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Own Idea Of Lighting

# Neo CYC IP USER MANUAL



**MODEL: SS361XALM**

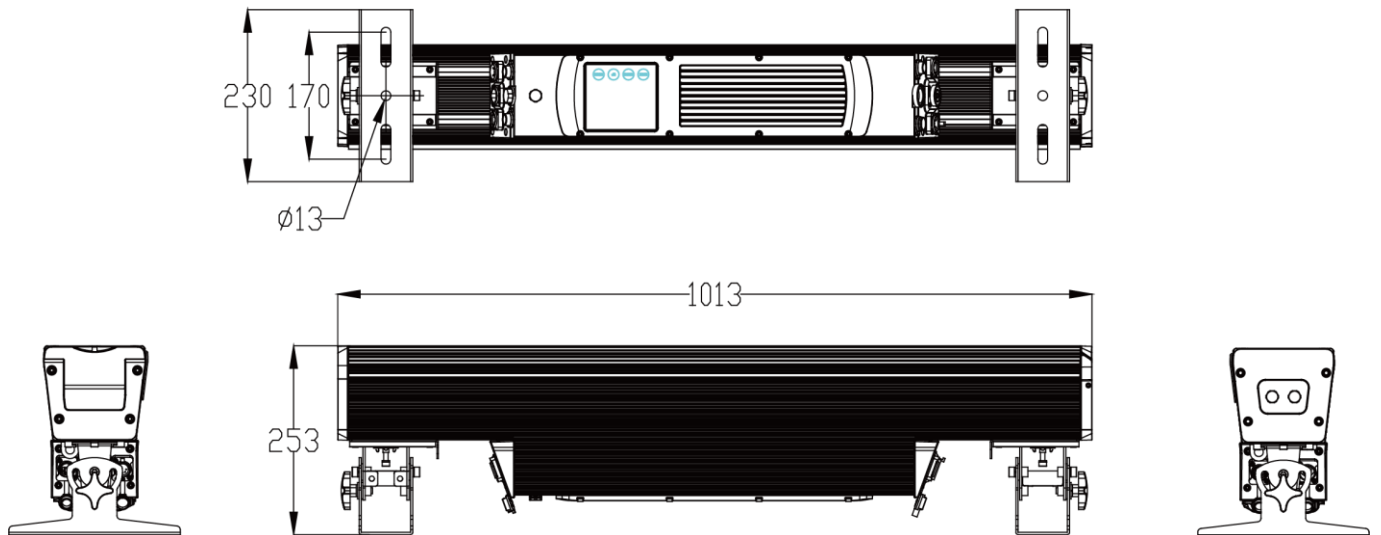


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# 1 PRODUCT

## 1.1 TECHNICAL SPECIFICATIONS

Type	SS361XALM
LED colors	Red/Green/Blue/Amber/Lime
Power	320W
Voltage Range	AC100~240V,50/60Hz
Protection	IP65
Operation Temperature	-20°C~45°C
Dimensions	1013X230X250mm
Weight	18kg



## 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 70° C (158° F) 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**

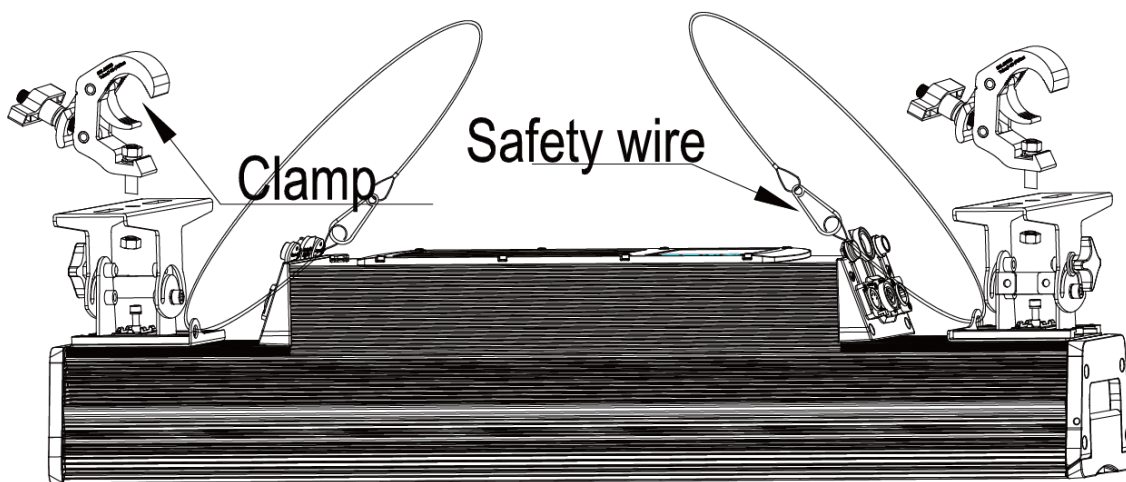
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person

# 2 INSTALLATION

## 2.1 MOUNTING

### UPRIGHT

- ◆ 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 POWER CONNECTIONS

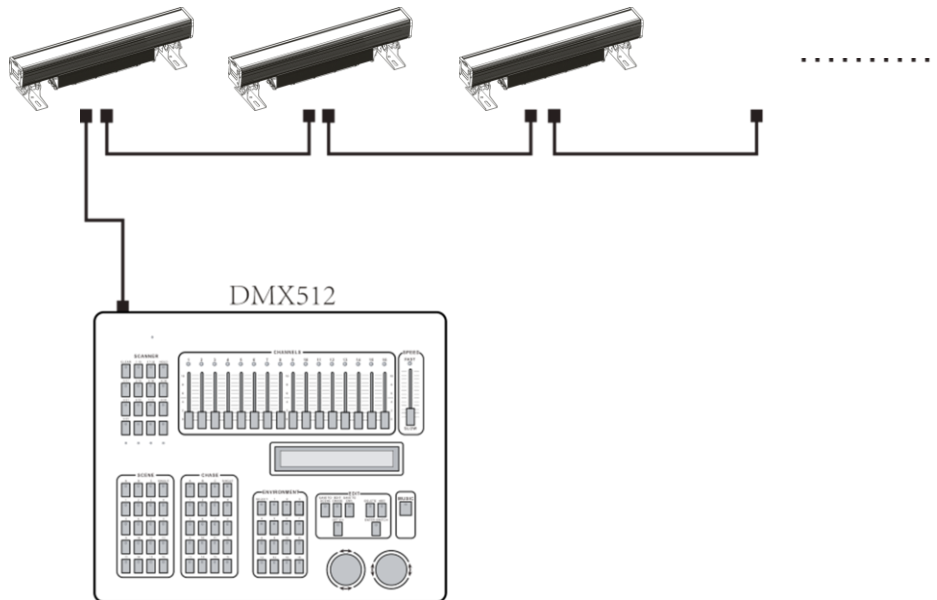
- ◆ POWER Linking: 2 units@110V; 4 units@220V.
- ◆ This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz.

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

## 2.3 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 13 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.








# 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	STATIC	RED	0-255		Combine [RED],[GREEN],[BLUE],[AMBER] [LIME]to create an infinite range of colors(0-255). Set the value of the [STROBE](0-25Hz).
		GREEN	0-255		
		BLUE	0-255		
		AMBER	0-255		
		LIME	0-255		
		STROBE	0-25		
 ADDRESS	ADDRESS	001-512 ( default001 )			Set the DMX ADDRESS
	 RUN	RUN MODE	DMX512 ( default )		
ARTNET					
ARTNET TO DMX					
SACN					
SLAVE			Master--Slave operation		
 RUN	PERSON	HSIC			Use the menu to select desired channel mode
		SSP			
		TOUR ( default )			
		TR16			
		PIXEL.1			
		PIXEL.2			
		PIXEL.3			
 PROGRAM	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	PROGRA M 1-2	SCENE	RED	0-255
01-10			GREEN	0-255	

				BLUE	0-255	[PROGRAM2].	
				AMBER	0-255	Each custom program has 10 scenes that can be edited.	
				LIME	0-255		
				STROBE	0-25	Fade transition time, time 0-255 unit is second, fade time setting should be less than time setting.	
				TIME	0-255		
				FADE	0-255		
		UPLOAD	****	SEND		Select <b>[UPLOAD]</b> to upload the custom programs	
SETTING	****	RESET	****	RESET		Restore factory settings	
		DIMMER	DIM4 (default)		Dimming curves <b>DIM1</b> (fast) to <b>DIM4</b> (slow);		
			OFF				
		DMX	SAVE (default)		Hold after loss of DMX signal		
		ERROR	BLACK		Blackout after loss of DMX signal		
		CELL ORDER	LEFT to RIGHT		Cell order		
			RIGHT to LEFT				
		PWM RATE	1200HZ (default)		Sets the PWM frequency		
			2400HZ				
			4000HZ				
			6000HZ				
			25000HZ				
		DISP KEY	ON (default)		Locks display (passcode is <UP>, <DOWN>, <UP>, <DOWN>, <ENTER>)		
			OFF				
		DISP TIME	ON		Display backlight always on		
			10s		Turns off display backlight after 10s/30s /2min of inactivity		
			30s (default)				
			2min				
		NETWORK	NET SWITCH	OFF	Net switch off IP mode		
				ON	Net switch on IP mode		
			UNIVERS	0-255	Packet group Settings		
			IP MODE	DEFAULT IP		Default IP	
				CUSTOM IP		Customer's IP	
			CUSTOM IP XXX.XXX.XXX.XXX		Customer's IP setting		
CCT	1800K		Preset color temperatures				
	2200K						
	2700K						
	3000K						
	3200K						
	4000K						



SETTING



		4500K			
		5000K			
		5600K			
		6000K			
		6500K			
		7000K			
		8000K			
		10000K			
	PRESET COLOR	COLOR 1	Preset colour (See Annex I for details)		
		COLOR 2			
		...			
		COLOR 48			
	INFO	FIXTURE HOURS	Hours of fixture use		
		VERSION	Software versions		
		NETWORK	Check network parameter		
		RDM	UID	0x388Axxxxxxx	Check fixture's ID
			LABEL	Neo CYC IP	Check fixture's LABEL

All passwords of this product are <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>)

# 4 USING A DMX512 CONTROLLER

## 4.1 DMX CONTROL

HSIC (7CH)	Value	Function
CH.1	0-255	INTENSIYT
CH.2	0-255	HUE
CH.3	0-255	HUE FINE
CH.4	0-255	SATURATION
CH.5	<b>CCT</b>	
	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	
CH.6	<b>STROBE</b>	
	0-9	NO FUNCTION
	10-99	STROBE FROM SLOD TO FAST (0-25Hz)
	100-109	NO FUNCTION
	110-179	THUNDER STROBE
	180-189	NO FUNCTION
	190-255	RANDOM SROBE
CH.7	<b>CONTROL (EXECUTE AFTER 3 SECONDS)</b>	
	0-10	NO FUNCTION
	11-80	RESERVED
	81-90	CELL ORDER LEFT to RIGHT
	91-100	CELL ORDER RIGHT to LEFT
	101-110	DIMMER OFF
	111-120	DIMMER DIM4
	121-150	RESERVED
	151-160	1200Hz
	161-170	2400Hz
	171-180	4000Hz

	181-190	6000Hz
	191-200	25000Hz
	201-210	ALL RESET
	211-255	RESERVED

SSP (8CH)	TOUR (13CH)	TR16 (19CH)	Value	Function
CH.1	CH.1	CH.1	0-255	MASTER DIMMER
--	--	CH.2	0-255	MASTER DIMMER FINE
CH.2	CH.2	CH.3	0-255	RED
--	--	CH.4	0-255	RED FINE
CH.3	CH.3	CH.5	0-255	GREEN
--	--	CH.6	0-255	GREEN FINE
CH.4	CH.4	CH.7	0-255	BLUE
--	--	CH.8	0-255	BLUE FINE
CH.5	CH.5	CH.9	0-255	AMBER
--		CH.10	0-255	AMBER FINE
CH.6	CH.6	CH.11	0-255	LIME
--	--	CH.12	0-255	LIME FINE
--	CH.7	CH.13	<b>PRESET COLOR</b>	
			0-10	NO FUNCTION
			11-255	PRESET COLOR (See Annex I for details)
--	CH.8	CH.14	<b>CCT</b>	
			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			
CH.7	CH.9	CH.15	<b>STROBE</b>	
			0-9	NO FUNCTION
			10-99	STROBE FROM SLOD TO FAST (0-25Hz)
			100-109	NO FUNCTION
			110-179	THUNDER STROBE
			180-189	NO FUNCTION

			190-255	RANDOM SROBE
			<b>STATIC PIXEL</b>	
			0-9	NO FUNCTION
			10-15	1
			16-21	1,4
			22-27	1,5
			28-33	1,6
			34-39	1,7
			40-45	1,4,7,10
			46-51	1,3,5,7,9,11
			52-57	2,4,6,8,10,12
			58-63	1,2
			64-69	1,2,3
			70-75	1,2,3,4
			76-85	ALL LED OUT
			86-90	1
			91-95	2
			96-100	3
			101-105	4
			106-110	5
			111-115	6
			116-120	7
			121-125	8
			126-130	9
			131-135	10
			136-140	11
			141-145	12
			146-150	1,2
			151-155	3,4
			156-160	5,6
			161-165	7,8
			166-170	9,10
			171-175	11,12
			176-180	1,3
			181-185	2,4
			186-190	5,7
			191-195	6,8
			196-200	9,11
			201-205	10,12
			206-210	1,2,3
			211-215	4,5,6
			216-220	7,8,9
			221-225	10,11,12
			226-230	1,2,3,4
			231-235	5,6,7,8
--	CH.10	CH.16		

			236-240	9,10,11,12
			241-245	1,2,3,4,5,6
			246-250	7,8,9,10,11,12
			251-255	ALL LED OUT
--	CH.11	CH.17	<b>PIXEL EFFECT</b> (associated with CH1-CH8)	
			0-9	NO FUNCTION
			10-13	1-12 Single light cycling operation
			14-17	12-1 Single light cycling operation
			18-21	1-12-1 Single light cycling operation
			22-25	1-6 ,12-7 Gathering from 2 sides to the center in turn
			26-29	1-12 Gradient
			30-33	12-1 Gradient
			34-37	1-12 Single 2700k cycling operation
			38-41	12-1 Single 2700k cycling operation
			42-45	1-12-1 Single 2700k cycling operation
			46-49	1-6 ,12-7 2700K gathering from 2 sides to the center in turn
			50-53	1-12 Single 6000k cycling operation
			54-57	12-1 Single 6000k cycling operation
			58-61	1-12-1 Single 6000k cycling operation
			62-65	1-6 ,12-7 6000K gathering from 2 sides to the center in turn
			66-69	Red background, 1-12 100% green lightness runs
			70-73	Red background, 12-1 100% green lightness runs
			74-77	Red background, 1-12-1 100% green lightness runs
			78-81	Red background, 1-6,12-7 100% green lightness runs
			82-85	Green background, 1-12 100% blue lightness runs
			86-89	Green background, 12-1 100% blue lightness runs
			90-93	Green background, 1-12-1 100% blue lightness runs
			94-97	Green background, 1-6,12-7 100% blue lightness runs
			98-101	Blue background, 1-12 100% green lightness runs
			102-105	Blue background, 12-1 100% green lightness runs
			106-109	Blue background, 1-12-1 100% green lightness runs
			110-113	Blue background, 1-6,12-7 100% green lightness runs
			114-117	Amber background, 1-12 100% red lightness runs
			118-121	Amber background, 12-1 100% red lightness runs
			122-125	Amber background, 1-12-1 100% red lightness runs
			126-129	Amber background, 1-6,12-7 100% red lightness runs
			130-133	Lime background, 1-12 100% red lightness runs
			134-137	Lime background, 12-1 100% red lightness runs
138-141	Lime background, 1-12-1 100% red lightness runs			
142-145	Lime background, 1-6,12-7 100% red lightness runs			
146-149	Green background, 1-12 100% blue lightness runs			
150-153	Green background, 12-1 100% blue lightness runs			
154-157	Green background, 1-12-1 100% blue lightness runs			
158-161	Green background, 1-6,12-7 100% blue lightness runs			
162-165	Blue background, 1-12 100% green lightness runs			

			166-169	Blue background, 12-1 100% green lightness runs
			170-173	Blue background, 1-12-1 100% green lightness runs
			174-177	Blue background, 1-6,12-7 100% green lightness runs
			178-181	Green background, 1-12 100% red lightness runs
			182-185	Green background, 12-1 100% red lightness runs
			186-189	Green background, 1-12-1 100% red lightness runs
			190-193	Green background, 1-6,12-7 100% red lightness runs
			194-197	Blue background, 1-12 100% red lightness runs
			198-201	Blue background, 12-1 100% red lightness runs
			202-205	Blue background, 1-12-1 100% red lightness runs
			206-209	Blue background, 1-6,12-7 100% red lightness runs
			210-212	(1,2)-(3,4)-(5,6)-(7,8)-(9,10),(11,12)
			213-215	(1,2,3)-(4,5,6)-(7,8,9)-(10,11,12)
			216-218	(1,2,3,4)-(5,6,7,8)-(9,10,11,12)
			219-221	(12,11)-(10,9)-(8,7)-(6,5)-(4,3),(2,1)
			222-224	(12,11,10)-(9,8,7)-(6,5,4,)-(3,2,1)
			225-227	(12,11,10,9)-(8,7,6,5)-(4,3,2,1)
			228-230	1,2from left to right , 11,12from right to left
			231-233	1,2,3from left to right , 10,11,12from right to left
			234-236	1,2,3,4form left to right , 9,10,11,12from right to left
			237-239	1-6red , 7-12blue
			240-242	1-6orange , 7-12cyan
			243-245	1-6yellow , 7-12purple
			246-248	1-6green , 7-12orange
			249-251	1-6purple , 7-12red
			252-254	1-6blue , 7-12yellow
			255	1-6purple , 7-12green
--	CH.12	CH.18	0-255	AUTO SPEED ADJUSTMENT
CH.8	CH.13	CH.19	<b>CONTROL</b> (EXECUTE AFTER 3 SECONDS)	
			000-010	NO FUNCTION
			011-100	RESERVED
			101-110	DIMMER OFF
			111-120	DIMMER DIM4
			121-150	RESERVED
			151-160	1200Hz
			161-170	2400Hz
			171-180	4000Hz
			181-190	6000Hz
			191-200	25000Hz
			201-210	ALL RESET
			211-255	RESERVED

PIXEL.3 (60CH)	PIXEL.2 (63CH)	PIXEL.1 (39CH)	Value	Function
RGBAL	RGBAL	RGB		
--	CH.1	CH.1	0-255	DIMMER
--	CH.2	CH.2	<b>STROBE</b>	
			0-9	NO FUNCTION
			10-99	STROBE FROM SLOD TO FAST (0-25Hz)
			100-109	NO FUNCTION
			110-179	THUNDER STROBE
			180-189	NO FUNCTION
			190-255	RANDOM SROBE
CH.1	CH.3	CH.3	0-255	RED1
CH.2	CH.4	CH.4	0-255	GREEN1
CH.3	CH.5	CH.5	0-255	BLUE1
CH.4	CH.6	--	0-255	AMBER1
CH.5	CH.7	--	0-255	LIME1
CH.6	CH.8	CH.6	0-255	RED2
CH.7	CH.9	CH.7	0-255	GREEN2
CH.8	CH.10	CH.8	0-255	BLUE2
CH.9	CH.11	--	0-255	AMBER2
CH.10	CH.12	--	0-255	LIME2
CH.11	CH.13	CH.9	0-255	RED3
CH.12	CH.14	CH.10	0-255	GREEN3
CH.13	CH.15	CH.11	0-255	BLUE3
CH.14	CH.16	--	0-255	AMBER3
CH.15	CH.17	--	0-255	LIME3
CH.16	CH.18	CH.12	0-255	RED4
CH.17	CH.19	CH.13	0-255	GREEN4
CH.18	CH.20	CH.14	0-255	BLUE4
CH.19	CH.21	--	0-255	AMBER4
CH.20	CH.22	--	0-255	LIME4
CH.21	CH.23	CH.15	0-255	RED5
CH.22	CH.24	CH.16	0-255	GREEN5
CH.23	CH.25	CH.17	0-255	BLUE5
CH.24	CH.26	--	0-255	AMBER5
CH.25	CH.27	--	0-255	LIME5
CH.26	CH.28	CH.18	0-255	RED6
CH.27	CH.29	CH.19	0-255	GREEN6
CH.28	CH.30	CH.20	0-255	BLUE6
CH.29	CH.31	--	0-255	AMBER6
CH.30	CH.32	--	0-255	LIME6
CH.31	CH.33	CH.21	0-255	RED7
CH.32	CH.34	CH.22	0-255	GREEN7
CH.33	CH.35	CH.23	0-255	BLUE7
CH.34	CH.36	--	0-255	AMBER7

CH.35	CH.37	--	0-255	LIME7
CH.36	CH.38	CH.24	0-255	RED8
CH.37	CH.39	CH.25	0-255	GREEN8
CH.38	CH.40	CH.26	0-255	BLUE8
CH.39	CH.41	--	0-255	AMBER8
CH.40	CH.42	--	0-255	LIME8
CH.41	CH.43	CH.27	0-255	RED9
CH.42	CH.44	CH.28	0-255	GREEN9
CH.43	CH.45	CH.29	0-255	BLUE9
CH.44	CH.46	--	0-255	AMBER9
CH.45	CH.47	--	0-255	LIME9
CH.46	CH.48	CH.30	0-255	RED10
CH.47	CH.49	CH.31	0-255	GREEN10
CH.48	CH.50	CH.32	0-255	BLUE10
CH.49	CH.51	--	0-255	AMBER10
CH.50	CH.52	--	0-255	LIME10
CH.51	CH.53	CH.33	0-255	RED11
CH.52	CH.54	CH.34	0-255	GREEN11
CH.53	CH.55	CH.35	0-255	BLUE11
CH.54	CH.56	--	0-255	AMBER11
CH.55	CH.57	--	0-255	LIME11
CH.56	CH.58	CH.36	0-255	RED12
CH.57	CH.59	CH.37	0-255	GREEN12
CH.58	CH.60	CH.38	0-255	BLUE12
CH.59	CH.61	--	0-255	AMBER12
CH.60	CH.62	--	0-255	LIME12
--	CH.63	CH.39	<b>CONTROL</b> (EXECUTE AFTER 3 SECONDS)	
			000-010	NO FUNCTION
			011-080	RESERVED
			081-090	CELL ORDER LEFT to RIGHT
			091-100	CELL ORDER RIGHT to LEFT
			101-110	DIMMER OFF
			111-120	DIMMER DIM4
			121-150	RESERVED
			151-160	1200Hz
			161-170	2400Hz
			171-180	4000Hz
			181-190	6000Hz
			191-200	25000Hz
			201-210	ALL RESET
211-255	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	Tuiquoise	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			