6, 安装灯具时，固定螺丝一定要紧固，并配加安全索，并定时检查。
- 7, 灯具连续工作时间建议不要超过 24 小时。
- 8, 使用过程中，如灯具出现异常应及时停止使用该灯具。

2 UNPACKING / 开包装

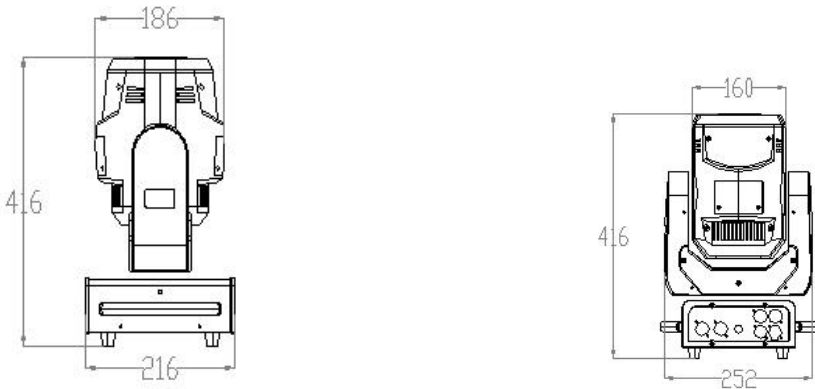
Thank you for choosing our LED 150W moving head light. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

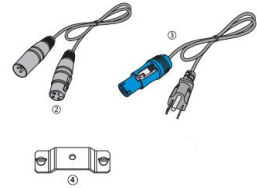
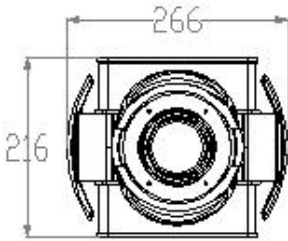
The LED 150W is made of a new type of high temperature strength of engineering plastic and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

The 150W Moving head light 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:

感谢您选择我们的 LED 150W 摇头灯。为了您自己的安全，请在安装设备之前阅读本手册。本手册涵盖了有关安装和应用程序的重要信息。请按照以下说明安装和操作灯具。同时，请妥善保管本手册，以备将来使用。

LED 150W 由新型的耐高温工程塑料和铸铝外壳制成，外观美观。灯具的设计和制造严格遵循 CE 标准，符合国际标准 DMX512 协议。它具有独立控制的功能，并且可以相互连接以进行操作。它适用于大型现场表演，剧院，工作室，夜总会和迪斯科舞厅。150W 摇头灯具有高亮度和稳定性。收到固定装置时，请仔细拆开包装，并在运输过程中检查其是否损坏。并且请检查包装盒内是否包含以下物品：





①	Moving Head	1PC
②	Signal Cable	1PC
③	Power Cable	1PC
④	Omega Clamp	1PC
⑤	User Manual	1PC

3 OPERATION INSTRUCTIONS / 使用说明

The moving head is for spot 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 electronics 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 know the fixture before using.

Keep the original packages if any second shipments 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.

摇头用于现场装饰，渲染现场效果 ·

请勿在运输途中经历过严重的温度差时打开灯具，因为它可能会因环境变化而损坏光。因此，请确保在正常温度下操作灯具。

在任何运输或移动过程中，应避免强烈摇晃。

·不要仅靠头部拉起灯光，否则可能会损坏机械零件。

·安装时，请勿将其暴露于过热，潮湿或多尘的环境中。请勿在地板上铺设任何电源线。否则可能会引起电子震荡。 ·在安装灯具之前，请确保安装位置处于良好的安全状态。 ·安装灯具时，请务必放好安全绳并检查螺钉是否拧紧。

·确保镜头状况良好。如果有任何损坏或严重刮伤，建议更换单元。

·使用前，请确保由熟悉灯具的合格人员操作灯具。

·如果需要再次装运，请保留原包装。

·在没有制造商或指定维修机构的任何指示的情况下，请勿尝试更换灯具。

·由于触电短路，触电，灯泡破裂等故障而导致的故障或不遵守用户手册的操作将不在保修范围内。

3 functional parameters / 功能参数

Input voltage: AC100-240V 50-60HZ

Light source: 150W high output white light LED

Service life: 50,000 hours service life, low power consumption

Beam angle: 15° beam angle, focusing function

Lumens: LUX8720 @ 5M under white light

Color: 7 colors + white, color fine-tuning, direction and speed variable

Fixed Gobos: 9 fixed patterns + white light, rotation and jitter

Rotating Gobos: 6 rotating patterns + white light, rotating and shaking

Prism: 3-sided prism, variable speed bidirectional rotation

Strobe: high-speed strobe effect, 1-25 flashes per second

Channel: 14/16 DMX channel

Control mode: DMX 512, master-slave control and sound system and automatic operation

Display mode: color liquid crystal display

Temperature protection function, when the internal temperature reaches 40°C, the fan starts to work, when the internal temperature reaches 70°C and the brightness is reduced by half.

High efficiency and low noise fan cooling system

Power input/output 3-pin XLR connector IN/OUT

输入电压：AC100-240V 50-60HZ

光源：150W 高输出白光 LED

使用寿命：50,000 小时使用寿命，低功耗

光束角：15° 光束角，聚焦功能

流明：LUX8720 @ 5M 在白光下

颜色：7 色+白色，颜色微调，方向和速度可变

固定图案：9 个固定图案+白光，旋转和抖动

旋转图案：6 个旋转图案+白光，旋转并抖动

棱镜：3 面棱镜，变速双向旋转

频闪：高速频闪效果，每秒 1-25 次闪烁

通道：14/16 DMX 频道

控制模式：DMX 512，主从控制和声制和自动运行

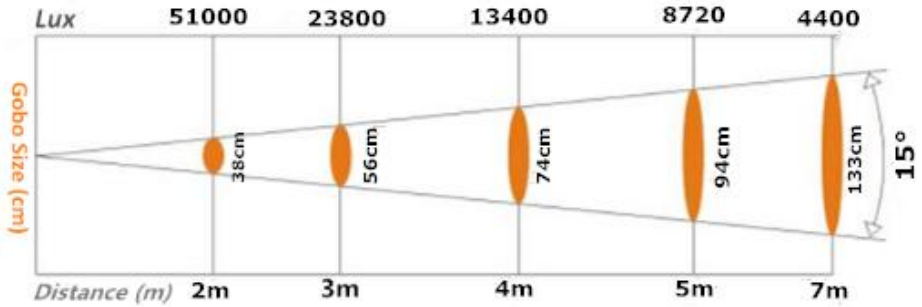
显示方式：彩色液晶显示

温度保护功能，当内部温度达到 40°C 时，风扇开始工作，当内部温度达到 70°C 且亮度降低一半时。

高效低噪音风扇冷却系统

电源输入/输出 3 针 XLR 连接器 IN / OUT

4 PHOTOMETRIC DATA / 光学



5 INSTALLATIONS / 安装

installations Note: In order to increase protection, please install the lamp on the sidewalk, outside the seating area, or an area where unauthorized persons may touch the lamp. Before installing the fixture on any surface, make sure that the installation area can bear the minimum point load above 10

points of the weight of the equipment. The installation of the fixing device must always be fixed with auxiliary safety accessories (such as a suitable safety rope)

Do not stand directly under the equipment when installing, removing, or servicing fixtures

From the ceiling or set on a flat surface (see the picture below). Ensure that this fixture is kept at least 0.5m (1.5 feet) away from any flammable materials (decorations, etc.)

Be sure to use and install the supplied safety rope to ensure safety and prevent accidental damage and/or injury in case the fixture is damaged

Installation point: Overhead installation requires a wealth of experience, including calculation of working load limits, in-depth understanding of the installation materials used, and regular safety inspections of all installation materials and fixtures. If you do not have these qualifications, please do not try to install it yourself. Improper installation can cause personal injury

Before connecting the main power cord to an appropriate wall outlet, make sure to complete all assembly and installation procedures

Lamp installation: LED shaking head provides a unique mounting bracket assembly, which integrates the bottom of the base and the fixing point of the safety cable into one unit (see the figure below). When installing the fixture to the truss, make sure to use the appropriate tools to fix it on the attached bracket, and use the M10 screw that passes through the center hole of

the "bracket" to fix it. As an additional safety measure, make sure to use at least one safety cable integrated in the base assembly to connect at least one appropriately rated safety cable to the fixture.

注意：为了增加保护，请将灯具安装在人行道，座位区以外的地方，或未经授权的人员可能接触灯具的区域。

在将固定装置安装到任何表面上之前，请确保安装区域可承受设备重量的 10 点以上的最小点载荷。

固定装置的安装必须始终使用辅助安全附件（例如适当的安全绳）进行固定。

安装，拆卸或维修固定装置时，切勿站在设备正下方。

从天花板上或设置在平坦的表面上（请参见下图）。确保此固定装置与任何易燃材料（装饰等）保持至少 0.5m（1.5 英尺）的距离。

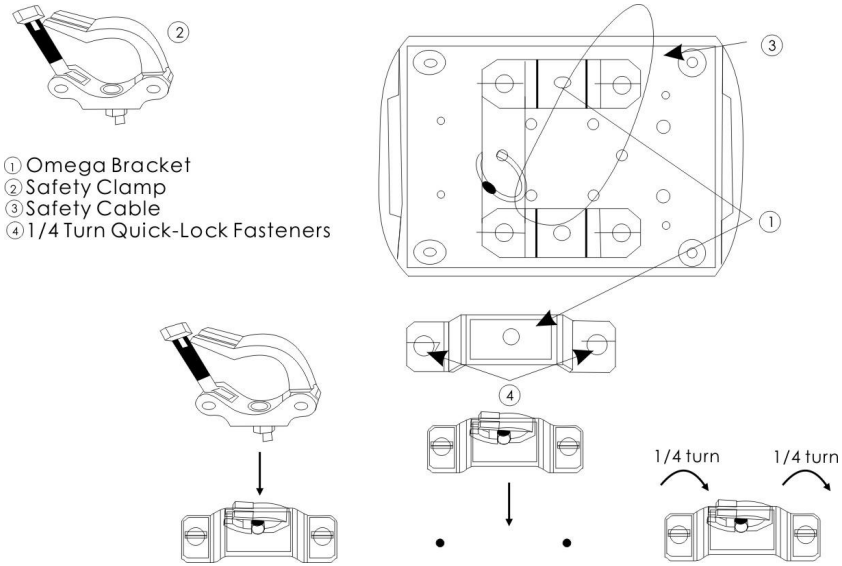
请务必使用并安装随附的安全绳，以确保安全，以防止万一夹具损坏而造成意外损坏和/或伤害。

安装点：架空安装需要丰富的经验，其中包括计算工作负载极限，对所用安装材料的深入了解以及对所有安装材料和固定装置的定期安全检查。如果您没有这些资格，请不要尝试自己进行安装。安装不当会导致人身伤害。

将主电源线连接到适当的壁装电源插座之前，请确保完成所有装配和安装过程。

灯具安装：LED 摇头提供了独特的安装支架组件，该组件将底座的底部和安全电缆的固定点集成在一个单元中（请参见下图）。

当将该固定装置安装到桁架上时，请确保使用适当的工具 将其固定在随附的支架上，并使用穿过“支架”中心孔的 M10 螺钉进行固定。作为一项附加的安全措施，请确保使用集成在基础组件中的安全索架上的至少一根，将至少一根适当额定的安全缆线连接到固定装置。



Regardless of the rigging option you choose for your LED moving head, 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.

无论您为 LED 摇头选择哪种安装方式，请始终确保使用安全电缆固定灯具。固定装置为吊架上的安全电缆提供了一个内置的固定点，如上所述。确保仅使用安全索的指定固定点，切勿将安全索固定在提手上。

6

DMX-512 CONNECTIONS / MDX512 连接

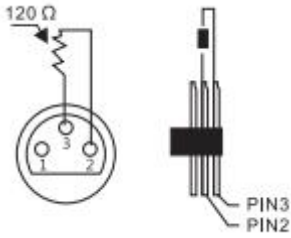
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

将提供的 XLR 电缆连接到控制器的 3 针 XLR 母头输出，另一端连接到摇头的 3 针 XLR 母头输入。您可以通过串行链接将多个摇头链接在一起。所需的电缆应该是带有 XLR 输入和输出连接器的两芯屏蔽电缆。请参考下图。

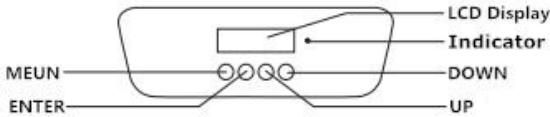


For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR 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.

对于 DMX 电缆必须长距离运行或在嘈杂的电气环境中（例如在迪斯科舞厅中）的安装，建议使用 DMX 终结器。这有助于防止电噪声损坏数字控制信号。DMX 终结器只是一个 XLR 插头，在引脚 2 和 3 之间连接了一个 120 Ω 电阻，然后将其插入链中最后一个灯具的输出 XLR 插座。请参见下面的插图。

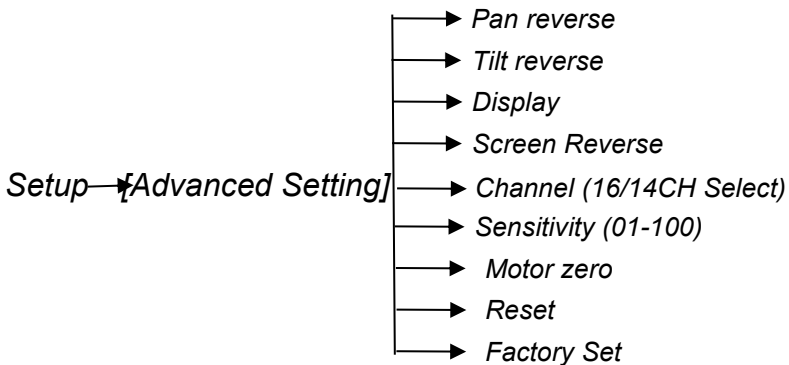
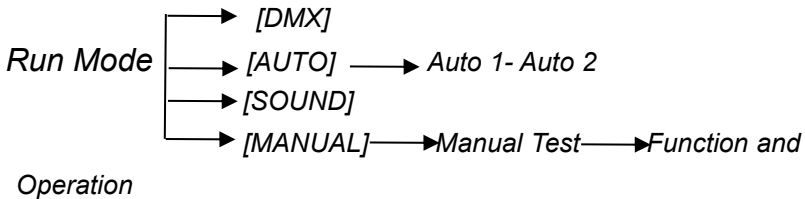


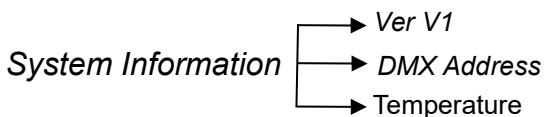
7 MENU OPERATIONS / 菜单操作



MENU / 菜单

Address Set → *[Set Address Numbers]*





8 DMX CHANNELS / 通道

14/16 channel mode / 通道表

14CH	16CH	Function	Channel Value	Description
CH1	CH1	Pan	0-255	0-540°
	CH2	Pan fine	0-255	Pan Fine
CH2	CH3	Tilt	0-255	0-270°
	CH4	Tilt Fine	0-255	Tilt Fine
CH3	CH5	X, Y speed	0-255	From fast to slow
CH4	CH6	Dimmer	0-255	From dark to bright
CH5	CH7	Strobe	0-7	Turn on
			8-250	Strobe from slow to fast
			251-255	Turn on
CH6	CH8	color	0-15	White Lighting
			16-31	Color 1
			32-47	Color 2
			48-63	Color 3
			64-79	Color 4
			80-95	Color 5
			96-111	Color 6

			112-127	Color 7
			128-191	CW from slow to fast
			192-255	CCW from slow to fast
CH7	CH9	Color effect	0-10	No function
			11-209	Color fine tuning
			210-255	Color shake from fast to slow
CH8	CH10	Static Gobos	0-5	Open
			6-11	Gobo1
			12-17	Gobo2
			18-23	Gobo3
			24-29	Gobo4
			30-35	Gobo5
			36-41	Gobo6
			42-47	Gobo7
			48-53	Gobo8
			54-59	Gobo9
			60-65	Gobo9shake
			66-71	Gobo8 shake
			72-77	Gobo7 shake
			78-83	Gobo6 shake
			84-89	Gobo5 shake
			90-95	Gobo4 shake
			96-101	Gobo3 shake
			102-107	Gobo2 shake
			108-113	Gobo1 shake
			114-119	Open
120-187	CW from slow to fast			
188-255	CCW from slow to fast			
CH9	CH11	rotation gobos	0-15	open
			16-31	Gobo1

			32-47	Gobo2
			48-63	Gobo3
			64-79	Gobo4
			80-95	Gobo5
			96-127	Gobo6
			128-191	Gobo Rotate CW slow to fast
			192-255	Gobo Rotate CCW slow to fast
CH10	CH12	Gobo Rotation	0-15	open
			16-95	Gobo Fine 0-180
			96-135	Gobo Rotating 0-90
			136-155	Gobo Rotating 0-180
			156-175	Gobo Rotating 0-360
			176-215	Gobo self-rotating CW from slow to fast
			216-255	Gobo self-rotating CCW rotating from slow to fast
CH11	CH13	Focus	0-255	Gobo hazy to clear
CH12	CH14	Prism	0-63	Open
			64-255	Prism In
CH13	CH15	Prism Rotation	0-15	Stop
			16-135	Rotate CW slow > fast
			136-255	Rotate CCW slow > fast
CH14	CH16	self-setting Program	0-7	No action
			8-131	Auto mode
			132-249	Sound mode
			250-253	Reset
			254-255	No function

14CH	16CH	功能	通道数值	运作细节描述
CH1	CH1	X 轴	0-255	X 轴 0-540° 运转
	CH2	X 轴微调	0-255	X 轴微调运行
CH2	CH3	Y 轴	0-255	Y 轴 0-270° 运转
	CH4	Y 轴微调	0-255	Y 轴微调运行
CH3	CH5	X. Y 轴速度调节	0-255	X. Y 速度调节从快到慢
CH4	CH6	总调光	0-255	调光从暗到亮
CH5	CH7	频闪	0-7	打开
			8-250	频闪调节从慢到快
			251-255	打开
CH6	CH8	颜色	0-15	白光
			16-31	颜色 1
			32-47	颜色 2
			48-63	颜色 3
			64-79	颜色 4
			80-95	颜色 5
			96-111	颜色 6
			112-127	颜色 7
			128-191	颜色从顺时针方向旋转，由慢到快
			192-255	颜色从逆时针方向旋转，由慢到快
CH7	CH9	颜色效果	0-10	无功能
			11-209	颜色微调
			210-255	颜色抖动由快到慢

CH8	CH10	固定图案	0-5	打开
			6-11	图案 1
			12-17	图案 2
			18-23	图案 3
			24-29	图案 4
			30-35	图案 5
			36-41	图案 6
			42-47	图案 7
			48-53	图案 8
			54-59	图案 9
			60-65	图案 9 抖动由慢到快
			66-71	图案 8 抖动由慢到快
			72-77	图案 7 抖动由慢到快
			78-83	图案 6 抖动由慢到快
			84-89	图案 5 抖动由慢到快
			90-95	图案 4 抖动由慢到快
			96-101	图案 3 抖动由慢到快
			102-107	图案 2 抖动由慢到快
			108-113	图案 1 抖动由慢到快
			114-119	打开
136-199	图案流水从顺时针方向旋转，由慢到快			
200-255	图案从逆时针方向旋转，由慢到快			
CH19	CH11		0-15	旋转图案盘打开
			16-31	图案 1
			32-47	图案 2
			48-63	图案 3
			64-79	图案 4

		旋转图案	80-95	图案 5
			96-127	图案 6
			128-191	图案流水从顺时针方向旋转，由慢到快
			192-255	图案流水从逆时针方向旋转，由慢到快
CH10	CH12	旋转图案转	0-15	打开
			16-95	图案调节 0-180°
			96-135	图案旋转 0-90°
			136-155	图案旋转 0-180°
			156-175	图案旋转 0-360°
			176-215	图案自转从顺时针方向转动，由慢到快
		216-255	图案自转从逆时针方向转动，由慢到快	
CH11	CH13	调焦	0-255	图案从模糊到清晰
CH12	CH14	棱镜	0-63	无反应
			64-255	棱镜打开
CH13	CH15	棱镜转	0-15	无反应
			16-135	棱镜从顺时针方向旋转，由慢到快
			136-255	棱镜从逆时针方向旋转，由慢到快
CH14	CH16	自走程序	0-7	无反应
			8-131	自走模式运行
			132-249	声控模式运行
			250-253	复位
			253-255	无功能运行

9 MAINTENANCE AND CLEANING / 清洁保养

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 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.

检查期间必须考虑以下几点：

- 1) 所有用于安装设备或设备部件的螺钉必须拧紧，并且不得被腐蚀。
- 2) 外壳，彩色镜头，固定装置和安装不得有任何变形 点（天花板，悬架，桁架）。
- 3) 机械运动的零件不得有任何磨损痕迹，并且不得随 不平衡。
- 4) 电源电缆不得有任何损坏，材料疲劳或沉淀。 根据安装地点和用途的进一步说明必须由熟练的安装人员遵守，并且必须消除任何安全问题。

为了使灯保持良好状态并延长使用寿命，我们建议定期清洁灯。

1) 每周清洁一次内部和外部镜头，以免由于灰尘积聚而导致光线不足。

2) 每周清洁风扇。

3) 每三个月由经过认可的电气工程师进行详细的电气检查，确保电路触点状况良好，防止电路触点不良而导致过热。我们建议您经常清洁设备。请使用潮湿的无绒布。切勿使用酒精溶剂。设备内部没有可维修的部件。请参阅“安装说明”下的说明。如果您需要任何备件，请从当地经销商订购原装零件。

