



SPARX 9

DMX chart

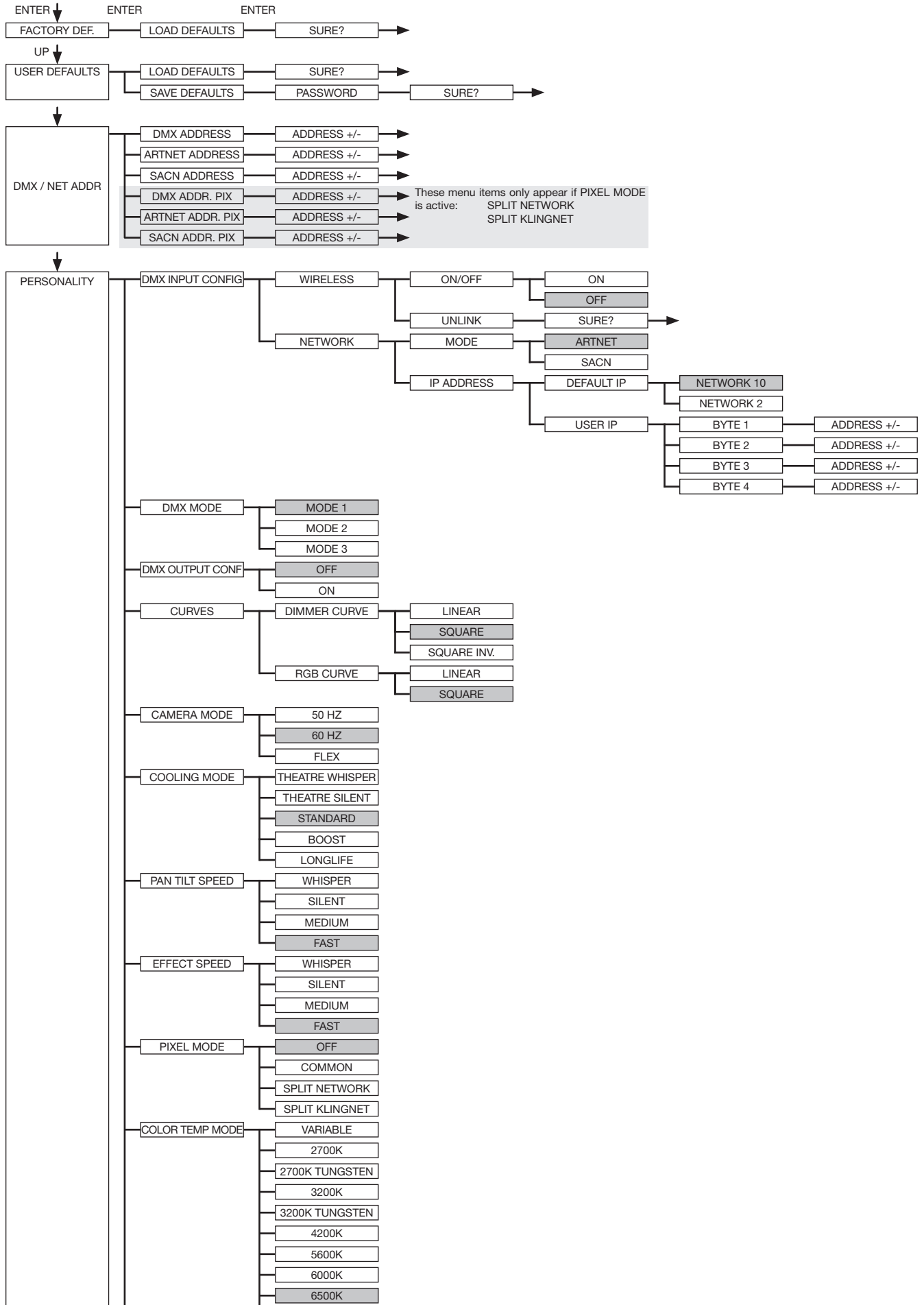
Version 1.01

Software \geq 1.0.0

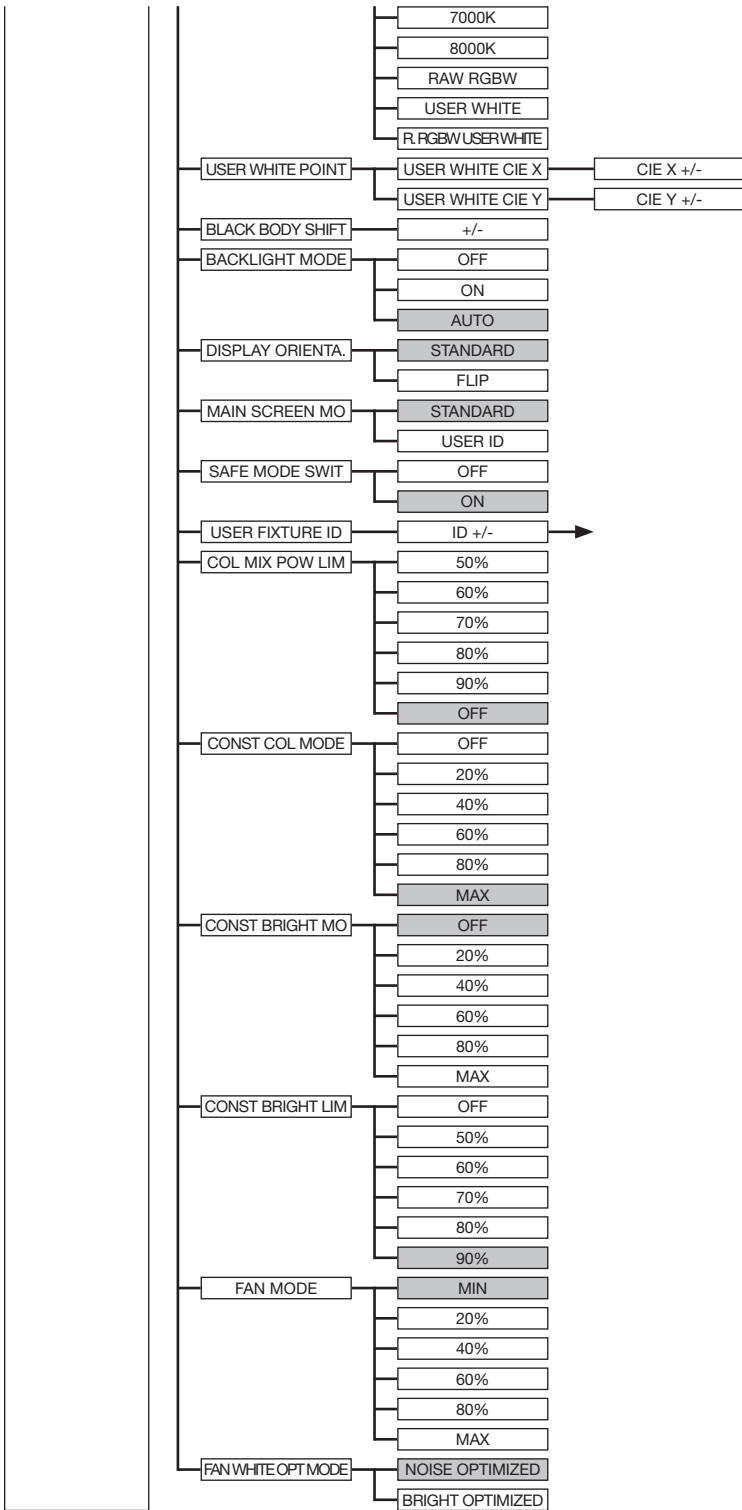
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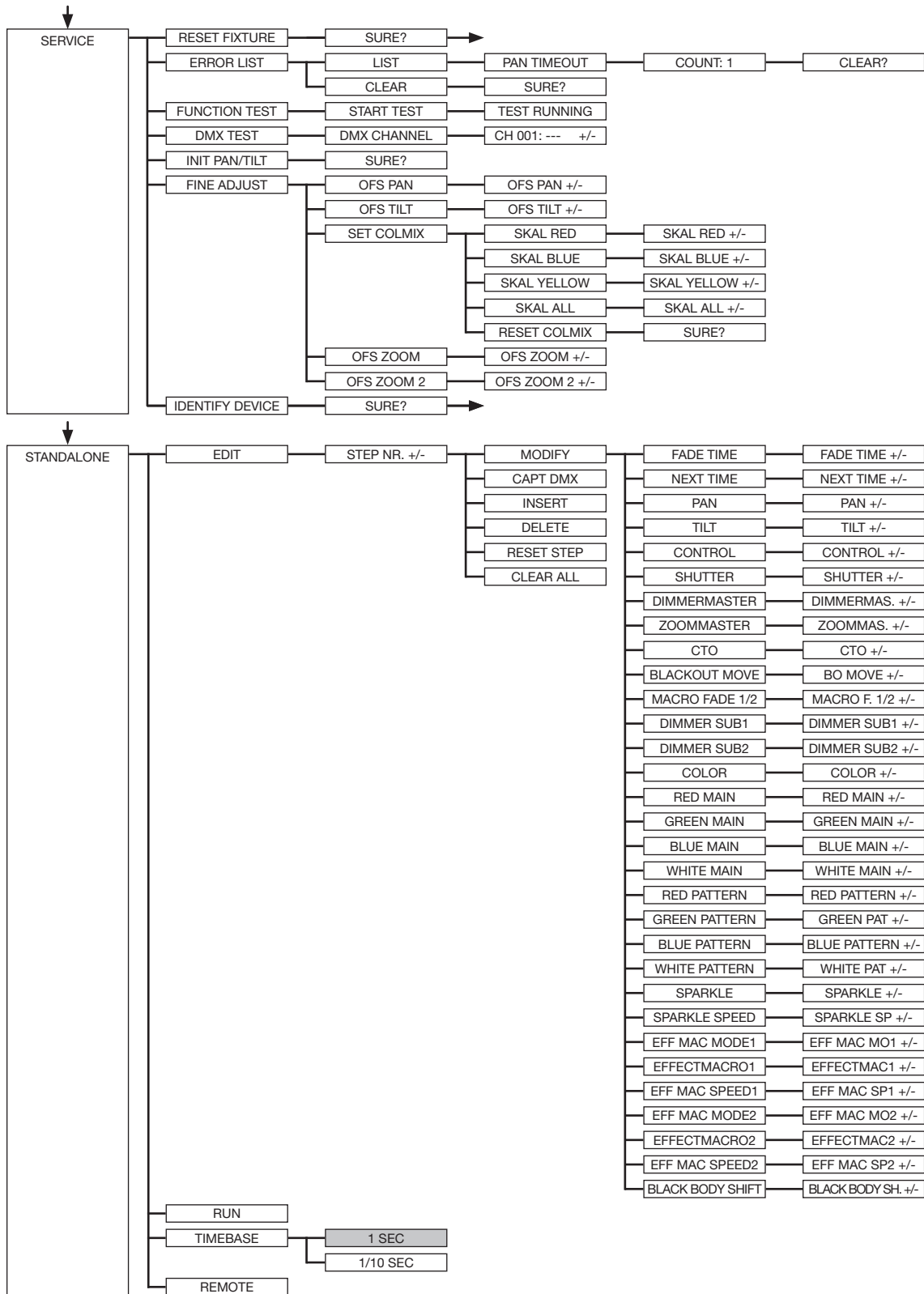
1.0 Menu overview

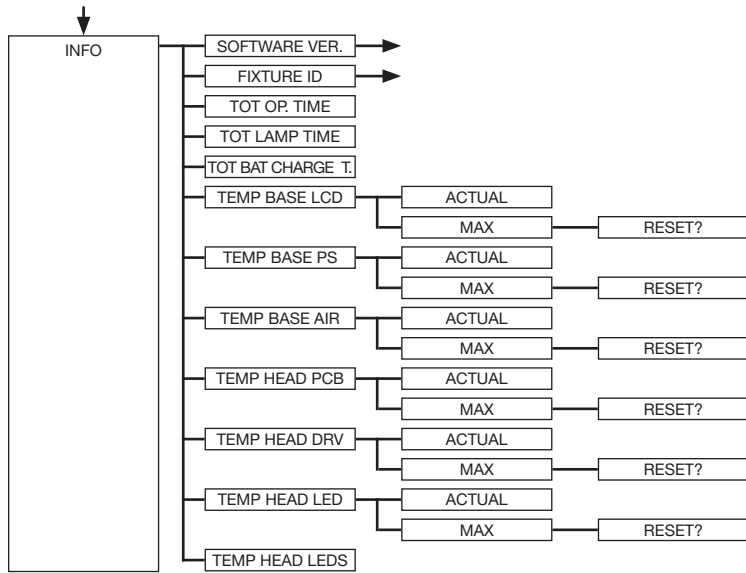


grey - corresponds to the default setting



SPARX 12





2.0 Control options

2.1 DMX

2.1.1 Overview of DMX channels Sparx 12

The Sparx 12 comes with 4 DMX modes. Each mode is selectable in the menu at PERSONALITY -> DMX MODE. The selected mode will be shown in the main menu. Single pixel control can be added to each mode PERSONALITY -> PIXELMODE

	Mode 1(M1) 32 channels	Mode 2 (M2) 46 channels	Mode 3 (M3) 21 channels
Channel 1	Pan	Pan	Pan
Channel 2	Pan fine	Pan fine	Pan fine
Channel 3	Tilt	Tilt	Tilt
Channel 4	Tilt fine	Tilt fine	Tilt fine
Channel 5	Control channel	Control channel	Control channel
Channel 6	Shutter	Shutter	Shutter
Channel 7	Dimmer (master)	Dimmer (master)	Dimmer (master)
Channel 8	Zoom (master)	Dimmer fine (master)	Zoom (master)
Channel 9	CTO	Zoom (master)	CTO
Channel 10	Blackout move	CTO	Color wheel emulation
Channel 11	Layer 1 / 2 crossfade	CTO fine	Red background color (main)
Channel 12	Dimmer sub1 (inner zone)	Blackout move	Green background color (main)
Channel 13	Dimmer sub2 (outer ring)	Layer 1 / 2 crossfade	Blue background color (main)
Channel 14	Color wheel emulation	Layer 1 / 2 crossfade fine	White background color (main)
Channel 15	Red background color (main)	Dimmer sub1 (inner zone)	Sparkle
Channel 16	Green background color (main)	Dimmer sub1 fine (inner zone)	Sparkle speed
Channel 17	Blue background color (main)	Dimmer sub2 (outer ring)	Effect macro mode Layer
Channel 18	White background color (main)	Dimmer sub2 fine (outer ring)	Effect macro Layer
Channel 19	Red foreground color (pattern)	Color wheel emulation	Effect macro speed Layer
Channel 20	Green foreground color (pattern)	Red background color (main)	Black body shift (switchable)
Channel 21	Blue foreground color (pattern)	Red background color fine (main)	Transition pixel mode
Channel 22	White foreground color (pattern)	Green background color (main)	
Channel 23	Sparkle	Green background color fine (main)	
Channel 24	Sparkle speed	Blue background color (main)	
Channel 25	Effect macro mode Layer 1	Blue background color fine (main)	
Channel 26	Effect macro Layer 1	White background color (main)	
Channel 27	Effect macro speed Layer 1	White background color fine (main)	
Channel 28	Effect macro mode Layer 2	Red foreground color (pattern)	
Channel 29	Effect macro Layer 2	Red foreground color fine (pattern)	
Channel 30	Effect macro speed Layer 2	Green foreground color (pattern)	
Channel 31	Black body shift (tint)	Green foreground color fine (pattern)	
Channel 32	Transition pixel mode	Blue foreground color (pattern)	
Channel 33		Blue foreground color fine (pattern)	
Channel 34		White foreground color (pattern)	
Channel 35		White foreground color fine (pattern)	
Channel 36		Sparkle	
Channel 37		Sparkle speed	
Channel 38		Effect macro mode Layer 1	
Channel 39		Effect macro Layer 1	
Channel 40		Effect macro speed Layer 1	
Channel 41		Effect macro mode Layer 2	
Channel 42		Effect macro Layer 2	
Channel 43		Effect macro speed Layer 2	
Channel 44		Black body shift	
Channel 45		Transition pixel mode	
Channel 46		Transition pixel mode fine	

2.1.2 DMX channel assignment

M1	M2	M3	Funktion	DMX
1	1	1	Pan (X) movement 540.73°	000-255
2	2	2	Pan (X) fine	000-255
3	3	3	Tilt (Y) movement 237.78°	000-255
4	4	4	Tilt (Y) fine	000-255
5	5	5	<p>Control channel To enable uniform dimming manually via faders for all light mixing consoles, 5 different settings for the DMX smoothing are available. If the DMX signal is interrupted or too few packets are sent on some DMX consoles, this channel can be used to adjust the response of the headlamp. The Minimum DMX Smoothing setting should work on most popular consoles. The values for DMX smoothing must be permanently applied. For the other values such as Cooling Mode, Color Temperature, Zoom Modes the values must be present for 2 seconds, then the device will be permanently switched over. The exception is the setting of the COOLING-MODE, here it depends on the switch SAFE MODE SWITCH, if it is on OFF the COOLING-MODES can be switched directly, if this is ON the DIMMER and SHUTTER must get the DMX-value 0. Only then can be switched.</p> <p>Setting for minimal DMX smoothing (A dimmed shutter sequence is possible) Dimmer fade out via fader (fast - slow) Not used</p> <p>Setting for minimum / medium DMX smoothing Dimmer fade out via fader (fast - slow) Not used</p> <p>Setting for medium DMX smoothing Dimmer fade out via fader (fast - slow)</p> <p>Color Mix Power Limit - Sets the total power consumption 50% 60% 70% 80% 90% Off</p> <p>Constant Color Mode - Adjust color fidelity Off 20% 40% 60% 80% Max</p> <p>Constant Brightness Mode - setting for constant brightness control Off 20% 40% 60% 80% Max</p>	<p>000-007</p> <p>008-031</p> <p>032-039</p> <p>040-063</p> <p>064-071</p> <p>072-072</p> <p>073-073</p> <p>074-074</p> <p>075-075</p> <p>076-076</p> <p>077-077</p> <p>078-078</p> <p>079-079</p> <p>080-080</p> <p>081-081</p> <p>082-082</p> <p>083-083</p> <p>084-084</p> <p>085-085</p> <p>086-086</p> <p>087-087</p> <p>088-088</p> <p>089-089</p>

	<p>Constant Brightness Limit - Sets the limit for constant brightness control</p> <p>off 090-090 50% 091-091 60% 092-092 70% 093-093 80% 094-094 90% 095-095</p>
	<p>Setting for medium/maximum DMX smoothing</p> <p>Dimmer fade out via fader (fast - slow) 096-103</p>
	<p>BACKLIGHT MODE - Display backlight configuration</p> <p>AUTO - the fixture controls the backlight automatically 104-104 ON - the backlight is always on 105-105 OFF - the backlight is always off until a key is pressed 106-106</p>
	<p>DISPLAY ORIENTATION - display flip or not</p> <p>STANDARD - the display can be read when the headlamp is on a surface 107-107 FLIP - the display orientation is rotated by 180 °, hanging readable 108-108 not used 109-109</p>
	<p>MAIN SCREEN MODE - view of the main screen</p> <p>STANDARD - the main screen displays the DMX address, the DMX mode, and when wireless is enabled, the field strength. 110-110 USER FIXTURE ID - the main screen displays the user definable fixture ID / headlight number 111-111 not used 112-112</p>
	<p>USER FIXTURE ID SET - set fixture ID</p> <p>the USER ID can be set. The headlamp takes the 16-bit value of Pan for the fixture id 113-113</p>
	<p>USER CIE - set the white color of RAW RGB USER WHITE</p> <p>USER CIE X - The headlamp takes the 16-bit value of Pan for the USER CIE X 114-114 USER CIE Y - The headlamp takes the 16-bit value of Pan for the USER CIE Y 115-115</p>
	<p>BLACK BODY SHIFT - set of green shift</p> <p>BLACK BODY SHIFT - The headlamp takes the 16-bit value of Pan for the BLACK BODY SHIFT. Values from -99 to +99 (DMX values 0 to 65535, 32768 is no shift) 116-116 not used 117-127</p>
	<p>Setting for maximum DMX smoothing</p> <p>Dimmer fade out via fader (fast - slow) 128-135</p>
	<p>DIMMER CURVE - selection of dimmer curve</p> <p>LINEAR - linear dimmer curve 136-136 SQUARE - exponential dimmer curve 137-137 SQUARE INVERSE - exponential inverse dimmer curve 138-138 not used 139-139</p>
	<p>RGBW(Y) CURVE - selection of RGBW(Y) curve</p> <p>LINEAR - linear frost curve 140-140 SQUARE - exponential RGB(Y) curve 141-141 not used 142-142</p>
	<p>PAN/TILT SPEED - selection of PAN/TILT speed</p> <p>WHISPER 146-146 SILENT 147-147 MEDIUM 148-148 FAST 149-149</p>

	<p>EFFECT SPEED - selection of effect speed</p> <p>WHISPER 150-150 SILENT 151-151 MEDIUM 152-152 FAST 153-153 Not used 154-156</p> <p>FAN WHITE OPT MODE - work with optimized noise or brightness</p> <p>Noise-optimized operation (only for boost and standard mode) 157-157 Brightness-optimized work (only for boost and standard mode) 158-158 not used 159-159</p> <p>COOLING MODE - adjust the fan volume and brightness</p> <p>This takes place with dimmer / shutter set to closed (DMX 000) then after 2 seconds the fixture will switch this option, except the switch "SAFE MODE SWITCH" in the PERSONALITY menu is set to OFF, then the changeover can take place directly without dimmer and shutter having to be closed.</p> <p>THEATRE WHISPER 160-160 THEATRE SILENT 161-161 STANDARD 162-162 BOOST 163-163 LONGLIFE 164-164 not used 165-169</p> <p>COLOR TEMPERATURE - adjustment of the color temperature of the fixture</p> <p>Color temperature 2000K (CTO 2000K - 20000K) 170-170 Color temperature 2700K (CTO 2700K - 2700K) 171-171 Color temperature 2700K tungsten dim out 172-172 Color temperature 3200K (CTO 3200K - 2700K) 173-173 Color temperature 3200K tungsten dim out 174-174 Color temperature 4200K (CTO 4200K - 2700K) 175-175 Color temperature 5600K (CTO 5600K - 2700K) 176-176 Color temperature 6000K (CTO 6000K - 2700K) 177-177 Color temperature 6500K (CTO 6500K - 2700K) 178-178 Color temperature 7000K (CTO 7000K - 2700K) 179-179 Color temperature 8000K (CTO 8000K - 2700K) 180-180 RAW RGBW 181-181 USER WHITE 182-182 RAW RGBW USER WHITE 183-183 Not used 184-189</p> <p>FAN MODE - Sets the basic volume in the selected COOLING MODE</p> <p>min 190-190 20% 191-191 40% 192-192 60% 193-193 80% 194-194 Max 195-207</p> <p>Camera mode - Sets the LED refresh rate</p> <p>Camera Mode, 50Hz (after 2 seconds) 208-215 Camera Mode, 60Hz (after 2 seconds) 216-223 Camera Mode, FLEX 600Hz (after 2 seconds) 224-231 Not used 232-239</p> <p>RESET - Performing a complete fixture reset</p> <p>Reset (after 2 seconds) 240-247 Not used 248-255</p>	
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6	6	6	Shutter Shutter closed Shutter open Shutter pulse opening >10Hz (0,6 sec - 4,8 sec) Shutter open Fade effect with dimmer (slow - fast) Shutter open Shutter closed Shutter pulse opening <10Hz (0,6 sec - 4,8 sec) Shutter open Shutter pulse closing (0,6 sec - 4,8 sec) Shutter closed Shutter fade, 0% (0,6 sec - 4,8 sec) Shutter open Shutter fade, 100% (0,6 sec - 4,8 sec) Shutter closed Shutter random 100% (0,6 sec - 4,8 sec) Shutter open Shutter random 0% (0,6 sec - 4,8 sec) Shutter closed Shutter random fade 0% (0,6 sec - 4,8 sec) Shutter open Shutter random fade 100% (0,6 sec - 4,8 sec) Shutter open	000-015 016-095 096-110 111-111 112-125 126-126 127-127 128-142 143-143 144-158 159-159 160-174 175-175 176-190 191-191 192-206 207-207 208-222 223-223 224-238 239-239 240-254 255-255
7	7	7	Dimmer 0 - 100%	000-255
	8		Dimmer fine 16Bit	000-255
8	9	8	Zoom 0-100% (master, narrow 3° - wide 70°)	000-255
9	10	9	CTO 0 - 100%	000-255
	11		CTO fine 16Bit	000-255
10	12		Blackout Move Not used Selection of segments for shutter effects in link with the shutter channel Not used Blackout at pan/tilt Blackout on color change Not used Blackout at pan/tilt and color change The fade time of the dimmer can be set from slow to 5sec - max.	000-000 001-070 071-095 096-127 128-159 160-223 224-255
11	13		Crossfade layer 1/2 0 - 100%	000-255
	14		Crossfade layer 1/2 fein 16Bit	000-255
12	15		Dimmer sub1 0 - 100% (inner zone)	000-255
	16		Dimmer sub1 fine 16Bit (inner zone)	000-255
13	17		Dimmer sub2 0 - 100% (outer ring)	000-255
	18		Dimmer sub2 fine 16Bit (outer ring)	000-255

14	19	10	Color wheel emulation Inactive, color mixing only via RGB White (according to color temperature setting headlights) White / red Red Red / yellow Yellow Yellow / magenta Magenta Magenta / green Green Green / orange Orange Orange / blue Blue Blue / turquoise Turquoise Turquoise / white White 2700 Kelvin White 2700 Kelvin, tungsten dimming White 3200 Kelvin White 3200 Kelvin, tungsten dimming White 4200 Kelvin White 5600 Kelvin White 6000 Kelvin White 6500 Kelvin White 7000 Kelvin White 8000 Kelvin Color change effect (fast - slow) Color change effect (stop) Color change effect (fast - slow)	000-000 001-003 004-007 008-011 012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-063 064-064 065-065 066-066 067-067 068-068 069-069 070-070 071-071 072-072 073-191 192-222 223-224 225-255
15	20	11	Red background color (main) 0-100%	000-255
	21		Red background color (main) fine 16 Bit	000-255
16	22	12	Green background color (main) 0-100%	000-255
	23		Green background color (main) fine 16 Bit	000-255
17	24	13	Blue background color (main) 0-100%	000-255
	25		Blue background color (main) fine 16 Bit	000-255
18	26	14	White background color (main) 0-100%	000-255
	27		White background color (main) fine 16 Bit	000-255
19	28		Red foreground color (pattern) 0-100%	000-255
	29		Red foreground color (pattern) fine 16 Bit	000-255
20	30		Green foreground color (pattern) 0-100%	000-255
	31		Green foreground color (pattern) fine 16 Bit	000-255

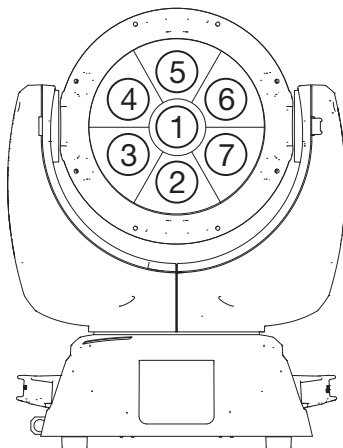
21	32		Blue foreground color (pattern) 0-100%	000-255
	33		Blue foreground color (pattern) fine 16 Bit	000-255
22	34		White foreground color (pattern) 0-100%	000-255
	35		White foreground color (pattern) fine 16 Bit	000-255
23	36	15	Sparkle - glitter effect Sparkle effect inactive Sparkle effect intensity (minimum - maximum)	000-000 001-255
24	37	16	Sparkle speed Sparkle effect Faded (slow -> fast) Switched (slow -> fast) Sparkle effect color neutral Faded (slow -> fast) Switched (slow -> fast) Not used	000-015 016-031 032-047 048-063 064-255
25	38	17	Effect macro mode layer 1 Color set 1 Effects faded Effects switched Effects forward crossfaded (crossfade over effect macro speed DMX 000 <-> 255) Effects backward crossfaded (crossfade over effect macro speed DMX 000 <-> 255) <u>Regular interval:</u> Effect random flash fast Effect random snap open / ramp close Effect random flash slow Effect random ramp open / snap close <u>Random interval:</u> Effect random flash fast Effect random snap open / ramp close Effect random flash slow Effect random ramp open / snap close Not used From DMX 32 color set 2, from DMX 64 color set 3, from DMX 96 color set 4	000-000 001-001 002-002 003-003 004-004 005-005 006-006 007-007 008-008 009-009 010-010 011-011 012-031
26	39	18	Effect macro layer 1 Macros switched off Static color effects - fixture 2 colors Inner zone - background color (main) Outer ring - foreground color (pattern) Color wheel emulation overwrites background color (main) Beam fixture 2 colors segment shutter complete fixture Beam fixture 2 colors segment shutter inner zone Beam fixture 2 colors segment shutter outer ring Beam fixture 2 colors segment shutter off Color wheel emulation overwrites foreground color (pattern) Beam fixture 2 colors segment shutter complete fixture Beam fixture 2 colors segment shutter inner zone Beam fixture 2 colors segment shutter outer ring Beam fixture 2 colors segment shutter off Beam fixture 2 colors segment shutter complete fixture Not used Static beams Foreground (pattern) Static rings foreground color (pattern) Static double rings foreground color (pattern)	000-000 001-001 002-002 003-003 004-004 005-005 006-006 007-007 008-008 009-010 011-033 034-038 039-043 044-052

			<p>Running effects - fixture inside and outside area Background color (main), foreground color (pattern) Color wheel emulation responds according to the selected color set - effect macro mode Layer 1 Pattern rings Pattern cake pieces small Pattern cake pieces big Pattern lines horizontally Pattern lines vertically Pattern lines diagonally Pattern propeller Pattern half / half vertical Pattern half / half horizontal Pattern half / half diagonal Pattern spiral Color spread effects</p> <p>Running Effects - Headlight inner area Background color (Main), Foreground color (Pattern / Pattern) Color wheel emulation responds according to the selected color set - effect macromode Layer 1 Pattern rings Pattern cake pieces small Pattern lines horizontally Pattern lines vertically Pattern lines diagonally Pattern propeller Pattern half / half vertical Pattern half / half horizontal Pattern half / half diagonal Pattern spiral Color spread effects</p> <p>Running effects - headlight outer ring Background color (main), foreground color (pattern) Color wheel emulation responds according to the selected color set - effect macromode layer 1 1 point is running 2 points are running 3 points are running Colors spread effects</p>	<p>053-059 060-069 070-079 080-086 087-093 094-107 108-114 115-116 117-118 119-122 123-129 130-138</p> <p>139-145 146-165 166-172 173-179 180-193 194-200 201-202 203-204 205-208 209-215 216-224</p> <p>225-245 246-248 249-251 252-255</p>
27	40	19	<p>Effect macro speed 1 Forward (fast -> slow) Backwards (slow -> fast)</p>	<p>000-127 128-255</p>
28	41		<p>Effect macro mode layer 2 Same assignment as effect macromode Layer 1</p>	<p>000-255</p>
29	42		<p>Effect macro layer 2 Same assignment as effect macro Layer 1</p>	<p>000-255</p>
30	43		<p>Effect macro speed 2 Same assignment as effect macro speed 1</p>	<p>000-255</p>
31	44	20	<p>Black body shift Off Minus green (-1% -> -100%) Neutral white Plus green (+1% -> +100%)</p>	<p>000-000 001-127 128-128 129-255</p>

32	45	21	Transition pixel mode	000-255
	46		Transition pixel mode fine 16Bit	000-255

Arrangement of LED groups 1-19 (Sparx 9)

The pan/tilt values are set to 0°/-77°; the display shows in the same direction as the LEDs.



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2.1.3 Colour mixing / CTO

The Sparx 12 has a colour wheel emulation channel, main RGBW, pattern RGBW, glow RGBW and a CTO channel. In order to survey the functions, they are allocated different priorities. The colour wheel channel has first priority over the main RGBW. You can only work with the RGBW colour mixtures if the colour wheel channel is set to DMX value 000. The RGBW glow channels are used to generate basic lighting in the lighting field and to then superimpose this with the RGBW. The spotlight always mixes the colours using RGB in the optimum combination of RGBW channels. The white channel can be used to generate pastel colours as soon as the RGB channel has a DMX value of less than 255.

The CTO channel can be used both in conjunction with the colour wheel emulation channel and with RGBW colour mixing. It depends on the base colour adjustment in which the spotlight is operated. -> PERSONALITY -> COLOR TEMP MODE. If a fixed colour temperature value is set, e.g. 6500K, the spotlight can be set to between 6500K and 2700K using the CTO channel. In the PERSONALITY -> COLOR TEMP MODE -> VARIABLE, the CTO channel can be used to set the spotlight to 2000K-20000K. The DMX values of the CT channel x 100 correspond to the colour value in Kelvin, DMX32 -> CTO 3200K. The CTO always runs on the black body line!

2.1.4 Control channel

The control channel can be used to switch various functions of the headlamp. The following functions can be switched.

Response of the headlamp when dimming via faders

COLOR MIX POWER LIMIT - Adjustment of total power consumption

CONSTANT COLOR MODE - Adjust color fidelity

CONSTANT BRIGHTNESS MODE - setting for constant brightness

CONSTANT BRIGHTNESS LIMIT - Setting the limit for constant regulation of the speed

BACKLIGHT MODE - Display backlight

DISPLAY ORIENTATION - Display orientation

MAIN SCREEN MODE - main screen view

USER FIXTURE ID SET - Set fixture number

USER WHITE POINT - Setting the color temperature of the "white LED"

BLACK BODY SHIFT - Adjustment +/- green

DIMMER CURVE - Dimmer curve adjustment

RGBW CURVE - Setting the RGBW curve

PAN / TILT SPEED - pan / tilt speed

EFFECT SPEED - effect speed

FAN WHITE OPTION MODE - working optimized for noise or brightness

COOLING MODE - Adjust the fan volume and brightness

COLOR TEMP MODE - setting the color temperature

FAN MODE - Sets the basic volume in the selected COOLING MODE

CAMERA MODE - Sets the LED refresh rate

RESET - A basic reset of the headlight is performed

To enable uniform dimming manually via faders for all light mixing consoles, 5 different settings for the DMX smoothing are available. If the DMX signal is interrupted or too few packets are sent on some DMX consoles, this channel can be used to adjust the response of the headlamp. The Minimum DMX Smoothing setting should work on most popular consoles. The values for DMX smoothing must be permanent.

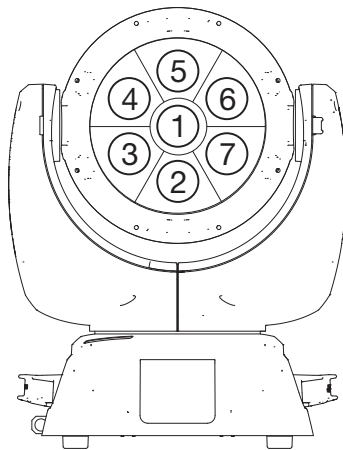
For the other values such as Cooling Mode, Color Temperature the values must be present for 2 seconds, then the device is permanently switched over. The exception is the setting of the COOLING-MODE, here it depends on the switch SAFE MODE SWITCH, if it is on OFF the COOLING-MODES can be switched directly, if this is ON the DIMMER and SHUTTER must get the DMX-value 0. Only then can be switched.

2.1.5 Sparkle / sparkle speed

This channel gives the Sparx 12 its name. This can be used to create unique effects in conjunction with the zoom and dimmer. Depending on the intensity, the lighting field is split into its base colours, i.e. the individual LEDs for full colours are dimmed in/out, mixed colours split into their base colours or the effect is performed with neutral colour depending on the sparkle speed channel's setting. The sparkle speed channel can also be used to select where the sparkle effect occurs, in the inner area, outer area or complete spotlight.

2.1.6 Pixel mode cross-fading (transition)

The pixel mode cross-fading channel can be used to switch or cross-fade between the internal effect engine and base functions, and real LED control. If this channel sends DMX value 255, the spotlight works at 100 % in individual LED control. The following channels for LED group 1-19 -76 channels) can be “attached” to any spotlight operation mode -> PERSONALITY -> PIXEL MODE and are used to control the individual LEDs, always in the sequence red, green, blue, white. The following illustrations show the arrangement of the LED groups when the spotlight is controlled in a standing position with PAN/TILT values 127/60 and the display shows in the same direction as the LEDs.



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2.2 Artnet

The spotlight can be controlled via Artnet - ArtNET 4. To do this, set the Artnet address via the menu item DMX / NET ADDR -> ARTNET ADDRESS and also select it via the menu item PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> ARTNET. In addition, define the IP address of the spotlight via PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS.

2.3 Streaming ACN

The headlight can be controlled via sACN - Streaming ACN. To do this, set the sACN address via the menu item DMX / NET ADDR -> SACN ADDRESS and also select it via the menu item PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> SACN. In addition, define the IP address of the spotlight via PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS.

2.4 Wireless-DMX

The Sparx 12 Profile is equipped with a Lumen Radio CRMX receiver for wireless DMX. The receiver can process both DMX and RDM. If there is a cable and wireless connection to the Sparx 12, the cable connection has priority! The received signal can be output via the DMX connection. To do this, set the DMX OUTPUT CONFIG setting to ON in the PERSONALITY menu. After confirming with ENTER, the spotlight will output the entire universe received via wireless DMX.

2.5 RDM

The Sparx 12 Profile can communicate via RDM (Remote Device Management) in accordance with ESTA American National Standard E1.20-2006. RDM is a bidirectional communication protocol for use in DMX512 control systems. It is the open standard for the configuration and status monitoring of DMX-512 devices. The RDM protocol enables data packets to be inserted into a DMX-512 data stream without affecting existing non-RDM devices. It enables a console or dedicated RDM controller to send commands to specific devices and receive messages. The Sparx 12 Profile can send and receive RDM via DMX and Artnet 4. The spotlight is also designed to send RDM via sACN and receive it via Artnet. The RDM functionality depends on the lighting control desk used, the operating instructions of the respective desk manufacturer must also be observed.

2.5.1 RDM-UID

Every Sparx 12 Profile has a factory-set RDM-UID (unique identification number), which makes it addressable and identifiable in RDM systems.

2.5.2 RDM-PIDs

The Sparx 12 Profile supports the RDM PIDs (parameter IDs) required by ESTA as well as manufacturer-specific PIDs.

2.5.3 Standard RDM parameter IDs

RDM-Parameter-ID	GET Befehl	SET Befehl	DISCO-VERY	Anmerkungen
RDM-Identifikation				
DISC_UNIQUE_BRANCH			✓	dient der Scheinwerferidentifikation
DISC_MUTE			✓	dient der Scheinwerferidentifikation
DISC_UN_MUTE			✓	dient der Scheinwerferidentifikation
RDM-Statusermittlung				
QUEUED_MESSAGE	✓			
STATUS_MESSAGES	✓			
STATUS_ID_DESCRIPTION	✓			
CLEAR_STATUS_ID		✓		
RDM-Information				
SUPPORTED_PARAMETERS	✓			
RDM-Konfiguration				
DEVICE_MODEL_DESCRIPTION	✓			
MANUFACTURER_LABEL	✓			
FACTORY_DEFAULTS		✓		
SOFTWARE_VERSION_LABEL	✓			
DMX_PERSONALITY		✓		
DMX_PERSONALITY_DESCRIPTION	✓			
DMX_START_ADDRESS		✓		
SENSOR_DEFINITION	✓			
DEVICE_HOURS	✓			
LAMP_HOURS	✓			
IDENTIFY_DEVICE		✓		
RESET_DEVICE		✓		
PERFORM_SELFTEST		✓		
SELFTEST_DESCRIPTION	✓			

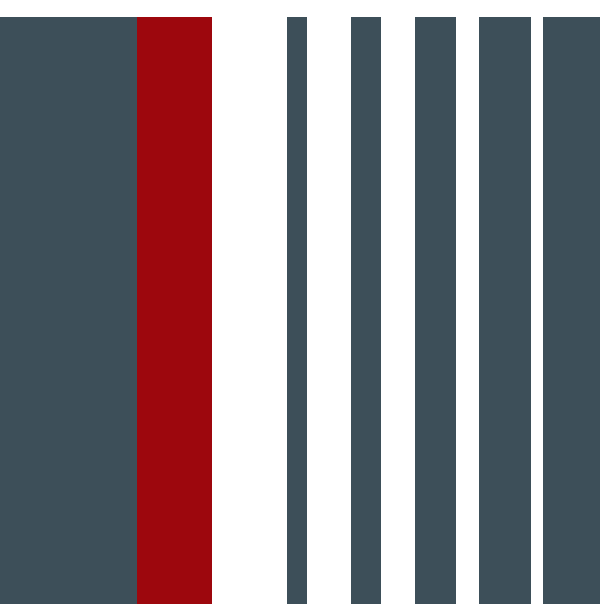
2.5.4 Manufacturer specific RDM parameter IDs

RDM-Parameter-ID	GET Befehl	SET Befehl	DISCO-VERY	Anmerkungen
RDM-Konfiguration				
Battery Charge Hours	✓			
Error Number	✓			
Error	✓			
Select Next Error		✓		
Remove Error		✓		
Remove New Error Flag		✓		
User Defaults		✓		
User Fixture ID		✓		

Fixture Lock On/Off	✓	✓		
Dimmer Curve	✓	✓		
RGB Curve	✓	✓		
Camera Mode	✓	✓		
Cooling Mode	✓	✓		
Pan Tilt Speed	✓	✓		
Effect Speed	✓	✓		
Backlight Mode	✓	✓		
Disp Orientation	✓	✓		
Main Screen Mode	✓	✓		
Safe Mode Switch	✓	✓		
Beamshape	✓	✓		
Color Mix Power Limit	✓	✓		
Color Temperature Mode	✓	✓		
Constant Brightnes Limit	✓	✓		
Constant Brightness Mode	✓	✓		
Constant Color Mode	✓	✓		
Pixel Mode	✓	✓		
Zoom Mode	✓	✓		
User White Point	✓	✓		
Black Body Shift	✓	✓		
Fan Mode	✓	✓		
Fan White Option Mode	✓	✓		

2.5.5 RDM sensoren IDs

RDM-Sensor-ID	GET Befehl	SET Befehl	DISCO-VERY	Anmerkungen
RDM-Sensoren				
Temp Sens Base LCD	✓	✓		
Temp Sens Base PS	✓	✓		
Temp Sens Base AIR	✓	✓		
Temp Sens Head PCB	✓	✓		
Temp Sens Head DRV	✓	✓		
Temp Sens Head LED	✓	✓		



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