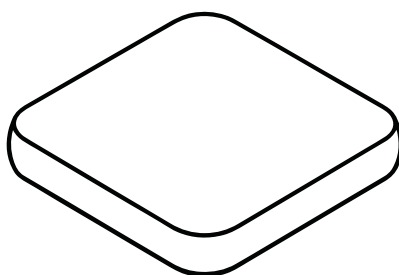


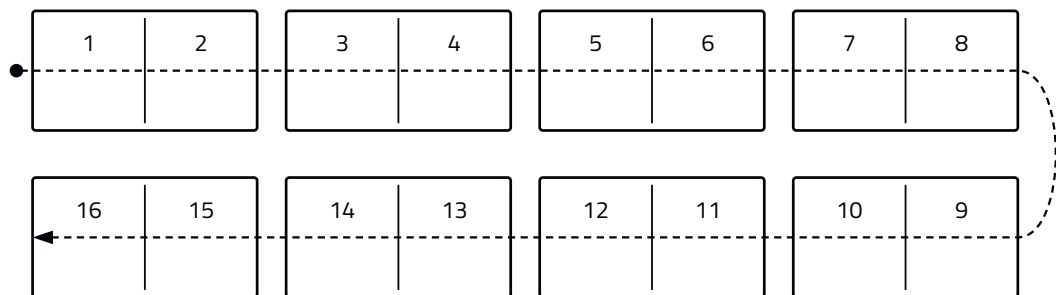
SKY GRID

Lightweight full-color LED Pixel System

User manual and DMX Table



SKYGRID 2x8 TEC STUFF



Technical data

Light source

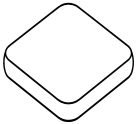
LED Engine	RGB Tungsten Daylight	+/- Green / Magenta	± 1.0 (full) ¹¹
Pixel Engine	16 Pixel in total, 2x8 array	PWM refresh	19.5 kHz, flicker-free
Total light output	1650 W max	Dimming	0 – 100 %
CRI / TLCI	≥ 96 / ≥ 98	DMX input resolution	8-bit per channel
CCT range	1700K – 10000K ²	Driver resolution	16-bit internal
Colors	WarmWhite 2700K, native ColdWhite 6500K, native Red, Green, Blue		

Electrical

Power input	100–240 V AC, 50/60 Hz
Power consumption	1800 W max
Mains connector	powerCON TRUE1 in / out
Operating temp.	–10 °C to +45 °C
Ingress protection	LED-Inlay IP20 - Base Station: IP54

Connections and Protocols

DMX-512 input	5-pin XLR in / out (RDM ANSI E1.20 compliant)
Network Protocols	Art-Net 4 · sACN E1.31 ³
Wireless DMX	CRMX and W-DMX ⁴



DMX AND PIXEL ADDRESSING

Sixteen full-color pixels arranged in two rows of eight, grouped into eight physical hardware segments (NODE1...NODE8). DMX addressing follows a serpentine path: row A left-to-right, row B right-to-left. Per-pixel DMX offsets shown below assume the 80-channel pixel mode (5 ch / pixel).

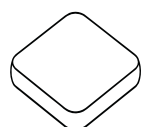
DMX personalities

Two personalities cover all use cases — **Single channels** for traditional CCT-style control of the whole fixture, and **Pixel** for per-pixel content and chases. DMX input is always 8-bit per channel; the LED driver converts to 16-bit for flicker-free dimming and smooth colour mixing.

Mode 1 — Single channels	Mode 2 — Pixel
12 channels · default personality Master Dimmer · CCT · G/M Shift · Single Colors · Presets	80 channels · 5 ch per pixel · 16 pixels

Mode 1 — Single channels

DMX Channel	Function	DMX Value	Description
1	Master Intensity	000 ... 255	0 ... 100% Dimmer ⁵
2	CCT	000 ... 255	1700K to 10000K
3	Green / Magenta Shift	000 ... 027	Neutral
		028 ... 127	Green -100 to -1
		128 ... 155	Neutral
		156 ... 255	Green +1 to +100
4	Crossfade CCT and Color	000 ... 255	0 ... 100% CCT to Color
5	Red	000 ... 255	0 ... 100%
6	Green	000 ... 255	0 ... 100%
7	Blue	000 ... 255	0 ... 100%
8	White / CCT	000 ... 255	0 ... 100%
9	Presets User	000 ... 127	Not implemented yet
	Presets Factory ⁶	128 ... 143	2500K (tbd)
		144 ... 159	2900K (tbd)
		160 ... 175	3200K (tbd)
		176 ... 191	5600K (tbd)
		192 ... 207	6500K (tbd)

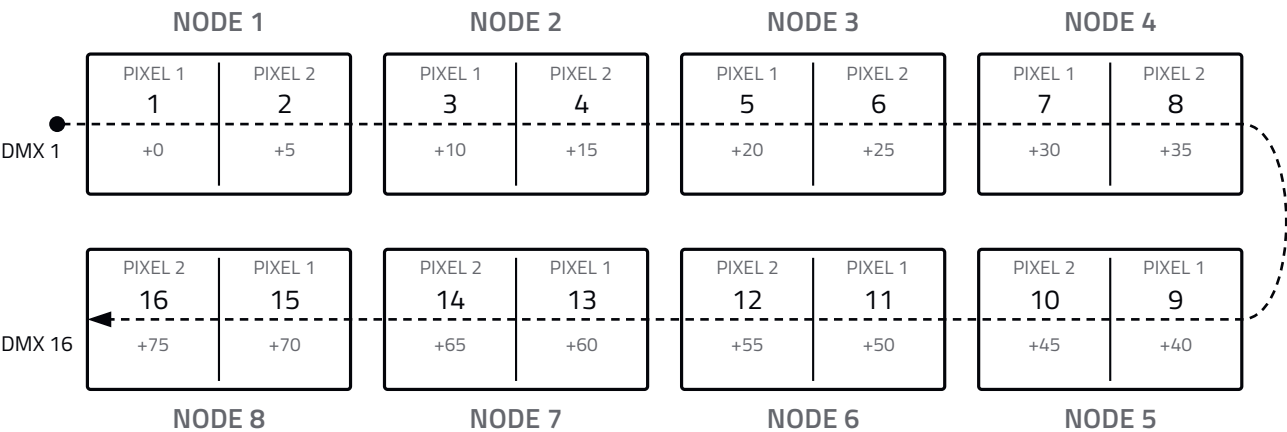


DMX Channel	Function	DMX Value	Description
9	Presets Factory	208 ... 223	Reserved
		224 ... 239	Reserved
		240 ... 255	Reserved
12			Reserved

Mode 2 — PIXEL

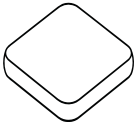
80 channels · 5 ch per pixel · 16 pixels

Each pixel consumes 5 consecutive channels: Intensity, Red, Green, Blue, CCT (CW↔WW).



DMX Channel	Function	DMX Value	Description
1	Master Intensity	000 ... 255	0 ... 100% - for all Pixel
2	Green / Magenta Shift	000 ... 027	Neutral
		028 ... 127	Green -100 to -1
		128 ... 155	Neutral
		156 ... 255	Green +1 to +100
3	Pixel 1 Intensity	000 ... 255	0 ... 100% - Pixel 1
4	Pixel 1 CCT	000 ... 255	0 ... 100% - Pixel 1 1700K to 10000K
5	Pixel 1 Crossfade	000 ... 255	0 ... 100% CCT to Color Pixel 1
6	Red	000 ... 255	0 ... 100% Pixel 1
7	Green	000 ... 255	0 ... 100% Pixel 1
8	Blue	000 ... 255	0 ... 100% Pixel 1

Pixels are addressed in the serpentine order — Pixel 1 starts at offset +0, Pixel 16 at +75. Repeat Layout from channel 3 through 8.



RDM commands

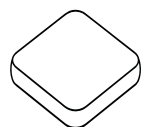
Standard-PIDs and Manufacturer-specific PIDs

The fixture responds to a subset of ANSI E1.20 standard PIDs plus one manufacturer-specific PID. Use any RDM-capable controller. Some Commands might not work full currently. Placeholder set below until firmware is final.

Manufacturer ID: 08B6 (Graf Lichttechnik)

Model ID: 328 (SKYGRID 2x8)

PID	PID Hex	COMMANDS	Description
REQUIRED COMMANDS			
DISC_UNIQUE_BRANCH	0x0001	GET	Searches RDM device
DISC_MUTE	0x0002	SET	Mutes the RDM device, no response messages
DISC_UN_MUTE	0x0003	SET	Clear Mute-flag. Activate RDM device for response message
RDM INFORMATION			
SUPPORTED_PARAMETERS	0x0050	GET	Shows a list of all supported RDM commands
PARAMETER_DESCRIPTION	0x0051	GET	Shows a list of supported manufacturer RDM commands - starting at 0x8110
PRODUCT INFORMATION			
DEVICE_INFO	0x0060	GET	
DEVICE_MODEL_DESCRIPTION	0x0080	GET	
MANUFACTURER_LABEL	0x0081	GET	
DEVICE_LABEL	0x0082	GET / SET	
SOFTWARE_VERSION_LABEL	0x00C0	GET	
FACTORY_DEFAULTS	0x0090	GET / SET	
DEVICE_HOURS	0x0400	GET	
DMX SETTINGS			
DMX_START_ADDRESS	0x00F0	GET / SET	
DMX_PERSONALITY	0x00E0	GET / SET	
DMX_PERSONALITY_DESCRIPTION	0x00E1	GET	
DMX_FAIL_MODE	0x0141	GET / SET	Not implemented yet
STATUS INFORMATION			
STATUS_MESSAGES	0x0030	GET	
SENSOR INFORMATION			
SENSOR_CUR_TEMP_CLOUD	0x8110	GET	Not implemented yet



SENSOR INFORMATION			
SENSOR_CUR_TEMP_NODE1	0x8111	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE2	0x8112	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE3	0x8113	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE4	0x8114	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE5	0x8115	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE6	0x8116	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE7	0x8117	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE8	0x8118	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE9	0x8119	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE10	0x811A	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE11	0x811B	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE12	0x811C	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE13	0x811D	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE14	0x811E	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE15	0x811F	GET	Not implemented yet
SENSOR_CUR_TEMP_NODE16	0x8120	GET	Not implemented yet
SENSOR_CURRENT_PRESSURE	0x8201	GET	Not implemented yet
SENSOR_CURRENT_WIND	0x8202	GET	Not implemented yet
SENSOR_ALARM_TEMP	0x81F0	GET / SET	Not implemented yet

