DMX REFERENCE

FINE 960C STROBE IP

Fine Art



Manufacturer	Fine Art
GDTF file	Fine_Art_FINE_960C_STROBE_IP_122630.gdtf
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1 About this manual

This document describes the FINE 960C STROBE IP by Fine Art. It was compiled from the GDTF file Fine_Art_FINE_960C_STROBE_IP_122630.gdtf from the GDTF-Share library.

File revision: “FINE 960C STROBE IP”.

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 Fine Art; 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

DMX modes

Mode	Channels	Units in one universe	First start addresses
Stand-16	16	32	1, 17, 33, 49, ...
Pixels-65	9	56	1, 10, 19, 28, ...
Strobe-11	11	46	1, 12, 23, 34, ...
Pixels- 66	65	7	1, 66, 131, 196, ...

No light? Check these channels

- Stand-16: CH 3 Shutter at 6–10 “Open” or 106–110 or 180–185 or 254–255
- Pixels-65: CH 3 Strobe at 6–10 or 106–110 or 180–185 or 254–255
- Pixels- 66: CH 1 Dimmer above 0; CH 3 Shutter at 6–10 “Open” or 106–110 or 180–185 or 254–255



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

- This device produces very intense flashes of light.
- Flash rates of about 3 to 30 flashes per second carry the highest risk for people with photosensitive epilepsy.
- Do not aim the device into the eyes of the audience or performers at close range.
- At public events, always give clear advance notice that strobe effects will be used.

4 Installation

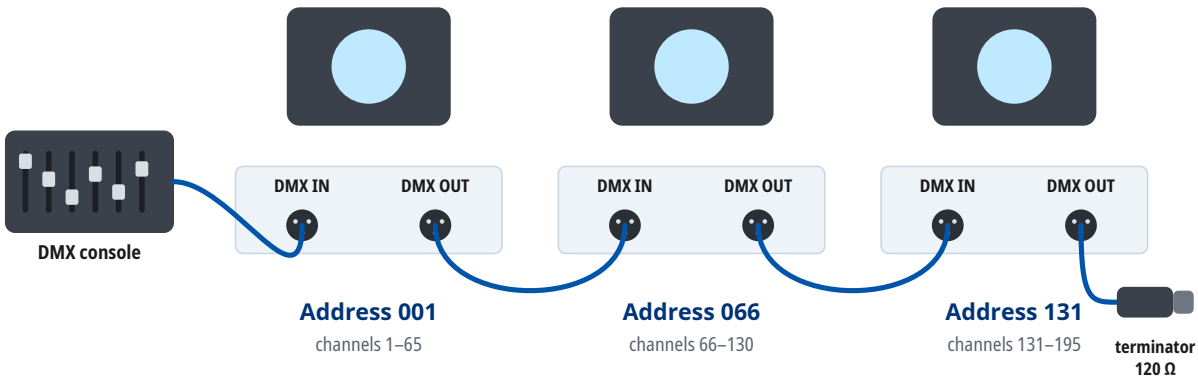
⚠ WARNING

- 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.
- 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.

5 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 Pixels- 66: every unit occupies 65 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.

6 Operation

Setting the DMX address

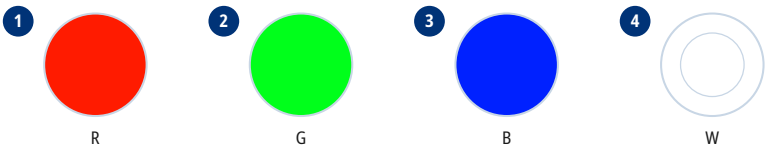
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Pixels- 66”: 65.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 “Pixels- 66”, you can use, for example, the start addresses 1, 66, 131, 196.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

7 Functions at a glance

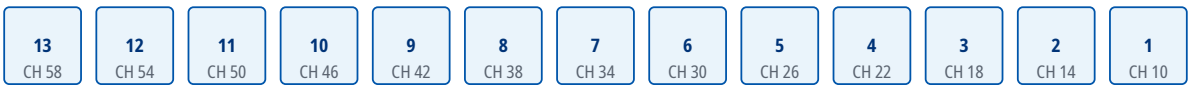
Functions in each DMX mode

	Stand-16 16 channels	Pixels-65 9 channels	Strobe-11 11 channels	Pixels- 66 65 channels
Dimmer	1	1	1	7 channels (1–62)
Shutter / strobe	3	3	3–5	3
Color mixing	4–7	6–9	6–9	54 channels (6–65)
Color temperature	8		10	
Effects / macros	9, 15			
Pixel control				15 cells

Color wheel



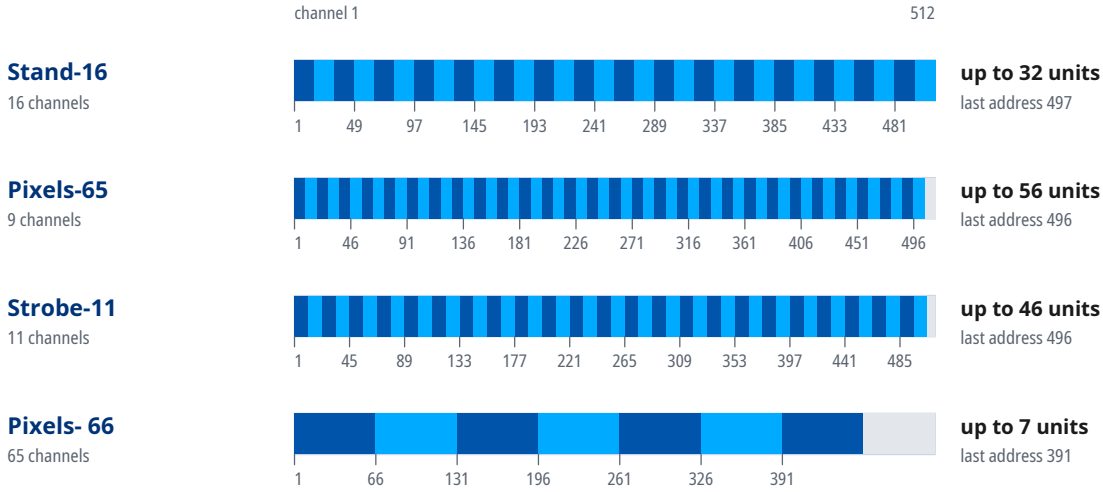
Cells (pixels)



13 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “Pixels- 66”.

8 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Pixels- 66”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	326	11	U2 · 196	16	U3 · 66
2	66	7	391	12	U2 · 261	17	U3 · 131
3	131	8	U2 · 1	13	U2 · 326	18	U3 · 196
4	196	9	U2 · 66	14	U2 · 391	19	U3 · 261
5	261	10	U2 · 131	15	U3 · 1	20	U3 · 326

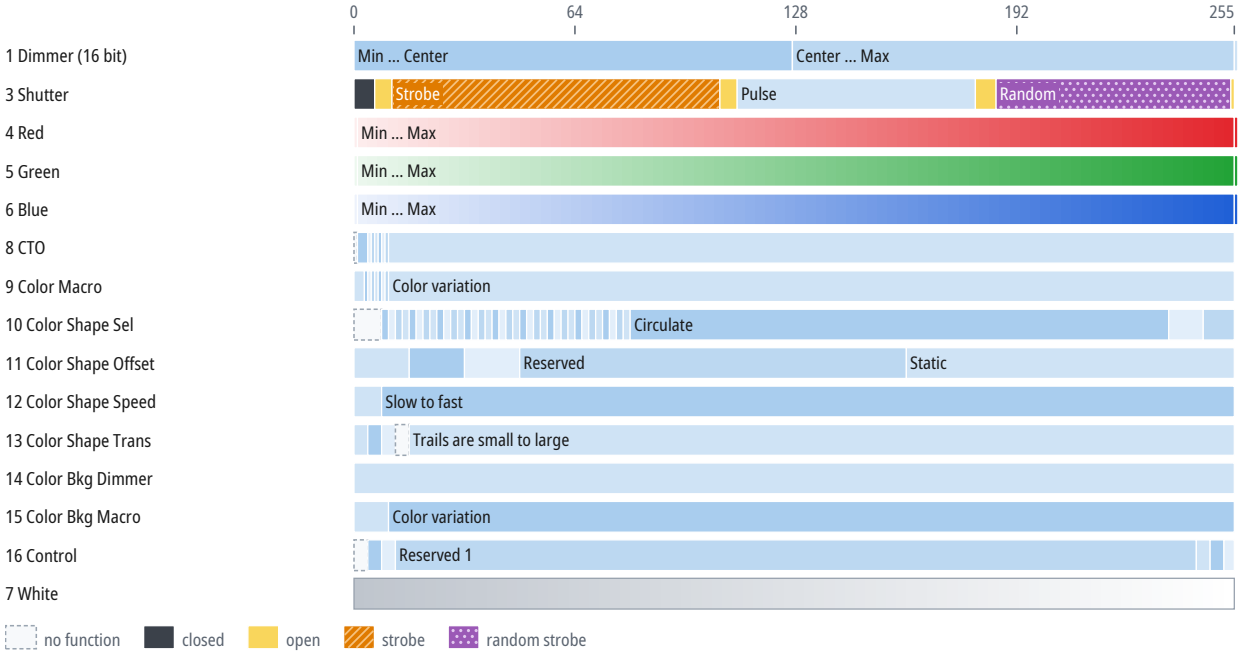
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode Stand-16

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 3 Shutter at 6–10 “Open” or 106–110 or 180–185 or 254–255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–127	Min ... Center
		127–255	Center ... Max
		255	Max
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter	0–5	Close
		6–10	Open
		11–105	Strobe
		106–110	Open 2
		111–179	Pulse
		180–185	Open 3
		186–253	Random
		254–255	Open 4
4	Red	0	Min
		1–254	Min ... Max
		255	Max
5	Green	0	Min
		1–254	Min ... Max
		255	Max
6	Blue	0	Min
		1–254	Min ... Max

CH	Function	DMX	Description
6	Blue (continued)	255	Max
7	White	0–255	
8	CTO	0–3	None
		4–9	CTO 1…6
		10–255	CTO 7 (10000–2500 K)
9	Color Macro	0–2	Close
		3–9	Rainbow effect 1…7
		10–255	Color variation
10	Color Shape Sel	0–7	None
		8–9	Color effects 1
		10–11	Color effects 2
		12–13	Color effects 3
		14–15	Color effects 4
		16–17	Color effects 5
		18–19	Color effects 6
		20–21	Color effects 7
		22–23	Color effects 8
		24–25	Color effects 9
		26–27	Color effects 10
		28–29	Color effects 11
		30–31	Color effects 12
		32–33	Color effects 13
		34–35	Color effects 14
		36–37	Color effects 15
		38–39	Color effects 16
		40–41	Color effects 17
		42–43	Color effects 18
		44–45	Color effects 19
		46–47	Color effects 20
		48–49	Color effects 21
		50–51	Color effects 22
		52–53	Color effects 23
		54–55	Color effects 24
		56–57	Color effects 25
		58–59	Color effects 26
		60–61	Color effects 27
		62–63	Color effects 28
		64–65	Color effects 29
		66–67	Color effects 30
		68–69	Color effects 31
		70–71	Color effects 32
		72–73	Color effects 33

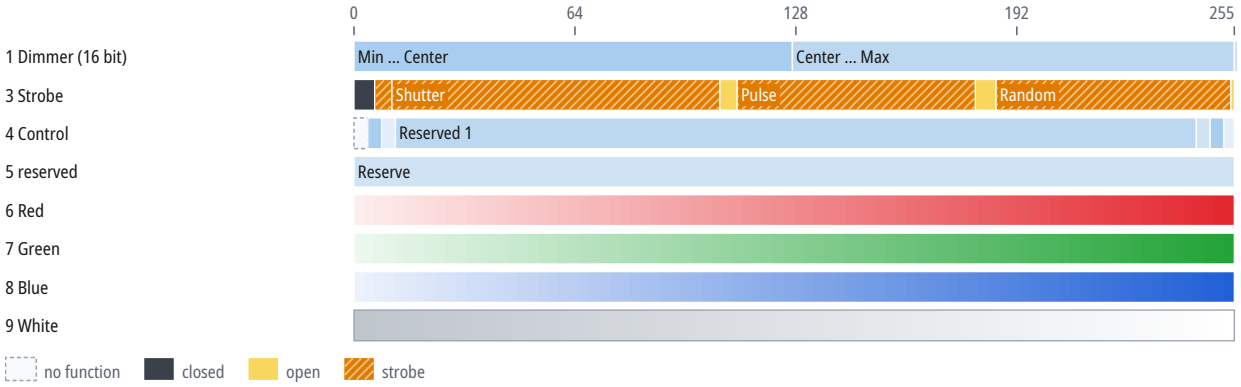
CH	Function	DMX	Description
10	Color Shape Sel (continued)	74–75	Color effects 34
		76–77	Color effects 35
		78–79	Color effects 36
		80–235	Circulate
		236–245	Random colored
		246–255	Random mono
11	Color Shape Offset	0–15	Sequential change
		16–31	Inverse change
		32–47	Circulate change
		48–159	Reserved
		160–255	Static
12	Color Shape Speed	0–7	Static
		8–255	Slow to fast
13	Color Shape Trans	0–3	Fade in and out
		4–7	Fade
		8–11	Fade out
		12–15	None
		16–255	Trails are small to large
14	Color Bkg Dimmer	0–255	
15	Color Bkg Macro	0–9	Close
		10–255	Color variation
16	Control	0–3	None
		4–7	LED lattice reverse close
		8–11	LED lattice reverse open
		12–243	Reserved 1
		244–247	Actuated reset
		248–251	Reserved 2
		252–255	All reset

Mode Pixels-65

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 3 Strobe at 6–10 or 106–110 or 180–185 or 254–255. The GDTF file gives these values for a console's Highlight function: CH 6 Red 255, CH 7 Green 255, CH 8 Blue 255, CH 9 White 0.

Channel functions at a glance

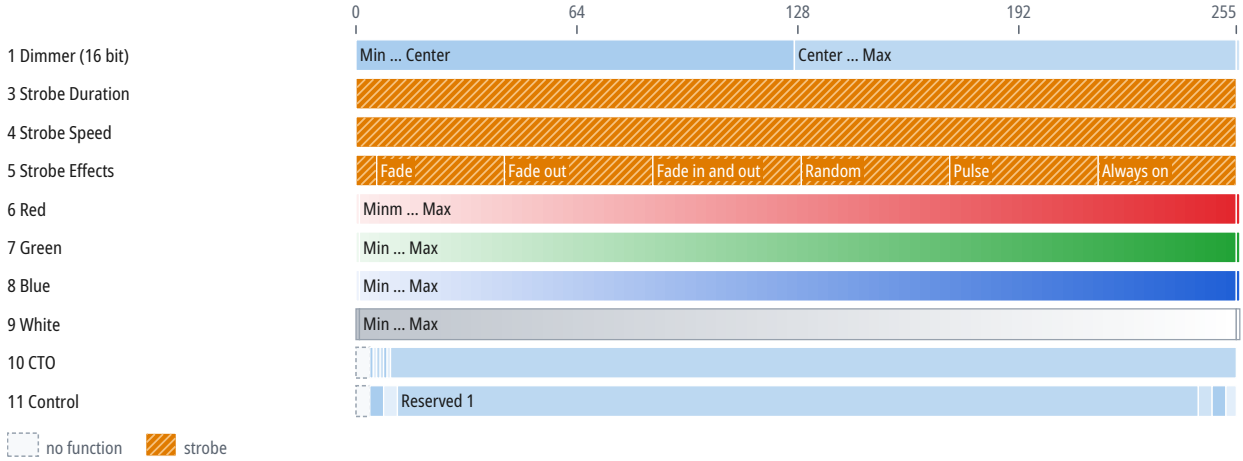


CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Stand-16” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Strobe	0–5	Close
		6–10	Open 1
		11–105	Shutter
		106–110	Open 2
		111–179	Pulse
		180–185	Open 3
		186–253	Random
		254–255	Open 4
4	Control		Same as CH 16 in the mode “Stand-16” (p. 10)
5	reserved	0–255	Reserve
6	Red	0–255	
7	Green	0–255	
8	Blue	0–255	
9	White	0–255	

Mode Strobe-11

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

Channel functions at a glance



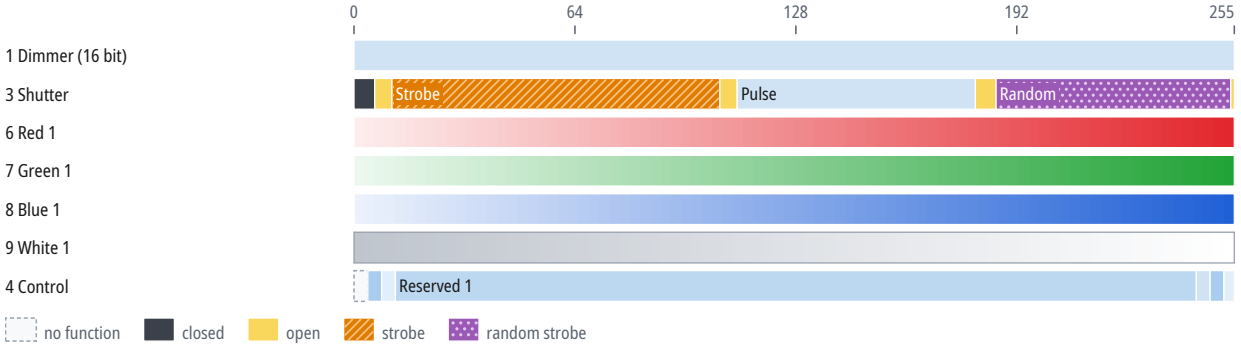
CH	Function	DMX	Description
1	Dimmer		Same as CH 1 in the mode “Stand-16” (p. 8)
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Strobe Duration	0–255	0–6.5 s
4	Strobe Speed	0–255	0–20 Hz
5	Strobe Effects	0–5	None
		6–42	Fade
		43–85	Fade out
		86–128	Fade in and out
		129–171	Random
		172–214	Pulse
		215–255	Always on
6	Red	0	Minm
		1–254	Minm ... Max
		255	Max
7	Green		Same as CH 5 in the mode “Stand-16” (p. 8)
8	Blue		Same as CH 6 in the mode “Stand-16” (p. 8)
9	White	0	Min
		1–254	Min ... Max
		255	Max
10	CTO		Same as CH 8 in the mode “Stand-16” (p. 9)
11	Control		Same as CH 16 in the mode “Stand-16” (p. 10)

Mode Pixels- 66

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 Shutter at 6–10 “Open” or 106–110 or 180–185 or 254–255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–255	
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Same as CH 3 in the mode “Stand-16” (p. 8)
4	Control		Same as CH 16 in the mode “Stand-16” (p. 10)
5	Undefined	0–255	
6	Red 1	0–255	
7	Green 1	0–255	
8	Blue 1	0–255	
9	White 1	0–255	

CH 6–65: 15 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 6–9); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	White	Cell	Red	Green	Blue	White
1	6	7	8	9	2	10	11	12	13
3	14	15	16	17	4	18	19	20	21
5	22	23	24	25	6	26	27	28	29
7	30	31	32	33	8	34	35	36	37
9	38	39	40	41	10	42	43	44	45
11	46	47	48	49	12	50	51	52	53
13	54	55	56	57	14	58	59	60	61
15	62	63	64	65					

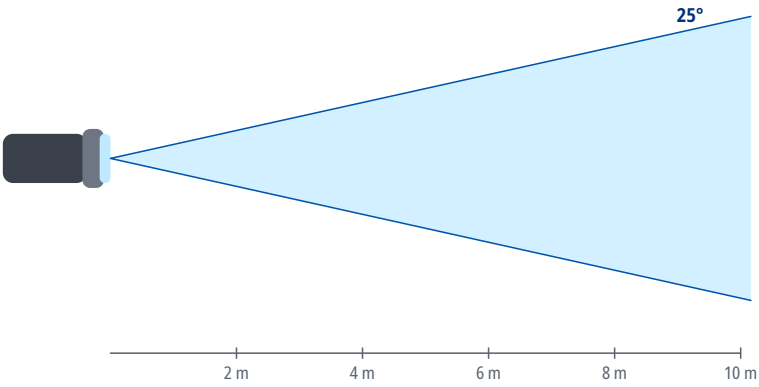
9 Technical specifications

Parameter	Value
Light source	discharge lamp
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–10000 K
Strobe frequency	0–20 Hz
Strobe flash duration	0–6.5 s

Spot diameter



Distance	Ø 25°
2 m	0.89 m
4 m	1.8 m
6 m	2.7 m
8 m	3.5 m
10 m	4.4 m
15 m	6.7 m

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

10 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.

11 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.

12 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.