DMX REFERENCE

GL12W IP

Terbly GL12W IP

Terbly



Manufacturer	Terbly
GDTF file	Terbly_GL12W_IP_91309.gdtf
GDTF revision	Corrected all rotation channel defaults · 2025-03-27
Generated	2026-11-24

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1 About this manual

This document describes the Terbly GL12W IP by Terbly. It was compiled from the GDTF file Terbly_GL12W_IP_91309.gdtf from the GDTF-Share library.

File revision: “Corrected all rotation channel defaults”.

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 Terbly; 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	50 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Standard	36	14	1, 37, 73, 109, ...
Extended	55	9	1, 56, 111, 166, ...

No light? Check these channels

- Standard: CH 6 Shutter at 63 “Open” or 96–127 or 160–191 or 224–255; CH 7 Dimmer above 0
- Extended: CH 6 Shutter at 63 “Open” or 96–127 or 160–191 or 224–255; CH 7 Dimmer above 0


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.

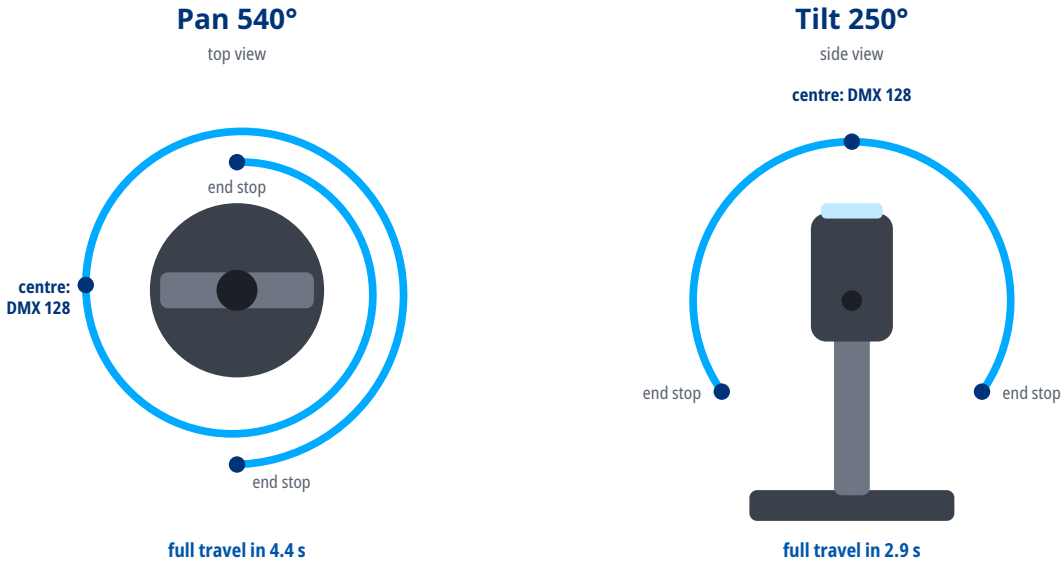
⚠ CAUTION

- 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.

> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do not touch the moving parts, move them by hand, or obstruct their movement; this can cause injury (pinching) and damage the drive.
> - Do not carry the device by its moving parts. If the device has a transport lock, engage it before transport and release it before switching on.

4 Product description

Range of movement



Full-travel times as stated in the GDTF file.

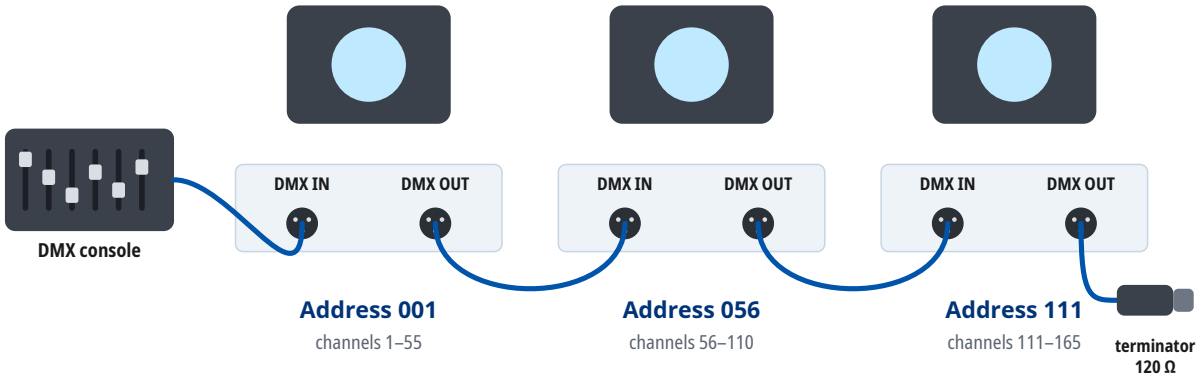
5 Installation

> ⚠ **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: 50 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 Extended: every unit occupies 55 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 “Extended”: 55.
- 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 “Extended”, you can use, for example, the start addresses 1, 56, 111, 166.
- 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

	Standard 36 channels	Extended 55 channels
Pan / Tilt	1, 3	1, 3
Dimmer	7	7
Dimmer resolution	8 bit	16 bit
Shutter / strobe	6	6
Color mixing	14–16	18, 20, 22
Color temperature	17	24
Color wheel	13	16
Gobo wheel	20	28
Gobo rotation	21	29
Frost	24	34
Zoom	9	10
Focus	10–12	12, 14, 15
Iris	23	32
Animation wheel	22	31
Effects / macros	18, 35	26, 54

Color wheel

1 Color 1: Open
DMX 0–19

2 Red
DMX 20–37

3 Green
DMX 38–55

4 UV
DMX 56–73

5 High CRI
DMX 74–91

6 Amber
DMX 92–109

7 Blue
DMX 110–128

Gobo wheel

1
Gobo 1: Open
DMX 0–9

2 
RG1
DMX 10–19

3 
RG2
DMX 20–29

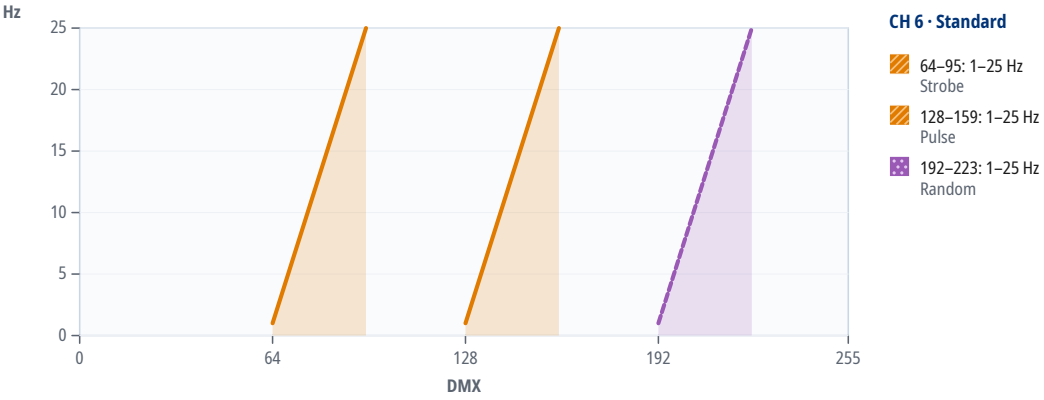
4 
RG3
DMX 30–39

5 
RG4
DMX 40–49

6 
RG5
DMX 50–59

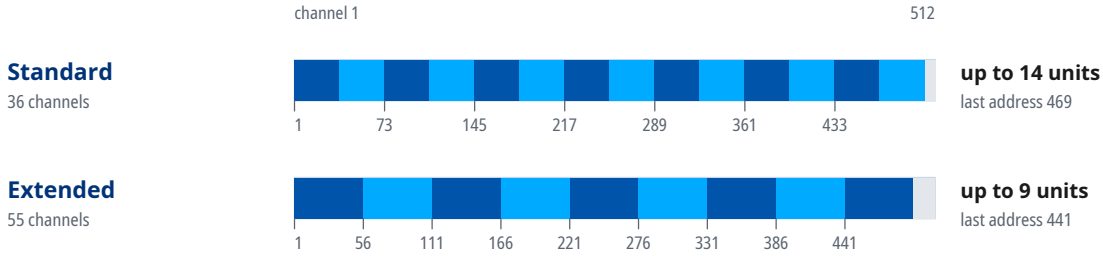
7 
RG6
DMX 60–70

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Extended”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	276	11	U2 · 56	16	U2 · 331
2	56	7	331	12	U2 · 111	17	U2 · 386
3	111	8	386	13	U2 · 166	18	U2 · 441
4	166	9	441	14	U2 · 221	19	U3 · 1
5	221	10	U2 · 1	15	U2 · 276	20	U3 · 56

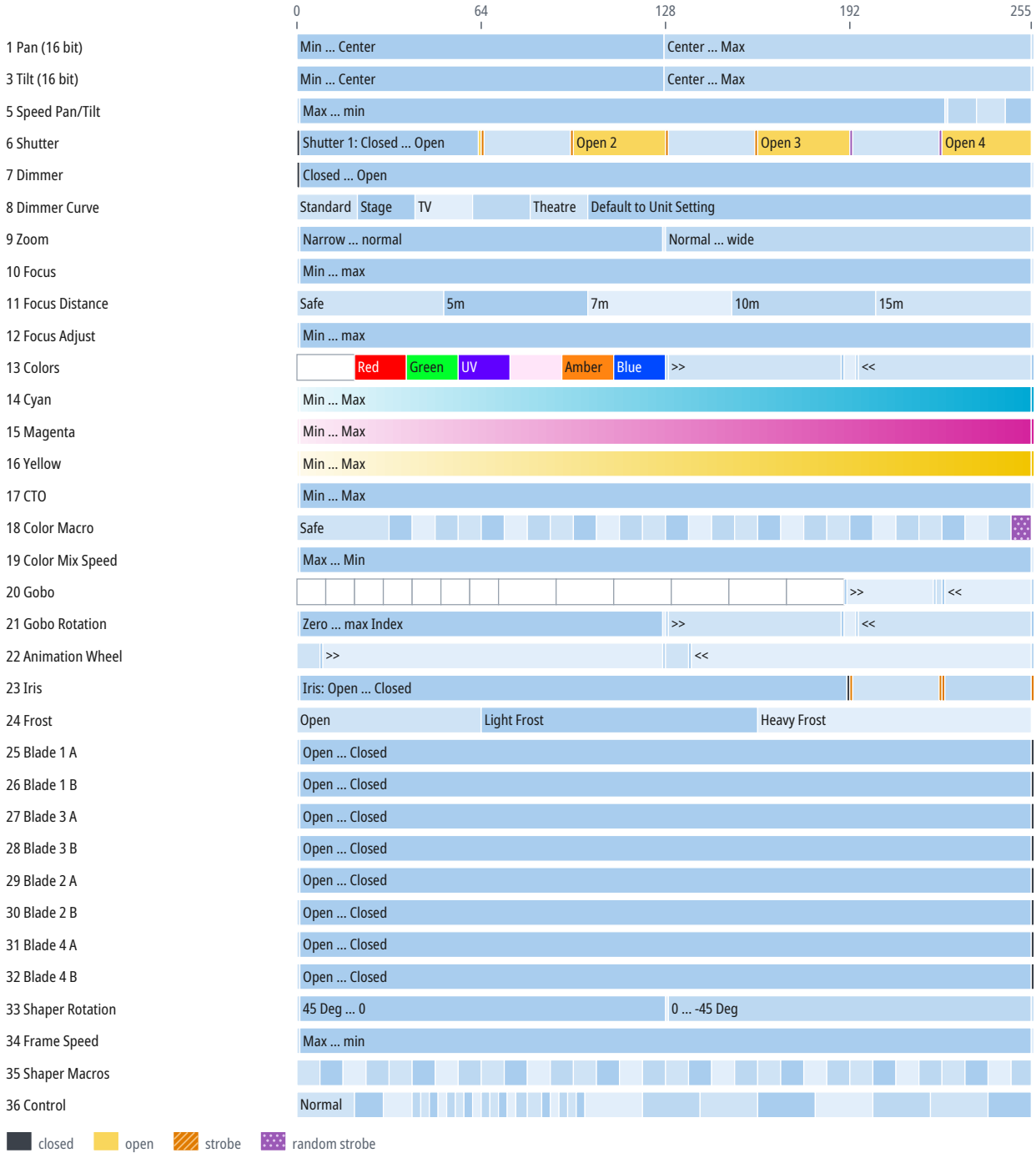
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode Standard

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 6 Shutter at 63 “Open” or 96–127 or 160–191 or 224–255; CH 7 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 6 Shutter 63, CH 7 Dimmer 255, CH 14 Cyan 0, CH 15 Magenta 0, CH 16 Yellow 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Min ... Center
		128–255	Center ... Max
		255	Max
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Min ... Center
		128–255	Center ... Max
		255	Max
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0	Max
		1–224	Max ... min
		225	Min
		226–235	BO by Movement
		236–245	BO by all Wheel
		246–255	Position MSpeed 1
6	Shutter	0	Shutter 1: Closed
		1–62	Shutter 1: Closed ... Open
		63	Shutter 1: Open
		64	Min Strobe
		65–94	Min Strobe ... max Strobe
		95	Max Strobe
		96–127	Open 2
		128	Min Pulse
		129–158	Min Pulse ... max Pulse
		159	Max Pulse
		160–191	Open 3
		192	Min Rnd
		193–222	Min Rnd ... max Rnd
		223	Max Rnd
		224–255	Open 4
7	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
8	Dimmer Curve	0–20	Standard
		21–40	Stage
		41–60	TV
		61–80	Architecural
		81–100	Theatre
		101–255	Default to Unit Setting
9	Zoom	0	Narrow
		1–126	Narrow ... normal

CH	Function	DMX	Description
9	Zoom (continued)	127	Normal
		128–254	Normal ... wide
		255	Wide
10	Focus	0	Min
		1–254	Min ... max
		255	Max
11	Focus Distance	0–50	Safe
		51–100	5m
		101–150	7m
		151–200	10m
		201–255	15m
12	Focus Adjust	0	Min
		1–254	Min ... max
		255	Max
13	Colors	0–19	Color 1: Open
		20–37	Red
		38–55	Green
		56–73	UV
		74–91	High CRI
		92–109	Amber
		110–127	Blue
		128	>>>
		129–188	>> (692.1–1.38 °/s)
		189	>
		190–193	Color Spin: Stop
		194	<
		195–254	<< (1.38–692.1 °/s)
		255	<<<
14	Cyan	0	Min
		1–254	Min ... Max
		255	Max
15	Magenta	0	Min
		1–254	Min ... Max
		255	Max
16	Yellow	0	Min
		1–254	Min ... Max
		255	Max
17	CTO	0	Min
		1–254	Min ... Max
		255	Max
18	Color Macro	0–31	Safe

CH	Function	DMX	Description
18	Color Macro (continued)	32–39	Macro 1
		40–47	Macro 2
		48–55	Macro 3
		56–63	Macro 4
		64–71	Macro 5
		72–79	Macro 6
		80–87	Macro 7
		88–95	Macro 8
		96–103	Macro 9
		104–111	Macro 10
		112–119	Macro 11
		120–127	Macro 12
		128–135	Macro 13
		136–143	Macro 14
		144–151	Macro 15
		152–159	Macro 16
		160–167	Macro 17
		168–175	Macro 18
		176–183	Macro 19
		184–191	Macro 20
		192–199	Macro 21
		200–207	Macro 22
		208–215	Macro 23
		216–223	Macro 24
		224–231	Macro 25
		232–239	Macro 26
		240–247	Macro 27
		248–255	Random CMY
19	Color Mix Speed	0	Max
		1–254	Max … Min
		255	Min
20	Gobo	0–9	Gobo 1: Open
		10–19	RG1
		20–29	RG2
		30–39	RG3
		40–49	RG4
		50–59	RG5
		60–69	RG6
		70–89	RG1 Shake (1–10 Hz)
		90–109	RG2 Shake (1–10 Hz)
		110–129	RG3 Shake (1–10 Hz)

CH	Function	DMX	Description
20	Gobo (continued)	130–149	RG4 Shake (1–10 Hz)
		150–169	RG5 Shake (1–10 Hz)
		170–189	RG6 Shake (1–10 Hz)
		190	>>>
		191–220	>> (340.7–1.08 °/s)
		221	>
		222–223	Gobo Wheel 1 Spin: Stop
		224	<
		225–254	<< (1.08–340.7 °/s)
		255	<<<
21	Gobo Rotation	0	Zero
		1–126	Zero … max Index
		127	Max Index
		128	>>>
		129–188	>> (692.1–0.516 °/s)
		189	>
		190–193	Spin: Stop
		194	<
		195–254	<< (0.516–692.1 °/s)
		255	<<<
22	Animation Wheel	0–7	Open
		8	>>>
		9–126	>>
		127	>
		128–135	Stop
		136	<
		137–254	<<
		255	<<<
23	Iris	0	Iris: Open
		1–190	Iris: Open … Closed
		191	Iris: Closed
		192	Pulse closing fast
		193–222	Pulse closing fast … Pulse closing slow
		223	Pulse closing slow
		224	Pulse opening slow
		225–254	Pulse opening slow … Pulse opening fast
		255	Pulse opening fast
24	Frost	0–63	Open
		64–159	Light Frost
		160–255	Heavy Frost
25	Blade 1 A	0	Open

CH	Function	DMX	Description
25	Blade 1 A (continued)	1–254	Open ... Closed
		255	Closed
26	Blade 1 B	0	Open
		1–254	Open ... Closed
		255	Closed
27	Blade 3 A	0	Open
		1–254	Open ... Closed
		255	Closed
28	Blade 3 B	0	Open
		1–254	Open ... Closed
		255	Closed
29	Blade 2 A	0	Open
		1–254	Open ... Closed
		255	Closed
30	Blade 2 B	0	Open
		1–254	Open ... Closed
		255	Closed
31	Blade 4 A	0	Open
		1–254	Open ... Closed
		255	Closed
32	Blade 4 B	0	Open
		1–254	Open ... Closed
		255	Closed
33	Shaper Rotation	0	45 Deg
		1–127	45 Deg ... 0
		128	0
		129–254	0 ... -45 Deg
		255	-45 Deg
34	Frame Speed	0	Max
		1–254	Max ... min
		255	Min
35	Shaper Macros	0–7	Safe
		8–15	Macro 1
		16–23	Macro 2
		24–31	Macro 3
		32–39	Macro 4
		40–47	Macro 5
		48–55	Macro 6
		56–63	Macro 7
		64–71	Macro 8
		72–79	Macro 9
		80–87	Macro 10

CH	Function	DMX	Description
35	Shaper Macros (continued)	88–95	Macro 11
		96–103	Macro 12
		104–111	Macro 13
		112–119	Macro 14
		120–127	Macro 15
		128–135	Macro 16
		136–143	Macro 17
		144–151	Macro 18
		152–159	Macro 19
		160–167	Macro 20
		168–175	Macro 21
		176–183	Macro 22
		184–191	Macro 23
		192–199	Macro 24
		200–207	Macro 25
		208–215	Macro 26
		216–223	Macro 27
		224–231	Macro 28
		232–239	Macro 29
		240–247	Macro 30
		248–255	Macro 31
36	Control	0–19	Normal
		20–29	Col any pos
		30–39	Col/Gobo any pos
		40–42	Display Off
		43–45	Display ON
		46–48	Fan Auto
		49–51	Fan High
		52–54	Fan Silent
		55–57	Fan Studio
		58–60	Fan Mute
		61–63	Gamma=2'0
		64–66	Gamma=2'2
		67–69	Gamma=2'4
		70–72	Gamma=2'6
		73–75	Gamma=2'8
		76–84	Reset All
		85–87	Reset P/T
		88–90	Reset Colors
		91–93	Reset Gobos
		94–96	Reset Zoom
		97–99	Reset Others

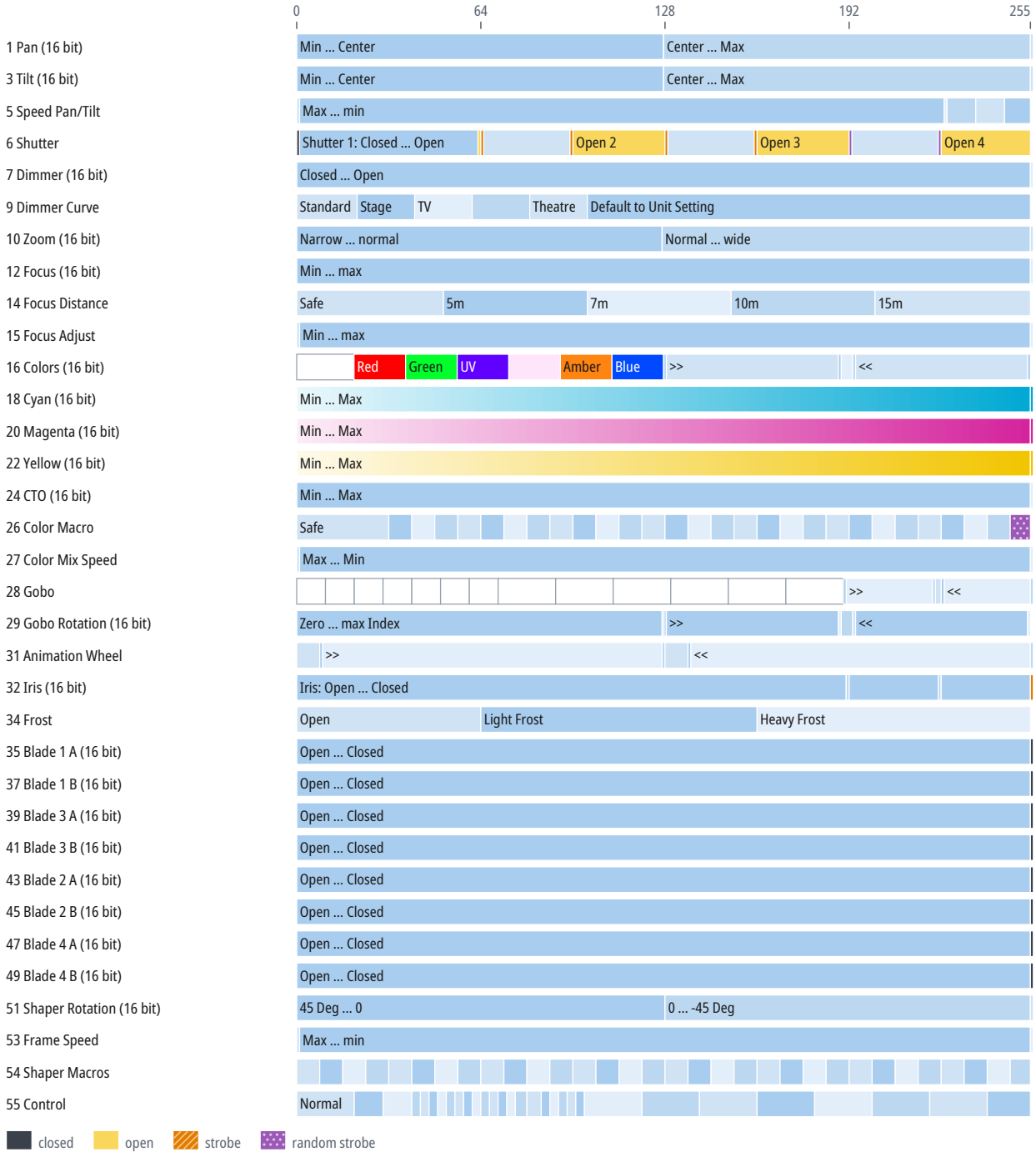
CH	Function	DMX	Description
36	Control (continued)	100–119	Internal pro 1
		120–139	Internal pro 2
		140–159	Internal pro 3
		160–179	Internal pro 4
		180–199	Internal pro 5
		200–219	Internal pro 6
		220–239	Internal pro 7
		240–255	Internal programs

Mode Extended

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 6 Shutter at 63 “Open” or 96–127 or 160–191 or 224–255; CH 7 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 6 Shutter 63, CH 7 Dimmer 255, CH 18 Cyan 0, CH 20 Magenta 0, CH 22 Yellow 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Standard” (p. 11)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Standard” (p. 11)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Standard” (p. 11)
6	Shutter		Same as CH 6 in the mode “Standard” (p. 11)
7	Dimmer	0–255	Closed … Open
		255	Open
8	Dimmer Fine	0–255	Fine adjustment of CH 7
9	Dimmer Curve		Same as CH 8 in the mode “Standard” (p. 11)
10	Zoom	0–127	Narrow … normal
		127–255	Normal … wide
		255	Wide
11	Zoom Fine	0–255	Fine adjustment of CH 10
12	Focus	0–255	Min … max
		255	Max
13	Focus Fine	0–255	Fine adjustment of CH 12
14	Focus Distance		Same as CH 11 in the mode “Standard” (p. 12)
15	Focus Adjust		Same as CH 12 in the mode “Standard” (p. 12)
16	Colors		Same as CH 13 in the mode “Standard” (p. 12)
17	Colors Fine	0–255	Fine adjustment of CH 16
18	Cyan	0–255	Min … Max
		255	Max
19	Cyan Fine	0–255	Fine adjustment of CH 18
20	Magenta	0–255	Min … Max
		255	Max
21	Magenta Fine	0–255	Fine adjustment of CH 20
22	Yellow	0–255	Min … Max
		255	Max
23	Yellow Fine	0–255	Fine adjustment of CH 22
24	CTO	0–255	Min … Max
		255	Max
25	CTO Fine	0–255	Fine adjustment of CH 24
26	Color Macro		Same as CH 18 in the mode “Standard” (p. 12)
27	Color Mix Speed		Same as CH 19 in the mode “Standard” (p. 13)
28	Gobo		Same as CH 20 in the mode “Standard” (p. 13)
29	Gobo Rotation	0–127	Zero … max Index
		127	Max Index
		128	>>>
		129–188	>> (692.1–0.516 °/s)

CH	Function	DMX	Description
29	Gobo Rotation (continued)	189	>
		190–193	Spin: Stop
		194	<
		195–254	<< (0.516–692.1 °/s)
		255	<<<
30	Gobo Rotation Fine	0–255	Fine adjustment of CH 29
31	Animation Wheel		Same as CH 22 in the mode “Standard” (p. 14)
32	Iris	0–191	Iris: Open ... Closed
		191	Iris: Closed
		191–192	Iris 1
		192–223	Pulse closing fast ... Pulse closing slow
		223	Pulse closing slow
		223–224	Pulse Close
		224–255	Pulse opening slow ... Pulse opening fast
		255	Pulse opening fast
33	Iris Fine	0–255	Fine adjustment of CH 32
34	Frost		Same as CH 24 in the mode “Standard” (p. 14)
35	Blade 1 A	0–255	Open ... Closed
		255	Closed
36	Blade 1 A Fine	0–255	Fine adjustment of CH 35
37	Blade 1 B	0–255	Open ... Closed
		255	Closed
38	Blade 1 B Fine	0–255	Fine adjustment of CH 37
39	Blade 3 A	0–255	Open ... Closed
		255	Closed
40	Blade 3 A Fine	0–255	Fine adjustment of CH 39
41	Blade 3 B	0–255	Open ... Closed
		255	Closed
42	Blade 3 B Fine	0–255	Fine adjustment of CH 41
43	Blade 2 A	0–255	Open ... Closed
		255	Closed
44	Blade 2 A Fine	0–255	Fine adjustment of CH 43
45	Blade 2 B	0–255	Open ... Closed
		255	Closed
46	Blade 2 B Fine	0–255	Fine adjustment of CH 45
47	Blade 4 A	0–255	Open ... Closed
		255	Closed
48	Blade 4 A Fine	0–255	Fine adjustment of CH 47
49	Blade 4 B	0–255	Open ... Closed
		255	Closed
50	Blade 4 B Fine	0–255	Fine adjustment of CH 49

CH	Function	DMX	Description
51	Shaper Rotation	0–128	45 Deg ... 0
		128–255	0 ... -45 Deg
		255	-45 Deg
52	Shaper Rotation Fine	0–255	Fine adjustment of CH 51
53	Frame Speed		Same as CH 34 in the mode “Standard” (p. 15)
54	Shaper Macros		Same as CH 35 in the mode “Standard” (p. 15)
55	Control		Same as CH 36 in the mode “Standard” (p. 16)

10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	1,200 W
Luminous flux	75,000 lm
Color temperature	6,300 K
Optics	
Zoom	6.8–49.8°
Movement	
Pan	540°
Tilt	250°
Control	
RDM	yes (manufacturer ID 0x4753, device model ID 0x070F)
Dimensions and construction	
Weight	50 kg
Operating environment	
Operating temperature	-10 to 45 °C

Speeds and ranges

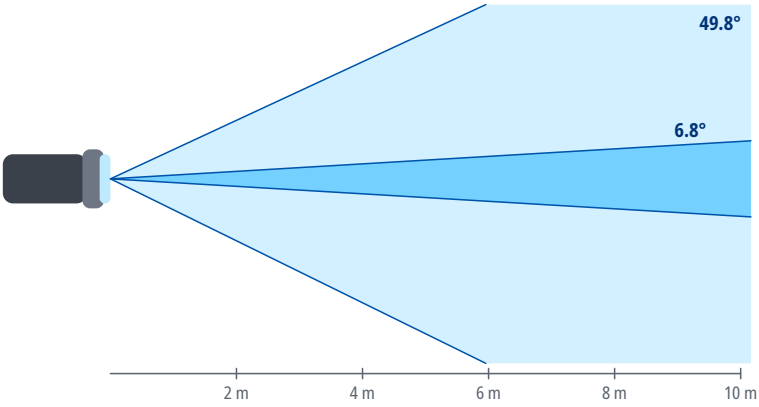
Parameter	Value
Color temperature range	2700–6800 K
Strobe frequency	1–25 Hz
Color wheel rotation	up to 703.2 °/s (117 rpm)
Gobo wheel rotation	up to 351.5 °/s (59 rpm)
Gobo rotation	up to 703.2 °/s (117 rpm)

Dimensions

weight 50 kg



Spot diameter



Distance	Ø 6.8°	Ø 49.8°
2 m	0.24 m	1.9 m
4 m	0.48 m	3.7 m
6 m	0.71 m	5.6 m
8 m	0.95 m	7.4 m
10 m	1.2 m	9.3 m
15 m	1.8 m	13.9 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.

Problem	Remedy
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.
Movement is reversed	Check whether Pan/Tilt inversion is enabled in the device menu or in the controller.
Moving parts do not reach the correct position after power-on or transport	Switch the device off and on again to reset the position, and make sure the transport lock, if any, is released. If this does not help, contact a service center.
Movement is jerky	Check the value of the Pan/Tilt speed channel, if the device has one, and the stability of the DMX signal.

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.