Lites F200 C6 (COLOUR RGBACL)

Owners 's & Service manual



Read this manual totally and carefully follow all the instructions contained. File this manual for future use. It is essential to read all the information contained to ensure installation, service and full operation of the LitesF200 C6.

All operations must be accomplished, handled and carried out by qualified personnel only. Not complying with given notice will void warranty and will free manufufacturer from any liability/responsability

Unpacking

Unpack the carton and gently remove Lites F200 from the box. Ensure Lites F200 received is integer from origin in all its components. In the event the Lites F200 shows any damage, do not use it and contact immediately your transporter as well as your seller.

Items in the carton consist of:

- Lites F200 C6 luminaire
- Colour frame
- Blue Neutrik PowerCon connector
- This owner's and service manual

Safety information for the use of the Lites F200 as well as its periodical maintenance"

- Lites F200 is for professional use only and NEVER for domestic use therefore refrain from this latter utilisation.
- Users must scrupulously comply with information that follows, any other use in contrast will void warranty and will free the manufacturer of any sort of responsibility and liability.
- Never use Lites F200 on any flammable surfaces.
- Minimum distance from any flammable source is of 0.25m.
- Minimum throw distance from illuminated surface: 0.5m.
- Installation of the unit(s) must be secured with adequate clamps, safety cords, nuts and bolts to bear the weight of the whole unit(s)
- Always Power Lites F200 to safety circuit breakers. Lites F200 must NOTand CAN NOT be operated via Phase Control Dimmer.
- Install Lites F200 in ventilated ambient which temperature must not trespass 35°C
- Some outer parts of the LitesF200 can reach temperatures of up to 60C° when in operation.
- Lites F200 must be fitted with protection shields (Lenses)
- On no account, directly or indirectly, LED must be touched
- Always disconnet power, (always double check that power is off) before any Service/Operation of the unit.
- Lites F200 is rated Class I.
- Earth connection is MANDATORY!

An essential and periodically throughout cleaning of the Lites F200 is recommended. This practice avoids that layers of dust and other impurities jeopardise and reduce the correct operation of the unit. Lenses must be cleaned to remove layers of dust that may impede and or reduce the passage of the light through the lenses. The correct and periodically maintenance keeps also fans and vents clean to keep the LitesF200 in its best performance conditions. Never touch the Yellow core of the LED both directly or indirectly nor use solvents that can damage the LED irremediably. Protection shields if battered, must be replaced with new ones (Lenses)

CE APPROVALS

The Lites F200 products to which this manual refers to, complies with European directive pursuant to:

2014/35/EU safety of electrical equipment supplied at low voltage (LVD)

2014/30/EU Electromagnetic compatibility (EMC)

2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

WARRANTY

A 24-month warranty is granted on the LitesF200 from its purchase's date. Warranty covers fabrication defects only, unit will not be replaced but will be 100% fixed. Warranty is immediately voided if the Lites F200 has not been handled by qualified personnel. Any improper and unauthorised use, such modification(s) or misapplication of the unit will also void the warranty of the product(s). Silver colour label showing technical data and serial number, if removed or if data are impaired to render details illegible, will immediately void the warranty.

Technical specifications

Power Supply: 100/240V~ 50/60Hz (autosetting) Maximum power consumption 260W Stand-by power consumption 4W Cos Ø 0.98 Led LED Colour RGBACL: Red; green; blue; amber; cyan; lime 30 colored presets 10 Preset bianchi da 2.300°K a 10.000°k LED CRI: *Minimun CRI*: 93> and 98>(depending on the selected white) 10 white presets from 2,300 ° K to 10,000 ° k LED Life (30,000 manufacturer-specific hours) Fresnel Lens: Ø 150mm Colour frame dimensions: 195x185 mm (the use of standard 185x185mm colour frame is totally acccettable) Aluminium die-caste body to maximize heat dissipation -15°C + 35° C Operating temperature range: Maxium temperature on the Lites F200 +60°C Weight of the unit: Kg 6,9 Worm-gear beam adjustment on standard Lites200F Rear handle for good grip of unit; side-lock on mounting yoke to adjust and set unit to position. Beam angle: 20°-60° Working position: +90°/-90° on vertical axe Protection rating: IP 20 DMX 512, RDM, Protocols Neutrik powercon IN & OUT connectors Neutrik XRL5 IN & OUT signal connectors 4-digit display Manual operation via 4-digit display Idle fan mode for totally silent use of the unit. Adjustable LED frequency Selection of four LED dimming curves Compliant : $\mathbf{C}\mathbf{\epsilon}$ Dimensions: see figure



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Lites200F installation

Lites F200 is delivered with a robust yoke which hosts 3×12 mm mounting holes.

The use of an adequate G-clamp to sustain at least twice the weight of the Lites F200 (Lites200F weighs 6,9 kg) and/or M10 screw is mandatory. The use of safety chain(s) to sustain twice the weight of the Lites F200 is also mandatory, the safety chain adds more protections to users and third-parties. Eye-lid for the safety chain is provided on the Lites F200. (see Fig). The Lites F200 yoke revolves on 360° on the projector's axis. Lites F200 can be installed +-90° on the vertical axis. (see Fig.). Best Lites F200 's performances are achieved if unit is installed as shown in the illustrations that follows. (never install Lites F200 upsidedown, illustrations that follows show installation positions that must be avoided). Incorrect installation(s) can, immediately or in short/long terms, jeopardise the correct operaton of the Lites F200. Incorrect installations may voide the warranty of the unit.



AVOID INCORRECT INSTALLATIONS AS ILLUSTRATED



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Installations of the accessories

Lites F200 is delvered with a standard 195x185mm colour frame (standard colour frame 185x185 can als be used). The LED source used on LitesF200 allows the use of colour filters that cannot be used with high wattage tungstene lamps which would impair colour filters. Optional and standard 185x185 mm 4-leaf-barndoor can also be installed in the provided gates. Ensure that accessories when installed on the LitesF200 are securely fitted in the gates and that are triggered and secured by the spring-lock provided. (see figure)

Beam adustment

Lites F200 can revolve +-90° upwards and +- 90° donwwards on the axis of the luminaire. When correct position is set to position, secure it by tightneing the provided side knob. Beam adjusment is achieved via rear Helicoidal screw. Turn clockwise to narrow beam, conversely beam widens.



Connection to mains

WARNING ! Installation(s) must be accomplished, handled and carried out by qualified personnel only and must comply with all norms in force in the installation's country

Lites F200 is supplied with a free Blue Neutrik PowerCon plug that must be wired using a 3x1.5mm² lead , additional specifications include:

- Operating Voltage: 300/500V
- Test Voltage: 2KV
- Operating Temperature: -10°C / +100°C

Connect blue wire to N terminal, brown wire to L terminal and Yellow/Green wire to earth terminal. (see also illustration fig) Ensure connections to safety circuit breaker at all times. Daisy chain of up to maximum 8 units if connected to 230VAC. Daisy chain of up to maximum 4 units when connected to 110VAC. Maximum daisy chain length: 25m.

WARNING: LitesF200 CANNOT be powered by using an angle phase dimmer pack



Signal Control Connection

Lites F200 can be operated via either DMX512A and or RDM ready . For dasy chain connection use a -2×0.5 **mm²** size lead wire plus shield. Connect Pin 1 to ground, 2= data – while Pin 3 = data +. Pins 4 & 5 are not connected. Ensure that DMX wires and shield do not interfere, nor touch each other as well as they must not touch/interfere with the body of the unit . (DMX connectors are not provided)

Important note: when DMX is available a red dot will illuminate on the right hand of the display. When red dot is off no DMX signal is available.

WARNING ! Before powering Lites F200 ensure that all installation(s) procedure(s) have(s) been properly set and accomplished

XLR5 connection		FA FA
leads	description	
1	GND	
2	DMX-	
3	DMX+	
4	NC	
5	NC	

RDM – Remote Device Management

RDM Controller allows for remote standard operations

RDM default options include:

Discovery mode: RDM is engaged when controller incepts this mode, the device reports itself by giving a flash of light (Controller sets the device in a listing to read: settings, DMX address, personality settings, (Read all DMX mode including all DMX channels above)

ON/OFF "Identify": This mode is used to identify the manufacturer's device (Lites srl). It gives a flash of light from the LED

Model information (Lites F200 C6)

Software version information (Lites F200 C6 v.1.xx) Mode to reveal temperatures of the LED and of the driver

Mode to reveal hour-meters of the LED and of the device

The device allows RDM protocol, ANSI E1.20–010 version

	RDM Device Model ID					
5445:1214xxxx						
The following parameters ar	e allowed	:				
RDM RDM Denominazione Plasa/ESTA RDM Value Get Set Descrizione			Descrizione			
		CA		ORY – NETWORK MANAGMENT		
DISC UNIQUE BRANCH	0x0001			Message related to Discovery RDM process		
DISC MUTE	0x0002			Message related to Discovery RDM process		
DISC UN MUTE	0x0003			Message related to Discovery RDM process		
			ATE	GORY – RDM INFORMATION		
SUPPORTED PARAMETERS	0x0050	Х		List of allowed parameters		
PARAMETER DESCRIPTION 0x0051 X Parameters description Manufacturer specific						
	CATEGORY – PRODUCT INFORMATION					
DEVICE INFO 0x0060 X - Reading of following parameters: - Protcol RDM version - Device Model ID - Product category - sw version ID - number of DMX channels - DMX mode index - DMX address - DMX address			 Protcol RDM version Device Model ID Product category sw version ID number of DMX channels DMX mode index 			
DEVICE MODEL DESCRIPTION	0x0080	Х		Text description device model Lites F200 C6		
MANUFACTURER LABEL	0x0081	Х		Text description manufacturer LITES		
SOFTWARE VERSION LABEL	0x00C0	Х		Text description sw version Lites F200 C6 v.1.xx		
			CA	TEGORY – DMX512 SETUP		
DMX PERSONALITY	0x00E0	Х	X	DMX mode setting		

Denominazione Plasa/ESTA	RDM PID Value	Get	Set	Descrizione		
DMX PERSONALITY DESCRIPTION	0x00E1	Х		Text description DMX mode		
DMX START ADDRESS	0x00F0	Х		DMX address setting/reading		
				CATEGORY – SENSORS		
SENSOR DEFINITION	0x0200	Х		Value related to the sensor		
SENSOR VALUE	0x0201	Х	Х	Parameter for the visualisation of values read by [Board / Led Temperature °C]		
	CATEGO	RY –	DIM	MER SETTINGS (ADDITIONAL MESSAGES)		
CURVE	0x0343	Х	Х	Parameter for gamma correction (gamma) selection		
CURVE DESCRIPTION	0x0344	Х		Description of gamma correction parameter		
OUTPUT RESPONSE TIME	0x0345	Х	Х	Parameter related to output smoothness (smooth)		
OUTPUT RESPONSE TIME DESCRIPTION	0x0346	Х		Output smoothness parameter description		
MODULATION FREQUENCY	0x0347	Х	Х	Parameter related to the selection of pmw signal frequency		
MODULATION FREQUENCY DESCRIPTION	NCY 0x0348 X Description of parameter related to the selection of pmw signal frequen		Description of parameter related to the selection of pmw signal frequency			
		CAT	EGO	DRY – POWER/LAMP SETTINGS		
DEVICE HOURS	0x0400	Х		Parameter related to the reading of device lifespan		
LAMP HOURS	0x0401	Х		Parameter related to the reading of maximum value hours of led ignition [max between LED1LED6]		
				CATEGORY – CONTROL		
IDENTIFY DEVICE	0x1000	Х		Flashing LEDs to allow visual identification of the device		
	C	ATEG	ORY	- MANUFACTURER-SPECIFIC PIDs		
BOOST	0x9000	Х	Х	Read/Write BOOST value		
FAN MODE	0x9001	Х	Х	K Read/Write FAN MODE value		

RDM Parameters – Values

Name	Valid Values	Value Description					
	ADDITIONAL MESSAGES						
		Read / Write GAMMA value					
	1	1 = LINEAR					
CURVE	2	2 = QUADRATIC [DEF]					
	3	3 = S-CURVE					
	4	4 = GAMMA 2.2					
		Read / Write SMOOTH value					
	1	1 = SMOOTH 0 → FAST [250 ms]					
OUTPUT RESPONSE TIME	2	2 = SMOOTH 1 \rightarrow MEDIUM [450ms] [DEF]					
	3	3 = SMOOTH 2 \rightarrow SLOW [800 ms]					
	4	4 = SMOOTH 3 \rightarrow SUPER FAST [15 ms]					
		Read / Write PWM FREQUENCY value					
	1	1 = 1 kHz					
	2	2 = 2 kHz					
	3	3 = 3 kHz					
	4	4 = 4 kHz					
MODULATION FREQUENCY	5	5 = 5 Hz					
	6	6 = 6 kHz					
	7	7 = 7 kHz					
	8	8 = 8 kHz					
	9	9 = 9 kHz					
	10	10 = 10 kHz [DEF]					
	C	ATEGORY – MANUFACTURER-SPECIFIC PIDs					
		Read/Write BOOST value					
BOOST	0	0 = OFF [75%] [DEF]					
	1	1 = ON [90%]					
		Read/Write FAN MODE value					
	0	0 = AUTO					
FAN MODE	1	1 = MEDIUM HIGH [DEF]					
	2	2 = MEDIUM LOW					
	3	3 = LOW					

Projector mode settings

When Lites F200 is powered, setup-display will show the software release version The UP, DOWN, ENTER and ESC buttons will allow the operations of the Lites F200 menu. UP and DOWN buttons allow to scan menu options, ENTER button allow to select. The ESC button is to return to the previous menu or to quit the previous setting.



Menu items

Displayed Message	Allowed or displayed values	Function				
Addr	001512	Set	Up DMX Address			
	co01	Preset 1 red				
	co02	Preset 2 light red	It's possible to coloct 20 colored process and			
	co03	Preset 3 orange	It's possible to select 30 colored presets and			
	co04	Preset 4 medium amber	10 fixed white presets, without the aid of			
	co05	Preset 5 amber	the DMX 512 signal. By selecting the value			
	co06	Preset 6 straw tint	indicated from co01 to co40 you choose the combined color. When you turn off the			
	co07	Preset 7 pale yellow	projector the selected preset will be saved.			
	co08	Preset 8 spring yellow	In each preset you can change the output			
	co09	Preset 9 yellow	color level. Select the preset that needs to			
	co10	Preset 10 lemon yellow	be to be changed. If you press once the			
	co11	Preset 11 lime	Enter button, the display will show r (red)			
	co12	Preset 12 lime green	with the set value, then if you keep pressing			
	co13	Preset 13 green	Enter, G (green), b (blue), A (amber), c			
	co14	Preset 14 moss green	(cyan), L (lime), S (strobe), n (Rainbow), d			
	co15	Preset 15 light cyan	(dimmer) will be displayed one by one.			
	co16	Preset 16 cyan	Use the Up and Down button to adjust the			
	co17	Preset 17 peacock blue	level of the 6 colors + the 3 functions n			
	co18	Preset 18 summer blue	(raiwbow), S (strobe), d (dimmer), pressing			
	co19	Preset 19 bright blue	them one by one from 0 to 255, to			
	co20	Preset 20 light steel blue	determine the output color. Always confirm			
	co21	Preset 21 light blue	with Enter to save the settings.			
	co22	Preset 22 slate blue				
	co23 co24	Preset 23 blue				
	co25	Preset 24 deep lavender Preset 25 lavender				
Auto	co26	Preset 26 magenta				
(Automatic	co27	Preset 27 rose pink				
mode)		co28 Preset 28 dark pink				
mode)	co29	Preset 29 bright pink				
	co30	Preset 30 Rainbow				
	co31	Preset 31 white 2300°k				
	co32	Preset 32 white 2700°k				
	co33	Preset 33 white 3200°k				
	co34	Preset 34 white 4000°k				
	co35	Preset 35 white 5600°k				
	co36	Preset 36 white 6500°k				
	co37	Preset 37 white 7000°k				
	co38	Preset 38 white 8000°k				
	co39	Preset 39 white 9000°k				
	co40	Preset 40 white 10000°k				
			Automatic mode without DMX 512			
			Protocol signal.Program selections run			
			between Pr01 through Pr 04. Both			
			programs can be modified. To change			
	Pr01	Program 1: auto	program select Enter then view			
	Pr02	Program 2: auto	(Scn0Scn6; max scenes of each			
	Pr03	Program 3: auto	program). Clicking on enter once more it			
	Pr04	Program 4: auto	shows P.00.0 (time) followed by F.00.0			
			(speed) and ultimately the last view shows			
			1c.01 though c40 (colour to be assigned			
			to each scene) The use of UP/Down keys			
			allow for setting values. When selections			
			are completed press enter to confirm.			

		The Master Mode uses the same settings as the Auto Menu. The only			
		exception is that when all fixtures are connected to DMX 001 in daisy-			
MASL	Master Mode	chain, they perform the same presets and or the same presets selected			
		on the Master fixture. The slave projectors must be set in 9ch mode.			
	12 ch (D)	RGBACL 12 ch (default)			
	2 ch	2 ch			
	16 ch	RGBACL 16 ch (16 bit)			
	6 ch	RGBACL 6 ch			
ModE	RGB	RGB 6 ch Dmx mode (view next page)			
	HSI	Stubio HSI 6 ch			
	9ch	9 ch			
	16chF	16 ch (setting options)			
drUt	°C	Shows driver operating temperature			
LEdt	°C	Shows leds operating temperature			
PUM	0100%	Shows current led power (0-100%)			
	SFAST				
SMoo	FAST	DMX data Speed adjustment			
	MED				
	SLOW	qUAd qUAd2 ScUr LinE			
	allAd				
	qUAd SCUr	ГІӨНТ ОЛТРИТ			
GAMM	qUAd2				
GAMM	LINE				
		0 DMX OUTPUT 255 0 DMX OUTPUT 255 0 DMX OUTPUT 255 0 DMX OUTPUT 255			
		Dimming curves available			
	1K				
	2K				
	3K				
	4K				
FrEq	5K	LED operation frequence			
	6K				
	7K 8K				
	9K				
	10K				
	Off	When OFF, LED max flux : 90%			
booS	on	When ON, LED max flux : 100%			
		4 fan operating modes i.e atuomatic, medium fast, medium slow, slow			
	Aut	speed.			
FAn	MEDH MEDL	Fan speed adjujstments (fan-sound) reflect on self-correct output LED			
	LOW	brightness and other factors as room-temperature, number of			
	LOVV	engaged channels			
	AA	Display orientation selection:			
PoS	Ŵ	AA = normal			
1		VV = inverted			
	•••				
		Standby display activity:			
StbY	Off	Standby display activity: off = display always switched on = display switched off after few			
StbY		Standby display activity: off = display always switched on = display switched off after few seconds of buttons inactivity (only the right side dot will be lighted to			
	Off on	Standby display activity: off = display always switched on = display switched off after few seconds of buttons inactivity (only the right side dot will be lighted to indicate DMX availability)			
StbY dEF SoFt	Off	Standby display activity: off = display always switched on = display switched off after few seconds of buttons inactivity (only the right side dot will be lighted to			

DMX Operating Modes (Mode)

Selecting 1 of the 8 available modes it enables the number of channels required, and its relevant modes, needed to operate Lites F200 C6

mode 12 ch RGBACL (default)

11 Part Order Diff. See Sec. 1 red 0.255 From 0 to max 255 2 sec. Sec. Sec. 3 blue 0.255 From 0 to max 255 5 cyan 0.255 From 0 to max 255 6 lime 0.255 From 0 to max 255 7 strobe 15 Strobe of singaged 1 0.15 Strobe of singaged Strobe of singaged 7 strobe 16.255 From 0 to max 255 9 dimmer 0.255 From 0 to max 255 10 10 10 10 (priority on characle size size size size size size size siz	Ch	Function		Denvilevele
2 green 0.255 Frem 0 to max 255 3 blue 0.255 From 0 to max 255 4 amber 0.255 From 0 to max 255 5 0.39 0.255 From 0 to max 255 6 line 0.255 From 0 to max 255 7 stobe 16 255 Relation 10 to max 255 9 dimmer 0.255 Relation 10 to max 255 9 dimmer 0.255 From 0 to max 255 9 dimmer 0.255 From 10 to max 255 9 dimmer 0.255 From 10 to max 255 9 dimmer 0.15 Deserted whites 16.17 2300% cri 93 16.17 10 to 200% cri 93 16.18 from 200% to 300% cri 93 16.16 from 200% cri 93 11.13 from 200% cri 93 16.16 from 200% cri 93 12.15 from 200% cri 93 17 17 13.131 from 200% cri 93 133.133 from 200% cri 93 131.132 from	Ch 1	Function	0.255	Dmx levels
3 blue 0.255 From 0 to max 255 4 amber 0.255 From 0 to max 255 5 Cyan 0.255 From 0 to max 255 6 lime 0.255 From 0 to max 255 7 strobe 16.255 Strobo form stor (16) to fast (25) 8 Rainbow 16.255 Strobo form stor (16) to fast (25) 9 dimmer 0.251 Rainbow disnaged 16.17 2200°k to 2200°k (10) to fast (25) 16 9 dimmer 0.255 From 0 to max 25 9 dimmer 0.255 Rainbow disnaged 16.17 2200°k to 2200°k (19) 16 18.38 from 200 to 82205 16 18.39 from 200°k to 3200°k (19) 16 19.40 16.17 700 from 4000°k to 5600°k 10 100 from 200°k to 4000°k 16 10.130 from 200°k to 400°k 16 17 110 100 from 300°k to 560°k 16 111 from 300°k to				
4 amber 5 0-235 From 0 to max 255 6 lime 0.255 From 0 to max 255 6 lime 0.255 From 0 to max 255 7 strobe 16.255 Strobe from 3 low (16) to fast (25). 8 Rainbow 16.255 Rainbow from 3 low (16) to fast (25). 9 dimmer 0.255 From 0 to max 255 9 dimmer 0.255 Rainbow from 3 low (16) to fast (25). 10 0.255 Rainbow from 3 low (16) to fast (25). 9 dimmer 0.15 Description and low (16) to fast (25). 10 10 10.30 from 200% to 3200% km 10.30 from 200% to 3200% km 11 Se.86 40000% km 10.30 from 500% km 10.310 from 500% km 131.312 from 000% to 500% km 10.313 from 500% km 10.310 from 500% km 10.310 from 500% km 131.312 from 000% km 10.30 from 300% km 10.30 from 300% km 131.312 from 000% km 10.30 from 300% km 10.30 from 300% km 131.312 from 300% km 10.30 from 300%				
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8 Rainbow 16.255 Rainbow (16) to fast (25) 9 dimmer 0.255 From 0 to max 255 9 0.15 Deserted whites 10 16.17 230% (19) 3940 270% (19) 4101 from 200% to 230% (19) 6484 from 320% (19) 6484 from 320% (19) 6586 4000% (19) 67.07 from 400% to 500% (19) 10809 5600% (19) 110130 from 500% to 500% (19) 1131132 6500% (19) 1131132 from 000% to 500% (19) 1131132 from 000% to 900% (19) 1131132 from 000% to 900% (19) 1132157 from 000% to 900% (19) 114 15 1154155 from 000% to 900% (19) 116217 from 000% to 900% (19) 1177178 8000% (19) 1177178 8000% (19) 1177178 8000% (19) 1177178 8000% (19) 1177178				Rainbow disingaged
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10 (priority on channel 1)) White selection 1617 1838 from 2200% to 2200% 22.63 13940 2200% to 2200% to 2200% 18044 11) White selection 6484 from 2200% to 200% 180109 160198 110130 from 200% to 5500% to 190109 160195 177178 177178 110131 from 5500% to 7500% to 190109 131132 6500% to 7500% 110130 from 5000% to 5500% to 190109 131132 6500% to 7500% 110130 from 5000% to 5500% to 190109 131132 6500% to 7500% 1110130 from 5000% to 7500% 132132 133153 1110130 from 5000% to 5000% to 190100% 132132 133153 1110130 from 5000% to 5000% 133153 160.00% 112199 from 5000% to 1900% 133153 118 113132 from 900% to 1900% 133153 118 118 11219 green 124152 10000% to 195 12515 120222 from 900% to 19015 100000% 124151 12719 12819		dimmer		
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51255 Fan speed from slow to fast				
	12	Fan speed		

	1		
		015	No color
		1620	red
		2125	light red
		2630	orange
		3135	medium amber
		3640	amber
		4145	straw tint
		4650	pale yellow
		5155	spring yellow
		5660	yellow
		6165	lemon yellow
		6670	lime
		7175	lime green
		7680	
1		8185	green
			moss green
		8690	light cyan
		9195	cyan
		96100	peacock blue
1	Color selection	101105	summer blue
		106110	bright blue
		111115	light steel blue
		116120	light blue
		121125	slate blue
		126130	blue
		131135	deep lavender
		136140	lavender
		141145	magenta
		146150	rose pink
		151155	dark pink
		156160	bright pink
		161165	Full RGBACL
		166170	white 2300°k
		171175	white 2700°k
		176180	white 3200°k
		181185	white 4000°k
	White selection	186190	white 5600°k
		191195	white 5000 k
		196200	white 7000°k
		201205	white 8000°k
		206210	white 9000°k
		211215	white 10000°k
	Rainbow	216225	Rainbow from slow (191) to fast(229)
			Sequence rainbow R-G-B-A-C-L
	3200 ° k halogen lamp operation	226255	halogen lamp dimming simulation
2	dimmer	0255	From 0 to max 255

mode 2 ch

mode 16 ch RGBACL 16 bit

Ch	Function		dmx levels
1	red	0255	From 0 to max 255
2	Red fine	0255	Red fine tune adjustment
3	green	0255	From 0 to max 255
4	Green fine	0255	Green fine tune adjustment
5	blue	0255	From 0 to max 255
6	Blue fine	0255	Blue fine tune adjustment
7	amber	0255	From 0 to max 255
8	amber fine	0255	amber fine tune adjustment
9	cyan	0255	From 0 to max 255
10	cyan fine	0255	cyan fine tune adjustment
11	lime	0255	From 0 to max 255
12	lime fine	0255	lime fine tune adjustment
		015	Strobe disingaged
13	strobe	16255	Strobo from slow (16) to fast (255)
14	dimmer	0255	From 0 to max 255
15	Dimmer fine	0255	Adjustment of global fine light intensity
16		025	Auto speed or set from menu
10	Fan speed	2650	fans off
		51255	Fan speed from slow to fast

mode 6. ch RGBACL

Ch	Function	dmx levels		
1	red	0255	From 0 to max 255	
2	green	0255	From 0 to max 255	
3	blue	0255	From 0 to max 255	
4	amber	0255	From 0 to max 255	
5	cyan	0255	From 0 to max 255	
6	lime	0255	From 0 to max 255	

mode 6.RGB 6 ch

1	Red	0255	From 0 to max 255
2	Green	0255	From 0 to max 255
3	Blue	0255	From 0 to max 255
4	Dimmer	0255	From 0 to max 255
5	strobe	015	Strobe disingaged
5		16255	Strobo from slow (16) to fast (255)
	Fan speed	025	Auto speed or set from menu
6		2650	fans off
		51255	Fan speed from slow to fast

	1		
1	Hue	0255	Hue selection, following levels R, R+L, R+G+L, G+L,G, G+C,G+B+C, B+C, B B+A, R+B+A, R+A, R
2	Saturation	0255	Color saturation with set color in the Hue channel
3	Dimmer	0255	From 0 to max 255
4	strobo	015	Strobe disingaged
4	30,000	16255	Strobo from slow (16) to fast (255)
		015	Whites off
		1618	2300°k cri 93
		1941	from 2300°k to 2700°k
		4244	2700°k cri 97
		4567	from 2700°k to 3200°k
		6870	3200°k cri 98
		7193	from 3200°k to 4000°k
	Selection whites	9496	4000°k cri 95
_		97119	from 4000°k to 5600°k
5		120122	5600°k cri 98
(priority on channel 1)		123145	from 5600°k to 6500°k
channel 1)		146148	6500°k cri 95
		149171	from 6500°k to 7000°k
		172174	7000°k cri 93
		175197	from 7000°k to 8000°k
		198200	8000°k cri 96
		201223	from 8000°k to 9000°k
		224226	9000°k cri 93
		227249	from 9000°k to 10000°k
		250255	10000°k cri 95
-		025	Auto speed or set from menu
6	Fan speed	2650	fans off
		51255	Fan speed from slow to fast

mode 6.HSI STUDIO 6 ch

mode 9 ch

Ch	Function	dmx levels	
1	red	0255	From 0 to max 255
2	green	0255	From 0 to max 255
3	blue	0255	From 0 to max 255
4	amber	0255	From 0 to max 255
5	cyan	0255	From 0 to max 255
6	lime	0255	From 0 to max 255
7	strobe	015	Strobo disingaged
		16255	Strobo from slow (16) to fast (255)
8	Rainbow	015	Rainbow disingaged
		16255	Rainbow from slow (16) to fast (255)
9	dimmer	0255	From 0 to max 255

mode 16.F RGBACL setting options

Ch	Function		Dmx levels
1	red	0255	From 0 to max 255
2	green	0255	From 0 to max 255
3	blue	0255	From 0 to max 255
4	amber	0255	From 0 to max 255
5	cyan	0255	From 0 to max 255
6	lime	0255	From 0 to max 255
7	strobe	015	Strobo disingaged
/	Stibbe	16255	Strobo from slow (16) to fast (255)
0	Rainbow	015	Rainbow disingaged
8		16255	Rainbow from slow (16) to fast (255)
9	dimmer	0255	From 0 to max 255
		015	Deserted whites
		1617 1838	2300°k cri 93 from 2300°k to 2700°k
		3940	2700°k cri 97
		4161	from 2700°k to 3200°k
		6263	3200°k cri 98
		6484	from 3200°k to 4000°k
10		8586	4000°k cri 95
(priority on		87107	from 4000°k to 5600°k
channel 11)	White selection	108109 110130	5600°k cri 98 from 5600°k to 6500°k
,		131132	6500°k cri 95
		133153	from 6500°k to 7000°k
		154155	7000°k cri 93
		156176	from 7000°k to 8000°k
		177178	8000°k cri 96
		179199	from 8000°k to 9000°k
		200201 202222	9000°k cri 93 from 9000°k to 10000°k
		202222	10000°k to 10000°k
	3200 ° k halogen lamp operation	226255	halogen lamp dimming simulation
		015	No color
		1623	red
		2431	light red
		3239	orange
		4047	medium amber
		4855 5663	amber straw tint
		6471	pale yellow
		7279	spring yellow
	Color selection	8087	yellow
		8895	lemon yellow
		96103	lime
		104111	lime green
11		112119 120127	green moss green
		120127	light cyan
		136143	cyan
		144152	peacock blue
		153159	summer blue
		160167	bright blue
		168175	light steel blue
		176183 184191	light blue slate blue
		184191	blue
		200207	deep lavender
		208215	lavender
		216223	magenta
		224231	rose pink
		232239	dark pink
		240247	bright pink FULL RGBACL
12	Fan speed	248255 025	Auto speed or set from menu
		2650	fans off
		51255	Fan speed from slow to fast

		024	values selected from display
13	DMX data Speed adjustment	2574	SLOW
		75124	MED
		125174	FAST
		175224	SFAST
		225255	(reserved)
	Dimming curves available	024	values selected from display
		2574	qUAd
14		75124	SCUr
		125174	qUAd2
		175224	LInE
		225255	(reserved)
	Frequency Modulation (LED PWM Freq.)	039	values selected from display
		4054	(reserved)
		5569	PWM Frequency 1KHz
		7084	PWM Frequency 2KHz
		8599	PWM Frequency 3KHz
. –		100114	PWM Frequency 4KHz
15		115129	PWM Frequency 5KHz
		130144	PWM Frequency 6KHz
		145159	PWM Frequency 7KHz
		160174	PWM Frequency 8KHz
		175189	PWM Frequency 9KHz
		190204	PWM Frequency 10KHz
		205219	(reserved)
		220255	(reserved)
16	BOOST	024	values selected from display
		25124	OFF
		125224	ON
		225255	(reserved)

Error messages

In case of malfunction, the following messages can be shown:

Led sensor error: the sensor on the led is faulty.

Overtemperature LED: the temperature on the LED exceeds the allowed limit, check if the fan is working. Micro overtemperature: the temperature on the driver board exceeds the allowed limits, check if the fan is working. Micro sensor error: the sensor on the driver board is faulty.

If these malfunctions occur, the LED turns off.

Avoid using the Lites F 200 C6 and promptly contact any authorized service centre.

Periodical maintenance

To ensure the correct Lites F 200 C6 operation, we suggest the following periodical maintenance operations: Remove dust or any kind of other dirt from the fans and loop-holes, this operation ensures the correct air flow Remove dust from lenses using a clean cloth. This will ensure the maximum light efficiency Replace damaged protection screen and lenses when necessary.

Do not touch nor clean the LEDs nor the sourranded area with solvent

Device disposal information

At the end of its life, Lites F 200 C6 must be disposed to an appropriate electrical and electronic equipment waste collection centre. Eco-friendly disposal, helps to avoid possible negative impact on the environment and human health and promotes the reuse and/or recycling of the materials making up the product. Illegal disposal involves administrative sanctions provided by laws enacted.



Note

Manufacture declines any sort of personal/corporate responsibility/liability for damages caused by people that are not scrupulously following indications given in this manual as for the inadequacy or for misuse of the product they do, as well as if the product has been handled by unqualified personnel. Not complying with security norms/periodical maintenance and all information contained and as expressed in the owner's/service manual will also totally free personal/corporate responsibility/liability.Text, wordings, drawings, specifications, modifications and other changes of this manual may apply anytime without notice. The specifications are not binding.