DMX REFERENCE

ML-WASH LED 3725

WINE



Manufacturer	WINE
GDTF file	WINE_ML-WASH_LED_3725_170358.gdtf
GDTF revision	V_24ch · 2026-11-22
Generated	2026-11-24

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1 About this manual

This document describes the ML-WASH LED 3725 by WINE. It was compiled from the GDTF file WINE_ML-WASH_LED_3725_170358.gdtf from the GDTF-Share library.

File revision: “V_24ch”.

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 WINE; 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	10.6 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
24ch 1	24	21	1, 25, 49, 73, ...

No light? Check these channels

- 24ch 1: CH 7 Dimmer above 0; CH 8 Shutter at 240–255 “Shutter open”



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.

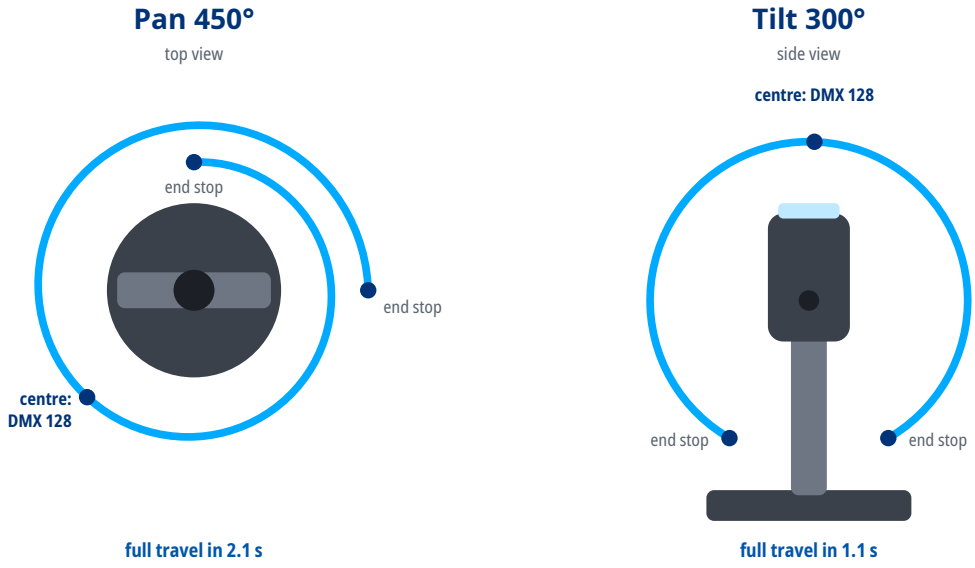
⚠ CAUTION

- 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.

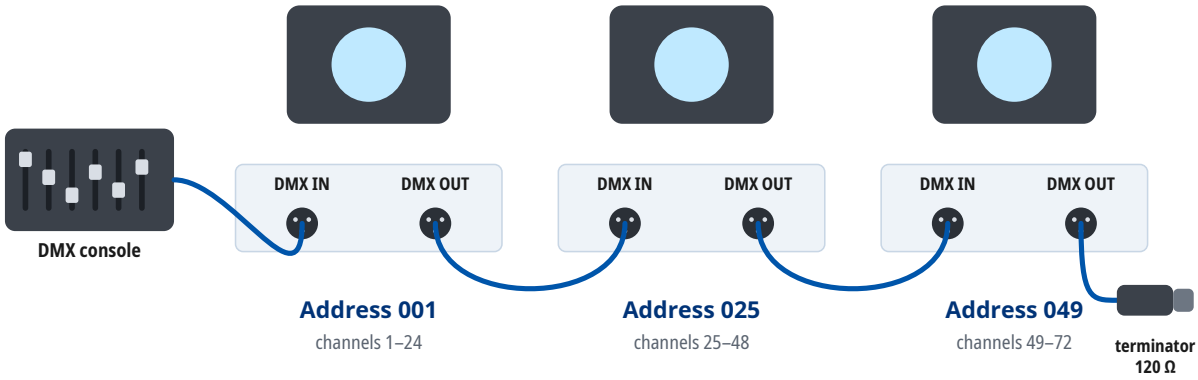
5 Installation

> ⚠ **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: 10.6 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 24ch 1: every unit occupies 24 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

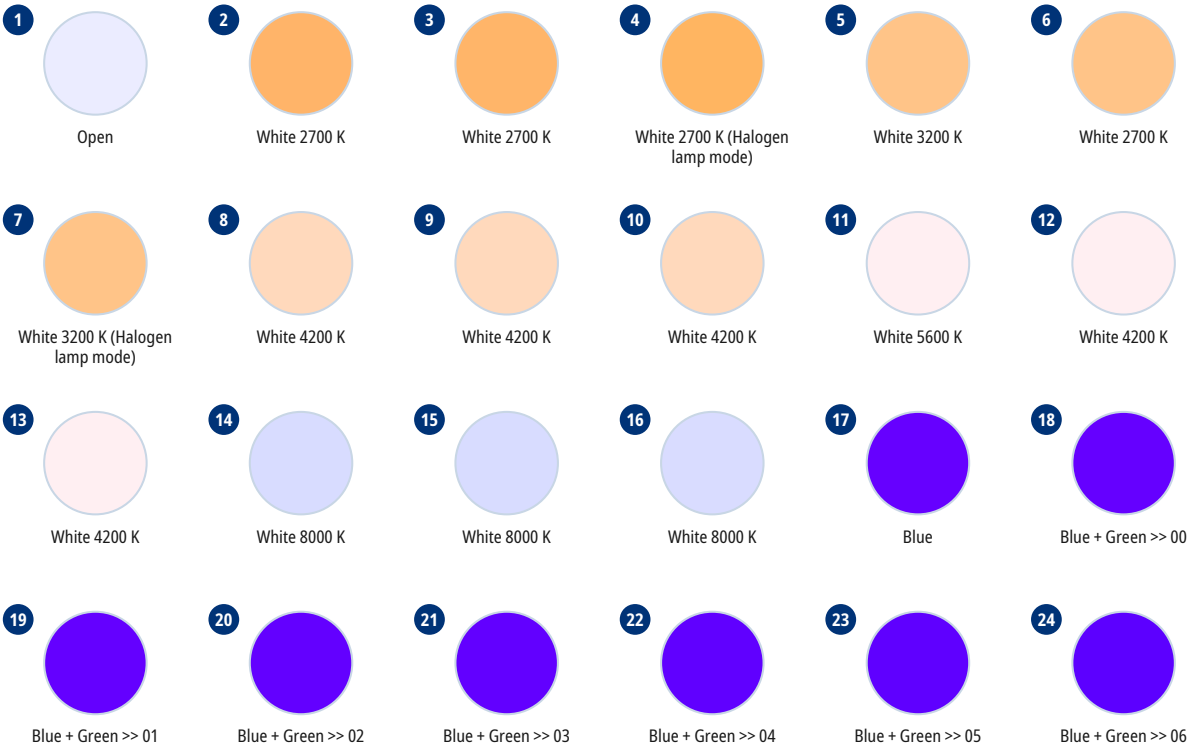
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “24ch 1”: 24.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 “24ch 1”, you can use, for example, the start addresses 1, 25, 49, 73.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

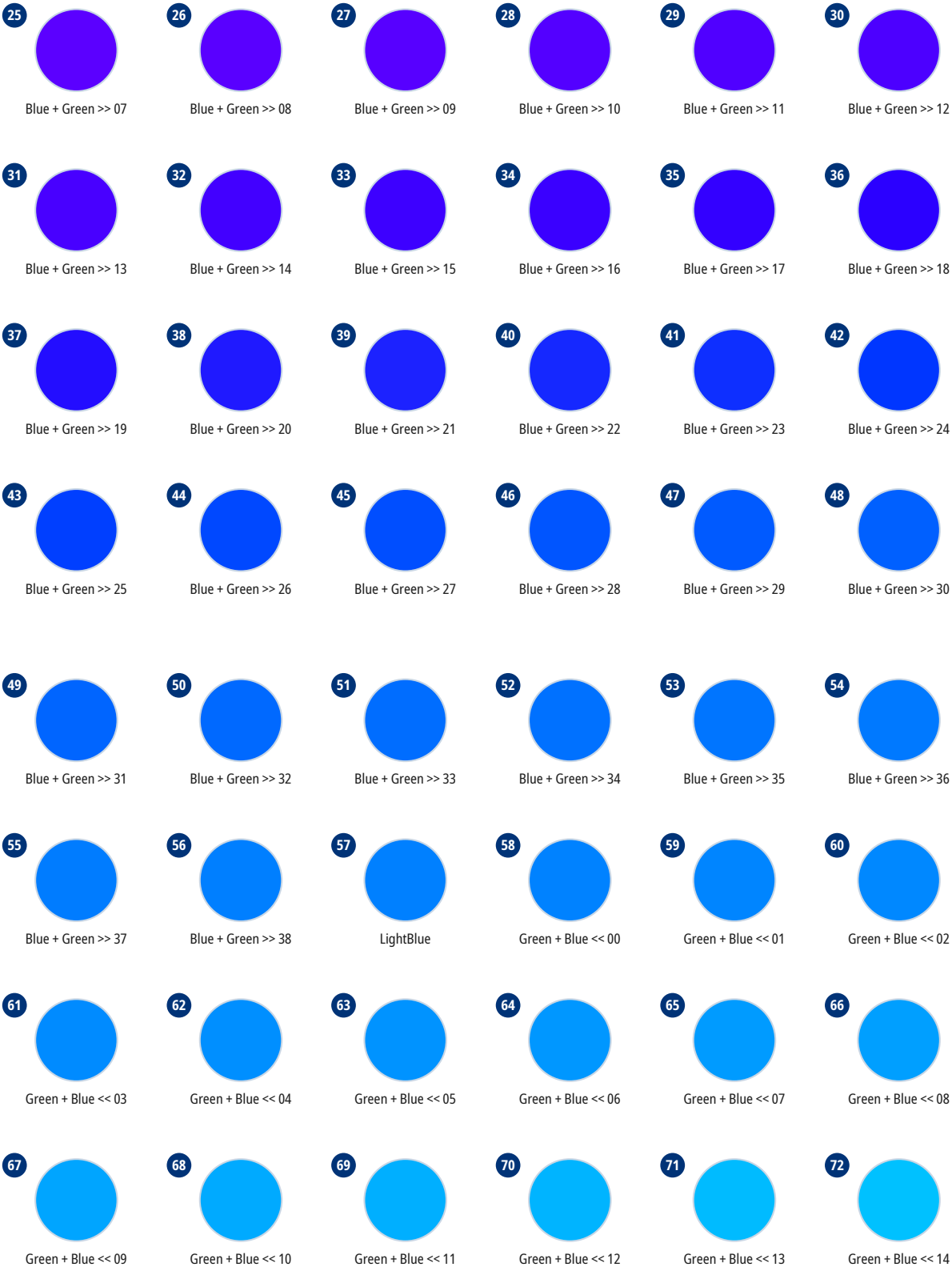
8 Functions at a glance

Functions in each DMX mode

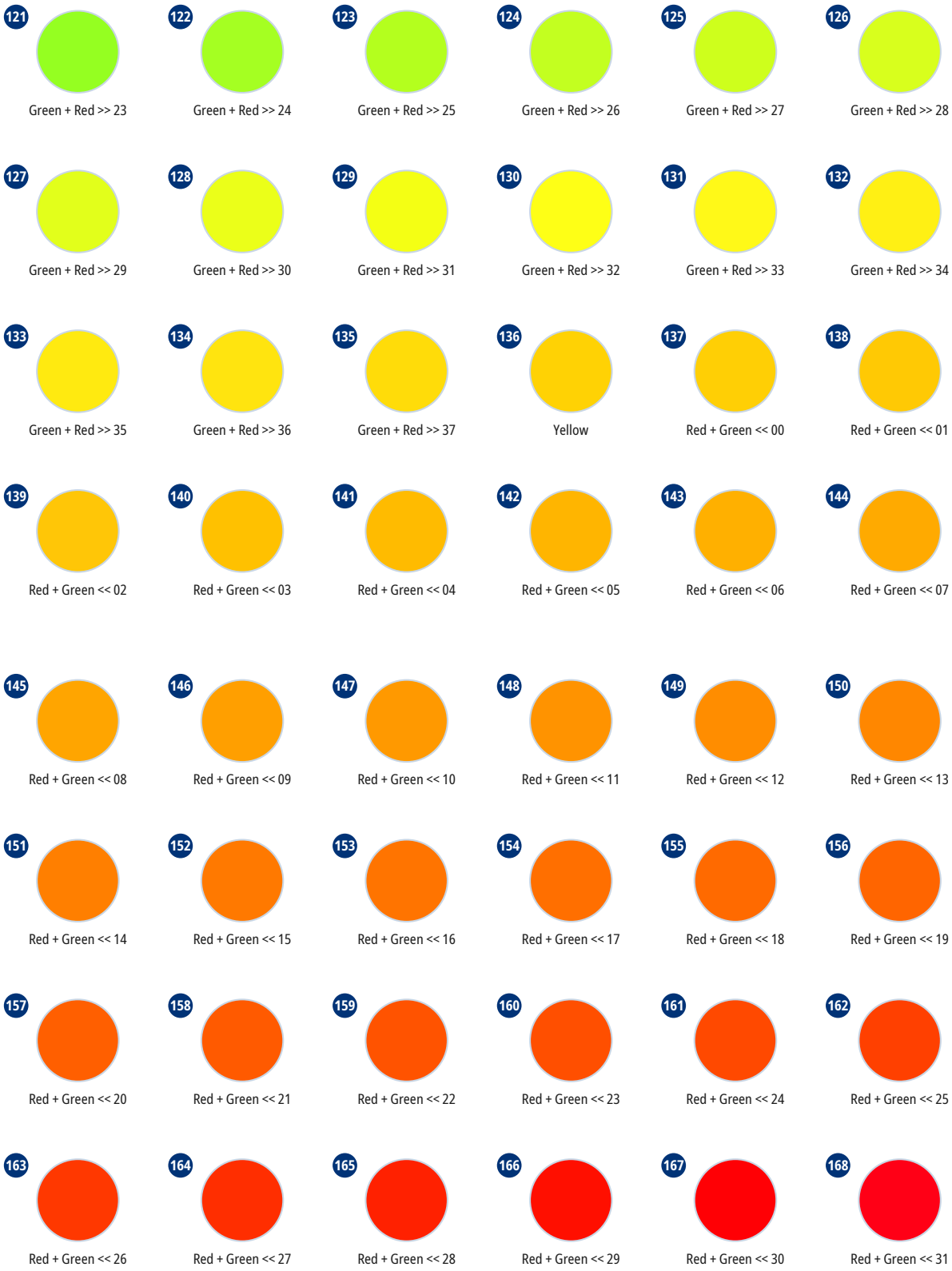
	24ch 1 24 channels
Pan / Tilt	1, 3
Dimmer	7
Shutter / strobe	8
Color mixing	9–12, 17–20
Color temperature	13
Color wheel	14
Zoom	6
Effects / macros	15, 16, 21, 22

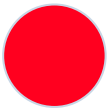
Color wheel

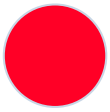


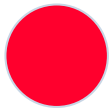

25
Blue + Green >> 07
26
Blue + Green >> 08
27
Blue + Green >> 09
28
Blue + Green >> 10
29
Blue + Green >> 11
30
Blue + Green >> 12
31
Blue + Green >> 13
32
Blue + Green >> 14
33
Blue + Green >> 15
34
Blue + Green >> 16
35
Blue + Green >> 17
36
Blue + Green >> 18
37
Blue + Green >> 19
38
Blue + Green >> 20
39
Blue + Green >> 21
40
Blue + Green >> 22
41
Blue + Green >> 23
42
Blue + Green >> 24
43
Blue + Green >> 25
44
Blue + Green >> 26
45
Blue + Green >> 27
46
Blue + Green >> 28
47
Blue + Green >> 29
48
Blue + Green >> 30
49
Blue + Green >> 31
50
Blue + Green >> 32
51
Blue + Green >> 33
52
Blue + Green >> 34
53
Blue + Green >> 35
54
Blue + Green >> 36
55
Blue + Green >> 37
56
Blue + Green >> 38
57
LightBlue
58
Green + Blue << 00
59
Green + Blue << 01
60
Green + Blue << 02
61
Green + Blue << 03
62
Green + Blue << 04
63
Green + Blue << 05
64
Green + Blue << 06
65
Green + Blue << 07
66
Green + Blue << 08
67
Green + Blue << 09
68
Green + Blue << 10
69
Green + Blue << 11
70
Green + Blue << 12
71
Green + Blue << 13
72
Green + Blue << 14

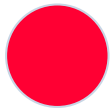

73
Green + Blue << 15
74
Green + Blue << 16
75
Green + Blue << 17
76
Green + Blue << 18
77
Green + Blue << 19
78
Green + Blue << 20
79
Green + Blue << 21
80
Green + Blue << 22
81
Green + Blue << 23
82
Green + Blue << 24
83
Green + Blue << 25
84
Green + Blue << 26
85
Green + Blue << 27
86
Green + Blue << 28
87
Green + Blue << 29
88
Green + Blue << 30
89
Green + Blue << 31
90
Green + Blue << 32
91
Green + Blue << 33
92
Green + Blue << 34
93
Green + Blue << 35
94
Green + Blue << 36
95
Green + Blue << 37
96
Green + Blue << 38
97
Green
98
Green + Red >> 00
99
Green + Red >> 01
100
Green + Red >> 02
101
Green + Red >> 03
102
Green + Red >> 04
103
Green + Red >> 05
104
Green + Red >> 06
105
Green + Red >> 07
106
Green + Red >> 08
107
Green + Red >> 09
108
Green + Red >> 10
109
Green + Red >> 11
110
Green + Red >> 12
111
Green + Red >> 13
112
Green + Red >> 14
113
Green + Red >> 15
114
Green + Red >> 16
115
Green + Red >> 17
116
Green + Red >> 18
117
Green + Red >> 19
118
Green + Red >> 20
119
Green + Red >> 21
120
Green + Red >> 22

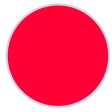

121
Green + Red >> 23
122
Green + Red >> 24
123
Green + Red >> 25
124
Green + Red >> 26
125
Green + Red >> 27
126
Green + Red >> 28
127
Green + Red >> 29
128
Green + Red >> 30
129
Green + Red >> 31
130
Green + Red >> 32
131
Green + Red >> 33
132
Green + Red >> 34
133
Green + Red >> 35
134
Green + Red >> 36
135
Green + Red >> 37
136
Yellow
137
Red + Green << 00
138
Red + Green << 01
139
Red + Green << 02
140
Red + Green << 03
141
Red + Green << 04
142
Red + Green << 05
143
Red + Green << 06
144
Red + Green << 07
145
Red + Green << 08
146
Red + Green << 09
147
Red + Green << 10
148
Red + Green << 11
149
Red + Green << 12
150
Red + Green << 13
151
Red + Green << 14
152
Red + Green << 15
153
Red + Green << 16
154
Red + Green << 17
155
Red + Green << 18
156
Red + Green << 19
157
Red + Green << 20
158
Red + Green << 21
159
Red + Green << 22
160
Red + Green << 23
161
Red + Green << 24
162
Red + Green << 25
163
Red + Green << 26
164
Red + Green << 27
165
Red + Green << 28
166
Red + Green << 29
167
Red + Green << 30
168
Red + Green << 31

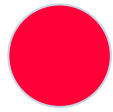
169 
Red + Green << 32

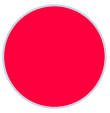
170 
Red + Green << 33

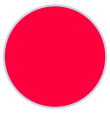
171 
Red + Green << 34

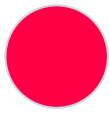
172 
Red + Green << 35

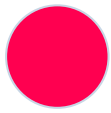
173 
Red + Green << 36

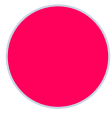
174 
Red + Green << 37

175 
Red + Green << 38

176 
Red

177 
Red + Blue >> 00

178 
Red + Blue >> 01

179 
Red + Blue >> 02

180 
Red + Blue >> 03

181 
Red + Blue >> 04

182 
Red + Blue >> 05

183 
Red + Blue >> 06

184 
Red + Blue >> 07

185 
Red + Blue >> 08

186 
Red + Blue >> 09

187 
Red + Blue >> 10

188 
Red + Blue >> 11

189 
Red + Blue >> 12

190 
Red + Blue >> 13

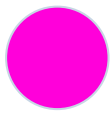
191 
Red + Blue >> 14

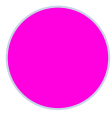
192 
Red + Blue >> 15

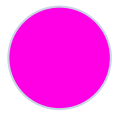
193 
Red + Blue >> 16

194 
Red + Blue >> 17

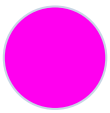
195 
Red + Blue >> 18

196 
Red + Blue >> 19

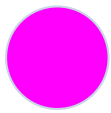
197 
Red + Blue >> 20

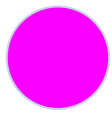
198 
Red + Blue >> 21

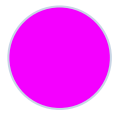
199 
Red + Blue >> 22

200 
Red + Blue >> 23

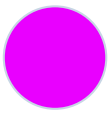
201 
Red + Blue >> 24

202 
Red + Blue >> 25

203 
Red + Blue >> 26

204 
Red + Blue >> 27

205 
Red + Blue >> 28

206 
Red + Blue >> 29

207 
Red + Blue >> 30

208 
Red + Blue >> 31

209
Red + Blue >> 32

210
Red + Blue >> 33

211
Red + Blue >> 34

212
Red + Blue >> 35

213
Red + Blue >> 36

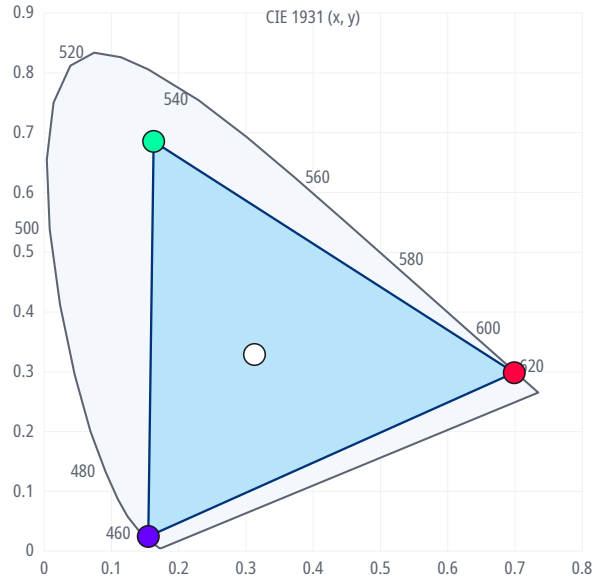
214
Red + Blue >> 37

215
Red + Blue >> 38

216
Magenta


217
Blue + Red << 00
218
Blue + Red << 01
219
Blue + Red << 02
220
Blue + Red << 03
221
Blue + Red << 04
222
Blue + Red << 05
223
Blue + Red << 06
224
Blue + Red << 07
225
Blue + Red << 08
226
Blue + Red << 09
227
Blue + Red << 10
228
Blue + Red << 11
229
Blue + Red << 12
230
Blue + Red << 13
231
Blue + Red << 14
232
Blue + Red << 15
233
Blue + Red << 16
234
Blue + Red << 17
235
Blue + Red << 18
236
Blue + Red << 19
237
Blue + Red << 20
238
Blue + Red << 21
239
Blue + Red << 22
240
Blue + Red << 23
241
Blue + Red << 24
242
Blue + Red << 25
243
Blue + Red << 26
244
Blue + Red << 27
245
Blue + Red << 28
246
Blue + Red << 29
247
Blue + Red << 30
248
Blue
249
Black

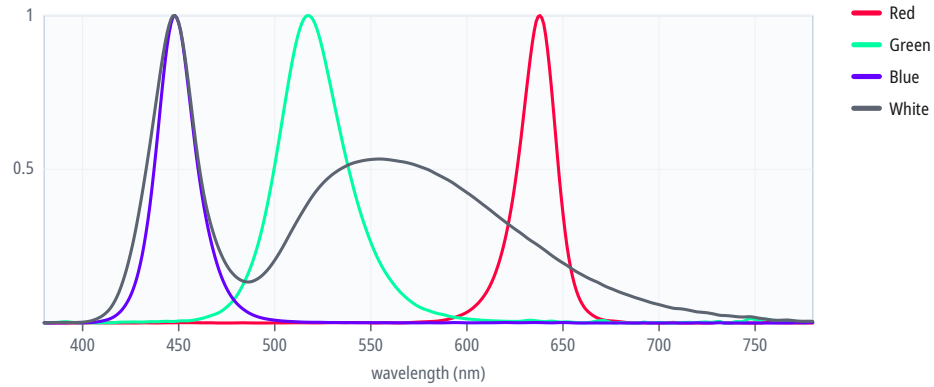
LED colors and the colors they mix



LED	x	y	nm
Red	0.699	0.299	626
Green	0.163	0.685	522
Blue	0.155	0.025	453
White	0.313	0.329	

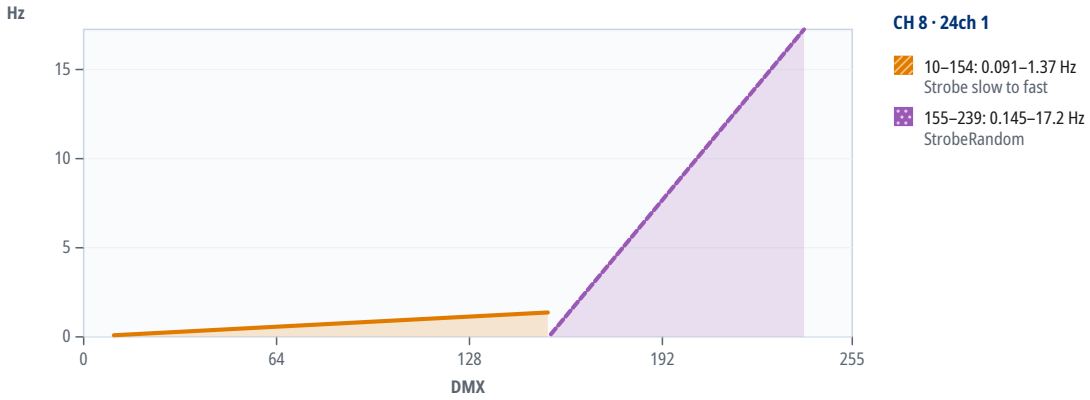
The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

Spectra of the light sources

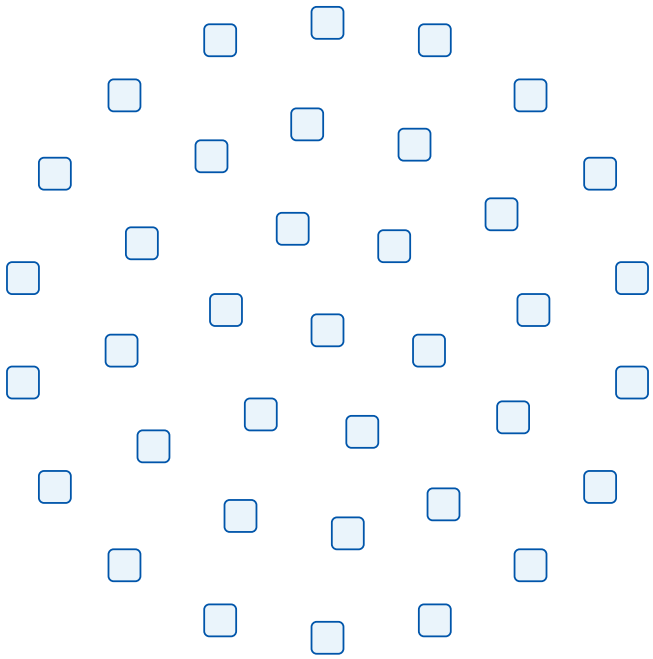


Relative spectrum of each light source as the GDTF file states it; each curve is scaled to its own maximum.

Strobe rate



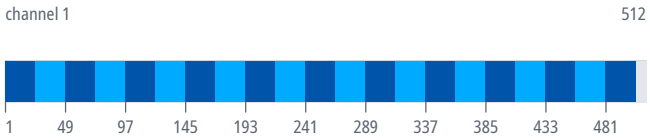
Cells (pixels)



Cells where the GDTF file places them (seen from above), 37 in all in the mode “24ch 1”.

9 DMX channels

Units in one DMX universe



24ch 1
24 channels

up to 21 units
last address 481

Start addresses of 20 units in the mode “24ch 1”

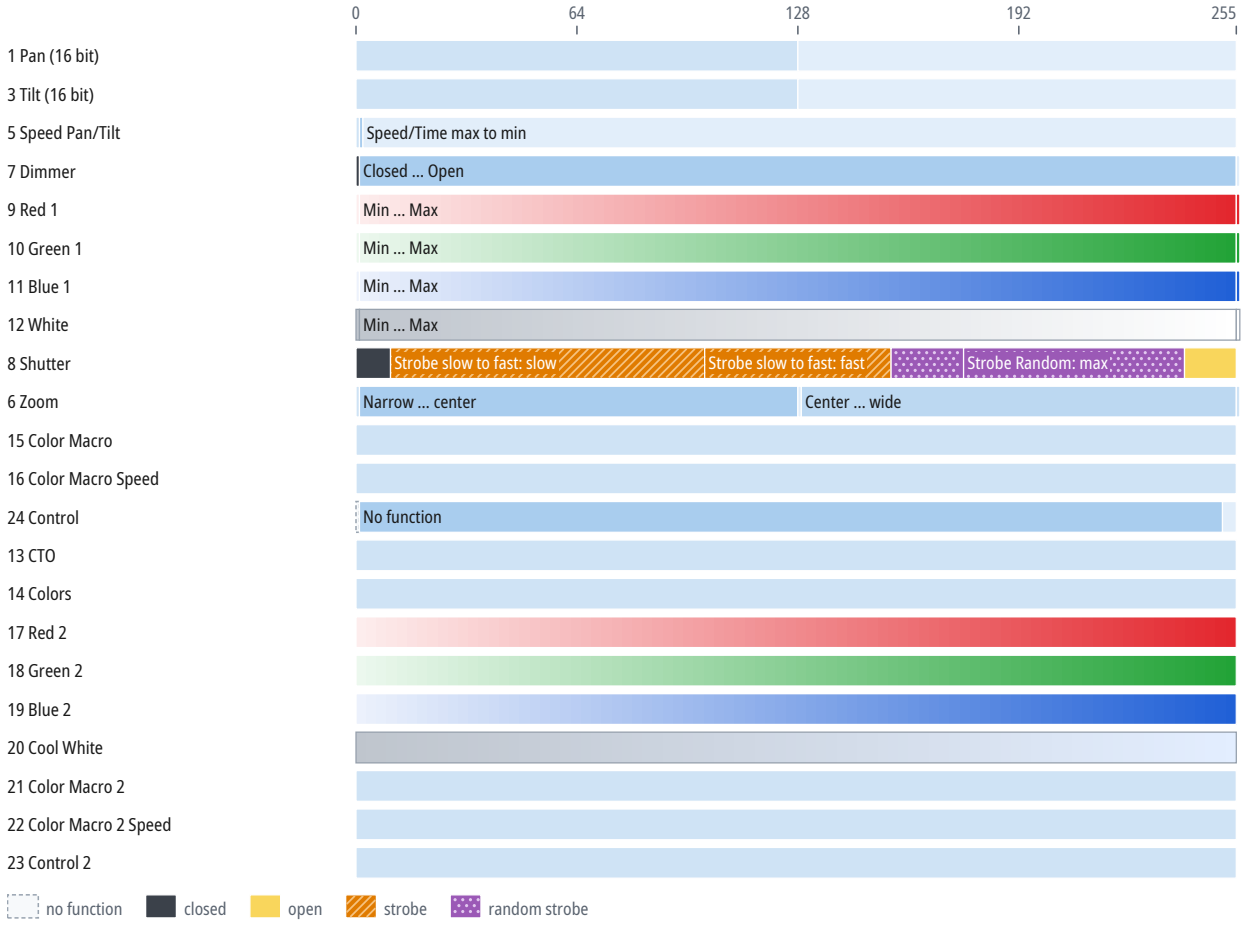
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	121	11	241	16	361
2	25	7	145	12	265	17	385
3	49	8	169	13	289	18	409
4	73	9	193	14	313	19	433
5	97	10	217	15	337	20	457

Mode 24ch 1

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 7 Dimmer above 0; CH 8 Shutter at 240–255 “Shutter open”. The GDTF file gives these values for a console's Highlight function: CH 7 Dimmer 255, CH 8 Shutter 255, CH 9 Red 1 255, CH 10 Green 1 255, CH 11 Blue 1 255, CH 12 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–128	Pan
		128	Center
		128–255	Pan
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–128	Tilt
		128	Center
		128–255	Tilt
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0	Standard mode
		1	Max speed time
		2–255	Speed/Time max to min
6	Zoom	0	Narrow

CH	Function	DMX	Description
6	Zoom (continued)	1–127	Narrow ... center
		128	Center
		129–254	Center ... wide
		255	Wide
7	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
8	Shutter	0–9	Shutter closed
		10–100	Strobe slow to fast: slow
		101–154	Strobe slow to fast: fast
		155–175	Strobe Random: min (0.14–17.2 Hz)
		176–239	Strobe Random: max (0.14–17.2 Hz)
		240–255	Shutter open
9	Red 1	0	Min
		1–254	Min ... Max
		255	Max
10	Green 1	0	Min
		1–254	Min ... Max
		255	Max
11	Blue 1	0	Min
		1–254	Min ... Max
		255	Max
12	White	0	Min
		1–254	Min ... Max
		255	Max
13	CTO	0–255	
14	Colors	0–255	
15	Color Macro	0–255	
16	Color Macro Speed	0–255	
17	Red 2	0–255	
18	Green 2	0–255	
19	Blue 2	0–255	
20	Cool White	0–255	
21	Color Macro 2	0–255	
22	Color Macro 2 Speed	0–255	
23	Control 2	0–255	
24	Control	0	No function
		1–250	No function
		251–255	Total reset

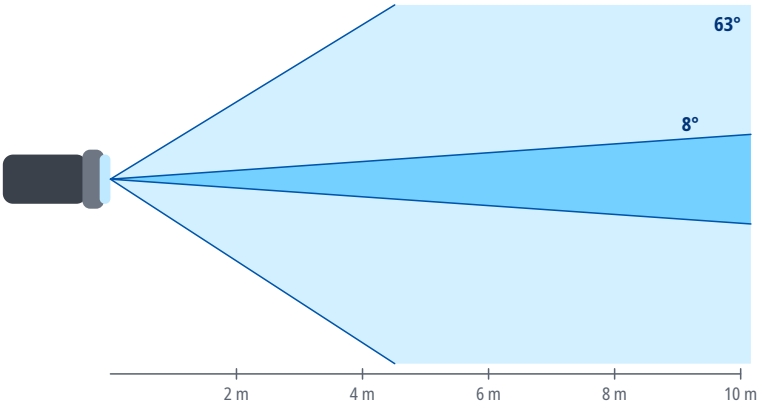
10 Technical specifications

Parameter	Value
Light	
Light source	LED
Optics	
Zoom	8–63°
Movement	
Pan	450°
Tilt	300°
Control	
DMX connection	5-pin XLR IN/OUT, 3-pin XLR IN/OUT
RJ45 connectors	RJ45
Dimensions and construction	
Weight	10.6 kg
Operating environment	
Operating temperature	0 to 45 °C

Speeds and ranges

Parameter	Value
Strobe frequency	0.091–1.37 Hz

Spot diameter



Distance	Ø 8°	Ø 63°
2 m	0.28 m	2.5 m
4 m	0.56 m	4.9 m
6 m	0.84 m	7.4 m
8 m	1.1 m	9.8 m
10 m	1.4 m	12.3 m
15 m	2.1 m	18.4 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.