DMX REFERENCE

Matrix Eye 2

GLP Matrix Eye 2

GLP



Manufacturer	GLP
GDTF file	GLP_Matrix_Eye_2_162605.gdtf
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1 About this manual

This document describes the GLP Matrix Eye 2 by GLP. It was compiled from the GDTF file GLP_Matrix_Eye_2_162605.gdtf from the GDTF-Share library.

File revision: “20260929_MatrixEye2_byGLP_sw1-0-3_V2”.

The DMX modes, the channel functions and the technical data are given as the GDTF file states them. Installation, operation from the device's control panel, service and safety instructions are described in the manufacturer's original user manual, which takes precedence over this document.

This document was not issued or endorsed by GLP; product names and trademarks belong to their owners.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

> **NOTE** This product is designed for stage and effect lighting. It is not suitable for household room illumination.

2 Quick reference

Parameter	Value
Weight	11.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 1 Individual Generic (2 ch)	2	256	1, 3, 5, 7, ...
Mode 2 All Full RGBAL (19 ch)	19	26	1, 20, 39, 58, ...
Mode 4 Multi Fixture RGBAL (38 ch)	38	13	1, 39, 77, 115, ...
Mode 5 Pixelmap RGB (6 ch)	6	85	1, 7, 13, 19, ...
Mode 2 All Full RGB (19 ch)	19	26	1, 20, 39, 58, ...
Mode 4 Multi Fixture RGB (38 ch)	38	13	1, 39, 77, 115, ...
Mode 5 Pixelmap Virtual Dim RGB	6	85	1, 7, 13, 19, ...
Mode 3 All Individual Full RGBAL (29 ch)	29	17	1, 30, 59, 88, ...
Mode 3 All Individual Full RGB (29 ch)	29	17	1, 30, 59, 88, ...


Read the manual before use


Do not stare into the light


Indoor use only

3 Safety instructions



Read the manual before use



Do not stare into the light



Indoor use only

⚠ WARNING

- This device is intended for professional use. Installation, connection, setup and maintenance must be carried out only by suitably qualified persons who have read this manual.
- Use the device only for its intended purpose and as described in this manual.
- Do not open the housing and do not modify or tamper with the device. Refer all repairs to an authorized service center.
- Do not use the device if its housing, power or data cable, or a connector is damaged, if the device has been dropped, or if liquid or a foreign object has entered it. In such a case, have it checked by a service center.
- Disconnect the device from the power supply before cleaning, maintenance or any work on the connections.
- After moving the device from a cold to a warm environment, let it reach room temperature before switching it on to prevent condensation inside.
- The device is not a toy; keep it out of the reach of children.

⚠ WARNING

- This device is designed for indoor use only. Protect it from rain, splashing water, moisture and dust, and do not place containers with liquids on it.
- Do not operate the device in high humidity, near water, or where condensation can form on it.

⚠ CAUTION

- This device emits intense light. Do not look directly into the light source or the beam at close range; doing so may damage your eyes.
- Do not aim the beam at the eyes of people or animals at close range, and do not view the light source through optical instruments (binoculars, camera lenses).
- Do not aim the beam at flammable or heat-sensitive materials at close range.

⚠ CAUTION

- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them longer than necessary.

4 Product description

Description in the GDTF file

“Caution when working in Mode 3. This mode is based on virtual dimmers for all heads. The Red Shift function (Dimmer Mode) only works when using the original dimmer (default in Mode 3 100% Open)”

5 Installation

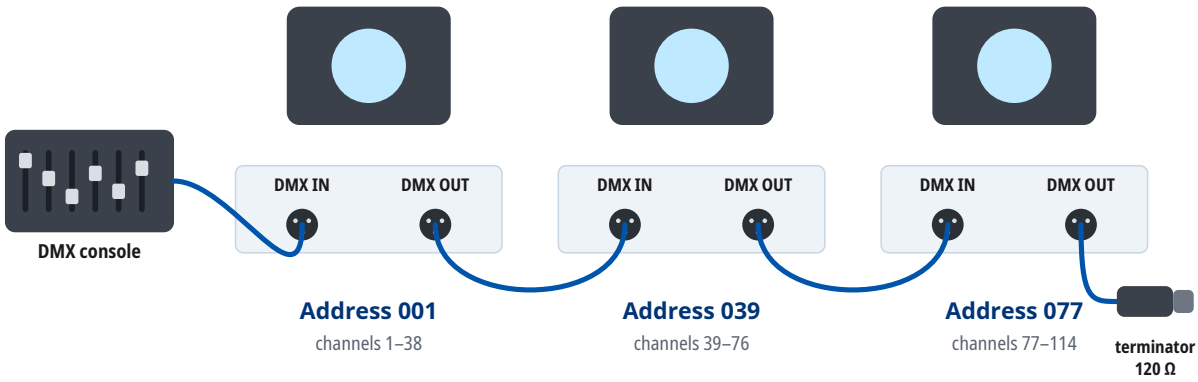
⚠ WARNING

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 11.5 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

6 Connections

- Use shielded cable designed for DMX512 with an impedance of 110 Ω. Ordinary microphone cable is not suitable for DMX, especially over longer distances.
- Connect the devices in a daisy chain: connect the DMX OUT of one device to the DMX IN of the next. Do not split the line with Y-cables or wire it in a star; the line may be split only with a DMX splitter.
- Connect the shield to pin 1 only. Do not connect the shield (ground) to the metal shell of the connector; this can cause short circuits or erratic behavior.
- XLR pin assignment: pin 1 – shield (ground), pin 2 – Data- (Data Complement), pin 3 – Data+ (Data True). On 5-pin connectors, pins 4 and 5 are not connected; a 5-pin connector can be connected to a 3-pin one with a cable adapter.
- Terminate the end of the line (for impedance matching): plug an XLR connector with a 120 Ω, ¼ W resistor between pins 2 and 3 into the DMX OUT of the last device. This reduces the risk of erratic behavior.
- Connect no more than 32 devices to one DMX line. For more devices or longer runs, use a DMX splitter or booster.

DMX line



Mode 4 Multi Fixture RGBAL (38 ch): every unit occupies 38 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

7 Operation

Setting the DMX address

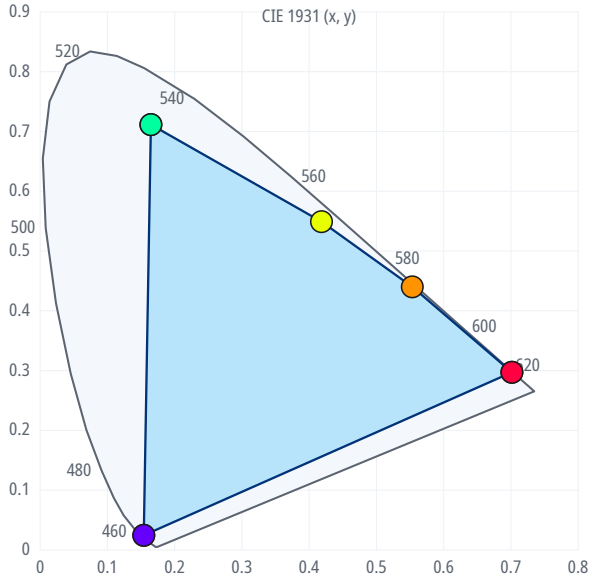
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Mode 4 Multi Fixture RGBAL (38 ch)”: 38.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “Mode 4 Multi Fixture RGBAL (38 ch)”, you can use, for example, the start addresses 1, 39, 77, 115.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.
- The device supports RDM (Remote Device Management), two-way communication with the controller over the DMX line.

8 Functions at a glance

Functions in each DMX mode

	Mode 1 Individual Generic (2 ch) 2 channels	Mode 2 All Full RGBAL (19 ch) 19 channels	Mode 4 Multi Fixture RGBAL (38 ch) 38 channels	Mode 5 Pixelmap RGB (6 ch) 6 channels	Mode 2 All Full RGB (19 ch) 19 channels	Mode 4 Multi Fixture RGB (38 ch) 38 channels	Mode 5 Pixelmap Virtual Dim RGB 6 channels	Mode 3 All Individual Full RGBAL (29 ch) 29 channels
Dimmer	5 channels (1–20)	**1**	4 channels (1–20)		**1**	4 channels (1–20)	✓	**1**
Dimmer resolution	8 bit	16 bit	16 bit		16 bit	16 bit		16 bit
Shutter / strobe		**3, 4**	8 channels (3–23)		**3, 4**	8 channels (3–23)		**3, 4**
Color mixing		**5× (10–18)**	20 channels (10–37)	1–6, 11–13, 20–22	**10, 12, 14**	12 channels (10–33)	1–6, 11–13, 20–22	20 channels (10–37)
Color temperature		**9**	4 channels (9–28)		**9**	4 channels (9–28)		**9**

LED colors and the colors they mix

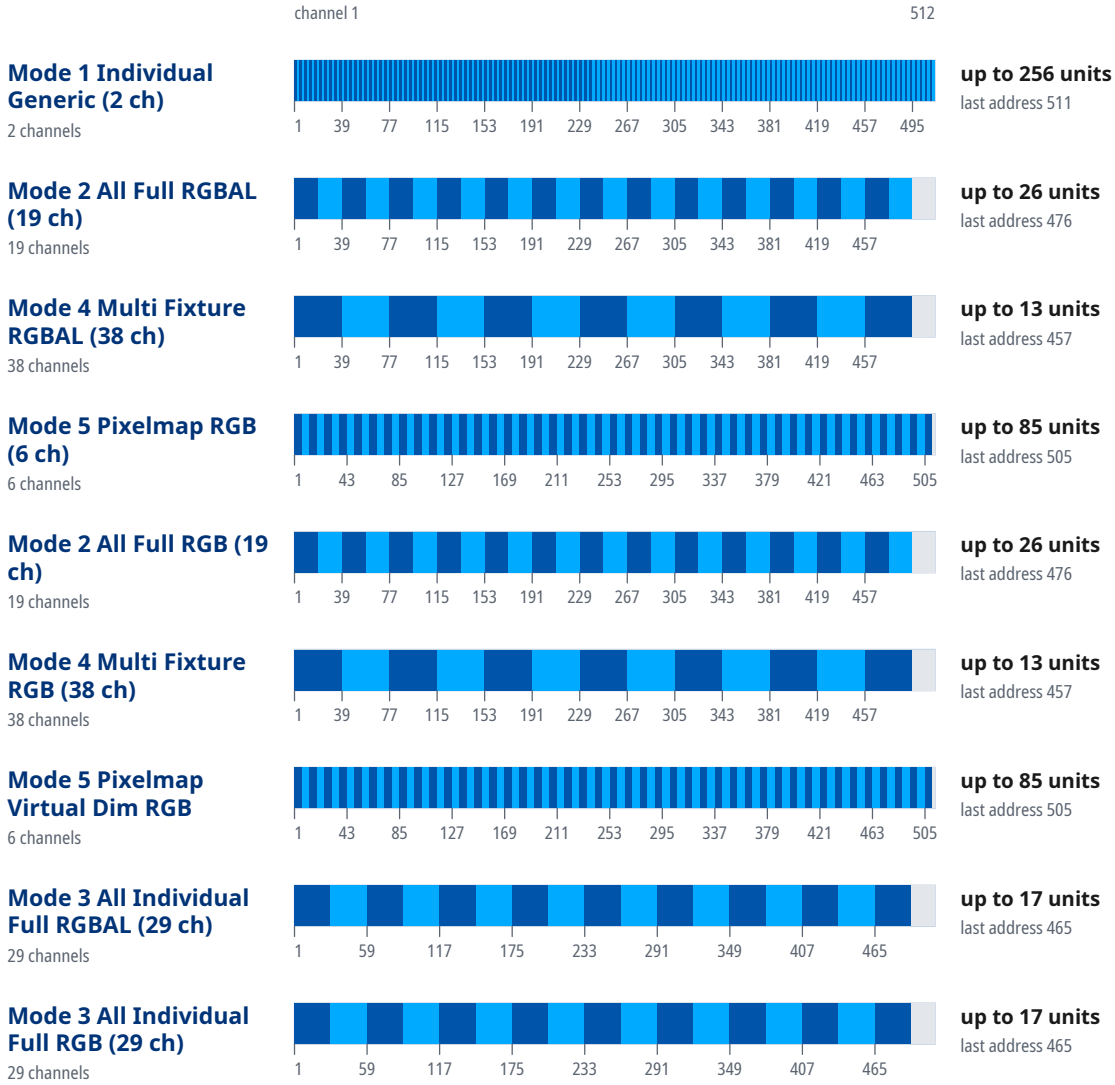


LED	x	y
Red	0.701	0.297
Green	0.165	0.711
Blue	0.154	0.024
Amber	0.553	0.440
Lime	0.418	0.549
6500K Red	0.701	0.297
6500K Green	0.165	0.711
6500K Blue	0.154	0.024

The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Mode 4 Multi Fixture RGBAL (38 ch)”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	191	11	381	16	U2 · 77
2	39	7	229	12	419	17	U2 · 115
3	77	8	267	13	457	18	U2 · 153
4	115	9	305	14	U2 · 1	19	U2 · 191
5	153	10	343	15	U2 · 39	20	U2 · 229

Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode 1 Individual Generic (2 ch)

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255.

CH	Function	DMX	Description
1	Dimmer 1	0	Closed
		1–254	Closed … Open
		255	Open
2	Dimmer 2	0	Closed
		1–254	Closed … Open
		255	Open

Mode 2 All Full RGBAL (19 ch)

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 3 Strobe Duration at 0 “Open”; CH 4 Strobe Speed at 255 “Open”; CH 7 Dimmer Mode above 9. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 4 Strobe Speed 255, CH 7 Dimmer Mode 0, CH 9 Color Temperature 0, CH 10 Red 255, CH 12 Green 255, CH 14 Blue 255, CH 16 Amber 255, CH 18 Lime 255.

CH	Function	DMX	Description
1	Dimmer	0–63	Closed … 25%
		64–127	25% … 50%
		128–191	50% … 75%
		192–255	75% … Open
		255	Open
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Strobe Duration	0	Open
		1–254	Open … 650ms
		255	650ms
4	Strobe Speed	0	Closed
		1–4	Closed … Slow
		5	Slow
		6–127	Slow … Medium
		128	Medium
		129–249	Medium … Fast
		250	Fast
		251–254	Fast … Open
		255	Open
5	Strobe	0–4	Off Normal Strobe
		5	Single Flash 1
		6	Single Flash 1 … Over Flash
		7	Over Flash
		8	Over Flash … Single Flash 2

CH	Function	DMX	Description
5	Strobe (continued)	9	Single Flash 2
		10–14	Spread Period (Offset) FX
		15–19	Spread Sequential FX
		20–24	Random All
		25–29	Random Heads
		30–34	Pulse All
		35–39	Puls Random All
		40–44	Puls Random Heads
		45–49	Puls Open All
		50–54	Puls Open Random All
		55–59	Puls Open Random Heads
		60–64	Puls Close All
		65–69	Puls Close Random All
		70–74	Puls Close Random Heads
		75–79	Double-Flash All
		80–84	Double-Flash Random All
		85–89	Triple-Flash All
		90–94	Triple Flash Random All
		95–99	Lightning
		100–104	Paparazzi
		105–109	Spikes All
		110–114	Spikes Segments
		115–255	No function
6	Control	0–9	Idle
		10–11	Idle … IQ Service Connect
		12–13	IQ Service Connect
		14–19	IQ Service Connect … Square Dimmer Curve
		20–21	Square Dimmer Curve
		22–23	Linear Dimmer Curve
		24–25	S-Curve Dimmer Curve
		26–29	S-Curve Dimmer Curve … Display Mode Off
		30–31	Display Mode Off
		32–33	Display Mode Auto
		34–35	Display Mode On
		36–37	Display Mode On … Display Orientation Auto
		38–39	Display Orientation Auto
		40–41	Display Orientation Normal
		42–43	Display Orientation Flip
		44–45	Display Orientation Flip … No Signal Blackout
		46–47	No Signal Blackout
		48–49	No Signal Hold
		50–51	No Signal Scene

CH	Function	DMX	Description
6	Control (continued)	52–53	Capture DMX Scene
		54–55	Capture DMX Scene … Fan Mode Minimum
		56–57	Fan Mode Minimum
		58–59	Fan Mode Regulatet
		60–61	Fan Mode High
		62–63	Fan Mode Medium
		64–65	Fan Mode Low
		66–69	Fan Mode Low … Pixel Mirror Off
		70–71	Pixel Mirror Off
		72–73	Pixel Mirror X-mirror
		74–75	Pixel Mirror Y-mirror
		76–77	Pixel Mirror X;Y-mirror
		78–79	Pixel Mirror X;Y-mirror … Duration Control Normal
		80–81	Duration Control Normal
		82–83	Duration Control Percentage
		84–85	Duration Control Percentage … Output Mode Boost
		86–87	Output Mode Boost
		88–89	Output Mode Constant
		90–91	Output Mode Constant … Color Mix Speed Snap
		92–93	Color Mix Speed Snap
		94–95	Color Mix Speed Fade
		96–97	Pixel Rotation Off
		98–99	Pixel Rotation 90*
		100–101	Pixel Rotation 180*
		102–103	Pixel Rotation 270*
		104–135	Pixel Rotation 270* … White Point Off
		136–137	White Point Off
		138–139	White Point 8000K
		140–141	White Point 6500K
		142–143	White Point 5600K
		144–145	White Point 4200K
		146–147	White Point 3200K
		148–165	White Point 3200K … Color Mode RGB
		166–167	Color Mode RGB
		168–169	Color Mode RGBAL
		170–189	Color Mode RGBAL … Hibernation Off
		190–191	Hibernation Off
		192–193	Hibernation On
		194–213	Hibernation On … PWM Low
		214–215	PWM Low
		216–217	PWM Optimal
		218–219	PWM High 1

CH	Function	DMX	Description
6	Control (continued)	220–221	PWM High 2
		222–223	PWM Max
		224–229	PWM Max ... Save Preset 1
		230–231	Save Preset 1
		232–233	Save Preset 2
		234–235	Save Preset 3
		236–237	Save Preset 3 ... Load Preset 1
		238–239	Load Preset 1
		240–241	Load Preset 2
		242–243	Load Preset 3
		244–245	Load Setting Default
		246–253	Load Setting Default ... Reset ALL
		254–255	Reset ALL
7	Dimmer Mode		Tungsten Simulation
		0–9	OFF
		10–19	Tungsten ACL 250W/28V
		20–29	Tungsten Blinder 650W/120V
		30–39	Tungsten750W/80V
		40–49	Tungsten 1000W/240V
		50–59	Tungsten 1200W/240V
		60–69	Tungsten 2000W/230V
		70–79	Tungsten 2500W/230V
		80–89	Tungsten 5000W/230V
		90–119	No function
		120–139	OFF
		140–149	FX Tungsten ACL 250W/28V
		150–159	FX Tungsten Blinder 650W/120V
		160–169	FX Tungsten750W/80V
		170–179	FX Tungsten 1000W/240V
		180–189	FX Tungsten 1200W/240V
		190–199	FX Tungsten 2000W/230V
		200–209	FX Tungsten 2500W/230V
		210–219	FX Tungsten 5000W/230V
		220–255	No function
8	Undefined	0–255	
9	Color Temperature	0	Open Whitepoint Default
		1–9	CTC
		10	10000K
		11–12	10000K ... 9900K
		13	9900K
		14–16	9900K ... 9800K
		17	9800K

CH	Function	DMX	Description
9	Color Temperature (continued)	18–19	9800K … 9700K
		20	9700K
		21–22	9700K … 9600K
		23	9600K
		24–25	9600K … 9500K
		26	9500K
		27–28	9500K … 9400K
		29	9400K
		30–31	9400K … 9300K
		32	9300K
		33–35	9300K … 9200K
		36	9200K
		37–38	9200K … 9100K
		39	9100K
		40–41	9100K … 9000K
		42	9000K
		43–45	9000K … 8900K
		46	8900K
		47–48	8900K … 8800K
		49	8800K
		50–51	8800K … 8700K
		52	8700K
		53–54	8700K … 8600K
		55	8600K
		56–58	8600K … 8500K
		59	8500K
		60–61	8500K … 8400K
		62	8400K
		63–64	8400K … 8300K
		65	8300K
		66–68	8300K … 8200K
		69	8200K
		70–71	8200K … 8100K
		72	8100K
		73–74	8100K … 8000K
		75	8000K
		76–78	8000K … 7900K
		79	7900K
		80–81	7900K … 7800K
		82	7800K
		83–84	7800K … 7700K
		85	7700K

CH	Function	DMX	Description
9	Color Temperature (continued)	86–87	7700K … 7600K
		88	7600K
		89–91	7600K … 7500K
		92	7500K
		93–94	7500K … 7400K
		95	7400K
		96–97	7400K … 7300K
		98	7300K
		99–100	7300K … 7200K
		101	7200K
		102–104	7200K … 7100K
		105	7100K
		106–107	7100K … 7000K
		108	7000K
		109–110	7000K … 6900K
		111	6900K
		112–114	6900K … 6800K
		115	6800K
		116–117	6800K … 6700K
		118	6700K
		119–120	6700K … 6600K
		121	6600K
		122–123	6600K … 6500K
		124	6500K
		125–127	6500K … 6400K
		128	6400K
		129–130	6400K … 6300K
		131	6300K
		132–133	6300K … 6200K
		134	6200K
		135–136	6200K … 6100K
		137	6100K
		138–140	6100K … 6000K
		141	6000K
		142–143	6000K … 5900K
		144	5900K
		145–146	5900K … 5800K
		147	5800K
		148–150	5800K … 5700K
		151	5700K
		152–153	5700K … 5600K
		154	5600K

CH	Function	DMX	Description
9	Color Temperature (continued)	155–156	5600K … 5500K
		157	5500K
		158–159	5500K … 5400K
		160	5400K
		161–163	5400K … 5300K
		164	5300K
		165–166	5300K … 5200K
		167	5200K
		168–169	5200K … 5100K
		170	5100K
		171–173	5100K … 5000K
		174	5000K
		175–176	5000K … 4900K
		177	4900K
		178–179	4900K … 4800K
		180	4800K
		181–182	4800K … 4700K
		183	4700K
		184–186	4700K … 4600K
		187	4600K
		188–189	4600K … 4500K
		190	4500K
		191–192	4500K … 4400K
		193	4400K
		194–196	4400K … 4300K
		197	4300K
		198–199	4300K … 4200K
		200	4200K
		201–202	4200K … 4100K
		203	4100K
		204–206	4100K … 4000K
		207	4000K
		208–209	4000K … 3900K
		210	3900K
		211–212	3900K … 3800K
		213	3800K
		214–216	3800K … 3700K
		217	3700K
		218–219	3700K … 3600K
		220	3600K
		221–222	3600K … 3500K
		223	3500K

CH	Function	DMX	Description
9	Color Temperature (continued)	224–226	3500K … 3400K
		227	3400K
		228–229	3400K … 3300K
		230	3300K
		231–232	3300K … 3200K
		233	3200K
		234–236	3200K … 3100K
		237	3100K
		238–239	3100K … 3000K
		240	3000K
		241–242	3000K … 2900K
		243	2900K
		244–246	2900K … 2800K
		247	2800K
		248–249	2800K … 2700K
		250	2700K
		251–252	2700K … 2600K
		253	2600K
		254–255	2500K
10	Red	0–255	
11	Red Fine	0–255	Fine adjustment of CH 10
12	Green	0–255	
13	Green Fine	0–255	Fine adjustment of CH 12
14	Blue	0–255	
15	Blue Fine	0–255	Fine adjustment of CH 14
16	Amber	0–255	
17	Amber Fine	0–255	Fine adjustment of CH 16
18	Lime	0–255	
19	Lime Fine	0–255	Fine adjustment of CH 18

Mode 4 Multi Fixture RGBAL (38 ch)

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 3 Strobe Duration 1 at 0 “Open”; CH 4 Strobe Speed 1 at 255 “Open”; CH 7 Dimmer Mode 1 above 9; CH 20 Dimmer 2 above 0; CH 22 Strobe Duration 2 at 0 “Open”; CH 23 Strobe Speed 2 at 255 “Open”; CH 26 Dimmer Mode 2 above 9. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 4 Strobe Speed 1 255, CH 7 Dimmer Mode 1 0, CH 9 Color Temperature 1 0, CH 10 Red 1 255, CH 12 Green 1 255, CH 14 Blue 1 255, CH 16 Amber 1 255, CH 18 Lime 1 255, CH 20 Dimmer 2 255, CH 23 Strobe Speed 2 255, CH 26 Dimmer Mode 2 0, CH 28 Color Temperature 2 0, CH 29 Red 2 255, CH 31 Green 2 255, CH 33 Blue 2 255, CH 35 Amber 2 255, CH 37 Lime 2 255.

CH	Function	DMX	Description
1	Dimmer 1	0–63	Closed ... 25%
		64–127	25% ... 50%
		128–191	50% ... 75%
		192–255	75% ... Open
		255	Open
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Strobe Duration 1	0	Open
		1–254	Open ... 650ms
		255	650ms
4	Strobe Speed 1	0	Closed
		1–4	Closed ... Slow
		5	Slow
		6–127	Slow ... Medium
		128	Medium
		129–249	Medium ... Fast
		250	Fast
		251–254	Fast ... Open
		255	Open
5	Strobe 1	0–4	Off Normal Strobe
		5	Single Flash 1
		6	Single Flash 1 ... Over Flash
		7	Over Flash
		8	Over Flash ... Single Flash 2
		9	Single Flash 2
		10–14	Spread Period (Offset) FX
		15–19	Spread Sequential FX
		20–24	Random All
		25–29	Random Heads
		30–34	Pulse All
		35–39	Puls Random All
		40–44	Puls Random Heads
		45–49	Puls Open All

CH	Function	DMX	Description
5	Strobe 1 (continued)	50–54	Puls Open Random All
		55–59	Puls Open Random Heads
		60–64	Puls Close All
		65–69	Puls Close Random All
		70–74	Puls Close Random Heads
		75–79	Double-Flash All
		80–84	Double-Flash Random All
		85–89	Triple-Flash All
		90–94	Triple Flash Random All
		95–99	Lightning
		100–104	Paparazzi
		105–109	Spikes All
		110–114	Spikes Segments
		115–255	No function
6	Control 1	0–9	Idle
		10–11	Idle … IQ Service Connect
		12–13	IQ Service Connect
		14–19	IQ Service Connect … Square Dimmer Curve
		20–21	Square Dimmer Curve
		22–23	Linear Dimmer Curve
		24–25	S-Curve Dimmer Curve
		26–29	S-Curve Dimmer Curve … Display Mode Off
		30–31	Display Mode Off
		32–33	Display Mode Auto
		34–35	Display Mode On
		36–37	Display Mode On … Display Orientation Auto
		38–39	Display Orientation Auto
		40–41	Display Orientation Normal
		42–43	Display Orientation Flip
		44–45	Display Orientation Flip … No Signal Blackout
		46–47	No Signal Blackout
		48–49	No Signal Hold
		50–51	No Signal Scene
		52–53	Capture DMX Scene
		54–55	Capture DMX Scene … Fan Mode Minimum
		56–57	Fan Mode Minimum
		58–59	Fan Mode Regulatet
		60–61	Fan Mode High
		62–63	Fan Mode Medium
		64–65	Fan Mode Low
		66–69	Fan Mode Low … Pixel Mirror Off
		70–71	Pixel Mirror Off

CH	Function	DMX	Description
6	Control 1 (continued)	72–73	Pixel Mirror X-mirror
		74–75	Pixel Mirror Y-mirror
		76–77	Pixel Mirror X;Y-mirror
		78–79	Pixel Mirror X;Y-mirror … Duration Control Normal
		80–81	Duration Control Normal
		82–83	Duration Control Percentage
		84–85	Duration Control Percentage … Output Mode Boost
		86–87	Output Mode Boost
		88–89	Output Mode Constant
		90–91	Output Mode Constant … Color Mix Speed Snap
		92–93	Color Mix Speed Snap
		94–95	Color Mix Speed Fade
		96–97	Pixel Rotation Off
		98–99	Pixel Rotation 90*
		100–101	Pixel Rotation 180*
		102–103	Pixel Rotation 270*
		104–135	Pixel Rotation 270* … White Point Off
		136–137	White Point Off
		138–139	White Point 8000K
		140–141	White Point 6500K
		142–143	White Point 5600K
		144–145	White Point 4200K
		146–147	White Point 3200K
		148–165	White Point 3200K … Color Mode RGB
		166–167	Color Mode RGB
		168–169	Color Mode RGBAL
		170–189	Color Mode RGBAL … Hibernation Off
		190–191	Hibernation Off
		192–193	Hibernation On
		194–213	Hibernation On … PWM Low
		214–215	PWM Low
		216–217	PWM Optimal
		218–219	PWM High 1
		220–221	PWM High 2
		222–223	PWM Max
		224–229	PWM Max … Save Preset 1
		230–231	Save Preset 1
		232–233	Save Preset 2
		234–235	Save Preset 3
		236–237	Save Preset 3 … Load Preset 1
		238–239	Load Preset 1
		240–241	Load Preset 2

CH	Function	DMX	Description
6	Control 1 (continued)	242–243	Load Preset 3
		244–245	Load Setting Default
		246–253	Load Setting Default … Reset ALL
		254–255	Reset ALL
7	Dimmer Mode 1		Tungsten Simulation
		0–9	OFF
		10–19	Tungsten ACL 250W/28V
		20–29	Tungsten Blinder 650W/120V
		30–39	Tungsten750W/80V
		40–49	Tungsten 1000W/240V
		50–59	Tungsten 1200W/240V
		60–69	Tungsten 2000W/230V
		70–79	Tungsten 2500W/230V
		80–89	Tungsten 5000W/230V
		90–119	No function
		120–139	OFF
		140–149	FX Tungsten ACL 250W/28V
		150–159	FX Tungsten Blinder 650W/120V
		160–169	FX Tungsten750W/80V
		170–179	FX Tungsten 1000W/240V
		180–189	FX Tungsten 1200W/240V
		190–199	FX Tungsten 2000W/230V
		200–209	FX Tungsten 2500W/230V
		210–219	FX Tungsten 5000W/230V
		220–255	No function
8	Undefined	0–255	
9	Color Temperature 1	0	Open Whitepoint Default
		1–9	CTC
		10	10000K
		11–12	10000K … 9900K
		13	9900K
		14–16	9900K … 9800K
		17	9800K
		18–19	9800K … 9700K
		20	9700K
		21–22	9700K … 9600K
		23	9600K
		24–25	9600K … 9500K
		26	9500K
		27–28	9500K … 9400K
		29	9400K
		30–31	9400K … 9300K

CH	Function	DMX	Description
9	Color Temperature 1 (continued)	32	9300K
		33–35	9300K … 9200K
		36	9200K
		37–38	9200K … 9100K
		39	9100K
		40–41	9100K … 9000K
		42	9000K
		43–45	9000K … 8900K
		46	8900K
		47–48	8900K … 8800K
		49	8800K
		50–51	8800K … 8700K
		52	8700K
		53–54	8700K … 8600K
		55	8600K
		56–58	8600K … 8500K
		59	8500K
		60–61	8500K … 8400K
		62	8400K
		63–64	8400K … 8300K
		65	8300K
		66–68	8300K … 8200K
		69	8200K
		70–71	8200K … 8100K
		72	8100K
		73–74	8100K … 8000K
		75	8000K
		76–78	8000K … 7900K
		79	7900K
		80–81	7900K … 7800K
		82	7800K
		83–84	7800K … 7700K
		85	7700K
		86–87	7700K … 7600K
		88	7600K
		89–91	7600K … 7500K
		92	7500K
		93–94	7500K … 7400K
		95	7400K
		96–97	7400K … 7300K
		98	7300K
		99–100	7300K … 7200K

CH	Function	DMX	Description
9	Color Temperature 1 (continued)	101	7200K
		102–104	7200K … 7100K
		105	7100K
		106–107	7100K … 7000K
		108	7000K
		109–110	7000K … 6900K
		111	6900K
		112–114	6900K … 6800K
		115	6800K
		116–117	6800K … 6700K
		118	6700K
		119–120	6700K … 6600K
		121	6600K
		122–123	6600K … 6500K
		124	6500K
		125–127	6500K … 6400K
		128	6400K
		129–130	6400K … 6300K
		131	6300K
		132–133	6300K … 6200K
		134	6200K
		135–136	6200K … 6100K
		137	6100K
		138–140	6100K … 6000K
		141	6000K
		142–143	6000K … 5900K
		144	5900K
		145–146	5900K … 5800K
		147	5800K
		148–150	5800K … 5700K
		151	5700K
		152–153	5700K … 5600K
		154	5600K
		155–156	5600K … 5500K
		157	5500K
		158–159	5500K … 5400K
		160	5400K
		161–163	5400K … 5300K
		164	5300K
		165–166	5300K … 5200K
		167	5200K
		168–169	5200K … 5100K

CH	Function	DMX	Description
9	Color Temperature 1 (continued)	170	5100K
		171–173	5100K … 5000K
		174	5000K
		175–176	5000K … 4900K
		177	4900K
		178–179	4900K … 4800K
		180	4800K
		181–182	4800K … 4700K
		183	4700K
		184–186	4700K … 4600K
		187	4600K
		188–189	4600K … 4500K
		190	4500K
		191–192	4500K … 4400K
		193	4400K
		194–196	4400K … 4300K
		197	4300K
		198–199	4300K … 4200K
		200	4200K
		201–202	4200K … 4100K
		203	4100K
		204–206	4100K … 4000K
		207	4000K
		208–209	4000K … 3900K
		210	3900K
		211–212	3900K … 3800K
		213	3800K
		214–216	3800K … 3700K
		217	3700K
		218–219	3700K … 3600K
		220	3600K
		221–222	3600K … 3500K
		223	3500K
		224–226	3500K … 3400K
		227	3400K
		228–229	3400K … 3300K
		230	3300K
		231–232	3300K … 3200K
		233	3200K
		234–236	3200K … 3100K
		237	3100K
		238–239	3100K … 3000K

CH	Function	DMX	Description
9	Color Temperature 1 (continued)	240	3000K
		241–242	3000K … 2900K
		243	2900K
		244–246	2900K … 2800K
		247	2800K
		248–249	2800K … 2700K
		250	2700K
		251–252	2700K … 2600K
		253	2600K
		254–255	2500K
10	Red 1	0–255	
11	Red 1 Fine	0–255	Fine adjustment of CH 10
12	Green 1	0–255	
13	Green 1 Fine	0–255	Fine adjustment of CH 12
14	Blue 1	0–255	
15	Blue 1 Fine	0–255	Fine adjustment of CH 14
16	Amber 1	0–255	
17	Amber 1 Fine	0–255	Fine adjustment of CH 16
18	Lime 1	0–255	
19	Lime 1 Fine	0–255	Fine adjustment of CH 18
20	Dimmer 2	0–63	Closed … 25%
		64–127	25% … 50%
		128–191	50% … 75%
		192–255	75% … Open
		255	Open
21	Dimmer 2 Fine	0–255	Fine adjustment of CH 20
22	Strobe Duration 2	0	Open
		1–254	Open … 650ms
		255	650ms
23	Strobe Speed 2	0	Closed
		1–4	Closed … Slow
		5	Slow
		6–127	Slow … Medium
		128	Medium
		129–249	Medium … Fast
		250	Fast
		251–254	Fast … Open
		255	Open
24	Strobe 2	0–4	Off Normal Strobe
		5	Single Flash 1
		6	Single Flash 1 … Over Flash
		7	Over Flash

CH	Function	DMX	Description
24	Strobe 2 (continued)	8	Over Flash ... Single Flash 2
		9	Single Flash 2
		10–14	Spread Period (Offset) FX
		15–19	Spread Sequential FX
		20–24	Random All
		25–29	Random Heads
		30–34	Pulse All
		35–39	Puls Random All
		40–44	Puls Random Heads
		45–49	Puls Open All
		50–54	Puls Open Random All
		55–59	Puls Open Random Heads
		60–64	Puls Close All
		65–69	Puls Close Random All
		70–74	Puls Close Random Heads
		75–79	Double-Flash All
		80–84	Double-Flash Random All
		85–89	Triple-Flash All
		90–94	Triple Flash Random All
		95–99	Lightning
		100–104	Paparazzi
		105–109	Spikes All
		110–114	Spikes Segments
		115–255	No function
25	Control 2	0–9	Idle
		10–11	Idle ... IQ Service Connect
		12–13	IQ Service Connect
		14–19	IQ Service Connect ... Square Dimmer Curve
		20–21	Square Dimmer Curve
		22–23	Linear Dimmer Curve
		24–25	S-Curve Dimmer Curve
		26–29	S-Curve Dimmer Curve ... Display Mode Off
		30–31	Display Mode Off
		32–33	Display Mode Auto
		34–35	Display Mode On
		36–37	Display Mode On ... Display Orientation Auto
		38–39	Display Orientation Auto
		40–41	Display Orientation Normal
		42–43	Display Orientation Flip
		44–45	Display Orientation Flip ... No Signal Blackout
		46–47	No Signal Blackout
		48–49	No Signal Hold

CH	Function	DMX	Description
25	Control 2 (continued)	50–51	No Signal Scene
		52–53	Capture DMX Scene
		54–55	Capture DMX Scene … Fan Mode Minimum
		56–57	Fan Mode Minimum
		58–59	Fan Mode Regulatet
		60–61	Fan Mode High
		62–63	Fan Mode Medium
		64–65	Fan Mode Low
		66–69	Fan Mode Low … Pixel Mirror Off
		70–71	Pixel Mirror Off
		72–73	Pixel Mirror X-mirror
		74–75	Pixel Mirror Y-mirror
		76–77	Pixel Mirror X;Y-mirror
		78–79	Pixel Mirror X;Y-mirror … Duration Control Normal
		80–81	Duration Control Normal
		82–83	Duration Control Percentage
		84–85	Duration Control Percentage … Output Mode Boost
		86–87	Output Mode Boost
		88–89	Output Mode Constant
		90–91	Output Mode Constant … Color Mix Speed Snap
		92–93	Color Mix Speed Snap
		94–95	Color Mix Speed Fade
		96–97	Pixel Rotation Off
		98–99	Pixel Rotation 90*
		100–101	Pixel Rotation 180*
		102–103	Pixel Rotation 270*
		104–135	Pixel Rotation 270* … White Point Off
		136–137	White Point Off
		138–139	White Point 8000K
		140–141	White Point 6500K
		142–143	White Point 5600K
		144–145	White Point 4200K
		146–147	White Point 3200K
		148–165	White Point 3200K … Color Mode RGB
		166–167	Color Mode RGB
		168–169	Color Mode RGBAL
		170–189	Color Mode RGBAL … Hibernation Off
		190–191	Hibernation Off
		192–193	Hibernation On
		194–213	Hibernation On … PWM Low
		214–215	PWM Low
		216–217	PWM Optimal

CH	Function	DMX	Description
25	Control 2 (continued)	218–219	PWM High 1
		220–221	PWM High 2
		222–223	PWM Max
		224–229	PWM Max ... Save Preset 1
		230–231	Save Preset 1
		232–233	Save Preset 2
		234–235	Save Preset 3
		236–237	Save Preset 3 ... Load Preset 1
		238–239	Load Preset 1
		240–241	Load Preset 2
		242–243	Load Preset 3
		244–245	Load Setting Default
		246–253	Load Setting Default ... Reset ALL
		254–255	Reset ALL
26	Dimmer Mode 2		Tungsten Simulation
		0–9	OFF
		10–19	Tungsten ACL 250W/28V
		20–29	Tungsten Blinder 650W/120V
		30–39	Tungsten750W/80V
		40–49	Tungsten 1000W/240V
		50–59	Tungsten 1200W/240V
		60–69	Tungsten 2000W/230V
		70–79	Tungsten 2500W/230V
		80–89	Tungsten 5000W/230V
		90–119	No function
		120–139	OFF
		140–149	FX Tungsten ACL 250W/28V
		150–159	FX Tungsten Blinder 650W/120V
		160–169	FX Tungsten750W/80V
		170–179	FX Tungsten 1000W/240V
		180–189	FX Tungsten 1200W/240V
		190–199	FX Tungsten 2000W/230V
		200–209	FX Tungsten 2500W/230V
		210–219	FX Tungsten 5000W/230V
		220–255	No function
27	Undefined	0–255	
28	Color Temperature 2	0	Open Whitepoint Default
		1–9	CTC
		10	10000K
		11–12	10000K ... 9900K
		13	9900K
		14–16	9900K ... 9800K

CH	Function	DMX	Description
28	Color Temperature 2 (continued)	17	9800K
		18–19	9800K … 9700K
		20	9700K
		21–22	9700K … 9600K
		23	9600K
		24–25	9600K … 9500K
		26	9500K
		27–28	9500K … 9400K
		29	9400K
		30–31	9400K … 9300K
		32	9300K
		33–35	9300K … 9200K
		36	9200K
		37–38	9200K … 9100K
		39	9100K
		40–41	9100K … 9000K
		42	9000K
		43–45	9000K … 8900K
		46	8900K
		47–48	8900K … 8800K
		49	8800K
		50–51	8800K … 8700K
		52	8700K
		53–54	8700K … 8600K
		55	8600K
		56–58	8600K … 8500K
		59	8500K
		60–61	8500K … 8400K
		62	8400K
		63–64	8400K … 8300K
		65	8300K
		66–68	8300K … 8200K
		69	8200K
		70–71	8200K … 8100K
		72	8100K
		73–74	8100K … 8000K
		75	8000K
		76–78	8000K … 7900K
		79	7900K
		80–81	7900K … 7800K
		82	7800K
		83–84	7800K … 7700K

CH	Function	DMX	Description
28	Color Temperature 2 (continued)	85	7700K
		86–87	7700K … 7600K
		88	7600K
		89–91	7600K … 7500K
		92	7500K
		93–94	7500K … 7400K
		95	7400K
		96–97	7400K … 7300K
		98	7300K
		99–100	7300K … 7200K
		101	7200K
		102–104	7200K … 7100K
		105	7100K
		106–107	7100K … 7000K
		108	7000K
		109–110	7000K … 6900K
		111	6900K
		112–114	6900K … 6800K
		115	6800K
		116–117	6800K … 6700K
		118	6700K
		119–120	6700K … 6600K
		121	6600K
		122–123	6600K … 6500K
		124	6500K
		125–127	6500K … 6400K
		128	6400K
		129–130	6400K … 6300K
		131	6300K
		132–133	6300K … 6200K
		134	6200K
		135–136	6200K … 6100K
		137	6100K
		138–140	6100K … 6000K
		141	6000K
		142–143	6000K … 5900K
		144	5900K
		145–146	5900K … 5800K
		147	5800K
		148–150	5800K … 5700K
		151	5700K
		152–153	5700K … 5600K

CH	Function	DMX	Description
28	Color Temperature 2 (continued)	154	5600K
		155–156	5600K … 5500K
		157	5500K
		158–159	5500K … 5400K
		160	5400K
		161–163	5400K … 5300K
		164	5300K
		165–166	5300K … 5200K
		167	5200K
		168–169	5200K … 5100K
		170	5100K
		171–173	5100K … 5000K
		174	5000K
		175–176	5000K … 4900K
		177	4900K
		178–179	4900K … 4800K
		180	4800K
		181–182	4800K … 4700K
		183	4700K
		184–186	4700K … 4600K
		187	4600K
		188–189	4600K … 4500K
		190	4500K
		191–192	4500K … 4400K
		193	4400K
		194–196	4400K … 4300K
		197	4300K
		198–199	4300K … 4200K
		200	4200K
		201–202	4200K … 4100K
		203	4100K
		204–206	4100K … 4000K
		207	4000K
		208–209	4000K … 3900K
		210	3900K
		211–212	3900K … 3800K
		213	3800K
		214–216	3800K … 3700K
		217	3700K
		218–219	3700K … 3600K
		220	3600K
		221–222	3600K … 3500K

CH	Function	DMX	Description
28	Color Temperature 2 (continued)	223	3500K
		224–226	3500K … 3400K
		227	3400K
		228–229	3400K … 3300K
		230	3300K
		231–232	3300K … 3200K
		233	3200K
		234–236	3200K … 3100K
		237	3100K
		238–239	3100K … 3000K
		240	3000K
		241–242	3000K … 2900K
		243	2900K
		244–246	2900K … 2800K
		247	2800K
		248–249	2800K … 2700K
		250	2700K
		251–252	2700K … 2600K
		253	2600K
		254–255	2500K
29	Red 2	0–255	
30	Red 2 Fine	0–255	Fine adjustment of CH 29
31	Green 2	0–255	
32	Green 2 Fine	0–255	Fine adjustment of CH 31
33	Blue 2	0–255	
34	Blue 2 Fine	0–255	Fine adjustment of CH 33
35	Amber 2	0–255	
36	Amber 2 Fine	0–255	Fine adjustment of CH 35
37	Lime 2	0–255	
38	Lime 2 Fine	0–255	Fine adjustment of CH 37

Mode 5 Pixelmap RGB (6 ch)

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 255, CH 2 Green 1 255, CH 3 Blue 1 255, CH 4 Red 2 255, CH 5 Green 2 255, CH 6 Blue 2 255.

CH	Function	DMX	Description
1	Red 1	0–255	
2	Green 1	0–255	
3	Blue 1	0–255	
4	Red 2	0–255	
5	Green 2	0–255	
6	Blue 2	0–255	

Mode 2 All Full RGB (19 ch)

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 3 Strobe Duration at 0 “Open”; CH 4 Strobe Speed at 255 “Open”; CH 7 Dimmer Mode above 9. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 4 Strobe Speed 255, CH 7 Dimmer Mode 0, CH 9 Color Temperature 0, CH 10 Red 255, CH 12 Green 255, CH 14 Blue 255.

CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Strobe Duration		Same as CH 3 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
4	Strobe Speed		Same as CH 4 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
5	Strobe		Same as CH 5 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
6	Control		Same as CH 6 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 9)
7	Dimmer Mode		Same as CH 7 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 11)
8	Undefined	0–255	
9	Color Temperature		Same as CH 9 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 11)
10	Red	0–255	
11	Red Fine	0–255	Fine adjustment of CH 10
12	Green	0–255	
13	Green Fine	0–255	Fine adjustment of CH 12
14	Blue	0–255	
15	Blue Fine	0–255	Fine adjustment of CH 14
16	Undefined	0–255	
17	Undefined Fine	0–255	Fine adjustment of CH 16
18	Undefined	0–255	
19	Undefined Fine	0–255	Fine adjustment of CH 18

Mode 4 Multi Fixture RGB (38 ch)

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 3 Strobe Duration 1 at 0 “Open”; CH 4 Strobe Speed 1 at 255 “Open”; CH 7 Dimmer Mode 1 above 9; CH 20 Dimmer 2 above 0; CH 22 Strobe Duration 2 at 0 “Open”; CH 23 Strobe Speed 2 at 255 “Open”; CH 26 Dimmer Mode 2 above 9. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 4 Strobe Speed 1 255, CH 7 Dimmer Mode 1 0, CH 9 Color Temperature 1 0, CH 10 Red 1 255, CH 12 Green 1 255, CH 14 Blue 1 255, CH 20 Dimmer 2 255, CH 23 Strobe Speed 2 255, CH 26 Dimmer Mode 2 0, CH 28 Color Temperature 2 0, CH 29 Red 2 255, CH 31 Green 2 255, CH 33 Blue 2 255.

CH	Function	DMX	Description
1	Dimmer 1		Same as CH 1 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 16)
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Strobe Duration 1		Same as CH 3 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 16)
4	Strobe Speed 1		Same as CH 4 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 16)
5	Strobe 1		Same as CH 5 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 16)
6	Control 1		Same as CH 6 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 17)
7	Dimmer Mode 1		Same as CH 7 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 19)
8	Undefined	0–255	
9	Color Temperature 1		Same as CH 9 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 19)
10	Red 1	0–255	
11	Red 1 Fine	0–255	Fine adjustment of CH 10
12	Green 1	0–255	
13	Green 1 Fine	0–255	Fine adjustment of CH 12
14	Blue 1	0–255	
15	Blue 1 Fine	0–255	Fine adjustment of CH 14
16	Undefined	0–255	
17	Undefined Fine	0–255	Fine adjustment of CH 16
18	Undefined	0–255	
19	Undefined Fine	0–255	Fine adjustment of CH 18
20	Dimmer 2		Same as CH 20 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 23)
21	Dimmer 2 Fine	0–255	Fine adjustment of CH 20
22	Strobe Duration 2		Same as CH 22 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 23)
23	Strobe Speed 2		Same as CH 23 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 23)
24	Strobe 2		Same as CH 24 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 23)

CH	Function	DMX	Description
25	Control 2		Same as CH 25 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 24)
26	Dimmer Mode 2		Same as CH 26 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 26)
27	Undefined	0–255	
28	Color Temperature 2		Same as CH 28 in the mode “Mode 4 Multi Fixture RGBAL (38 ch)” (p. 26)
29	Red 2	0–255	
30	Red 2 Fine	0–255	Fine adjustment of CH 29
31	Green 2	0–255	
32	Green 2 Fine	0–255	Fine adjustment of CH 31
33	Blue 2	0–255	
34	Blue 2 Fine	0–255	Fine adjustment of CH 33
35	Undefined	0–255	
36	Undefined Fine	0–255	Fine adjustment of CH 35
37	Undefined	0–255	
38	Undefined Fine	0–255	Fine adjustment of CH 37

Mode 5 Pixelmap Virtual Dim RGB

The GDTF file gives these values for a console's Highlight function: CH 1 Red 1 0, CH 2 Green 1 0, CH 3 Blue 1 0, CH 4 Red 2 0, CH 5 Green 2 0, CH 6 Blue 2 0.

CH	Function	DMX	Description
1	Red 1	0–255	
2	Green 1	0–255	
3	Blue 1	0–255	
4	Red 2	0–255	
5	Green 2	0–255	
6	Blue 2	0–255	

Mode 3 All Individual Full RGBAL (29 ch)

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 3 Strobe Duration at 0 “Open”; CH 4 Strobe Speed at 255 “Open”; CH 7 Dimmer Mode above 9. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 4 Strobe Speed 255, CH 7 Dimmer Mode 0, CH 9 Color Temperature 0, CH 10 Red 1 255, CH 12 Green 1 255, CH 14 Blue 1 255, CH 16 Amber 1 255, CH 18 Lime 1 255, CH 20 Red 2 255, CH 22 Green 2 255, CH 24 Blue 2 255, CH 26 Amber 2 255, CH 28 Lime 2 255.

CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Strobe Duration		Same as CH 3 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)

CH	Function	DMX	Description
4	Strobe Speed		Same as CH 4 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
5	Strobe		Same as CH 5 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
6	Control		Same as CH 6 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 9)
7	Dimmer Mode		Same as CH 7 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 11)
8	Undefined	0–255	
9	Color Temperature		Same as CH 9 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 11)
10	Red 1	0–255	
11	Red 1 Fine	0–255	Fine adjustment of CH 10
12	Green 1	0–255	
13	Green 1 Fine	0–255	Fine adjustment of CH 12
14	Blue 1	0–255	
15	Blue 1 Fine	0–255	Fine adjustment of CH 14
16	Amber 1	0–255	
17	Amber 1 Fine	0–255	Fine adjustment of CH 16
18	Lime 1	0–255	
19	Lime 1 Fine	0–255	Fine adjustment of CH 18
20	Red 2	0–255	
21	Red 2 Fine	0–255	Fine adjustment of CH 20
22	Green 2	0–255	
23	Green 2 Fine	0–255	Fine adjustment of CH 22
24	Blue 2	0–255	
25	Blue 2 Fine	0–255	Fine adjustment of CH 24
26	Amber 2	0–255	
27	Amber 2 Fine	0–255	Fine adjustment of CH 26
28	Lime 2	0–255	
29	Lime 2 Fine	0–255	Fine adjustment of CH 28

Mode 3 All Individual Full RGB (29 ch)

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 3 Strobe Duration at 0 “Open”; CH 4 Strobe Speed at 255 “Open”; CH 7 Dimmer Mode above 9. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 4 Strobe Speed 255, CH 7 Dimmer Mode 0, CH 9 Color Temperature 0, CH 10 Red 1 255, CH 12 Green 1 255, CH 14 Blue 1 255, CH 20 Red 2 255, CH 22 Green 2 255, CH 24 Blue 2 255.

CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Strobe Duration		Same as CH 3 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
4	Strobe Speed		Same as CH 4 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
5	Strobe		Same as CH 5 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 8)
6	Control		Same as CH 6 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 9)
7	Dimmer Mode		Same as CH 7 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 11)
8	Undefined	0–255	
9	Color Temperature		Same as CH 9 in the mode “Mode 2 All Full RGBAL (19 ch)” (p. 11)
10	Red 1	0–255	
11	Red 1 Fine	0–255	Fine adjustment of CH 10
12	Green 1	0–255	
13	Green 1 Fine	0–255	Fine adjustment of CH 12
14	Blue 1	0–255	
15	Blue 1 Fine	0–255	Fine adjustment of CH 14
16	Undefined	0–255	
17	Undefined Fine	0–255	Fine adjustment of CH 16
18	Undefined	0–255	
19	Undefined Fine	0–255	Fine adjustment of CH 18
20	Red 2	0–255	
21	Red 2 Fine	0–255	Fine adjustment of CH 20
22	Green 2	0–255	
23	Green 2 Fine	0–255	Fine adjustment of CH 22
24	Blue 2	0–255	
25	Blue 2 Fine	0–255	Fine adjustment of CH 24
26	Undefined	0–255	
27	Undefined Fine	0–255	Fine adjustment of CH 26
28	Undefined	0–255	
29	Undefined Fine	0–255	Fine adjustment of CH 28

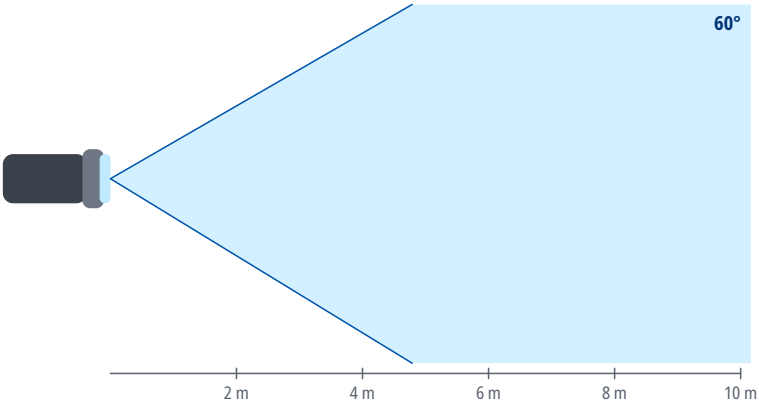
10 Technical specifications

Parameter	Value
Light source	LED
RDM	yes (manufacturer ID 0x676C, device model ID 0x100A)
Weight	11.5 kg
Operating temperature	-10 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–10000 K
Strobe flash duration	0–0.65 s

Spot diameter



Distance	Ø 60°
2 m	2.3 m
4 m	4.6 m
6 m	6.9 m
8 m	9.2 m
10 m	11.5 m
15 m	17.3 m

Spot diameter square to the beam axis, calculated from the beam angle.

11 Maintenance and cleaning

- Before cleaning and maintenance, switch the device off, disconnect it from the power supply and let it cool down.
- Clean the housing with a soft, dry or slightly damp cloth. Do not use solvents, abrasive cleaners or pressure washers, and make sure no liquid gets into the device.
- Clean optical parts (lenses, front glass), if the device has any, with a soft lint-free cloth and a cleaner intended for optics or glass.
- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

12 Troubleshooting

Problem	Remedy
The device does not switch on	Check the supply voltage, the cables and the fuse, if the device has one.
The device does not respond to DMX	Check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe).
The device behaves erratically or flickers	Check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter.
Only some devices on the line respond	Check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on.
Devices respond to the wrong channels or affect each other	Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
The device or the connected load does not light up although it receives DMX	Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open.

13 Disposal

The crossed-out wheeled bin symbol on the product, in the manual or on the packaging means that the product must not be disposed of with unsorted household waste at the end of its life.

Take the end-of-life equipment to a collection point, for example a municipal collection site or a retailer. Proper disposal enables materials to be recycled and helps prevent possible negative effects on the environment and human health.

Follow the regulations applicable in your country; in the Czech Republic, take-back is governed by Act No. 542/2020 Coll., on End-of-Life Products.

Recycle the packaging materials according to their type.