

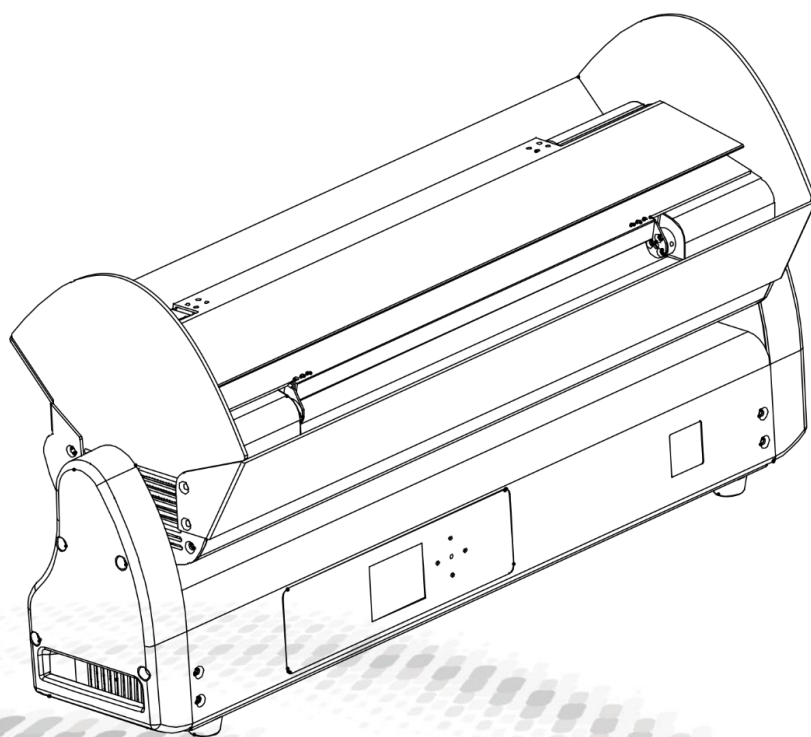


创意源于追求
Own Idea Of Lighting

S one-T USER MANUAL



S one-T
SS5481XCA



MODEL: SS5481XCA



Since 1985

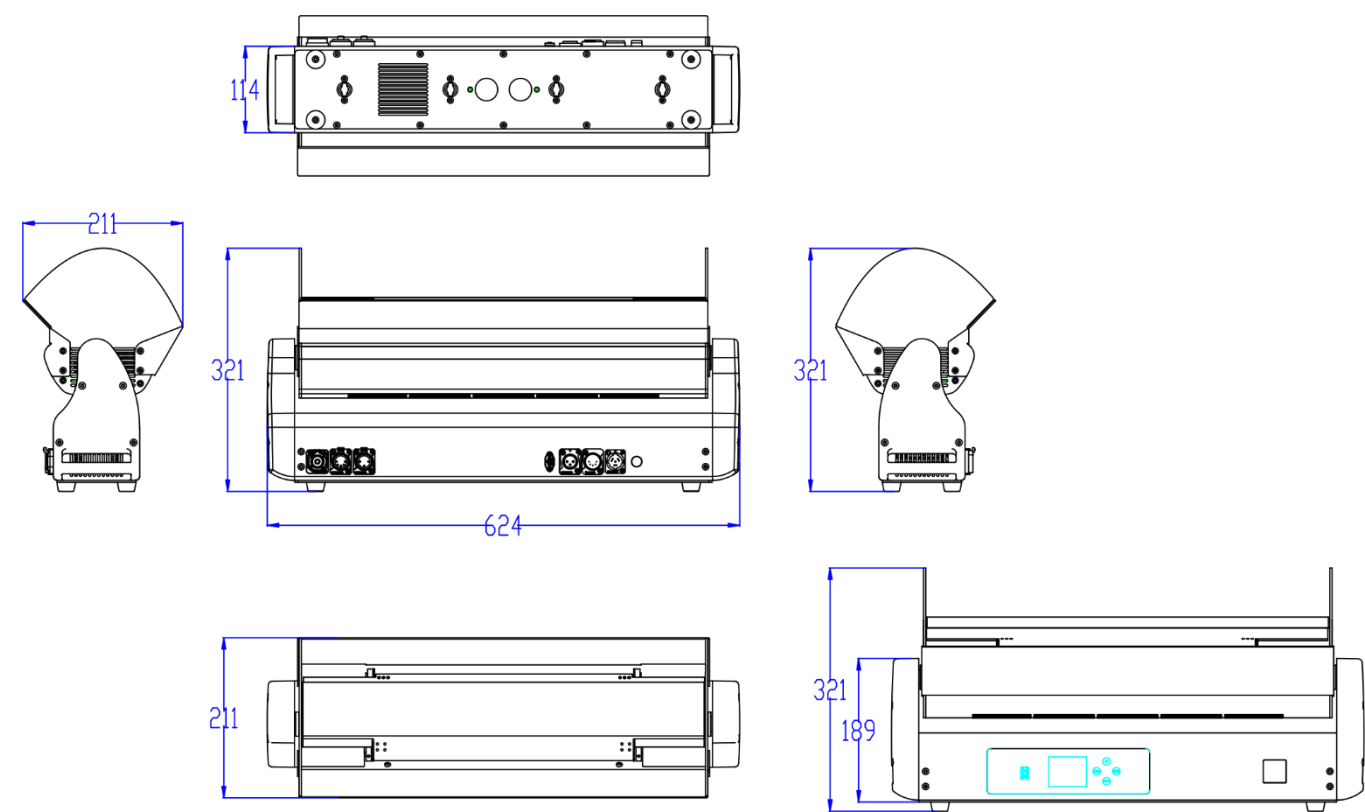
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1 PRODUCT

1.1 TECHNICAL SPECIFICATIONS

Type	SS5481XCA
LED colors	R*24pcs,G*24pcs,B*12pcs,W*24pcs,A*42pcs
Power	600W
Voltage Range	100-240V~,50/60Hz
Protection	IP20
Operation Temperature	0℃~45℃
Dimensions	624x211x321mm
Weight	13.5kg

DIMENSIONS



1.2 Safety Notes

IMPORTANT

- This product must be installed by a qualified professional.
- 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
- The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

CAUTION!

- Make sure that the available voltage is not higher than stated on the rear panel.
- Do not touch the power cables if your hands are wet.
- The earth wire must always be connected to the ground. Therefore it is essential to connect the yellow/green conductor to earth.
- Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time. The electric connection, repairs and servicing must be carried out by a qualified employee.
- Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.
- Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.
- Do not touch the device's housing bare hands during its operation (housing becomes hot)! The surface of the product's casing can reach up to 60 C (140F) during operation. Avoid contact by persons and materials. Do not install the product in a location where there is a risk of accidental contact. Allow the product to cool for at least 10 minutes before handling.
- For replacement use lamps and fuses of same type and rating only.
- Please protect the fixture and avoid destroy during transport and installation. If there is any damage to the coating, the shell may be corroded.
- When hanging lamps and lanterns, it is necessary to verify that facilities and hooks can bear at least 10 times the weight of lamps and lanterns.
- Fix the safety rope at the correct holes only. Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- The maximum ambient temperature 45°C must never be exceeded. Do not operate the product if the ambient temperature (Ta) exceeds 45° C (115° F).

Electrical Warning

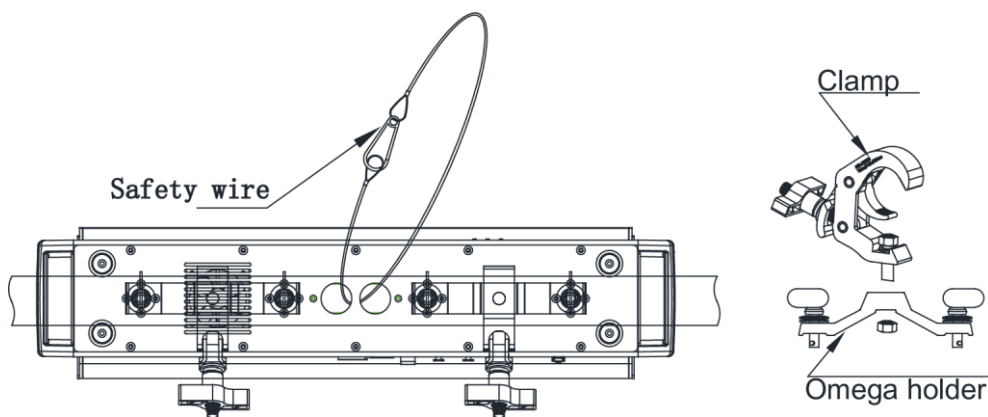
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person

2 INSTALLATION

2.1 MOUNTING

UPRIGHT

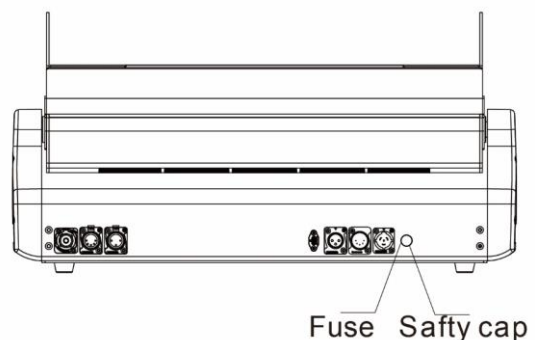
- ◆ Keep all combustible materials (e.g. fabric, wood, paper) at least 500 mm (20 in.) away from the product.
- ◆ For overhead use, always install a safety cable that can hold at least 10 times the weight of the fixture.
- ◆ For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture; Secure the fixture with a safety cable through the rear safety eye as shown.
- ◆ Ensure that the structure (truss) to which you are attaching the fixture is secure



Hanging layout

2.2 Fuse replacement

- ◆ Remove the safety cap by a screwdriver.
- ◆ Fetch the old fuse from safety cap.
- ◆ Install a new fuse.
- ◆ Install the safety cap.



2.3 POWER CONNECTIONS

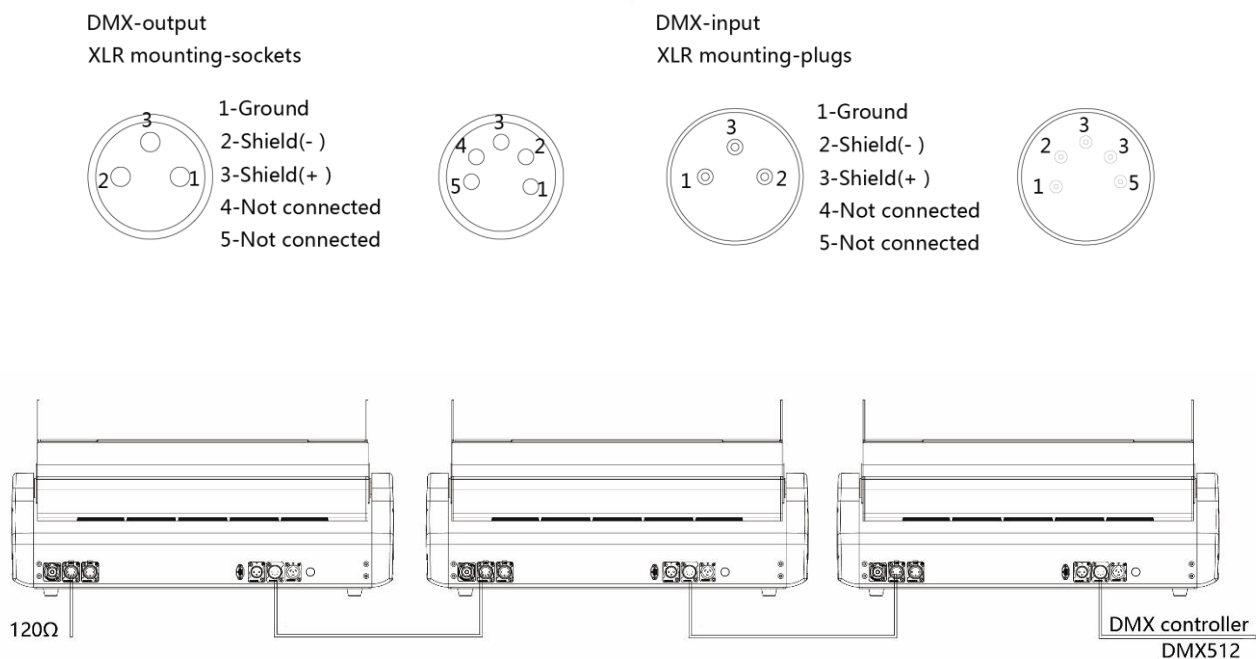
- ◆ POWER Linking: 1 units@110V; 3units@220V.
- ◆ This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz.

AC Plug

Connection	Wire (U.S.)	Wire(Europe)	Screw Color
AC Live	Black	Brown	Yellow/Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

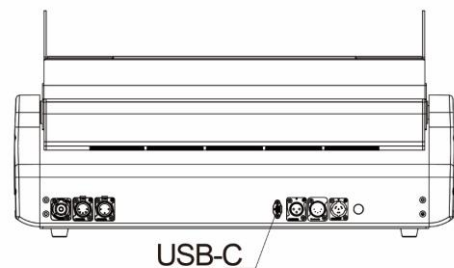
2.4 Data network requirements

- ◆ Connect the DMX512 controller to the units in series. A DMX 512 data link is required in order to control the fixture via DMX. The fixture has 3/5-pin XLR connectors for DMX data input and output.
- ◆ Each unit has N DMX channels so the DMX Addresses should increase by increments of 1, (Nx1)+1, (Nx2)+1, (Nx3)+1...
- ◆ Any DMX address in the range from 001 to 512 may be used.
- ◆ Connect the DMX-output of the first fixture in the DMX chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.
- ◆ Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (-) and Signal (+) into a 3/5-pin XLR-plug and plug it in the DMX-output of the last fixture.



2.5 Update software

- ◆ Steps of updating software with USB-C interface:
 1. Insert USB-C U dish into USB-C interface
 2. After finding "Upgrade Software" in the menu, Find the corresponding software and click OK



3 FUNCTIONS AND SETTINGS

3.1 DISPLAY OPERATION

- ◆ MENU: Used to access the menu or to return a previous menu option;
- ◆ ENTER: Used to select and store the current menu or confirm the current function value or option within a menu;
- ◆ UP: Navigates downwards through the menu list and increases the numeric value when in a function;
- ◆ DOWN: Navigates upwards through the menu list and decreases the numeric value when in a function;

3.2 Menu Map

STATIC	TILT	0-255	Manual control channel
	DIMMER	0-255	
	RED	0-255	
	GREEN	0-255	
	BLUE	0-255	
	WHITE	0-255	
	AMBER	0-255	
	BARNDOOR TOP	0-255	
	BARNDOOR DOW	0-255	
	STROBE	0-25	
	CCT	NONE	Preset color temperatures
		1800K	
		2200K	
		2700K	
		3000K	
		3200K	
		4000K	
		4500K	
		5000K	
		5600K	
		6000K	
		6500K	
		7000K	
		8000K	
		10000K	
	PRESET	COLOR 1	Preset colour (See Annex I for

	COLOR	COLOR 2			details)
		...			
		COLOR 48			
ADDRESS	001-512 (default001)				Set the DMX address
RUN MODE	DMX (default)				Using the DMX 512 controller to control
	SLAVE				Master--Slave operation
PERSON	HSIC				Use the menu to select desired channel mode
	SSP				
	TOUR (default)				
	TR16				
	CMY				
AUTO PROGRAM	AUTO 1	0-255			Selects automatic AUTO program and AUTO program speed. Programs [CUSTOM 1] to [CUSTOM 2] are fully pre-programmed and can be edited in [EDIT] mode.
	AUOT 2	0-255			
	...	0-255			
	AUTO 10	0-255			
	PR 1				
	PR 2				
EDIT	PROGRAM 1-2	SCENE 01-10	TILT	0-255	Edit the custom programs1-30 Select play 【EDIT 1】 in RUNMOEDE CUSTOM 1; Select play 【EDIT 2】 in RUNMOEDE CUSTOM 2
			DIMMER	0-255	
			RED	0-255	
			GREEN	0-255	
			BLUE	0-255	
			WHITE	0-255	
			AMBER	0-255	
			BARND DOOR TOP	0-255	
			BARND DOOR DOW	0-255	
			STROBE	0-25	
			CCT	0-255	
			PRESET COLOR	0-255	
			TIME	0-255	
			FADE	0-255	
	CLEAN EDIT1		YSE/NO		Clean edit scene
CLEAN EDIT2		YSE/NO			
SETTING	****	RESET	****	RESET	Restore factory settings
		UPLOAD	****	YES/NO	Upload setting data

		TILT INVERT	NORMAL (default)		TILT moving direction selection
			INVERT		
		BLACKOUT	OFF (default)		Select OFF blackout without delay
			ON		
		TILT ENCODER	OFF		Tilt encoder switch. OFF is close; ON is open.
			ON (default)		
		MOTOR RESET	NO (default)		Select Yes/No to carry out motor reset
			YES		
		DIMMER	HALOGEN (default)		Dimming speed slow
			LED		Dimming speed fast
		DIMMER CURVE	LINEAR		Dimmer curves selection
			SQUARE LAW (default)		
			INV. SQUARE LAW		
			S-CURVE		
		Tungsten Fade	ON		Tungsten Fade
			OFF (default)		
		DMX ERROR	SAVE (default)		Hold after loss of DMX signal
			BLACK		Blackout after loss of DMX signal
			STATIC		Static after loss of DMX signal
		LED PWM	1200 Hz (default)		Sets the PWM frequency
			2400 Hz		
			4000 Hz		
			6000 Hz		
			25000 Hz		
			40000 Hz		
		PERFORM	STUDIO		Fan mode low speed
			POWER		Fast rotation of fan, all power
			LIVE (default)		Automatic rotation of fan
		DISP KEY	ON (default)		Locks display (passcode is <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>)
			OFF		
		DISP TIME	ON		Display backlight always on
			30s (default)		Turns off display backlight after 30s/1min /2min of inactivity
			1min		
			2min		
		Color Cali	OFF		Full power mode
			User Calibration	RED 0-255	Manual calibration mode
				GREEN 0-255	
				BLUE 0-255	

				WHITE 0-255	
				AMBER 0-255	
			Factory Calibration		Factory calibration mode
		SERVICE	****	TILT ±127	Tilt position fine adjustment
				BARNDOOR TOP ±127	Barndoor position fine adjustment
				BARNDOOR DOW ±127	Barndoor position fine adjustment
		LANGUAGE	****	Chinese	Language select
				ENGLISH	
		POWER RESET	OFF	The motor does not reset when powered on	
				ON（default）	
INFO	FIXTURE HOURS				Hours of fixture use
	TEMPERATURE				LED temperature
	VERSION				Software versions
	RDM	UID	0x388Axxxxxxxx		Check fixture's ID
		LABEL			Check fixture's LABEL
	SYSTEM ERROR	MEMORY IC			Memory IC
		ANGLESENSOR			Angle Sensor
		TILT SENSOR			Tilt Sensor
		TILT ENCODER			Tilt Encoder
		TILT DRIVEIC			Tilt Drive IC
		TEMPERATURE			Temperature
UPGRADE FIRMWARE				USB-C Update software	
All passwords of this product are <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>					

4 USING A DMX512 CONTROLLER

4.1 DMX CONTROL

SSP (10CH)	TOUR (19CH)	TR16 (26CH)	Value	Function
1	1	1	0-255	TILT
	2	2	0-255	TILT FINE
	3	3	0-255	TILT MOVEMENT SPEED
2	4	4	0-255	DIMMER
	5	5	0-255	DIMMER FINE
3	6	6	0-255	RED
	-	7	0-255	RED FINE
4	7	8	0-255	GREEN
	-	9	0-255	GREEN FINE
5	8	10	0-255	BLUE
	-	11	0-255	BLUE FINE
6	9	12	0-255	WHITE
	-	13	0-255	WHITE FINE
7	10	14	0-255	AMBER
	-	15	0-255	AMBER FINE
	11	16	PRESET COLOR	
			0-10	NO FUNCTION
			11-255	PRESET COLOR (See Annex I for details)
	12	17	CCT	
			0-9	NO FUNCTION
			10	1800K
			25	2200K
			40	2700K
			55	3000K
			70	3200K
			85	4000K
			100	4500K
			115	5000K
			130	5600K
			145	6000K
			160	6500K
			175	7000K
			190	8000K
			205	10000K

			255	10000K
	13	18	GN saturation	
			0-10	NO FUNCTION
			11-29	FULL MINUS GREEN
			30-69	-99% → -1%
			70-129	NO FUNCTION
			130-189	1% → 99%
			190-255	FULL PLUS GREEN
	14	19	AUTO	
			0-40	NO FUNCTION
			41-50	AUTO1
			51-60	AUTO2
			61-70	AUTO3
			71-80	AUTO4
			81-90	AUTO5
			91-100	AUTO6
			101-110	AUTO7
			111-120	AUTO8
			121-130	AUTO9
			131-140	AUTO10
			141-150	CUSTOM1
			151-160	CUSTOM2
			161-255	NO FUNCTION
	15	20	0-255	AUTO SPEED ADJUSTMENT
8	16	21	STROBE	
			0-9	NO FUNCTION
			10-99	STROBE FROM (SLOD TO FAST, 0-25Hz)
			100-109	NO FUNCTION
			110-179	LIGHTNING STROBE
			180-189	NO FUNCTION
			190-255	RANDOM STROBE
9	17	22	0-255	BARNDOR TOP
		23	0-255	BARNDOR TOP FINE
10	18	24	0-255	BARNDOR BOTTOM
		25	0-255	BARNDOR BOTTOM FINE
	19	26	CONTROL (EXECUTE AFTER 3 SECONDS)	
			0-10	NO FUNCTION
			11-20	TILT BLACK ACTIVATED
			21-30	TILT BLACK DEACTIVATED

			31-40	RESERVED
			41-50	TILT INVERT
			51-60	TILT INVERT OFF
			61-70	STUDIO
			71-80	POWER
			81-90	LIVE
			91-100	DIMMER SPEED OFF
			101-110	DIMMER SPEED HALOGEN
			111-120	LINEAR
			121-130	SQUARE LAW
			131-140	INV. SQUARE LAW
			141-150	S-CURVE
			151-160	1200Hz
			161-170	2400Hz
			171-180	4000Hz
			181-190	6000Hz
			191-200	25000Hz
			201-210	ALL RESET
			211-220	TILT RESET
			221-230	Power on motor reset
			231-240	Power off motor reset
			241-255	RESERVED

HSIC (14CH)		
Channel	Value	Function
1	0-255	TILT
2	0-255	TILT FINE
3	0-255	TILT MOVEMENT SPEED
4	0-255	INTENSIYT
5	0-255	HUE
6	0-255	HUE FINE
7	0-255	SATURATION
8	PRESET COLOR	
	0-10	NO FUNCTION
	11-255	PRESET COLOR
9	CCT	
	0-9	NO FUNCTION
	10	1800K
	25	2200K
	40	2700K

	55	3000K
	70	3200K
	85	4000K
	100	4500K
	115	5000K
	130	5600K
	145	6000K
	160	6500K
	175	7000K
	190	8000K
	205	10000K
	255	10000K
10	GN saturation	
	0-10	NO FUNCTION
	11-29	FULL MINUS GREEN
	30-69	-99% → -1%
	70-129	NO FUNCTION
	130-189	1% → 99%
	190-255	FULL PLUS GREEN
11	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
12	0-255	BARNDORF TOP
13	0-255	BARNDORF BOTTOM
14	CONTROL (EXECUTE AFTER 3 SECONDS)	
	0-10	NO FUNCTION
	11-20	TILT BLACK ACTIVATED
	21-30	TILT BLACK DEACTIVATED
	31-40	RESERVED
	41-50	TILT INVERT
	51-60	TILT INVERT OFF
	61-70	STUDIO
	71-80	POWER
	81-90	LIVE
	91-100	DIMMER SPEED OFF

	101-110	DIMMER SPEED HALOGEN
	111-120	LINEAR
	121-130	SQUARE LAW
	131-140	INV. SQUARE LAW
	141-150	S-CURVE
	151-160	1200Hz
	161-170	2400Hz
	171-180	4000Hz
	181-190	6000Hz
	191-200	25000Hz
	201-210	ALL RESET
	211-220	TILT RESET
	221-230	Power on motor reset
	231-240	Power off motor reset
	241-255	RESERVED

CMY (16CH)		
Channel	Value	Function
1	0-255	TILT
2	0-255	TILT FINE
3	0-255	TILT MOVEMENT SPEED
4	0-255	DIMMER
5	0-255	CYAN
6	0-255	MAGENT
7	0-255	YELLOW
8	PRESET COLOR	
	0-10	NO FUNCTION
	11-255	PRESET COLOR
9	CCT	
	0-9	NO FUNCTION
	10	1800K
	25	2200K
	40	2700K
	55	3000K
	70	3200K
	85	4000K
	100	4500K
	115	5000K
	130	5600K
	145	6000K

	160	6500K
	175	7000K
	190	8000K
	205	10000K
	255	10000K
10	GN saturation	
	0-10	NO FUNCTION
	11-29	FULL MINUS GREEN
	30-69	-99% → -1%
	70-129	NO FUNCTION
	130-189	1% → 99%
	190-255	FULL PLUS GREEN
11	AUTO	
	0-40	NO FUNCTION
	41-50	AUTO1
	51-60	AUTO2
	61-70	AUTO3
	71-80	AUTO4
	81-90	AUTO5
	91-100	AUTO6
	101-110	AUTO7
	111-120	AUTO8
	121-130	AUTO9
	131-140	AUTO10
	141-150	CUSTOM1
	151-160	CUSTOM2
	161-255	NO FUNCTION
12	0-255	AUTO SPEED ADJUSTMENT
13	Effect of center STROBE	
	0-9	NO FUNCTION
	10-99	STROBE FROM (SLOD TO FAST, 0-25Hz)
	100-109	NO FUNCTION
	110-179	LIGHTNING STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
14	0-255	BARNDOR TOP
15	0-255	BARNDOR BOTTOM
16	CONTROL (EXECUTE AFTER 3 SECONDS)	
	0-10	NO FUNCTION

	11-20	TILT BLACK ACTIVATED
	21-30	TILT BLACK DEACTIVATED
	31-40	RESERVED
	41-50	TILT INVERT
	51-60	TILT INVERT OFF
	61-70	STUDIO
	71-80	POWER
	81-90	LIVE
	91-100	DIMMER SPEED OFF
	101-110	DIMMER SPEED HALOGEN
	111-120	LINEAR
	121-130	SQUARE LAW
	131-140	INV. SQUARE LAW
	141-150	S-CURVE
	151-160	1200Hz
	161-170	2400Hz
	171-180	4000Hz
	181-190	6000Hz
	191-200	25000Hz
	201-210	ALL RESET
	211-220	TILT RESET
	221-230	Power on motor reset
	231-240	Power off motor reset
	241-255	RESERVED

Annex 1

PRESET COLOR	Value	Color Names		x	y
	0-10	NO FUNCTION			
COLOR 1	11-15	L176	Loving Amber	0.407	0.321
COLOR 2	16-20	R40	Light Salmon	0.499	0.321
COLOR 3	21-25	L24	Scarlet	0.561	0.296
COLOR 4	26-30	L164	Flame Red	0.659	0.302
COLOR 5	31-35	L747	Easy White	0.389	0.344
COLOR 6	36-40	R303	Warm Peach	0.448	0.353
COLOR 7	41-45	L08	Dark Salmon	0.498	0.347
COLOR 8	46-50	L25	Sunset Red	0.566	0.359
COLOR 9	51-55	L04	Medium Bastard Amber	0.37	0.335
COLOR 10	56-60	L237	CID(To Tungsten)	0.43	0.365
COLOR 11	61-65	R321	Soft Golden Amber	0.477	0.406
COLOR 12	66-70	L652	Urban Sodium	0.535	0.399
COLOR 13	71-75	L212	LCT Yellow(Y1)	0.34	0.363
COLOR 14	76-80	L765	LEE Yellow	0.389	0.412
COLOR 15	81-85	L513	Ice And A Slice	0.38	0.447
COLOR 16	86-90	L100	Spring Yellow	0.41	0.502
COLOR 17	91-95	L244	LEE Plus Green	0.324	0.388
COLOR 18	96-100	R4430	CalColor 30 Green	0.318	0.44
COLOR 19	101-105	L122	Fern Green	0.234	0.543
COLOR 20	106-110	L90	Dark Yellow Green	0.184	0.641
COLOR 21	111-115	L243	LEE Fluorescent3600K	0.286	0.37
COLOR 22	116-120	R92	Tuquoise	0.235	0.36
COLOR 23	121-125	R94	Kelly Green	0.185	0.459
COLOR 24	126-130	L327	Forest Green	0.162	0.496
COLOR 25	131-135	L191	Cosmetic Aqua Blue	0.3	0.318
COLOR 26	136-140	L728	Steel Green	0.256	0.302
COLOR 27	141-145	L117	Steel Blue	0.223	0.278
COLOR 28	146-150	L354	Special Steel Blue	0.173	0.265
COLOR 29	151-155	L53	Paler Lavender	0.284	0.284
COLOR 30	156-160	L501	New Colour Blue	0.246	0.249
COLOR 31	161-165	L174	Dark Steel Blue	0.204	0.205
COLOR 32	166-170	L165	Daylight Blue	0.159	0.158
COLOR 33	171-175	L136	Pale Lavender	0.288	0.254
COLOR 34	176-180	L194	Surprise Pink	0.24	0.183
COLOR 35	181-185	L142	Pale Violet	0.209	0.148
COLOR 36	186-190	L700	Perfect Lavender	0.177	0.07
COLOR 37	191-195	L35	Light Pink	0.335	0.289
COLOR 38	196-200	L794	Pretty'n Pink	0.335	0.251
COLOR 39	201-205	L328	Follies Pink	0.335	0.18
COLOR 40	206-210	L795	Magical Magenta	0.327	0.138
COLOR 41	211-215	L154	Pale Rose	0.35	0.318
COLOR 42	216-220	L127	Smokey Pink	0.397	0.265
COLOR 43	221-225	L192	Flesh Pink	0.41	0.237
COLOR 44	226-230	L332	Special Rose Pink	0.465	0.193
COLOR 45	231-235	L790	Moroccan Pink	0.378	0.324
COLOR 46	236-240	L157	Pink	0.457	0.272
COLOR 47	241-245	R332	Cherry Rose	0.489	0.295
COLOR 48	246-250	L128	Cool LED Bright Pink	0.57	0.263
	251-255	NO FUNCTION			