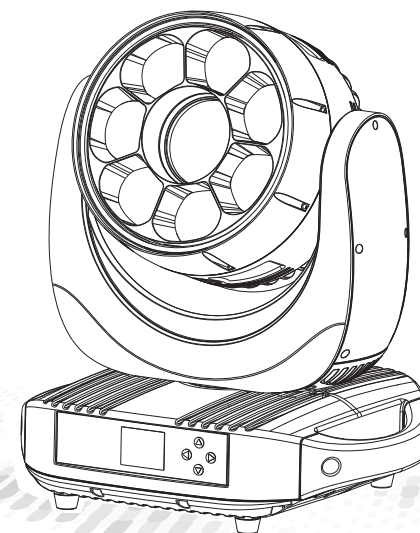


PIXEL (52CH)	VALUE	FUNCTION
CH.34	0-255	GREEN3
CH.35	0-255	BLUE3
CH.36	0-255	White3
CH.37	0-255	RED4
CH.38	0-255	GREEN4
CH.39	0-255	BLUE4
CH.40	0-255	White4
CH.41	0-255	RED 5
CH.42	0-255	GREEN5
CH.43	0-255	BLUE5
CH.44	0-255	White 5
CH.45	0-255	RED 6
CH.46	0-255	GREEN6
CH.47	0-255	BLUE6
CH.48	0-255	White 6
CH.49	0-255	RED 7
CH.50	0-255	GREEN7
CH.51	0-255	BLUE7
CH.52	0-255	White 7

Tornado 400 FX Wash

使用手册

arctik[®] Tornado 400 FX Wash
ARCHITECTURAL TECHNOLOGY AF1972



MODEL:AF1972XCET



广州市雅江光电设备有限公司

Guangzhou Yajiang Photoelectric Equipment Ltd.

电话/Tel : 020-86947788 邮箱/E-mail : sales@yajiang.cn

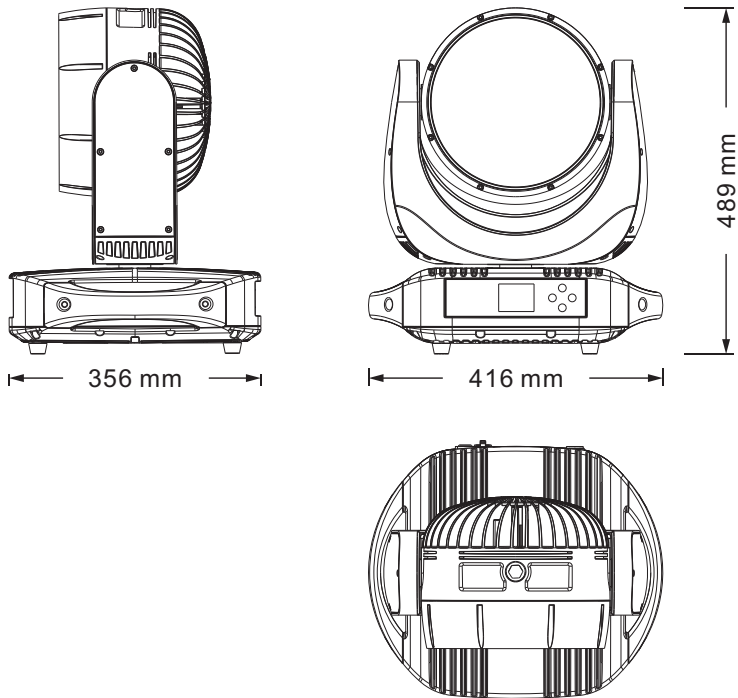
传真/Fax : 020-86943773 网址/Website : www.yajiang.cn

RD-AF1972-SM-01 (ARC-C)

1 产品技术参数

1.1 产品技术参数

产品型号	AF1972XCET
尺寸	416×356×489(mm)
重量	23KG
灯具功率	400W
输入电压	AC100~240VAC,50/60Hz
驱动电流	4.2A
环境温度	-20°C~45°C
光学角度	5°~35°
控制方式	DMX512/RDM



PIXEL (52CH)	VALUE	FUNCTION
	30-59	DIM0
	60-69	DIM1
	70-79	DIM2
	80-89	DIM3
	90-99	DIM4
	100-139	PWM 1200Hz
	140-149	PWM 2000Hz
	150-159	PWM 2400Hz
	160-169	PWM 6000Hz
	170-179	PWM 25000Hz
	180-189	FAN SLOW
	190-199	FAN FAST
	200-209	FAN AUTO
	210-219	AUTO TEST
	220-229	pan/tilt reset
	230-237	ZOOM RESET
	240-249	Total Reset
	250-255	NO FUNCTION
CH.23	0-255	DIMMER BEAM
		STROBE
CH.24	0-9	NO FUNCTION
	10-99	STROBE FROM (SLOW TO FAST, 0-25Hz)
	100-109	NO FUNCTION
	110-179	LIGHTNING STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
CH.25	0-255	RED 1
CH.26	0-255	GREEN1
CH.27	0-255	BLUE1
CH.28	0-255	White1
CH.29	0-255	RED2
CH.30	0-255	GREEN2
CH.31	0-255	BLUE2
CH.32	0-255	White 2
CH.33	0-255	RED3

PIXEL (52CH)	VALUE	FUNCTION
	120-124	Rose
	125-129	Honey yellow
	130-134	Light Pin
	135-139	Deep orange
	140-144	Lemmon
	145-149	Golden yellow
	150-154	Pastel orange
	155-159	Cream
	160-164	Melon yellow
	165-169	Luminous orange
	170-174	Luminouse yellow
	175-179	Open
	180-248	Stop
	249-255	Open
	Color FX	
CH.19	000-009	Open
	010-029	FX 1
	030-049	FX 2
	050-069	FX 3
	070-089	FX 4
	090-109	FX 5
	110-129	FX 6
	130-149	FX 7
	150-169	FX 8
	170-189	FX 9
	190-209	FX 10
	210-229	FX 11
	230-249	FX 12
	250-255	Open
CH.20	0-255	Ring Speed(SPEED 1 → 100%)
CH.21	0-255	Ring Dimmer
	Control (will be active after 5 seconds on the corresponding value)	
CH.22	0-9	NO FUNCTION
	10-19	PAN/TILT BLACK ACTIVATED
	20-29	PAN/TILT BLACK DEACTIVATED

1.2 安全警告

重要提醒:

- 此设备安装与维护有关的人员要具有电子技术员资格。
- 本灯具出厂前已经过严格检验合格后才能出厂。
- 为确保这些条件的正常和安全操作，用户必须遵守此说明书以下安全规定和注意事项。
- 重点：生产厂家将不对任何未按此说明书正常操作使用和未经许可则私自更改设备所引起的任何事故和损失负责。

注意:

- 特别注意电源电压与主机标示电压是否一致，确保使用电压在技术参数标识的电压范围内。
- 不要将其它电器的电源线与本灯电源输入输出接头线连接在一起，也不要将其它电器的DMX512信号线与本灯DMX512信号输入输出接头线连接在一起。
- 在使用连接110V~220V交流电前先检查确保电源开关插座接地线良好。
- 为确保电源使用安全请使用质量合格的电源插座或者剪掉插头直接连接开关。
- 本灯接地线为黄/绿双色。
- 在移动或安装使用中注意，避免金属硬物碰撞灯具。
- 灯具上的保护屏、透镜或紫外屏如果产生可见的损坏，即损坏到失效程度，如产生裂缝或深痕时，应更换。
- 请在运输、安装使用过程中，保护好灯具，避免外物损伤灯体。如有外力破坏灯体表面喷涂层，则不保证灯具防盐雾性能和防水性能。



警告，小心触电!

- 灯具光源只能由制造商或其服务代理人或类似的专业人员去更换。
- 如果这种灯具的外部电缆或软线损坏，则应由制造商或其服务代理人或类似的专业人员去独家更换，以避免危险。

2 安装

2.1 装置

水平放置：

先把吊挂下架固定在所放置的地方，水平540°旋转，垂直转动270°，如图2.1-1所示。

吊挂放置：

- 警告:确保安装地方是完全适合的，保证所选择的安装点是安全可靠的。
- 在安装设备的时候一定要远离易燃物品(装饰材料等)，跟其保持至少0.3米的距离；
- 先把两个吊耳装在底盘上，再装上夹子，把灯具固定安装适当的地方上；
- 安装灯具的地方必须要能承受灯具本身十倍以上重量，测试在一小时以内悬挂地点是否发生变形；
- 灯具在空中吊挂时，通常会安装保险绳索，但其必须要能承受灯具十倍以上重量。你必须要使用带有保险扣的保险绳。保险绳索从灯具底部的孔穿出来，再绕过灯架或其他固定物，最后把保险绳索末端插紧保险扣并把螺丝拧紧，如图2.1-2所示。



图2.1-1 水平放置图



图2.1-2 吊挂放置图

2.2 电源连接

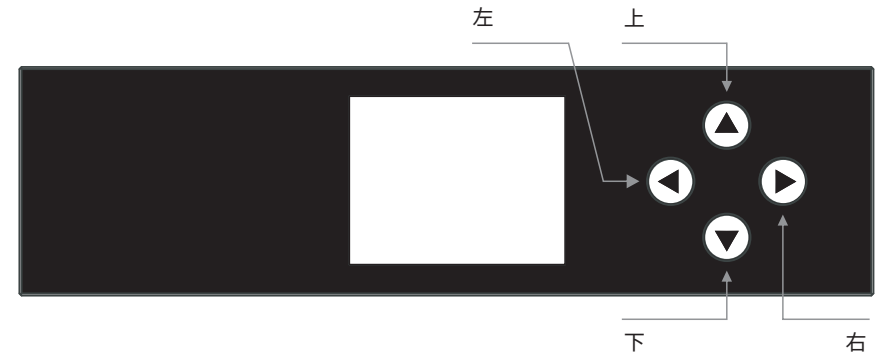
- 本产品使用输入输出电源线为1.5平方毫米铜芯线或2.5平方毫米铜芯线。
- 本产品规定使用输入电源三芯电缆电源线。
- 本产品规定使用信号线三芯或五芯信号线。
- 使用本产品DMX控台与灯或者灯与灯之间的信号线，超过60米长的，必须增加一级信号放大器，也可视信号强弱和工作环境来决定是否增加DMX512信号放大器。

PIXEL (52CH)	VALUE	FUNCTION
PRISM		
CH.14	0-120	ROTATING GOBO ANGLE ADJUSTMENT (0 → 360°)
	121-125	STOP
	126-165	ROTATING GOBO SHAKE (SPEED 1 → 100%)
	166-170	STOP
	171-210	ROTATING GOBO POSITIVE ROTATION (SPEED 100% → 1)
	211-215	STOP
	216-255	ROTATING GOBO REVERSE ROTATION (SPEED 1 → 100%)
CH.15	0-255	REDRING
CH.16	0-255	GREENRING
CH.17	0-255	BULERING
ring color effect		
CH.18	000-009	Open
	010-014	RED
	015-019	GREEN
	020-024	BLUE
	025-029	Yellow
	030-034	Magenta
	035-039	Cyan
	040-044	WHITE
	045-049	Violet blue
	050-054	Light blue
	055-059	Wine red
	060-064	May green
	065-069	Reseda green
	070-074	Blue lilac
	075-079	Moss green
	080-084	Signal violet
	085-089	Red lilac
	090-094	Purple red
	095-099	Green brown
	100-104	Pale green
105-109	Ruby red	
110-114	Flame red	
115-119	Red orange	

PIXEL (52CH)	VALUE	FUNCTION
CH.1	0-255	PAN
CH.2	0-255	PAN FINE
CH.3	0-255	TILT
CH.4	0-255	TILT FINE
CH.5	0-255	PT SPEED
CH.6	0-255	ZOOM
CH.7	0-255	DIMMER_Center
Effect of center STROBE		
CH.8	0-9	NO FUNCTION
	10-99	STROBE FROM (SLOW TO FAST, 0-25Hz)
	100-109	NO FUNCTION
	110-179	LIGHTNING STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
CH.9	0-255	RED_Center
CH.10	0-255	GREEN_Center
CH.11	0-255	BLUE_Center
CH.12	0-255	WHITE_Center
Effect of center		
CH.13	0-9	NO FUNCTION
	10-25	R+G
	26-41	R+B
	42-57	R+W
	58-73	G+B
	74-89	G+W
	90-105	B+W
	106-121	R+G+B
	122-137	R+G+B+W
	138-153	R-G-R
	154-169	R-B-R
	170-185	R-W-R
	186-201	G-B-G
	202-217	B-W-B
	218-233	R-G-B-R
	234-255	R-G-B-W-R

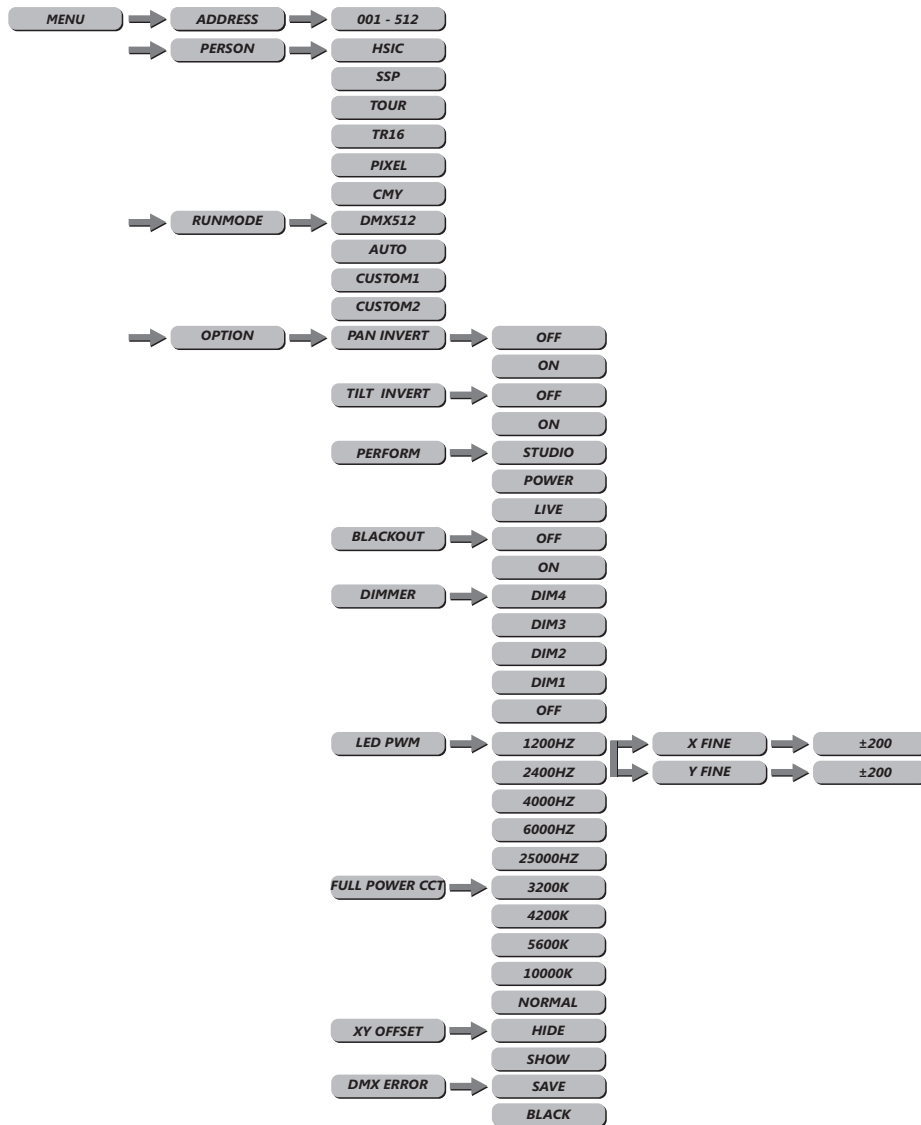
3 操作方法

3.1 按键操作



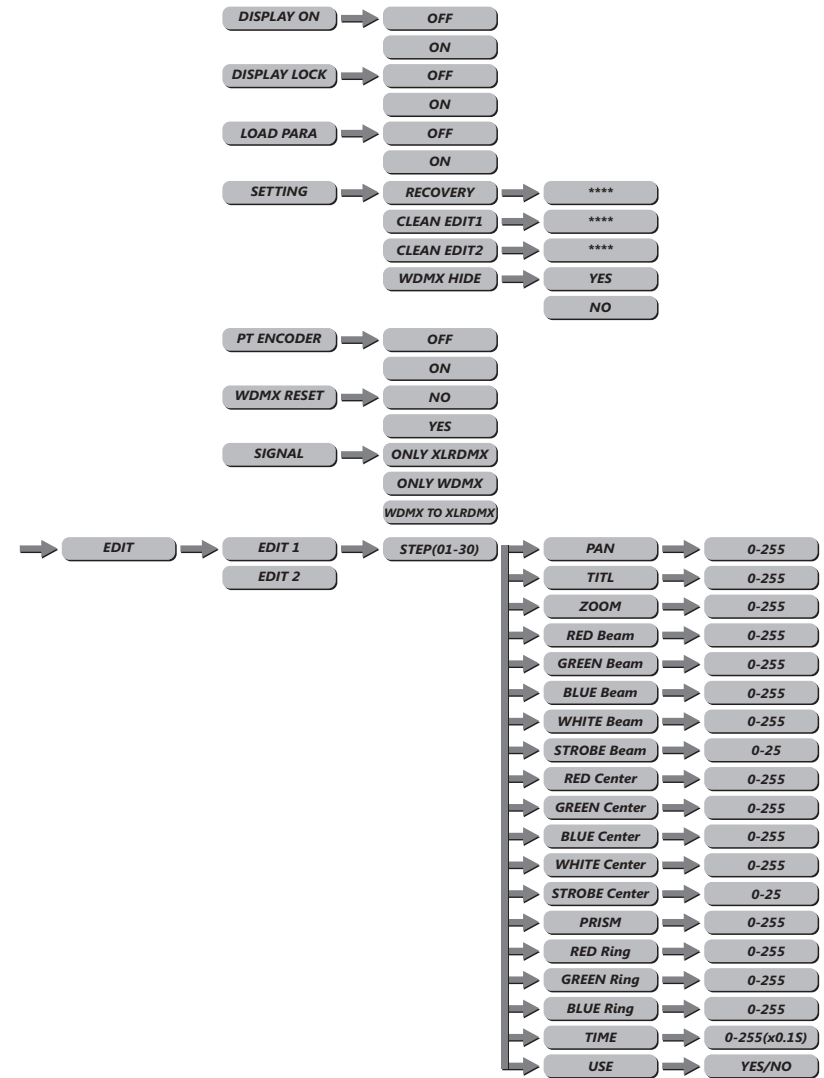
- 方向键上：循环选择子菜单，向上循环调节数据值。
 - 方向键下：循环选择子菜单，向下循环调节数据值。
 - 方向键左（返回键）：返回上一级菜单。
 - 方向键右（确认键）：确认数据值或选择循环数据窗口。
-
- 当锁屏时，需如下操作锁屏开屏：
 - 1.长按左键（约5秒），直至显示屏亮屏，提示输入密码。
 - 2.按键为“上下上下+右键”解锁。

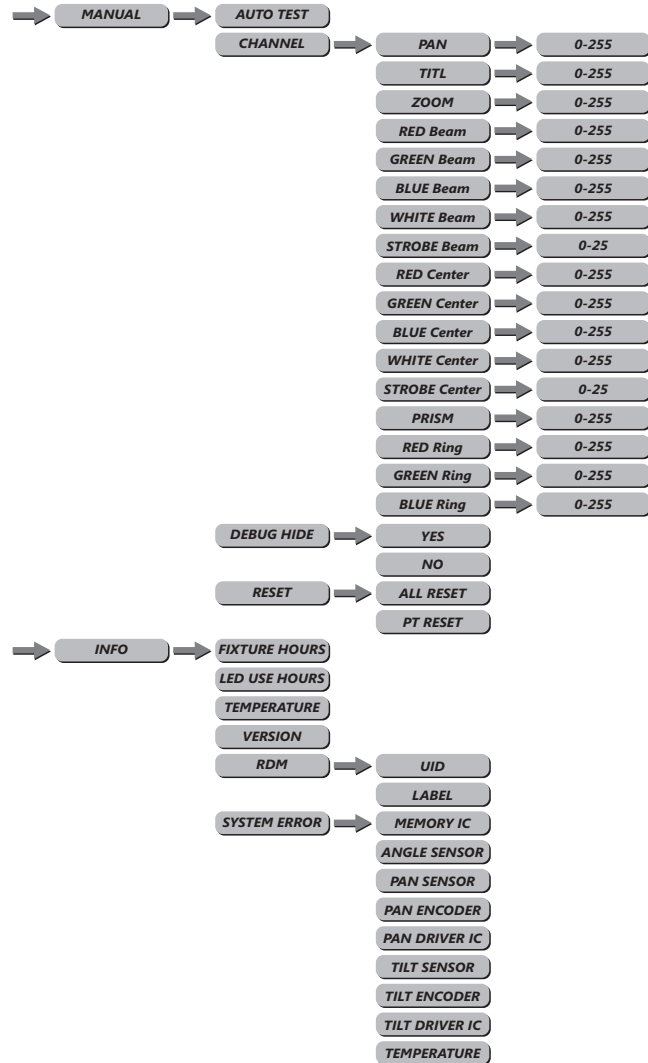
3.2 菜单



HSIC (27CH)	VALUE	FUNCTION
	170-189	FX 9
	190-209	FX 10
	210-229	FX 11
	230-249	FX 12
	250-255	Open
CH.25	0-255	Ring Speed(SPEED 1 → 100%)
CH.26	0-255	Ring Dimmer
CH.27	Control (will be active after 5 seconds on the corresponding value)	
	0-9	NO FUNCTION
	10-19	PAN/TILT BLACK ACTIVATED
	20-29	PAN/TILT BLACK DEACTIVATED
	30-59	DIM0
	60-69	DIM1
	70-79	DIM2
	80-89	DIM3
	90-99	DIM4
	100-139	PWM 1200Hz
	140-149	PWM 2000Hz
	150-159	PWM 2400Hz
	160-169	PWM 6000Hz
	170-179	PWM 25000Hz
	180-189	STUDIO
	190-199	POWER
	200-209	LIVE
210-219	AUTO TEST	
220-229	pan/tilt reset	
230-237	ZOOM RESET	
240-249	Total Reset	
250-255	NO FUNCTION	

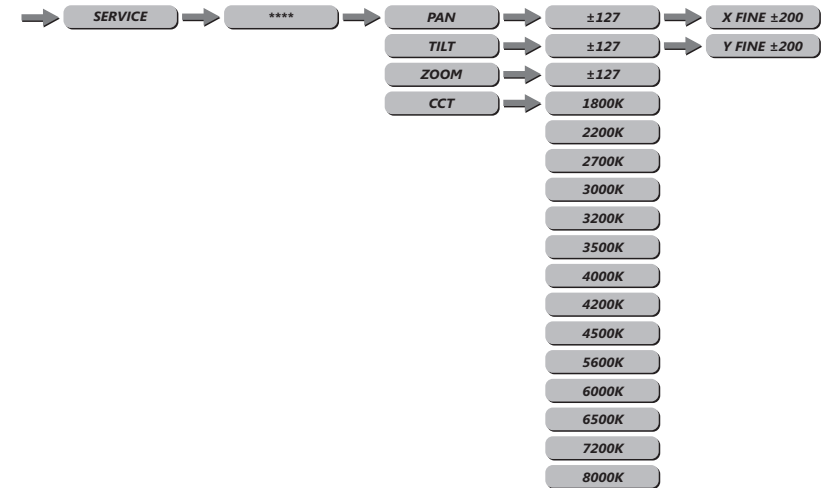
HSIC (27CH)	VALUE	FUNCTION
	065-069	Reseda green
	070-074	Blue lilac
	075-079	Moss green
	080-084	Signal violet
	085-089	Red lilac
	090-094	Purple red
	095-099	Green brown
	100-104	Pale green
	105-109	Ruby red
	110-114	Flame red
	115-119	Red orange
	120-124	Rose
	125-129	Honey yellow
	130-134	Light Pin
	135-139	Deep orange
	140-144	Lemmon
	145-149	Golden yellow
	150-154	Pastel orange
	155-159	Cream
	160-164	Melon yellow
	165-169	Luminous orange
	170-174	Luminouse yellow
	175-179	Open
	180-248	Stop
	249-255	Open
CH.24	Color FX	
	000-009	Open
	010-029	FX 1
	030-049	FX 2
	050-069	FX 3
	070-089	FX 4
	090-109	FX 5
	110-129	FX 6
	130-149	FX 7
	150-169	FX 8





HSIC (27CH)	VALUE	FUNCTION
CH.14	0-255	GREEN_Center
CH.15	0-255	BLUE_Center
CH.16	0-255	WHITE_Center
CH.17	0-255	DIMMER_Center
Effect of center STROBE		
CH.18	0-9	NO FUNCTION
	10-99	STROBE FROM (SLOWTO FAST , 0-25Hz)
	100-109	NO FUNCTION
	110-179	LIGHTNING STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
PRISM		
CH.19	0-120	ROTATING GOBO ANGLE ADJUSTMENT (0 → 360°)
	121-125	STOP
	126-165	ROTATING GOBO SHAKE (SPEED 1 → 100%)
	166-170	STOP
	171-210	ROTATING GOBO POSITIVE ROTATION (SPEED 100% → 1)
	211-215	STOP
	216-255	ROTATING GOBO REVERSE ROTATION (SPEED 1 → 100%)
CH.20	0-255	REDRING
CH.21	0-255	GREENRING
CH.22	0-255	BULERING
Ring Color Presets		
CH.23	000-009	Open
	010-014	RED
	015-019	GREEN
	020-024	BLUE
	025-029	Yellow
	030-034	Magenta
	035-039	Cyan
	040-044	WHITE
	045-049	Violet blue
	050-054	Light blue
	055-059	Wine red
060-064	May green	

HSIC (27CH)	VALUE	FUNCTION
Color FX		
CH.1	0-255	PAN
CH.2	0-255	PAN FINE
CH.3	0-255	TITL
CH.4	0-255	TITL FINE
CH.5	0-255	PT SPEED
CH.6	0-255	INTENSIYT
CH.7	0-255	HUE
CH.8	0-255	HUE FINE
CH.9	0-255	SATURATION
CCT		
CH.10	0-10	NO FUNCTION
	11-28	1800K
	29-46	2200K
	47-64	2700K
	65-82	3000K
	83-100	3200K
	101-118	3500K
	119-136	4000K
	137-154	4200K
	155-172	4500K
	173-190	5600K
	191-208	6000K
	209-226	6500K
	227-244	7200K
245-255	8000K	
STROBE		
CH.11	0-9	NO FUNCTION
	10-99	STROBE FROM (SLOW TO FAST , 0-25Hz)
	100-109	NO FUNCTION
	110-179	LIGHTNING STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
CH.12	0-255	ZOOM
CH.13	0-255	RED_Center

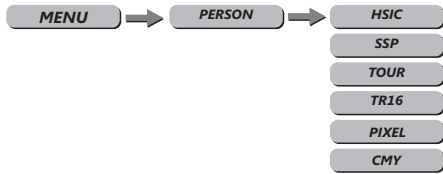


3.3 DMX地址码设置



- 在 Address 菜单按 Enter 键进入地址码设置或保存；按up/down键选择001~512数值。
- 按 MENU 键返回菜单。

3.4 通道模式



- 在 Person 菜单按 Enter 键进入通道模式选择。
- 按 Up/Down 键选择【HSIC、SSP、TOUR、TR16、PIXEL或CMY】通道模式，具体的通道值请参考DMX通道表。

CMY (31CH)	VALUE	FUNCTION
	30-59	DIM0
	60-69	DIM1
	70-79	DIM2
	80-89	DIM3
	90-99	DIM4
	100-139	PWM 1200Hz
	140-149	PWM 2000Hz
	150-159	PWM 2400Hz
	160-169	PWM 6000Hz
	170-179	PWM 25000Hz
	180-189	STUDIO
	190-199	POWER
	200-209	LIVE
	210-219	AUTO TEST
	220-229	pan/tilt reset
	230-237	ZOOM RESET
	240-249	Total Reset
	250-255	NO FUNCTION

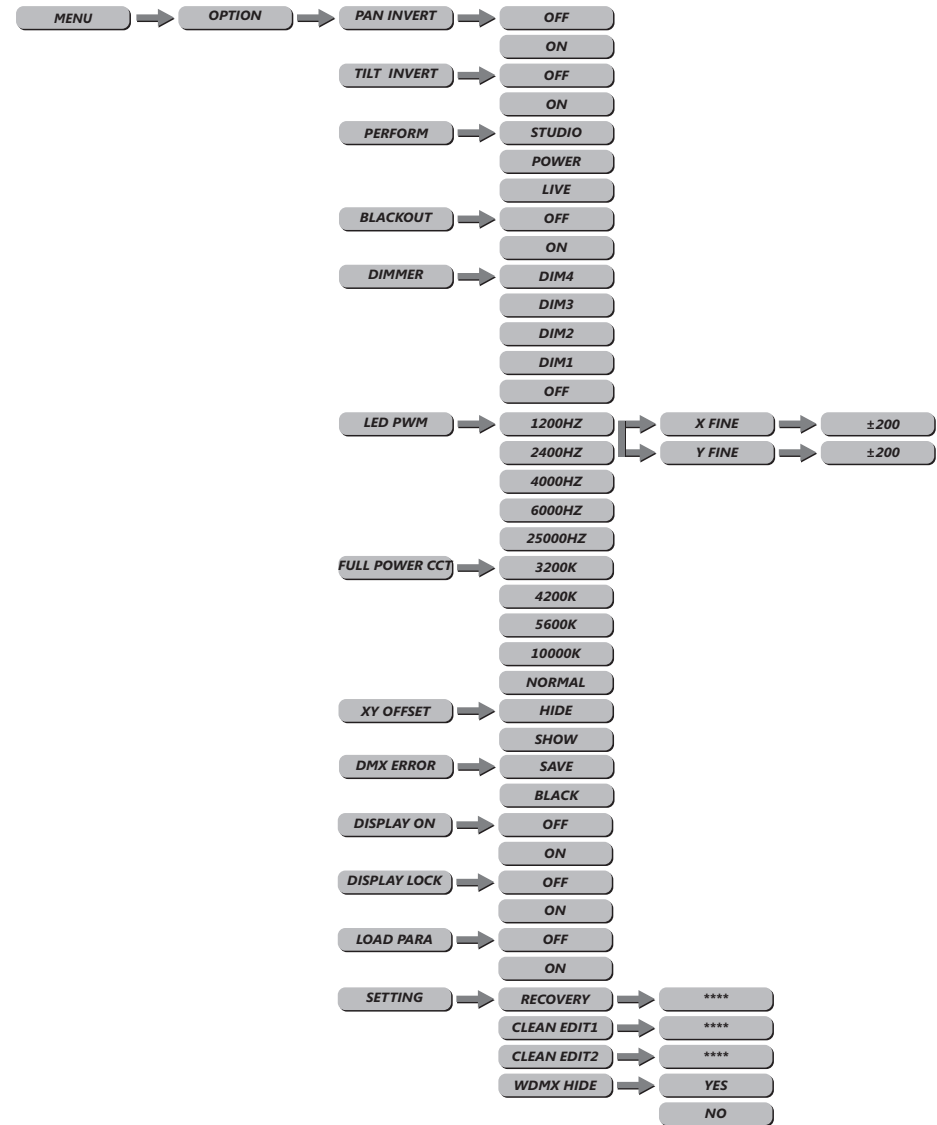
3.5 运行模式

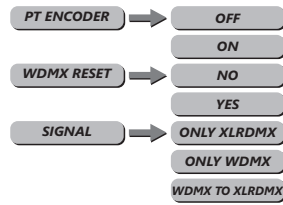


- 在 Runmode 菜单按enter键进入，里面有: DMX512模式，AUTO 自走模式，CUSTOM 1 和CUSTOM 2 自编场景模式。
- 按enter键确定，按MENU键返回。

CMY (31CH)	VALUE	FUNCTION
	120-124	Rose
	125-129	Honey yellow
	130-134	Light Pin
	135-139	Deep orange
	140-144	Lemmon
	145-149	Golden yellow
	150-154	Pastel orange
	155-159	Cream
	160-164	Melon yellow
	165-169	Luminous orange
	170-174	Luminous yellow
	175-179	Open
	180-248	Stop
	249-255	Open
CH.30	Color FX	
	000-009	Open
	010-029	FX 1
	030-049	FX 2
	050-069	FX 3
	070-089	FX 4
	090-109	FX 5
	110-129	FX 6
	130-149	FX 7
	150-169	FX 8
	170-189	FX 9
	190-209	FX 10
	210-229	FX 11
	230-249	FX 12
	250-255	Open
	0-255	Ring Speed(SPEED 1 → 100%)
	0-255	Ring Dimmer
CH.31	Control (will be active after 5 seconds on the corresponding value)	
	0-9	NO FUNCTION
	10-19	PAN/TILT BLACK ACTIVATED
	20-29	PAN/TILT BLACK DEACTIVATED

3.6 基本设置





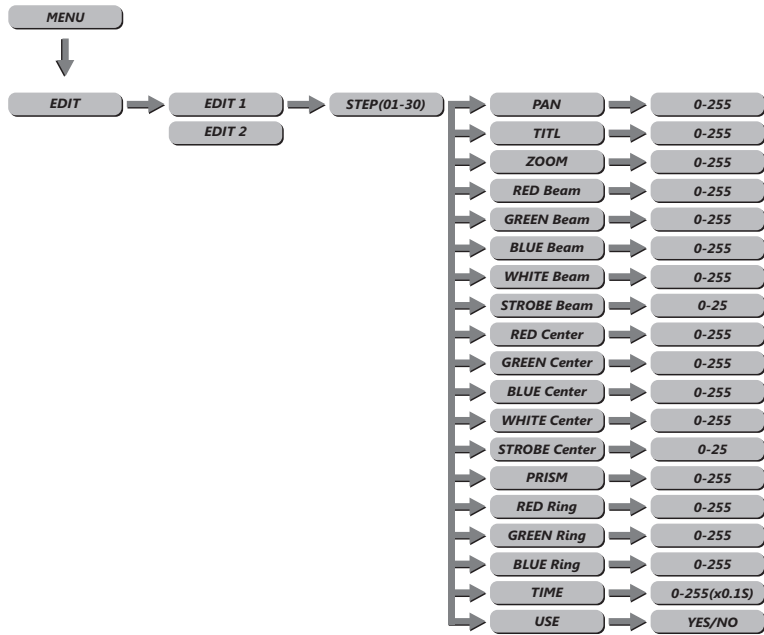
- 在OPTION菜单下按Enter键进入：
- **PAN INVERT:** 水平正反向模式，选择OFF为关，ON为开。
- **TILT INVERT:** 垂直正反向模式，选择OFF为关，ON为开。
- **PERFORM:**
STUDIO: 噪音控制在45dB以内，功率会有限制。
POWER: 噪音控制在55dB以内，降功率会下降。
LIVE: 智能调节风速，噪音控制在55dB以内，降功率会下降。默认为该模式。
- **BLACKOUT:** 黑场延时选择，选择ON为黑场延时、OFF为黑场不延时。
- **DIMMER:** 调光速度模式设置，按Up/Down键进行选择DIM 4、DIM 3、DIM 2、DIM 1、OFF模式。OFF为普通调光曲线，DIM 4、DIM 3、DIM 2、DIM 1为不同柔性效果的平滑调光曲线。平滑调光曲线消除了传统调光方法的抖动性，将调光曲线做到非线性的柔和性，给视觉带来舒适感。
- **LED PWM:** 是PWM刷新频率选择，按UP/DOWN键选择，1200Hz~25000Hz，随着刷新频率的提高，调光的灰度等级就会减少，（即刷新频率越高，灰度越少）。
- **POWER CCT:** 是色温选择设置，按UP / DOWN键选择，全功率下色温可选择色温有"3200K"、"4200K"、"5600K"、"10000K"和"NORMAL"。
- **XY OFFSET:** 隐藏刷新频率微调设置，选择SHOW为显示、HIDE为隐藏，默认设置为HIDE。
- **DMX ERROR:** 选择SAVE失DMX后保持，BLACK失DMX黑场。
- **DISPLAY ON:** 显示屏亮灭时间选择。
- **DISPLAY LOCK:** 按键锁设置，选择OFF关、ON开。
- **LOAD PARA:** 参数上传设置、选择NO为不上传参数，YES为上传参数。
- **SETTING:** 维护设置，选择 SETTINGS LOCK菜单锁设置，选择OFF关、ON开；SERVICE LOCK菜单锁设置，选择OFF关、ON开。

CMY (31CH)	VALUE	FUNCTION
PRISM		
CH.23	0-120	ROTATING GOBO ANGLE ADJUSTMENT (0 → 360°)
	121-125	STOP
	126-165	ROTATING GOBO SHAKE (SPEED 1 → 100%)
	166-170	STOP
	171-210	ROTATING GOBO POSITIVE ROTATION (SPEED 100% → 1)
	211-215	STOP
	216-255	ROTATING GOBO REVERSE ROTATION (SPEED 1 → 100%)
	CH.24	0-255
CH.25	0-255	GREENRING
CH.26	0-255	BULERING
Ring Color Presets		
CH.27	000-009	Open
	010-014	RED
	015-019	GREEN
	020-024	BLUE
	025-029	Yellow
	030-034	Magenta
	035-039	Cyan
	040-044	WHITE
	045-049	Violet blue
	050-054	Light blue
	055-059	Wine red
	060-064	May green
	065-069	Reseda green
	070-074	Blue lilac
	075-079	Moss green
	080-084	Signal violet
085-089	Red lilac	
090-094	Purple red	
095-099	Green brown	
100-104	Pale green	
105-109	Ruby red	
110-114	Flame red	
115-119	Red orange	

CMY (31CH)	VALUE	FUNCTION
	249-251	1-3red, 4-7purple
	252-254	1-3yellow, 4-7blue
	255	1-3green, 4-7purple
CH.14	0-255	AUTO SPEED ADJUSTMENT(SLOW TO FAST)
CH.15	0-255	ZOOM
CH.16	0-255	RED_Center
CH.17	0-255	GREEN_Center
CH.18	0-255	BLUE_Center
CH.19	0-255	WHITE_Center
CH.20	0-255	DIMMER_Center
Effect of center STROBE		
CH.21	0-9	NO FUNCTION
	10-99	STROBE FROM (SLOW TO FAST, 0-25Hz)
	100-109	NO FUNCTION
	110-179	LIGHTNING STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
Effect of center		
CH.22	0-9	NO FUNCTION
	10-25	R+G
	26-41	R+B
	42-57	R+W
	58-73	G+B
	74-89	G+W
	90-105	B+W
	106-121	R+G+B
	122-137	R+G+B+W
	138-153	R-G-R
	154-169	R-B-R
	170-185	R-W-R
	186-201	G-B-G
	202-217	B-W-B
	218-233	R-G-B-R
234-255	R-G-B-W-R	

- **RECOVERY:** 是出厂默认参数设置, 按Enter键输入正确密码"上下上下"后执行。
- **CLEAN EDIT 1:** 清除编辑场景1, 按Enter键输入正确密码"上下上下"后执行。
- **CLEAN EDIT 2:** 清除编辑场景2, 按Enter键输入正确密码"上下上下"后执行。清除其他编辑场景如是操作。
- **WDMX HIDE:** 无线隐藏设置, 当把无线隐藏, WDMX RESET 和 SIGNAL 两个菜单隐藏了 且信号默认为仅有线模式。
- **PT ENCODER:** XY编码器开关, OFF为关闭, ON为开启。
- **WDMX RESET:** 无线复位, 用来对码用, YES清除接收器的消息, 重新按发射器对码选择, NO不清除接收器的消息。
- **SIGNAL:** 信号设置, ONLY XLR DMX为仅有线; ONLY WDMX为仅无线, WDMX TO XLR DMX为无线转有线。

3.7 效果编辑



• **STEP场景号设置**：在Edit菜单下按Enter键进入二级菜单选择STEP(01-30)进行设置。

PAN：水平设置。

TILT：垂直设置。

ZOOM：变焦设置。

RED Beam、GREEN Beam、BLUE Beam、WHITE Beam、STROBE Beam：外围的红色、绿色、蓝色、白色、频闪灯珠设置。

RED Center、GREEN Center、BLUE Center、WHITE Center、STROBE Center：中间的红色、绿色、蓝色、白色、频闪灯珠设置。

PRISM：棱镜设置。

RED Ring、GREEN Ring、BLUE Ring、WHITE Ring、STROBERing：灯带颜色设置。

TIME：是步时间，数值范围是0~255，单位为秒；

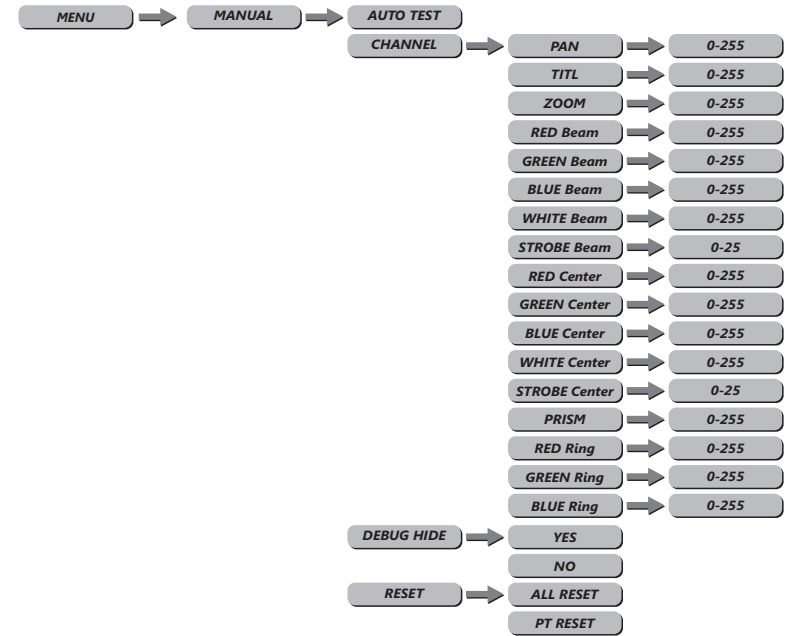
FADE：是过渡时间，数值范围是0~255，单位是秒，FADE的时间设置要小于

TIME的时间设置。先按Enter，再按（MENU）键返回菜单（退出现场编辑），之前所选数值自动保存。

CMY (31CH)	VALUE	FUNCTION
	130-133	White background ,illuminate adjustable . 100% red lightness runs(1-7)
	134-137	White background ,illuminate adjustable . 100% red lightness runs(7-1)
	138-141	White background ,illuminate adjustable . 100% red lightness runs(1-7-1)
	142-145	White background ,illuminate adjustable . 100% red lightness runs(1-4,7-4),1&7 light up in the same time,getting f rom 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides.associated with CH6-CH10.
	146-149	Green background ,illuminate adjustable . 100% white lightness runs(1-7)
	150-153	Green background ,illuminate adjustable . 100% white lightness runs(7-1)
	154-157	Green background ,illuminate adjustable . 100% white lightness runs(1-7-1)
	158-161	Green background ,illuminate adjustable . 100% white lightness runs(1-4,7-4),1&7 light up in the same time,getting from 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides.associated with CH6-CH10.
	162-165	Blue background ,illuminate adjustable . 100% white lightness runs(1-7)
	166-169	Blue background ,illuminate adjustable . 100% white lightness runs(7-1)
	170-173	Blue background ,illuminate adjustable . 100% white lightness runs(1-7-1)
	174-177	Blue background ,illuminate adjustable . 100% white lightness runs(1-4,7-4),1&7 light up in the same time,getting from 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides.associated with CH6-CH10.
	178-181	Green background ,illuminate adjustable . 100% red lightness runs(1-7)
	182-185	Green background ,illuminate adjustable . 100% red lightness runs(7-1)
	186-189	Green background ,illuminate adjustable . 100% red lightness runs(1-7-1)
	190-193	Green background ,illuminate adjustable . 100% red lightness runs(1-4,7-4),1&7 light up in the same time,getting from 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides.associated with CH6-CH10.
	194-197	Blue background ,illuminate adjustable . 100% red lightness runs(1-7)
	198-201	Blue background ,illuminate adjustable . 100% red lightness runs(7-1)
	202-205	Blue background ,illuminate adjustable . 100% red lightness runs(1-7-1)
	206-209	Blue background ,illuminate adjustable . 100% red lightness runs(1-4,7-4),1&7 light up in the same time,getting from 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides.associated with CH6-CH10.
	210-215	disordered run
	216-221	(1,4,5)-(2,5,6)-(3,6,7)-(4,7,1)-(5,1,2)-(6,2,3)-(7,3,4)
	222-227	(1,2,5,6)-(2,3,6,7)-(3,4,7,1)-(4,5,1,2)-(5,6,2,3)-(6,7,3,4)-(7,1,4,5)
	228-230	1,2 circular ring
	231-233	1,2,3 circular ring
	234-236	1,2,3,4 circular ring
	237-239	1-3blue, 4-7red
	240-242	1-3cyan, 4-7orange
	243-245	1-3purple, 4-7yellow
	246-248	1-3orange, 4-7green

CMY (31CH)	VALUE	FUNCTION
CH.1	5 (Illuminance 30%) - 4 (Illuminance60%) 3 (Illuminance100%) , (associated with CH6-CH10)	
	4 (Illuminance 30%) - 3 (Illuminance60%) 2 (Illuminance100%) , (associated with CH6-CH10)	
	3 (Illuminance 30%) - 2 (Illuminance60%) 1 (Illuminance100%) , (associated with CH6-CH10)	
	2 (Illuminance 30%) - 1 (Illuminance60%) 7 (Illuminance100%) , (associated with CH6-CH10)	
	1 (Illuminance 30%) - 7 (Illuminance60%) 6 (Illuminance100%) , (associated with CH6-CH10)	
34-37	1-7(Single 2700k cycling operation ,the background effect associated with CH6-CH10)	
38-41	7-1(Single 2700k cycling operation ,the background effect associated with CH6-CH10)	
42-45	1-7-1(Single 2700k cycling operation ,the background effect associated with CH6-CH10)	
46-49	1-4 and 7-4(1<2700k>&7<2700K>light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides,the background effect associated with CH6-CH16)	
50-53	1-7(Single 6000k cycling operation ,the background effect associated with CH6-CH10)	
54-57	7-1(Single 6000k cycling operation ,the background effect associated with CH6-CH10)	
58-61	1-7-1(Single 6000k cycling operation ,the background effect associated with CH6-CH10)	
62-65	1-4 and 7-4(1<6000k>&7<6000K>light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides,the background effect associated with CH6-CH16)	
66-69	Red background ,illuminate adjustable . 100% green lightness runs(1-7)	
70-73	Red background ,illuminate adjustable . 100% green lightness runs(7-1)	
74-77	Red background ,illuminate adjustable . 100% green lightness runs(1-7-1)	
78-81	Red background ,illuminate adjustable . 100% green lightness runs(1-4,7-4),1&7light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH6-CH10.	
82-85	Green background ,illuminate adjustable . 100% blue lightness runs(1-7)	
86-89	Green background ,illuminate adjustable . 100% blue lightness runs(7-1)	
90-93	Green background ,illuminate adjustable . 100% blue lightness runs(1-7-1)	
94-97	Green background ,illuminate adjustable . 100% blue lightness runs(1-4,7-4),1&7light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH6-CH10.	
98-101	Blue background ,illuminate adjustable . 100% green lightness runs(1-7)	
102-105	Blue background ,illuminate adjustable . 100% green lightness runs(7-1)	
106-109	Blue background ,illuminate adjustable . 100% green lightness runs(1-7-1)	
110-113	Blue background ,illuminate adjustable . 100% green lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH6-CH10.	
114-117	Red background ,illuminate adjustable . 100% white lightness runs(1-7)	
118-121	Red background ,illuminate adjustable . 100% white lightness runs(7-1)	
122-125	Red background ,illuminate adjustable . 100% white lightness runs(1-7-1)	
126-129	Red background ,illuminate adjustable . 100% white lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated withCH6-CH16.	

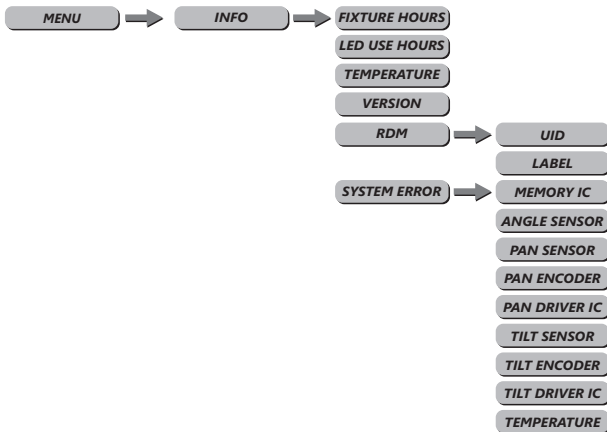
3.8 手动测试



- 在**MANUAL**菜单下按Enter进入：
- **AUTO TEST**自动测试。
- **PAN**：水平旋转位置设置。
- **TITL**：垂直旋转位置设置。
- **ZOOM**：变焦位置设置。
- **RED BEAM / GREEN BEAM / BLUE BEAM / WHITE BEAM / STROBE BEAM**：外围7颗灯珠红光/绿光/蓝光/白光/频闪亮度设置，数值越大亮度越亮。
- **RED CENTER / GREEN CENTER / BLUE CENTER / WHITE CENTER / STROBE CENTER**：中心单颗灯珠红光/绿光/蓝光/白光/频闪亮度设置，数值越大亮度越亮。
- **PRISM**：棱镜旋转设置。
- **RED RING / GREEN RING / BLUE RING**：灯带红光/绿光/蓝光亮度设置，数值越大亮度越亮。

- **DEBUG HIDE:** 工厂调试模式，所有电机不受信号控制且保持较小力度，复位后才重新起作用，选择YES进入，选择NO不进入。
- **RESET:** 复位设置：
 - ALL RESET:** 全部复位，只有该模式可以退出DEBUG HIDE模式。
 - PT RESET:** 水平和垂直复位。

3.9 信息设置

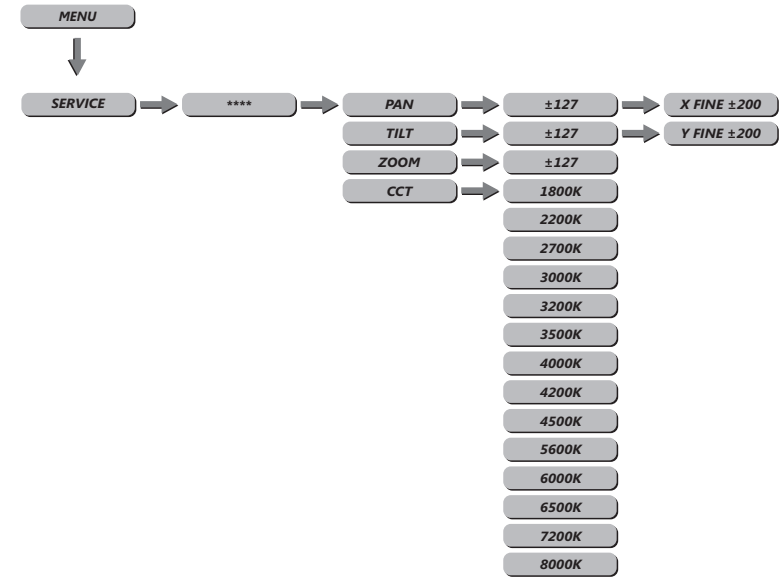


- **INFO**信息查看，按上下键选择需要查看的功能：
 - "**FIXTURE HOURS**": 灯具使用时间。
 - "**LED USE HOURS**": LED使用时间。
 - "**TEMPERATURE**": 灯珠温度。
 - "**VERSION**": 软件版本信息。
 - "**RDM**": 查看灯具UID码和Label灯具英文名称。
 - "**SYSTEM ERROR**": 系统信息错误信息 (Memory IC: 记忆IC; AngleSensor: 角度传感器; Pan Sensor: X磁铁; Pan Encoder: X编码器; Pan DriveIC: Y驱动IC; Tilt Sensor: Y磁铁; TiltEncoder: Y编码器; TiltDriveIC: X驱动IC; Temperature: 温控IC)。

CMY (31CH)	VALUE	FUNCTION
	161-165	6,7
	166-170	1,2,3
	171-175	1,4,5
	176-180	1,6,7
	181-185	2,3,4
	186-190	5,6,7
	191-195	4,5,6
	196-200	7,2,3
	201-205	1,2,3,4
	206-210	1,5,6,7
	211-215	1,3,5,7
	216-220	3,4,5,6
	221-225	1,2,3,4,5
	226-230	1,4,5,6,7
	231-235	3,4,5,6,7
	236-240	1,2,3,4,5,6
	241-245	2,3,4,5,6,7
	246-250	1,2,3,5,6,7
	251-255	ALL LED OUT
		PIXEL EFFECT
CH.13	0-9	NO FUNCTION
	10-13	1-7(Single light cycling operation,associated with CH6-CH10)
	14-17	7-1(Single light cycling operation,associated with CH6-CH10)
	18-21	1-7-1(Single light cycling operation,associated with CH6-CH10)
	22-25	1-4 and 7-4(1&7light up in the same time,gethering from 2 sides to the center in turn .when it is at 4 ,spreading from the center to the 2 sides,associated with CH6-CH10)
	26-29	1 (Illuminance 30%) - 2 (Illuminance60%) 3 (Illuminance100%) , (associated with CH6-CH10)
		2 (Illuminance 30%) - 3 (Illuminance60%) 4 (Illuminance100%) , (associated with CH6-CH10)
		3 (Illuminance 30%) - 4 (Illuminance60%) 5 (Illuminance100%) , (associated with CH6-CH10)
		4 (Illuminance 30%) - 5 (Illuminance60%) 6 (Illuminance100%) , (associated with CH6-CH10)
		5 (Illuminance 30%) - 6 (Illuminance60%) 7 (Illuminance100%) , (associated with CH6-CH10)
		6 (Illuminance 30%) - 7 (Illuminance60%) 1 (Illuminance100%) , (associated with CH6-CH10)
		7 (Illuminance 30%) - 1 (Illuminance60%) 2 (Illuminance100%) , (associated with CH6-CH10)
	30-33	7 (Illuminance 30%) - 6 (Illuminance60%) 5 (Illuminance100%) , (associated with CH6-CH10)
		6 (Illuminance 30%) - 5 (Illuminance60%) 4 (Illuminance100%) , (associated with CH6-CH10)

CMY (31CH)	VALUE	FUNCTION
	228-231	4500K
	232-235	5600K
	236-239	6000K
	240-243	6500K
	244-247	7200K
	248-255	8000K
	STATIC PIXEL	
CH.12	0-9	NO FUNCTION
	10-15	1
	16-21	2
	22-27	3
	28-33	4
	34-39	5
	40-45	6
	46-51	7
	52-57	1,2
	58-63	1,3
	64-69	1,4
	70-75	1,5
	76-85	1,6
	86-90	1,7
	91-95	2,3
	96-100	2,4
	101-105	2,5
	106-110	2,6
	111-115	2,7
	116-120	3,4
	121-125	3,5
	126-130	3,6
	131-135	3,7
	136-140	4,5
	141-145	4,6
	146-150	4,7
	151-155	5,6
	156-160	5,7

3.10 服务参数设置



- 按 Enter键进入service通过输出密码“上下上下”后进入选项界面：
- **PAN**：水平位置微调，通过上下键调节±127数值。
- **TILT**：垂直平位置微调，通过上下键调节±127数值。
- **ZOOM**：变焦位置微调，通过上下键调节±127数值。
- **CCT**：色温微调设置。
X FINE&Y FINE：色差微调，当XY OFFSET选择为SHOW不隐藏时方可进入此项进行设置。

4 使用DMX512控台

4.1 DMX512通道表

这个产品DMX模式有：【HSIC】、【SSP】、【TOUR】、【TR16】、【PIXEL】、【CMY】。

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
CH.1	CH.1	CH.1	0-255	PAN
		CH.2	0-255	PAN FINE
CH.2	CH.2	CH.3	0-255	TITL
		CH.4	0-255	TITL FINE
CH.3	CH.3	CH.5	0-255	PT SPEED
CH.4	CH.4	CH.6	0-255	RED
		CH.7	0-255	RED FINE
CH.5	CH.5	CH.8	0-255	GREEN
		CH.9	0-255	GREEN FINE
CH.6	CH.6	CH.10	0-255	BLUE
		CH.11	0-255	BLUE FINE
CH.7	CH.7	CH.12	0-255	WHITE
		CH.13	0-255	WHTIE FINE
CH.8	CH.8	CH.14	0-255	DIMMER
		CH.15	0-255	DIMMER FINE
CH.9	CH.9	CH.16	STROBE	
			0-9	NO FUNCTION
			10-99	STROBE FROM (SLOW TO FAST, 0-25Hz)
			100-109	NO FUNCTION
			110-179	LIGHTNING STROBE
			180-189	NO FUNCTION
			190-255	RANDOM STROBE
	CH.10	CH.17	COLOR MARCOS	
			0-10	NO FUNCTION
			11-30	RED 100% / GREEN UP / BLUE 0%
			31-50	RED DOWN / GREEN 100% / BLUE 0%
			51-70	RED 0% / GREEN 100% / BLUE UP
			71-90	RED 0% / GREEN DOWN / BLUE 100%
			91-110	RED UP / GREEN 0% / BLUE 100%

CMY (31CH)	VALUE	FUNCTION
CH.1	0-255	PAN
CH.2	0-255	PAN FINE
CH.3	0-255	TITL
CH.4	0-255	TITL FINE
CH.5	0-255	PT SPEED
CH.6	0-255	CYAN
CH.7	0-255	MAGENT
CH.8	0-255	YELLOW
CH.9	0-255	DIMMER
CH.10	STROBE	
	0-9	NO FUNCTION
	10-99	STROBE FROM (SLOW TO FAST, 0-25Hz)
	100-109	NO FUNCTION
	110-179	LIGHTNING STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
CH.11	COLOR MARCOS	
	0-10	NO FUNCTION
	11-30	CYAN 100% / MAGENTA UP / YELLOW 0%
	31-50	CYAN DOWN / MAGENTA 100% / YELLOW 0%
	51-70	CYAN 0% / MAGENTA 100% / YELLOW UP
	71-90	CYAN 0% / MAGENTA DOWN / YELLOW 100%
	91-110	CYAN UP / MAGENTA 0% / YELLOW 100%
	111-130	CYAN 100% / MAGENTA 0% / YELLOW DOWN
	131-150	CYAN 100% / MAGENTA UP / YELLOW 0%
	151-170	CYAN DOWN / MAGENTA DOWN / YELLOW 100%
	171-195	ALL LED AT FULL OUTPUT
	196-199	1800K
	200-203	2200K
	204-207	2700K
	208-211	3000K
212-215	3200K	
216-219	3500K	
220-223	4000K	
224-227	4200K	

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			170-189	FX 9
			190-209	FX 10
			210-229	FX 11
			230-249	FX 12
			250-255	Open
CH.23	CH.28	CH.35	0-255	Ring FX Speed(1 → 100%)
CH.24	CH.29	CH.36	0-255	Ring Dimmer
CH.25	CH.30	CH.37	Control (will be active after 5 seconds on the corresponding value)	
			0-9	NO FUNCTION
			10-19	PAN/TILT BLACK ACTIVATED
			20-29	PAN/TILT BLACK DEACTIVATED
			30-59	DIM0
			60-69	DIM1
			70-79	DIM2
			80-89	DIM3
			90-99	DIM4
			100-139	PWM 1200Hz
			140-149	PWM 2000Hz
			150-159	PWM 2400Hz
			160-169	PWM 6000Hz
			170-179	PWM 25000Hz
			180-189	STUDIO
			190-199	POWER
			200-209	LIVE
			210-219	AUTO TEST
			220-229	pan/tilt reset
			230-237	ZOOM RESET
240-249	Total Reset			
250-255	NO FUNCTION			

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			111-130	RED 100% /GREEN 0%/BLUE DOWN
			131-150	RED 100%/GREEN UP/BLUE UP
			151-170	RED DOWN/GREEN DOWN/BLUE 100%
			171-195	ALL LED AT FULL OUTPUT
			196-199	1800K
			200-203	2200K
			204-207	2700K
			208-211	3000K
			212-215	3200K
			216-219	3500K
			220-223	4000K
			224-227	4200K
			228-231	4500K
			232-235	5600K
			236-239	6000K
			240-243	6500K
			244-247	7200K
			248-255	8000K
			STATIC PIXEL	
	CH.11	CH.18	0-9	NO FUNCTION
			10-15	1
			16-21	2
			22-27	3
			28-33	4
			34-39	5
			40-45	6
			46-51	7
			52-57	1,2
			58-63	1,3
			64-69	1,4
			70-75	1,5
			76-85	1,6
			86-90	1,7
	91-95	2,3		
	96-100	2,4		

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			101-105	2,5
			106-110	2,6
			111-115	2,7
			116-120	3,4
			121-125	3,5
			126-130	3,6
			131-135	3,7
			136-140	4,5
			141-145	4,6
			146-150	4,7
			151-155	5,6
			156-160	5,7
			161-165	6,7
			166-170	1,2,3
			171-175	1,4,5
			176-180	1,6,7
			181-185	2,3,4
			186-190	5,6,7
			191-195	4,5,6
			196-200	7,2,3
			201-205	1,2,3,4
			206-210	1,5,6,7
			211-215	1,3,5,7
			216-220	3,4,5,6
			221-225	1,2,3,4,5
			226-230	1,4,5,6,7
			231-235	3,4,5,6,7
			236-240	1,2,3,4,5,6
			241-245	2,3,4,5,6,7
			246-250	1,2,3,5,6,7
			251-255	ALL LED OUT
	CH.12	CH.19	PIXEL EFFECT	
			0-9	NO FUNCTION
			10-13	1-7(Single light cycling operation,associated with CH4-CH10)
			14-17	7-1(Single light cycling operation,associated withCH4-CH10)

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			065-069	Reseda green
			070-074	Blue lilac
			075-079	Moss green
			080-084	Signal violet
			085-089	Red lilac
			090-094	Purple red
			095-099	Green brown
			100-104	Pale green
			105-109	Ruby red
			110-114	Flame red
			115-119	Red orange
			120-124	Rose
			125-129	Honey yellow
			130-134	Light Pin
			135-139	Deep orange
			140-144	Lemmon
			145-149	Golden yellow
			150-154	Pastel orange
			155-159	Cream
			160-164	Melon yellow
			165-169	Luminous orange
			170-174	Luminouse yellow
			175-179	Open
			180-248	Stop
			249-255	Open
	CH.22	CH.27	CH.34	Color FX
			0-9	Open
			10-29	FX 1
			30-49	FX 2
			50-69	FX 3
			70-89	FX 4
			90-109	FX 5
			110-129	FX 6
			130-149	FX 7
			150-169	FX 8

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			74-89	G+W
			90-105	B+W
			106-121	R+G+B
			122-137	R+G+B+W
			138-153	R-G-R
			154-169	R-B-R
			170-185	R-W-R
			186-201	G-B-G
			202-217	B-W-B
			218-233	R-G-B-R
			234-255	R-G-B-W-R
			PRISM	
CH.17	CH.22	CH.29	0-120	ROTATING GOBO ANGLE ADJUSTMENT (0 → 360°)
			121-125	STOP
			126-165	ROTATING GOBO SHAKE (SPEED 1 → 100%)
			166-170	STOP
			171-210	ROTATING GOBO POSITIVE ROTATION (SPEED 100% → 1)
			211-215	STOP
			216-255	ROTATING GOBO REVERSE ROTATION (SPEED 1 → 100%)
CH.18	CH.22	CH.30	0-255	REDRING
CH.19	CH.23	CH.31	0-255	GREENRING
CH.20	CH.24	CH.32	0-255	BULERING
			Ring Color Presets	
CH.21	CH.22	CH.33	000-009	Open
			010-014	RED
			015-019	GREEN
			020-024	BLUE
			025-029	Yellow
			030-034	Magenta
			035-039	Cyan
			040-044	WHITE
			045-049	Violet blue
			050-054	Light blue
			055-059	Wine red
			060-064	May green

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			18-21	1-7-1(Single light cycling operation,associated with CH4-CH10)
			22-25	1-4 and 7-4(1&7light up in the same time,gethering from 2 sides to the center in turn .when it is at 4 ,spreading from the center to the 2 sides,associated with CH4-CH10)
			26-29	1 (Illuminance 30%) -2 (Illuminance60%) 3 (Illuminance100%) , (associated with CH4-CH10)
				2 (Illuminance 30%) - 3 (Illuminance60%) 4 (Illuminance100%) , (associated with CH4-CH10)
				3 (Illuminance 30%) - 4 (Illuminance60%) 5 (Illuminance100%) , (associated with CH4-CH10)
				4 (Illuminance 30%) - 5 (Illuminance60%) 6 (Illuminance100%) , (associated with CH4-CH10)
				5 (Illuminance 30%) - 6 (Illuminance60%) 7 (Illuminance100%) , (associated with CH4-CH10)
				6 (Illuminance 30%) - 7 (Illuminance60%) 1 (Illuminance100%) , (associated with CH4-CH10)
				7 (Illuminance 30%) - 1 (Illuminance60%) 2 (Illuminance100%) , (associated with CH4-CH10)
			30-33	7 (Illuminance 30%) - 6 (Illuminance60%) 5 (Illuminance100%) , (associated with CH4-CH10)
				6 (Illuminance 30%) - 5 (Illuminance60%) 4 (Illuminance100%) , (associated with CH4-CH10)
				5 (Illuminance 30%) - 4 (Illuminance60%) 3 (Illuminance100%) , (associated with CH4-CH10)
				4 (Illuminance 30%) - 3 (Illuminance60%) 2 (Illuminance100%) , (associated with CH4-CH10)
				3 (Illuminance 30%) - 2 (Illuminance60%) 1 (Illuminance100%) , (associated with CH4-CH10)
				2 (Illuminance 30%) - 1 (Illuminance60%) 7 (Illuminance100%) , (associated with CH4-CH10)
				1 (Illuminance 30%) - 7 (Illuminance60%) 6 (Illuminance100%) , (associated with CH4-CH10)
			34-37	1-7(Single 2700k cycling operation ,the background effect associated with CH4-CH10)
			38-41	7-1(Single 2700k cycling operation ,the background effect associated with CH4-CH10)
			42-45	1-7-1(Single 2700k cycling operation ,the background effect associated with CH4-CH10)
			46-49	1-4 and 7-4(1<2700k>&7<2700K>light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides,the background effect associated with CH4-CH10)
			50-53	1-7(Single 6000k cycling operation ,the background effect associated with CH4-CH10)
			54-57	7-1(Single 6000k cycling operation ,the background effect associated with CH4-CH10)
			58-61	1-7-1(Single 6000k cycling operation ,the background effect associated with CH4-CH10)
			62-65	1-4 and 7-4(1<6000k>&7<6000K>light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides,the background effect associated with CH4-CH10)
			66-69	Red background ,illuminace adjustable . 100% green lightness runs(1-7)
			70-73	Red background ,illuminace adjustable . 100% green lightness runs(7-1)
			74-77	Red background ,illuminace adjustable . 100% green lightness runs(1-7-1)
			78-81	Red background ,illuminace adjustable . 100% green lightness runs(1-4,7-4),1&7light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,spreading from the center to the 2 sides.associated with CH4-CH10.
			82-85	Green background ,illuminace adjustable . 100% blue lightness runs(1-7)
			86-89	Green background ,illuminace adjustable . 100% blue lightness runs(7-1)
			90-93	Green background ,illuminace adjustable . 100% blue lightness runs(1-7-1)

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			94-97	Green background ,illuminate adjustable . 100% blue lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			98-101	Blue background ,illuminate adjustable . 100% green lightness runs(1-7)
			102-105	Blue background ,illuminate adjustable . 100% green lightness runs(7-1)
			106-109	Blue background ,illuminate adjustable . 100% green lightness runs(1-7-1)
			110-113	Blue background ,illuminate adjustable . 100% green lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			114-117	Red background ,illuminate adjustable . 100% white lightness runs(1-7)
			118-121	Red background ,illuminate adjustable . 100% white lightness runs(7-1)
			122-125	Red background ,illuminate adjustable . 100% white lightness runs(1-7-1)
			126-129	Red background ,illuminate adjustable . 100% white lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			130-133	White background ,illuminate adjustable . 100% red lightness runs(1-7)
			134-137	White background ,illuminate adjustable . 100% red lightness runs(7-1)
			138-141	White background ,illuminate adjustable . 100% red lightness runs(1-7-1)
			142-145	White background ,illuminate adjustable . 100% red lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			146-149	Green background ,illuminate adjustable . 100% white lightness runs(1-7)
			150-153	Green background ,illuminate adjustable . 100% white lightness runs(7-1)
			154-157	Green background ,illuminate adjustable . 100% white lightness runs(1-7-1)
			158-161	Green background ,illuminate adjustable . 100% white lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			162-165	Blue background ,illuminate adjustable . 100% white lightness runs(1-7)
			166-169	Blue background ,illuminate adjustable . 100% white lightness runs(7-1)
			170-173	Blue background ,illuminate adjustable . 100% white lightness runs(1-7-1)
			174-177	Blue background ,illuminate adjustable . 100% white lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			178-181	Green background ,illuminate adjustable . 100% red lightness runs(1-7)
			182-185	Green background ,illuminate adjustable . 100% red lightness runs(7-1)
			186-189	Green background ,illuminate adjustable . 100% red lightness runs(1-7-1)
			190-193	Green background ,illuminate adjustable . 100% red lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			194-197	Blue background ,illuminate adjustable . 100% red lightness runs(1-7)
			198-201	Blue background ,illuminate adjustable . 100% red lightness runs(7-1)
			202-205	Blue background ,illuminate adjustable . 100% red lightness runs(1-7-1)

SSP (25CH)	TOUR (30CH)	TR16 (37CH)	VALUE	FUNCTION
			206-209	Blue background ,illuminate adjustable . 100% red lightness runs(1-4,7-4),1&7 light up in the same time,gethering from 2 sides to the center in turn .when it is at 4,sperading from the center to the 2 sides.associated with CH4-CH10.
			210-215	disordered run
			216-221	(1,4,5)-(2,5,6)-(3,6,7)-(4,7,1)-(5,1,2)-(6,2,3)-(7,3,4)
			222-227	(1,2,5,6)-(2,3,6,7)-(3,4,7,1)-(4,5,1,2)-(5,6,2,3)-(6,7,3,4)-(7,1,4,5)
			228-230	1,2 circular ring
			231-233	1,2,3 circular ring
			234-236	1,2,3,4 circular ring
			237-239	1-3blue,4-7red
			240-242	1-3cyan,4-7orange
			243-245	1-3purple,4-7yellow
			246-248	1-3orange,4-7green
			249-251	1-3red,4-7purple
			252-254	1-3yellow,4-7blue
			255	1-3green,4-7purple
	CH.13	CH.20	0-255	AUTO SPEED ADJUSTMENT(SLOW TO FAST)
CH.10	CH.14	CH.21	0-255	ZOOM
CH.11	CH.15	CH.22	0-255	RED_Center
CH.12	CH.16	CH.23	0-255	GREEN_Center
CH.13	CH.17	CH.24	0-255	BLUE_Center
CH.14	CH.18	CH.25	0-255	WHITE_Center
CH.15	CH.19	CH.26	0-255	DIMMER_Center
				Effect of center STROBE
CH.16	CH.20	CH.27	0-9	NO FUNCTION
			10-99	STROBE FROM (SLOW TO FAST , 0-25Hz)
			100-109	NO FUNCTION
			110-179	LIGHTNING STROBE
			180-189	NO FUNCTION
			190-255	RANDOM STROBE
				Effect of center
	CH.21	CH.28	0-9	NO FUNCTION
			10-25	R+G
			26-41	R+B
			42-57	R+W
			58-73	G+B