DMX REFERENCE

Robin Arianne 2

Robe Lighting



Manufacturer	Robe Lighting
GDTF file	Robe_Lighting_Robin_Arianne_2_164532.gdtf
GDTF revision	2026-10-13 Control channel in M1 update
Generated	2026-11-24

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1 About this manual

This document describes the Robin Arianne 2™ by Robe Lighting. It was compiled from the GDTF file Robe_Lighting_Robin_Arianne_2_164532.gdtf from the GDTF-Share library.

File revision: “2026-10-13 Control channel in M1 update”.

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 Robe Lighting; 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
Power consumption	330 W
Weight	11.5 kg
Ingress protection	IP65

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 1 - LB Compatible	22	23	1, 23, 45, 67, ...
Mode 2 - Festival	27	18	1, 28, 55, 82, ...
Mode 3 - Full+Screenpix	50	10	1, 51, 101, 151, ...

No light? Check these channels

- Mode 1 - LB Compatible: CH 20 Shutter at 32–63 “Open” or 96–127, 160–169, 224–255 “Shutter open”; CH 21 Dimmer above 0
- Mode 2 - Festival: CH 20 Shutter at 32–63 “Open” or 96–127, 160–169, 224–255 “Shutter open”; CH 21 Dimmer above 0
- Mode 3 - Full+Screenpix: CH 20 Shutter at 32–63 “Open” or 96–127, 160–169, 224–255 “Shutter open”; CH 21 Dimmer 1 above 0



Read the manual before use



Risk of electric shock



Do not stare into the light

3 Safety instructions



Read the manual before use



Risk of electric shock



Do not stare into the light

⚠ 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

- Connect the device only to a properly installed mains outlet with a protective earth (ground) contact. The outlet or other means of disconnection must remain easily accessible.
- Power supply: 100–240 V, 50/60 Hz. Before connecting, make sure that the mains voltage matches this value and the value on the rating plate of the device.
- Do not connect the device to a dimmer or to a dimmed circuit.
- Use only the original power cable or a cable with identical ratings. Protect the cable from damage, do not run it over sharp edges, and never unplug it by pulling on the cable.
- When connecting several devices to one circuit, do not exceed its permitted load.
- Do not touch the device with wet hands.

⚠ CAUTION

- The device is rated IP65 and may be used outdoors within the limits of this rating.
- This protection is effective only when all connectors are mated or closed with their protective caps and all seals are intact. Use cables and connectors with the same or a higher protection rating.
- Do not open the housing; opening it breaks the seals and the protection rating can no longer be guaranteed.
- Install the device so that water cannot collect around connectors and cable glands, and inspect seals and cables regularly.

⚠ **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.

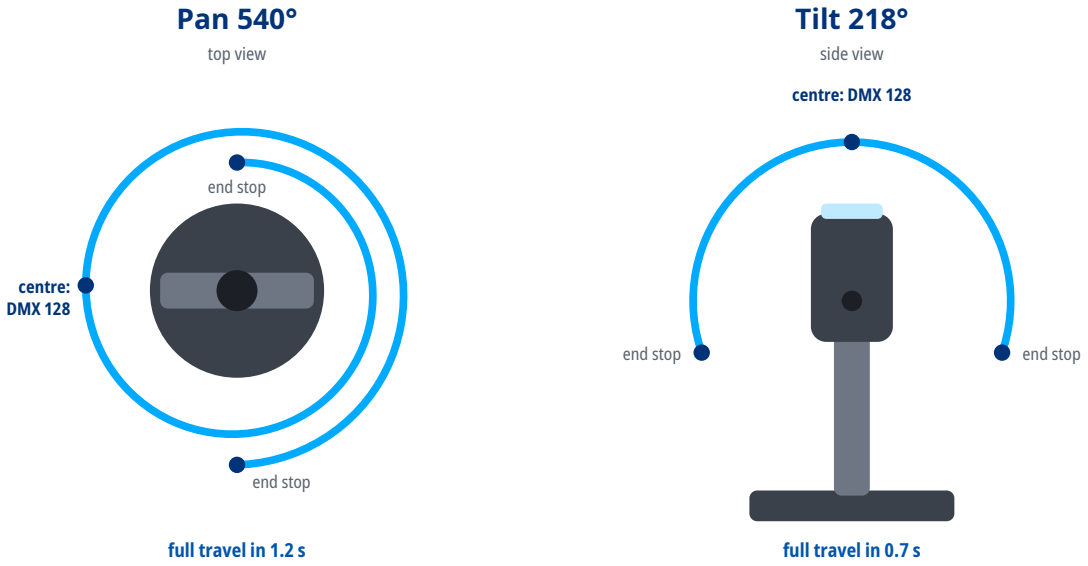
4 Product description

Description in the GDTF file

“The most compact fixture in the Arianne family, Arianne 2™ embodies the range’s core ethos of simplicity, durability, and performance. Delivering powerful output, refined colour mixing, and full IP65/66 protection, it is engineered for dependable operation and effortless maintenance in any environment.”

“By eliminating sometimes unnecessary complexities such as pixel mapping, layers and background effects, yet upholding Robe’s renowned quality, the ultra-fast Arianne 2™ delivers all the essential attributes for exceptional wash and beam effects in any environment.”

Range of movement



Full-travel times as stated in the GDTF file.

5 Installation

⚠ **WARNING**

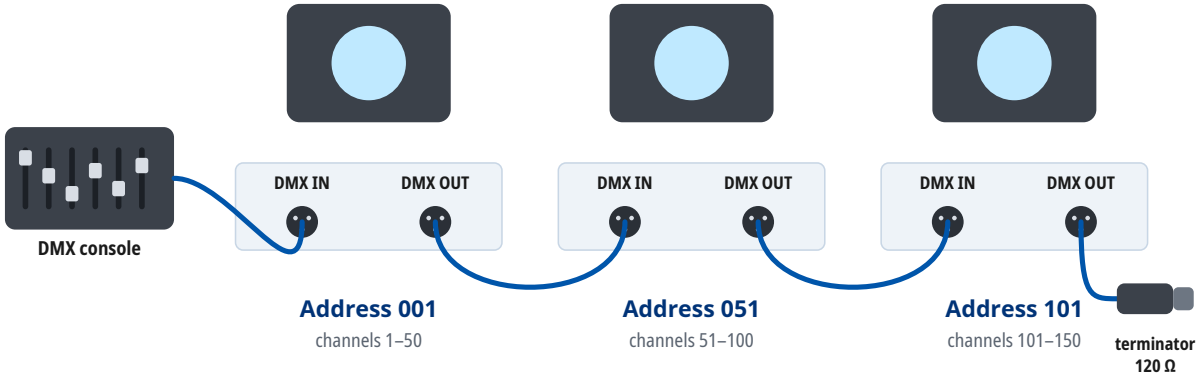
- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 11.5 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 3 - Full+Screenpix: every unit occupies 50 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 3 - Full+Screenpix”: 50.
- 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 3 - Full+Screenpix”, you can use, for example, the start addresses 1, 51, 101, 151.
- 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.

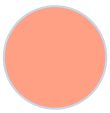
8 Functions at a glance

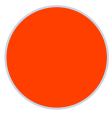
Functions in each DMX mode

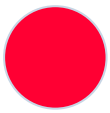
	Mode 1 - LB Compatible 22 channels	Mode 2 - Festival 27 channels	Mode 3 - Full+Screenpix 50 channels
Pan / Tilt	1, 3	1, 3	1, 3
Dimmer	21	21	21, 50
Shutter / strobe	20	20	20, 50
Color mixing	4× (8–14)	4× (8–14)	15 channels (8–46)
Color temperature	16	16	16
Color wheel	7	7	7
Zoom	18	18	18
Pixel control			✓

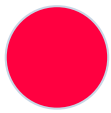
Color wheel

1.
No function
DMX 0

2. 
Filter 4 (Medium Bastard Amber)
DMX 1–2

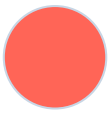
3. 
Filter 25 (Sunset red)
DMX 3–4

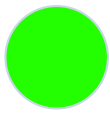
4. 
Filter 19 (Fire)
DMX 5–6

5. 
Filter 26 (Bright Red)
DMX 7–8

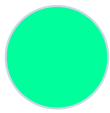
6. 
Filter 58 (Lavender)
DMX 9–10

7. 
Filter 68 (Sky Blue)
DMX 11–12

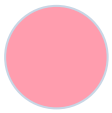
8. 
Fliter 36 (Medium Pink)
DMX 13–14

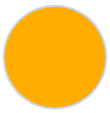
9. 
Filter 89 (Moss Green)
DMX 15–16

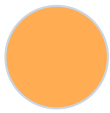
10.
Filter 88 (Lime Green)
DMX 17–18

11. 
Filter 90 (Dark Yellow Green)
DMX 19–20

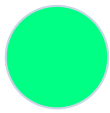
12. 
Filter 49 (Medium Purple)
DMX 21–22

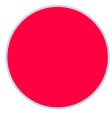
13. 
Filter 52 (Light Lavender)
DMX 23–24

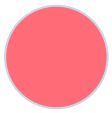
14. 
Filter 102 (Light Amber)
DMX 25–26

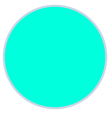
15. 
Filter 103 (Straw)
DMX 27–28

16.
Filter 140 (Summer Blue)
DMX 29–30

17. 
Fliter 124 (Dark Green)
DMX 31–32

18. 
Filter 106 (Primary Red)
DMX 33–34

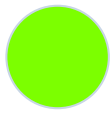
19. 
Filter 111 (Dark Pink)
DMX 35–36

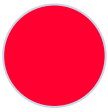
20. 
Filter 115 (Peacock Blue)
DMX 37–38

21. 
Filter 126 (Mauve)
DMX 39–40

22.
Filter 117 (Steel Blue)
DMX 41–42

23. 
Filter 118 (Light Blue)
DMX 43–44

24. 
Filter 122 (Fern Green)
DMX 45–46

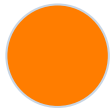
25 
Filter 182 (Light Red)
DMX 47–48

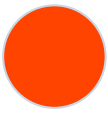
26
Filter 121 (Filter Green)
DMX 49–50

27 
Filter 128 (Bright Pink)
DMX 51–52

28
Filter 131 (Marine Blue)
DMX 53–54

29 
Filter 132 (Medium Blue)
DMX 55–56

30 
Filter 134 (Golden Amber)
DMX 57–58

31 
Filter 135 (Deep Golden Amber)
DMX 59–60

32 
Filter 136 (Pale Lavender)
DMX 61–62

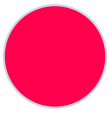
33 
Filter 137 (Special Lavender)
DMX 63–64

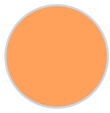
34
Filter 138 (Pale Green)
DMX 65–66

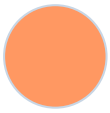
35 
Filter 798 (Chrysalis Pink)
DMX 67–68

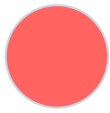
36 
Filter 141 (Bright Blue)
DMX 69–70

37 
Filter 147 (Apricot)
DMX 71–72

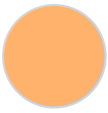
38 
Filter 148 (Bright Rose)
DMX 73–74

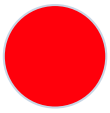
39 
Filter 152 (Pale Gold)
DMX 75–76

40 
Filter 154 (Pale Rose)
DMX 77–78

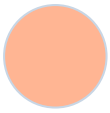
41 
Filter 157 (Pink)
DMX 79–80

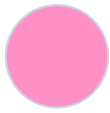
42 
Filter 143 (Pale Navy Blue)
DMX 81–82

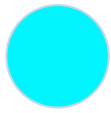
43 
Filter 162 (Bastard Amber)
DMX 83–84

44 
Filter 164 (Flame Red)
DMX 85–86

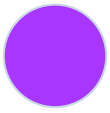
45 
Filter 165 (Daylight Blue)
DMX 87–88

46 
Filter 169 (Lilac Tint)
DMX 89–90

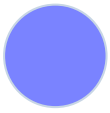
47 
Filter 170 (Deep Lavender)
DMX 91–92

48 
Filter 172 (Lagoon Blue)
DMX 93–94

49
Filter 194 (Surprise Pink)
DMX 95–96

50 
Filter 180 (Dark Lavender)
DMX 97–98

51 
Filter 181 (Congo Blue)
DMX 99–100

52 
Filter 197 (Alice Blue)
DMX 101–102

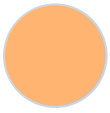
53
Filter 201 (Full CT Blue)
DMX 103–104

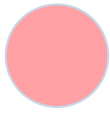
54
Filter 202 (Half CT Blue)
DMX 105–106

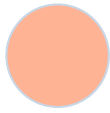
55
Filter 203 (Quarter CT Blue)
DMX 107–108

56 
Filter 204 (Full CT Orange)
DMX 109–110

57
Filter 219 (Fluorescent Green)
DMX 111–112

58 
Filter 206 (Quarter CT Orange)
DMX 113–114

59 
Filter 247 (Filter Minus Green)
DMX 115–116

60 
Filter 248 (Half Minus Green)
DMX 117–118

61
Filter 281 (Three Quarter CT Blue)
DMX 119–120

62 
Filter 285 (Three Quarter CT Orange)
DMX 121–122

63 
Filter 352 (Glacier Blue)
DMX 123–124

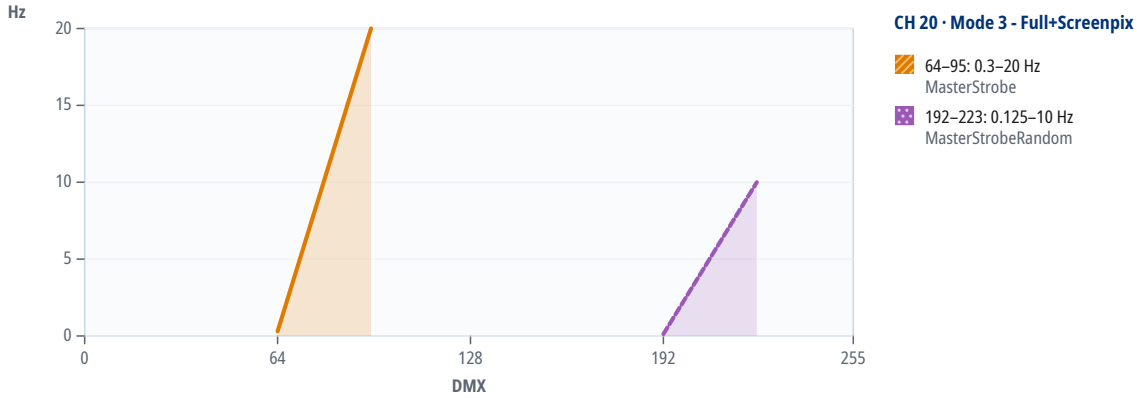
64 
Filter 353 (Lighter Blue)
DMX 125–126

65
Filter 507 (Madge)
DMX 127–128

66
Filter 778 (Millennium Gold)
DMX 129–130

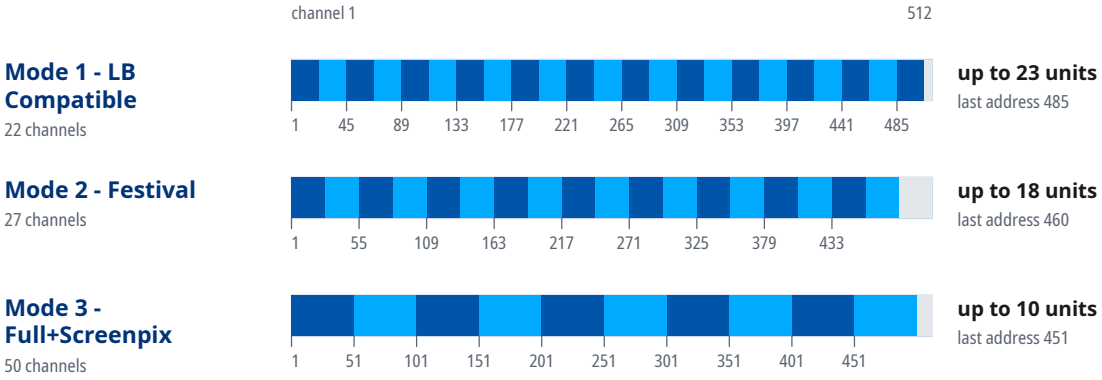
67
Filter 793 (Vanity Fair)
DMX 131–132

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Mode 3 - Full+Screenpix”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	251	11	U2 · 1	16	U2 · 251
2	51	7	301	12	U2 · 51	17	U2 · 301
3	101	8	351	13	U2 · 101	18	U2 · 351
4	151	9	401	14	U2 · 151	19	U2 · 401
5	201	10	451	15	U2 · 201	20	U2 · 451

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.

RDM personalities

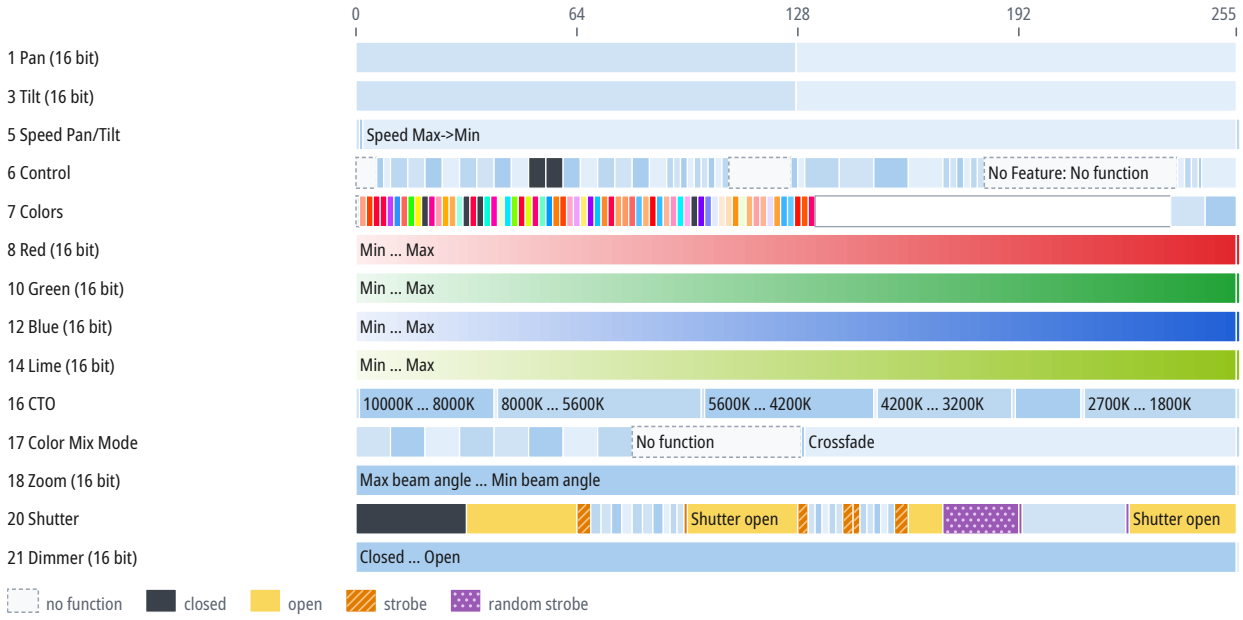
Mode	Channels	RDM personality
Mode 1 - LB Compatible	22	1
Mode 2 - Festival	27	2
Mode 3 - Full+Screenpix	50	3

Mode 1 - LB Compatible

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 20 Shutter at 32–63 “Open” or 96–127, 160–169, 224–255 “Shutter open”; CH 21 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 255, CH 10 Green 255, CH 12 Blue 255, CH 14 Lime 255, CH 16 CTO 0, CH 20 Shutter 32, CH 21 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan
		128	Center
		128–255	Pan
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Tilt
		128	Center
		128–255	Tilt
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Pan/Tilt speed / Time
		0	Standard mode
		1	Max Speed
		2–254	Speed Max->Min
		255	Min Speed
6	Control	0–5	No function
		6–7	Standby ON
		8–9	Standby OFF
		10–14	Wired DMX
		15–19	Wireless DMX
		20–24	Display ON

CH	Function	DMX	Description
6	Control (continued)	25–29	Display OFF
		30–34	RGBL colour mixing mode
		35–39	CMY colour mixing mode
		40–44	Tilt speed mode
		45–49	Tilt time mode
		50–54	Blackout while tilt moving
		55–59	Disabled blackout while tilt moving
		60–64	Dimmer curve Square law
		65–69	Dimmer curve Linear
		70–74	Fans mode Auto
		75–79	Fans mode High
		80–84	White point 8000K On
		85–89	White point 8000K Off
		90–91	Pressure test ON
		92–93	Pressure test OFF
		94–95	Screenpix ON
		96–97	Screenpix OFF
		98–99	Sync ON
		100–101	Sync OFF
		102–103	High output
		104–105	CRI output
		106–107	CPC - Fans OFF
		108–125	Reserved: No function
		126–127	Parking position On
		128–129	Parking position Off
		130–139	Fixture reset (except Tilt)
		140–149	Pan/Tilt reset
		150–159	Zoom reset
		160–169	Total Fixture Reset
		170–171	Tungsten effect simulation 750W
		172–173	Tungsten effect simulation 1000W
		174–175	Tungsten effect simulation 1200W
		176–177	Tungsten effect simulation 2000W
		178–179	Tungsten effect simulation 2500W
		180–181	Tungsten effect simulation Off
		182–237	No Feature: No function
		238–239	RoboSpot enabled
		240–241	RoboSpot disabled - except handle faders and p/t
		242–243	RoboSpot fully disabled
		244	Disabled Quiet mode
		245–255	Quiet mode min to max
7	Colors	0	No function

CH	Function	DMX	Description
7	Colors (continued)	1–2	Filter 4 (Medium Bastard Amber)
		3–4	Filter 25 (Sunset red)
		5–6	Filter 19 (Fire)
		7–8	Filter 26 (Bright Red)
		9–10	Filter 58 (Lavender)
		11–12	Filter 68 (Sky Blue)
		13–14	Fliter 36 (Medium Pink)
		15–16	Filter 89 (Moss Green)
		17–18	Filter 88 (Lime Green)
		19–20	Filter 90 (Dark Yellow Green)
		21–22	Filter 49 (Medium Purple)
		23–24	Filter 52 (Light Lavender)
		25–26	Filter 102 (Light Amber)
		27–28	Filter 103 (Straw)
		29–30	Filter 140 (Summer Blue)
		31–32	Fliter 124 (Dark Green)
		33–34	Filter 106 (Primary Red)
		35–36	Filter 111 (Dark Pink)
		37–38	Filter 115 (Peacock Blue)
		39–40	Filter 126 (Mauve)
		41–42	Filter 117 (Steel Blue)
		43–44	Filter 118 (Light Blue)
		45–46	Filter 122 (Fern Green)
		47–48	Filter 182 (Light Red)
		49–50	Filter 121 (Filter Green)
		51–52	Filter 128 (Bright Pink)
		53–54	Filter 131 (Marine Blue)
		55–56	Filter 132 (Medium Blue)
		57–58	Filter 134 (Golden Amber)
		59–60	Filter 135 (Deep Golden Amber)
		61–62	Filter 136 (Pale Lavender)
		63–64	Filter 137 (Special Lavender)
		65–66	Filter 138 (Pale Green)
		67–68	Filter 798 (Chrysalis Pink)
		69–70	Filter 141 (Bright Blue)
		71–72	Filter 147 (Apricot)
		73–74	Filter 148 (Bright Rose)
		75–76	Filter 152 (Pale Gold)
		77–78	Filter 154 (Pale Rose)
		79–80	Filter 157 (Pink)
		81–82	Filter 143 (Pale Navy Blue)
		83–84	Filter 162 (Bastard Amber)

CH	Function	DMX	Description
7	Colors (continued)	85–86	Filter 164 (Flame Red)
		87–88	Filter 165 (Daylight Blue)
		89–90	Filter 169 (Lilac Tint)
		91–92	Filter 170 (Deep Lavender)
		93–94	Filter 172 (Lagoon Blue)
		95–96	Filter 194 (Surprise Pink)
		97–98	Filter 180 (Dark Lavender)
		99–100	Filter 181 (Congo Blue)
		101–102	Filter 197 (Alice Blue)
		103–104	Filter 201 (Full CT Blue)
		105–106	Filter 202 (Half CT Blue)
		107–108	Filter 203 (Quarter CT Blue)
		109–110	Filter 204 (Full CT Orange)
		111–112	Filter 219 (Fluorescent Green)
		113–114	Filter 206 (Quarter CT Orange)
		115–116	Filter 247 (Filter Minus Green)
		117–118	Filter 248 (Half Minus Green)
		119–120	Filter 281 (Three Quarter CT Blue)
		121–122	Filter 285 (Three Quarter CT Orange)
		123–124	Filter 352 (Glacier Blue)
		125–126	Filter 353 (Lighter Blue)
		127–128	Filter 507 (Madge)
		129–130	Filter 778 (Millennium Gold)
		131–132	Filter 793 (Vanity Fair)
		133–235	Raw DMX
		236–245	Ranbow effect (with fade time) from slow to fast
		246–255	Ranbow effect (without fade time) from slow to fast
8	Red	0–255	Min ... Max
		255	Max
9	Red Fine	0–255	Fine adjustment of CH 8
10	Green	0–255	Min ... Max
		255	Max
11	Green Fine	0–255	Fine adjustment of CH 10
12	Blue	0–255	Min ... Max
		255	Max
13	Blue Fine	0–255	Fine adjustment of CH 12
14	Lime	0–255	Min ... Max
		255	Max
15	Lime Fine	0–255	Fine adjustment of CH 14
16	CTO	0	10000K
		1–39	10000K ... 8000K (9950–8050 K)
		40	8000K

CH	Function	DMX	Description
16	CTO (continued)	41–99	8000K … 5600K (7960–5640 K)
		100	5600K
		101–149	5600K … 4200K (5572–4228 K)
		150	4200K
		151–189	4200K … 3200K (4175–3225 K)
		190	3200K
		191–209	3200K … 2700K (3175–2725 K)
		210	2700K
		211–254	2700K … 1800K (2680–1820 K)
		255	1800K
17	Color Mix Mode	0–9	Virtual has priority
		10–19	Maximum mode
		20–29	Minimum mode
		30–39	Multiply mode
		40–49	Addition mode
		50–59	Subtraction mode
		60–69	Inverted subtraction mode
		70–79	White point OFF
		80–128	No function
		129	Virtual colors
		130–254	Crossfade
		255	Colour channels
18	Zoom	0–255	Max beam angle … Min beam angle
		255	Min beam angle
19	Zoom Fine	0–255	Fine adjustment of CH 18
20	Shutter	0–31	Open/Close: Closed
		32–63	Open/Close: Open
		64–67	Master Strobe: Slow to fast - Slow (0.3–0.353 Hz)
		68–94	Master Strobe: Slow to fast - Slow … Slow to fast - Fast (0.375–17.6 Hz)
		95	Master Strobe: Slow to fast - Fast
		96–127	Shutter open
		128–130	Master Strobe Pulse Open: Slow to fast - Slow (0.125–0.139 Hz)
		131–140	Master Strobe Pulse Open: Slow to fast - Slow … Slow to fast - Fast (0.147–0.312 Hz)
		141–143	Master Strobe Pulse Open: Slow to fast - Fast (0.357–0.499 Hz)
		144–145	Master Strobe Pulse Close: Fast to slow - Fast (0.5–0.416 Hz)
		146–155	Master Strobe Pulse Close: Fast to slow - Fast … Fast to slow - Slow (0.357–0.156 Hz)
		156–159	Master Strobe Pulse Close: Fast to slow - Slow (0.147–0.125 Hz)
		160–169	Shutter open

CH	Function	DMX	Description
20	Shutter (continued)	170–191	Random strobe-each zone random (0.13–10 Hz)
		192	Random strobe slow
		193–222	Random strobe slow ... Random strobe fast
		223	Random strobe fast
		224–255	Shutter open
21	Dimmer		Master Dimmer
		0–255	Closed ... Open
		255	Open
22	Dimmer Fine	0–255	Fine adjustment of CH 21

Mode 2 - Festival

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 20 Shutter at 32–63 “Open” or 96–127, 160–169, 224–255 “Shutter open”; CH 21 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 255, CH 10 Green 255, CH 12 Blue 255, CH 14 Lime 255, CH 16 CTO 0, CH 20 Shutter 32, CH 21 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 1 - LB Compatible” (p. 11)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 1 - LB Compatible” (p. 11)
4	Tilt Fine	0–255	Fine adjustment of CH 3

CH	Function	DMX	Description
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 1 - LB Compatible” (p. 11)
6	Control	0–5	No function
		6–7	Standby ON
		8–9	Standby OFF
		10–14	Wired DMX
		15–19	Wireless DMX
		20–24	Display ON
		25–29	Display OFF
		30–34	RGBL colour mixing mode
		35–39	CMY colour mixing mode
		40–44	Tilt speed mode
		45–49	Tilt time mode
		50–54	Blackout while tilt moving
		55–59	Disabled blackout while tilt moving
		60–64	Dimmer curve Square law
		65–69	Dimmer curve Linear
		70–74	Fans mode Auto
		75–79	Fans mode High
		80–84	White point 8000K On
		85–89	White point 8000K Off
		90–91	Pressure test ON
		92–93	Pressure test OFF
		94–95	Screenpix ON
		96–97	Screenpix OFF
		98–99	Sync ON
		100–101	Sync OFF
		102–103	High output
		104–105	CRI output
		106–107	CPC - Fans OFF
		108–125	Reserved: No function
		126–127	Parking position On
		128–129	Parking position Off
		130–139	Fixture reset (except Tilt)
		140–149	Pan/Tilt reset
		150–159	Zoom reset
		160–169	Total Fixture Reset
		170–171	Tungsten effect simulation 750W
		172–173	Tungsten effect simulation 1000W
		174–175	Tungsten effect simulation 1200W
		176–177	Tungsten effect simulation 2000W
		178–179	Tungsten effect simulation 2500W
		180–181	Tungsten effect simulation Off

CH	Function	DMX	Description
6	Control (continued)	182	Green/Blue Correction calibration
		183	Green/Blue Correction 1800K/High intensity
		184	Green/Blue Correction 2700K/High intensity
		185	Green/Blue Correction 3200K/High intensity
		186	Green/Blue Correction 4200K/High intensity
		187	Green/Blue Correction 5600K/High intensity
		188	Green/Blue Correction 8000K/High intensity
		189	Green/Blue Correction 10000K/High intensity
		190	Green/Blue Correction 1800K/High CRI
		191	Green/Blue Correction 2700K/High CRI
		192	Green/Blue Correction 3200K/High CRI
		193	Green/Blue Correction 4200K/High CRI
		194	Green/Blue Correction 5600K/High CRI
		195	Green/Blue Correction 8000K/High CRI
		196	Green/Blue Correction 10000K/High CRI
		197	Save correction
		198–237	No Feature: No function
		238–239	RoboSpot enabled
		240–241	RoboSpot disabled - except handle faders and p/t
		242–243	RoboSpot fully disabled
		244	Disabled Quiet mode
		245–255	Quiet mode min to max
7	Colors		Same as CH 7 in the mode “Mode 1 - LB Compatible” (p. 12)
8	Red		Same as CH 8 in the mode “Mode 1 - LB Compatible” (p. 14)
9	Red Fine	0–255	Fine adjustment of CH 8
10	Green		Same as CH 10 in the mode “Mode 1 - LB Compatible” (p. 14)
11	Green Fine	0–255	Fine adjustment of CH 10
12	Blue		Same as CH 12 in the mode “Mode 1 - LB Compatible” (p. 14)
13	Blue Fine	0–255	Fine adjustment of CH 12
14	Lime		Same as CH 14 in the mode “Mode 1 - LB Compatible” (p. 14)
15	Lime Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 16 in the mode “Mode 1 - LB Compatible” (p. 14)
17	Color Mix Mode		Same as CH 17 in the mode “Mode 1 - LB Compatible” (p. 15)
18	Zoom		Same as CH 18 in the mode “Mode 1 - LB Compatible” (p. 15)
19	Zoom Fine	0–255	Fine adjustment of CH 18
20	Shutter		Same as CH 20 in the mode “Mode 1 - LB Compatible” (p. 15)
21	Dimmer		Same as CH 21 in the mode “Mode 1 - LB Compatible” (p. 16)
22	Dimmer Fine	0–255	Fine adjustment of CH 21
23	Tint	0	Uncorrected white
		1–127	Minus green - > Uncorrected white
		128	Uncorrected white
		129–255	Uncorrected white - > Plus green

CH	Function	DMX	Description
24	LED Frequency	0–4	PWM frequency from Display menu
		5–9	300 Hz
		10–14	600 Hz
		15–19	1200 Hz
		20–24	2400 Hz
		25–29	LEDFrequency: High
		30–255	No function
25	LED Frequency Adjust	0–1	Selected LED frequency
		2–127	LED Frequency (step -126...-1)
		128	Selected LED frequency
		129–254	LED Frequency (step 1...126)
		255	Selected LED Frequency
26	Pattern Selection	0–2	No pattern
		3–4	Pattern 1
		5–6	Pattern 2
		7–8	Pattern 3
		9–10	Pattern 4
		11–12	Pattern 5
		13–14	Pattern 6
		15–16	Pattern 7
		17–18	Pattern 8
		19–20	Pattern 9
		21–22	Pattern 10
		23–24	Pattern 11
		25–26	Pattern 12
		27–255	Reserved
27	Pattern Movement	0	No movement
		1–63	Fast to slow- Center to edge- no fade
		64	No Movement
		65–127	Slow to fast- Edge to center- no fade
		128	No movement
		129–191	Fast to slow- Center to edge- with fade
		192	No Movement
		193–255	Slow to fast- Edge to center- with fade

Mode 3 - Full+Screenpix

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 20 Shutter at 32–63 “Open” or 96–127, 160–169, 224–255 “Shutter open”; CH 21 Dimmer 1 above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Colors 0, CH 8 Red 1 255, CH 10 Green 1 255, CH 12 Blue 1 255, CH 14 Lime 1 255, CH 16 CTO 0, CH 20 Shutter 32, CH 21 Dimmer 1 255, CH 28 Red 2 255, CH 30 Green 2 255, CH 32 Blue 2 255, CH 34 Lime 2 255, CH 36 Red 3 255, CH 38 Green 3 255, CH 40 Blue 3 255, CH 42 Lime 3 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Mode 1 - LB Compatible” (p. 11)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Mode 1 - LB Compatible” (p. 11)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “Mode 1 - LB Compatible” (p. 11)
6	Control		Same as CH 6 in the mode “Mode 2 - Festival” (p. 17)
7	Colors		Same as CH 7 in the mode “Mode 1 - LB Compatible” (p. 12)
8	Red 1	0–255	Min ... Max
		255	Max
9	Red 1 Fine	0–255	Fine adjustment of CH 8
10	Green 1	0–255	Min ... Max
		255	Max
11	Green 1 Fine	0–255	Fine adjustment of CH 10
12	Blue 1	0–255	Min ... Max
		255	Max
13	Blue 1 Fine	0–255	Fine adjustment of CH 12
14	Lime 1	0–255	Min ... Max
		255	Max
15	Lime 1 Fine	0–255	Fine adjustment of CH 14
16	CTO		Same as CH 16 in the mode “Mode 1 - LB Compatible” (p. 14)
17	Color Mix Mode		Same as CH 17 in the mode “Mode 1 - LB Compatible” (p. 15)
18	Zoom		Same as CH 18 in the mode “Mode 1 - LB Compatible” (p. 15)
19	Zoom Fine	0–255	Fine adjustment of CH 18
20	Shutter		Same as CH 20 in the mode “Mode 1 - LB Compatible” (p. 15)
21	Dimmer 1		Master Dimmer
		0–255	Closed ... Open
		255	Open
22	Dimmer 1 Fine	0–255	Fine adjustment of CH 21
23	Tint		Same as CH 23 in the mode “Mode 2 - Festival” (p. 18)
24	LED Frequency		Same as CH 24 in the mode “Mode 2 - Festival” (p. 19)
25	LED Frequency Adjust		Same as CH 25 in the mode “Mode 2 - Festival” (p. 19)
26	Pattern Selection		Same as CH 26 in the mode “Mode 2 - Festival” (p. 19)
27	Pattern Movement		Same as CH 27 in the mode “Mode 2 - Festival” (p. 19)
28	Red 2	0–255	Min ... Max
		255	Max
29	Red 2 Fine	0–255	Fine adjustment of CH 28
30	Green 2	0–255	Min ... Max
		255	Max
31	Green 2 Fine	0–255	Fine adjustment of CH 30
32	Blue 2	0–255	Min ... Max
		255	Max

CH	Function	DMX	Description
33	Blue 2 Fine	0–255	Fine adjustment of CH 32
34	Lime 2	0–255	Min … Max
		255	Max
35	Lime 2 Fine	0–255	Fine adjustment of CH 34
36	Red 3	0–255	Min … Max
		255	Max
37	Red 3 Fine	0–255	Fine adjustment of CH 36
38	Green 3	0–255	Min … Max
		255	Max
39	Green 3 Fine	0–255	Fine adjustment of CH 38
40	Blue 3	0–255	Min … Max
		255	Max
41	Blue 3 Fine	0–255	Fine adjustment of CH 40
42	Lime 3	0–255	Min … Max
		255	Max
43	Lime 3 Fine	0–255	Fine adjustment of CH 42
44	Red 4	0	Min
		1–254	Min … Max
		255	Max
45	Green 4	0	Min
		1–254	Min … Max
		255	Max
46	Blue 4	0	Min
		1–254	Min … Max
		255	Max
47	Screen Pix Effect Select	0	No effect
		1	Effect 1
		2	Effect 2
		3	Effect 3
		4	Effect 4
		5	Effect 5
		6	Reserved
		7	Effect 7
		8	Effect 8
		9	Reserved
		10	Effect 10
		11	Reserved
		12	Effect 12
		13	Reserved
		14	Effect 14
		15	Effect 15
		16	Effect 16

CH	Function	DMX	Description
47	Screen Pix Effect Select (continued)	17	Effect 17
		18	Reserved
		19	Effect 19
		20	Effect 20
		21	Effect 21
		22	Effect 22
		23	Effect 23
		24	Colour effect 24
		25	Colour effect 25
		26	Colour effect 26
		27	Colour effect 27
		28	Reserved
		29	Colour effect 29
		30	Colour effect 30
		31	Colour effect 31
		32	Reserved
		33	Colour effect 33
		34	Colour effect 34
		35	Colour effect 35
		36	Colour effect 36
		37–38	Reserved
		39–56	Colour effect 39...56
		57–255	Reserved
48	Screen Pix Effect Speed	0	No movement
		1–127	Movement Fast to Slow- Left to Right
		128	No movement
		129–255	Movement Slow to Fast - Right to Left
49	Screen Pix Effect Colour	0	No function
		1–14	White
		15	Blue
		16	Blue + Green >>
		17–54	Blue + Green >> 1...38
		55	Light Blue
		56	Green + Blue <<
		57–94	Green + Blue << 1...38
		95	Green
		96	Green + Red >>
		97–134	Green + Red >> 1...38
		135	Yellow
		136	Red + Green <<
		137–174	Red + Green << 1...38
		175	Red

CH	Function	DMX	Description
49	Screen Pix Effect Colour (continued)	176	Red + Blue >>
		177–214	Red + Blue >> 1...38
		215	Magenta
		216	Blue + Red <<
		217–254	Blue + Red << 1...38
		255	Blue 1
50	Dimmer 2	0	Screen Pix Dimmer: Closed
		1–126	Screen Pix Dimmer: Closed ... Open
		127	Screen Pix Dimmer: Open
		128	Shutter 1 Strobe: Slow
		129–158	Shutter 1 Strobe: Slow ... Fast
		159	Shutter 1 Strobe: Fast
		160–170	Open
		171	Shutter 1 Strobe Pulse Open: Slow
		172–185	Shutter 1 Strobe Pulse Open: Slow ... Fast
		186	Shutter 1 Strobe Pulse Open: Fast
		187	Shutter 1 Strobe Pulse Close: Fast
		188–201	Shutter 1 Strobe Pulse Close: Fast ... Slow
		202	Shutter 1 Strobe Pulse Close: Slow
		203–213	Open
		214	Strobe random slow
		215–244	Strobe random slow ... Strobe random Fast
		245	Strobe random Fast
		246	Open
		247–255	Open 2

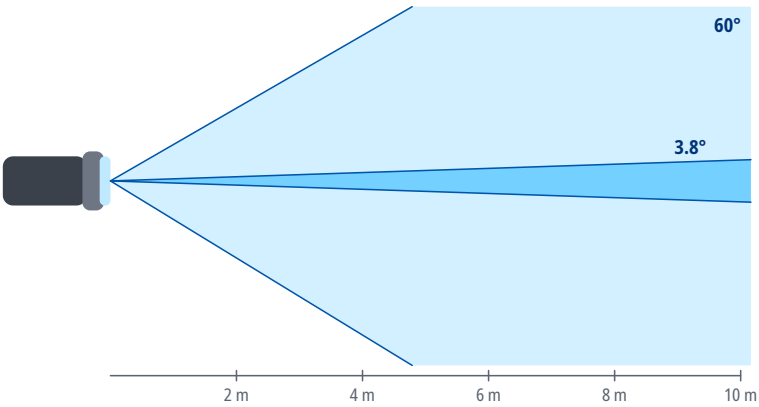
10 Technical specifications

Parameter	Value
Optics	
Zoom	3.8–60°
Movement	
Pan	540°
Tilt	218°
Control	
DMX connection	5-pin XLR IN/OUT
RJ45 connectors	RJ45 IN/OUT
RDM	yes (manufacturer ID 0x5253, device model ID 0x0168)
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	330 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	11.5 kg
Operating environment	
Ingress protection	IP65
Meaning of the IP code (IEC 60529)	Dust-tight; protected against water jets
Operating temperature	-50 to 50 °C

Speeds and ranges

Parameter	Value
Color temperature range	1800–10000 K
Strobe frequency	0.1–20 Hz

Spot diameter



Distance	Ø 3.8°	Ø 60°
2 m	0.13 m	2.3 m
4 m	0.27 m	4.6 m
6 m	0.4 m	6.9 m
8 m	0.53 m	9.2 m
10 m	0.66 m	11.5 m
15 m	1 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.
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.