DMX REFERENCE

ZYAVA

Portman Lights



Manufacturer	Portman Lights
GDTF file	Portman_Lights_ZYAVA_170057.gdtf
GDTF revision	1_24 · 2026-11-19
Generated	2026-11-24

Contents

1 About this manual 2
2 Quick reference 3
3 Safety instructions 4
4 Product description 4
5 Installation 5
6 Connections 5
7 Operation 6
8 Functions at a glance 6
9 DMX channels 12
Mode Super Simple 13
Mode Simple 14
Mode Standard 21
Mode Standard Fine 24
Mode Pixel 27
Mode Pixel Fine 30
Mode CCT 34
Mode CCT Fine 37
10 Technical specifications 40
11 Maintenance and cleaning 40
12 Troubleshooting 41
13 Disposal 41

1 About this manual

This document describes the ZYAVA by Portman Lights. It was compiled from the GDTF file Portman_Lights_ZYAVA_170057.gdtf from the GDTF-Share library.

File revision: “1_24”.

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 Portman Lights; 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	7.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Super Simple	12	42	1, 13, 25, 37, ...
Simple	17	30	1, 18, 35, 52, ...
Standard	33	15	1, 34, 67, 100, ...
Standard Fine	59	8	1, 60, 119, 178, ...
Pixel	52	9	1, 53, 105, 157, ...
Pixel Fine	97	5	1, 98, 195, 292, ...
CCT	34	15	1, 35, 69, 103, ...
CCT Fine	60	8	1, 61, 121, 181, ...

No light? Check these channels

- Super Simple: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0; CH 11 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 12 Shutter 2 at 0–9 “Open” or 122–129 or 246–255
- Simple: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0; CH 11 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 12 Shutter 2 at 0–9 “Open” or 122–129 or 246–255
- Standard: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0; CH 27 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 28 Shutter 2 at 0–9 “Open” or 122–129 or 246–255
- Standard Fine: CH 1 Dimmer 1 above 0; CH 3 Dimmer 2 above 0; CH 5 Dimmer 3 above 0; CH 7 Dimmer 4 above 0; CH 9 Dimmer 5 above 0; CH 11 Dimmer 6 above 0; CH 53 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 54 Shutter 2 at 0–9 “Open” or 122–129 or 246–255
- Pixel: CH 1 Dimmer 1 above 0; CH 10 Dimmer 2 above 0; CH 19 Dimmer 3 above 0; CH 28 Dimmer 4 above 0; CH 37 Dimmer 5 above 0; CH 46 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 47 Shutter 2 at 0–9 “Open” or 122–129 or 246–255
- Pixel Fine: CH 1 Dimmer 1 above 0; CH 19 Dimmer 2 above 0; CH 37 Dimmer 3 above 0; CH 55 Dimmer 4 above 0; CH 73 Dimmer 5 above 0; CH 91 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 92 Shutter 2 at 0–9 “Open” or 122–129 or 246–255
- CCT: CH 2 Dimmer 1 above 0; CH 3 Dimmer 2 above 0; CH 4 Dimmer 3 above 0; CH 5 Dimmer 4 above 0; CH 6 Dimmer 5 above 0; CH 7 Dimmer 6 above 0; CH 28 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 29 Shutter 2 at 0–9 “Open” or 122–129 or 246–255
- CCT Fine: CH 2 Dimmer 1 above 0; CH 4 Dimmer 2 above 0; CH 6 Dimmer 3 above 0; CH 8 Dimmer 4 above 0; CH 10 Dimmer 5 above 0; CH 12 Dimmer 6 above 0; CH 54 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 55 Shutter 2 at 0–9 “Open” or 122–129 or 246–255


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.

4 Product description

Description in the GDTF file

“A decorative blinder engineered not merely to illuminate, but to cast an inescapable spell over every stage, venue, and broadcast camera.”

5 Installation

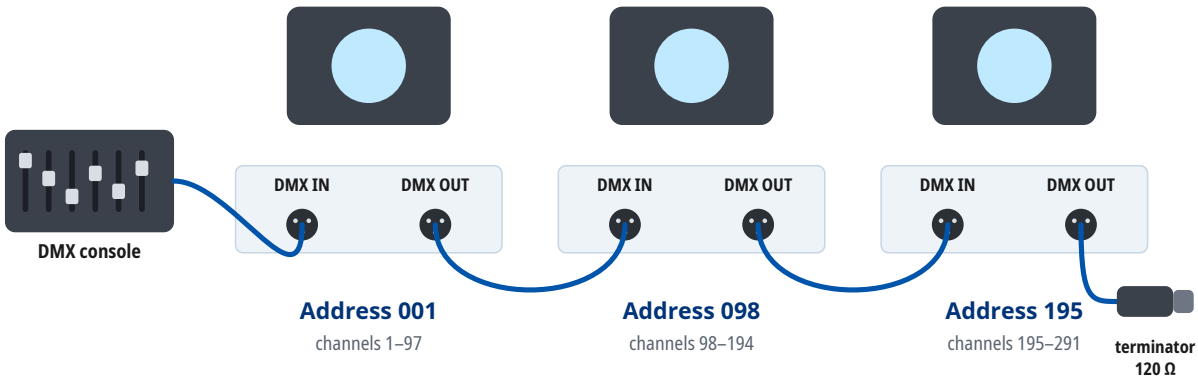
⚠ WARNING

- 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: 7.5 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 Pixel Fine: every unit occupies 97 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 “Pixel Fine”: 97.
- 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 “Pixel Fine”, you can use, for example, the start addresses 1, 98, 195, 292.
- 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

	Super Simple 12 channels	Simple 17 channels	Standard 33 channels	Standard Fine 59 channels	Pixel 52 channels	Pixel Fine 97 channels	CCT 34 channels	CCT Fine 60 channels
Dimmer	14 channels (1–73)	14 channels (1–73)	14 channels (1–73)	14 channels (1–73)	13 channels (1–73)	13 channels (1–73)	14 channels (2–74)	14 channels (2–74)
Dimmer resolution	8 bit	8 bit	8 bit	16 bit	8 bit	16 bit	8 bit	16 bit
Shutter / strobe	**11, 12**	**11, 12**	**27, 28**	**53, 54**	**46, 47**	**91, 92**	**28, 29**	**54, 55**
Color mixing	**7–10**	**7–10 ***	**7–26 ***	**20× (13–51) ***	61 channels (1–86) *	61 channels (1–89) *	**8–27 ***	**20× (14–52) ***
Color temperature							**1**	**1**
Color wheel		**13**	**29**	**55**	**48**	**93**	**30**	**56**
Effects / macros		**14–16**	**30–32**	**56–58**	**49–51**	**94–96**	**31–33**	**57–59**
Pixel control			✓	✓			✓	✓

* The function works only when another channel switches it on; see the DMX table.

Color wheel 1



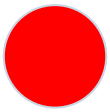
Open

White 2800-5000 K
DMX 10–40

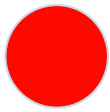
Color wheel 2

1 Open
DMX 0–10

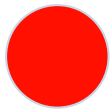
2 040 R255 G0 B0
DMX 40



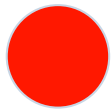
3 041 R255 G8 B0
DMX 41



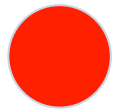
4 042 R255 G16 B0
DMX 42



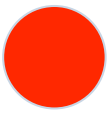
5 043 R255 G24 B0
DMX 43



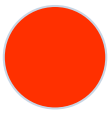
6 044 R255 G32 B0
DMX 44



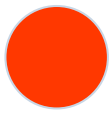
7 045 R255 G40 B0
DMX 45



8 046 R255 G48 B0
DMX 46



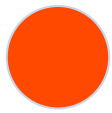
9 047 R255 G56 B0
DMX 47



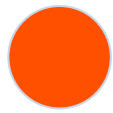
10 048 R255 G64 B0
DMX 48



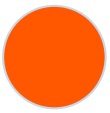
11 049 R255 G72 B0
DMX 49



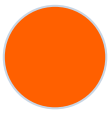
12 050 R255 G80 B0
DMX 50



13 051 R255 G88 B0
DMX 51



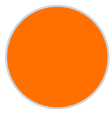
14 052 R255 G96 B0
DMX 52



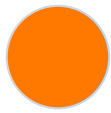
15 053 R255 G104 B0
DMX 53



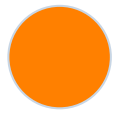
16 054 R255 G112 B0
DMX 54



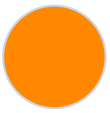
17 055 R255 G120 B0
DMX 55



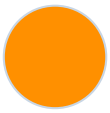
18 056 R255 G128 B0
DMX 56



19 057 R255 G136 B0
DMX 57



20 058 R255 G144 B0
DMX 58



21 059 R255 G152 B0
DMX 59



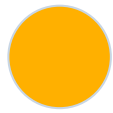
22 060 R255 G160 B0
DMX 60



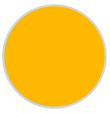
23 061 R255 G168 B0
DMX 61



24 062 R255 G176 B0
DMX 62



25 063 R255 G184 B0
DMX 63



26 064 R255 G192 B0
DMX 64



27 065 R255 G200 B0
DMX 65



28 066 R255 G208 B0
DMX 66



29 067 R255 G216 B0
DMX 67

30 068 R255 G224 B0
DMX 68

31 069 R255 G232 B0
DMX 69

32 070 R255 G240 B0
DMX 70

33 071 R255 G248 B0
DMX 71

34 072 R255 G255 B0
DMX 72

35 073 R247 G255 B0
DMX 73

36 074 R239 G255 B0
DMX 74

37 075 R231 G255 B0
DMX 75

38 076 R223 G255 B0
DMX 76

39 077 R215 G255 B0
DMX 77

40 078 R207 G255 B0
DMX 78

41 079 R199 G255 B0
DMX 79

42 080 R191 G255 B0
DMX 80

43 081 R183 G255 B0
DMX 81

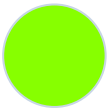
44 082 R175 G255 B0
DMX 82

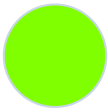
45 083 R167 G255 B0
DMX 83

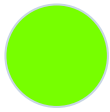
46 084 R159 G255 B0
DMX 84

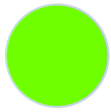
47 085 R151 G255 B0
DMX 85

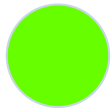
48 086 R143 G255 B0
DMX 86

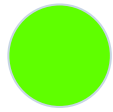
49 
087 R135 G255 B0
DMX 87

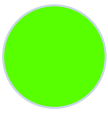
50 
088 R127 G255 B0
DMX 88

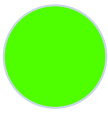
51 
089 R119 G255 B0
DMX 89

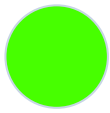
52 
090 R111 G255 B0
DMX 90

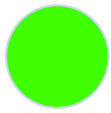
53 
091 R103 G255 B0
DMX 91

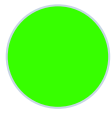
54 
092 R95 G255 B0
DMX 92

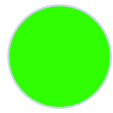
55 
093 R87 G255 B0
DMX 93

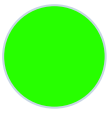
56 
094 R79 G255 B0
DMX 94

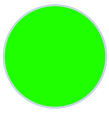
57 
095 R71 G255 B0
DMX 95

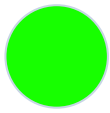
58 
096 R63 G255 B0
DMX 96

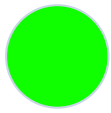
59 
097 R55 G255 B0
DMX 97

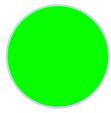
60 
098 R47 G255 B0
DMX 98

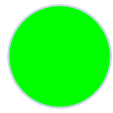
61 
099 R39 G255 B0
DMX 99

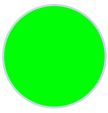
62 
100 R31 G255 B0
DMX 100

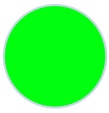
63 
101 R23 G255 B0
DMX 101

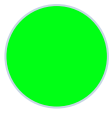
64 
102 R15 G255 B0
DMX 102

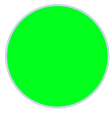
65 
103 R7 G255 B0
DMX 103

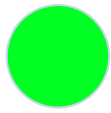
66 
104 R0 G255 B0
DMX 104

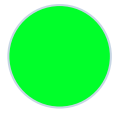
67 
105 R0 G255 B7
DMX 105

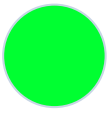
68 
106 R0 G255 B14
DMX 106

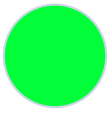
69 
107 R0 G255 B21
DMX 107

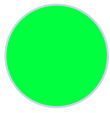
70 
108 R0 G255 B28
DMX 108

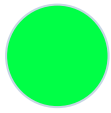
71 
109 R0 G255 B35
DMX 109

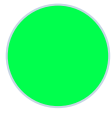
72 
110 R0 G255 B42
DMX 110

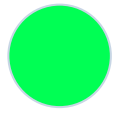
73 
111 R0 G255 B49
DMX 111

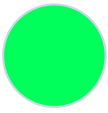
74 
112 R0 G255 B56
DMX 112

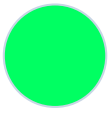
75 
113 R0 G255 B63
DMX 113

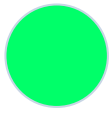
76 
114 R0 G255 B70
DMX 114

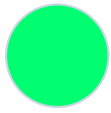
77 
115 R0 G255 B77
DMX 115

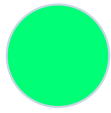
78 
116 R0 G255 B84
DMX 116

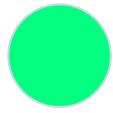
79 
117 R0 G255 B91
DMX 117

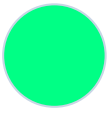
80 
118 R0 G255 B98
DMX 118

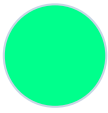
81 
119 R0 G255 B105
DMX 119

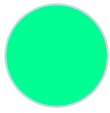
82 
120 R0 G255 B112
DMX 120

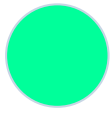
83 
121 R0 G255 B119
DMX 121

84 
122 R0 G255 B126
DMX 122

85 
123 R0 G255 B133
DMX 123

86 
124 R0 G255 B140
DMX 124

87 
125 R0 G255 B147
DMX 125

88 
126 R0 G255 B154
DMX 126

89
127 R0 G255 B161
DMX 127

90
128 R0 G255 B168
DMX 128

91
129 R0 G255 B175
DMX 129

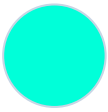
92
130 R0 G255 B182
DMX 130

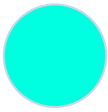
93
131 R0 G255 B189
DMX 131

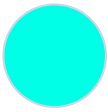
94
132 R0 G255 B196
DMX 132

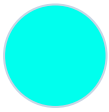
95
133 R0 G255 B203
DMX 133

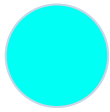
96
134 R0 G255 B210
DMX 134

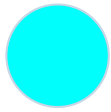
97 
135 R0 G255 B217
DMX 135

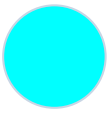
98 
136 R0 G255 B224
DMX 136

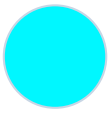
99 
137 R0 G255 B231
DMX 137

100 
138 R0 G255 B238
DMX 138

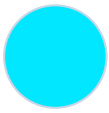
101 
139 R0 G255 B245
DMX 139

102 
140 R0 G255 B252
DMX 140

103 
141 R0 G255 B255
DMX 141

104 
142 R0 G247 B255
DMX 142

105 
143 R0 G239 B255
DMX 143

106 
144 R0 G231 B255
DMX 144

107 
145 R0 G223 B255
DMX 145

108 
146 R0 G215 B255
DMX 146

109 
147 R0 G207 B255
DMX 147

110 
148 R0 G199 B255
DMX 148

111 
149 R0 G191 B255
DMX 149

112 
150 R0 G183 B255
DMX 150

113 
151 R0 G175 B255
DMX 151

114 
152 R0 G167 B255
DMX 152

115 
153 R0 G159 B255
DMX 153

116 
154 R0 G151 B255
DMX 154

117 
155 R0 G143 B255
DMX 155

118 
156 R0 G135 B255
DMX 156

119 
157 R0 G127 B255
DMX 157

120 
158 R0 G119 B255
DMX 158

121 
159 R0 G111 B255
DMX 159

122 
160 R0 G103 B255
DMX 160

123 
161 R0 G95 B255
DMX 161

124 
162 R0 G87 B255
DMX 162

125 
163 R0 G79 B255
DMX 163

126 
164 R0 G71 B255
DMX 164

127 
165 R0 G63 B255
DMX 165

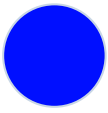
128 
166 R0 G55 B255
DMX 166

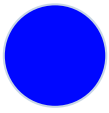
129 
167 R0 G47 B255
DMX 167

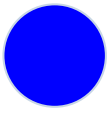
130 
168 R0 G39 B255
DMX 168

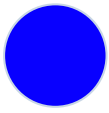
131 
169 R0 G31 B255
DMX 169

132 
170 R0 G23 B255
DMX 170

133 
171 R0 G15 B255
DMX 171

134 
172 R0 G7 B255
DMX 172

135 
173 R0 G0 B255
DMX 173

136 
174 R8 G0 B255
DMX 174

137
175 R16 G0 B255
DMX 175

138
176 R24 G0 B255
DMX 176

139
177 R32 G0 B255
DMX 177

140
178 R40 G0 B255
DMX 178

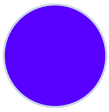
141
179 R48 G0 B255
DMX 179

142
180 R56 G0 B255
DMX 180

143
181 R64 G0 B255
DMX 181

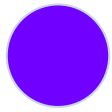
144
182 R72 G0 B255
DMX 182

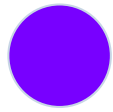
145 
183 R80 G0 B255
DMX 183

146 
184 R88 G0 B255
DMX 184

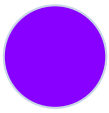
147 
185 R96 G0 B255
DMX 185

148 
186 R104 G0 B255
DMX 186

149 
187 R112 G0 B255
DMX 187

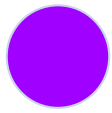
150 
188 R120 G0 B255
DMX 188

151 
189 R128 G0 B255
DMX 189

152 
190 R136 G0 B255
DMX 190

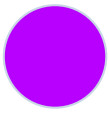
153 
191 R144 G0 B255
DMX 191

154 
192 R152 G0 B255
DMX 192

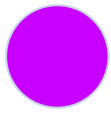
155 
193 R160 G0 B255
DMX 193

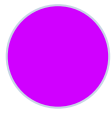
156 
194 R168 G0 B255
DMX 194

157 
195 R176 G0 B255
DMX 195

158 
196 R184 G0 B255
DMX 196

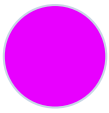
159 
197 R192 G0 B255
DMX 197

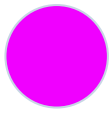
160 
198 R200 G0 B255
DMX 198

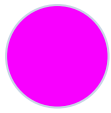
161 
199 R208 G0 B255
DMX 199

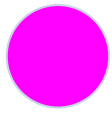
162 
200 R216 G0 B255
DMX 200

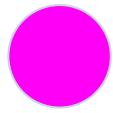
163 
201 R224 G0 B255
DMX 201

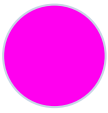
164 
202 R232 G0 B255
DMX 202

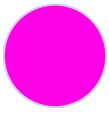
165 
203 R240 G0 B255
DMX 203

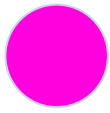
166 
204 R248 G0 B255
DMX 204

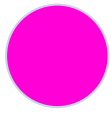
167 
205 R255 G0 B255
DMX 205

168 
206 R255 G0 B247
DMX 206

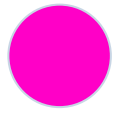
169 
207 R255 G0 B239
DMX 207

170 
208 R255 G0 B231
DMX 208

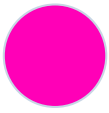
171 
209 R255 G0 B223
DMX 209

172 
210 R255 G0 B215
DMX 210

173 
211 R255 G0 B207
DMX 211

174 
212 R255 G0 B199
DMX 212

175 
213 R255 G0 B191
DMX 213

176 
214 R255 G0 B183
DMX 214

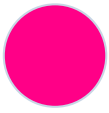
177 
215 R255 G0 B175
DMX 215

178 
216 R255 G0 B167
DMX 216

179 
217 R255 G0 B159
DMX 217

180 
218 R255 G0 B151
DMX 218

181 
219 R255 G0 B143
DMX 219

182 
220 R255 G0 B135
DMX 220

183 
221 R255 G0 B127
DMX 221

184 
222 R255 G0 B119
DMX 222

185
223 R255 G0 B111
DMX 223

186
224 R255 G0 B103
DMX 224

187
225 R255 G0 B95
DMX 225

188
226 R255 G0 B87
DMX 226

189
227 R255 G0 B79
DMX 227

190
228 R255 G0 B71
DMX 228

191
229 R255 G0 B63
DMX 229

192
230 R255 G0 B55
DMX 230

193 231 R255 G0 B47
DMX 231

194 232 R255 G0 B39
DMX 232

195 233 R255 G0 B31
DMX 233

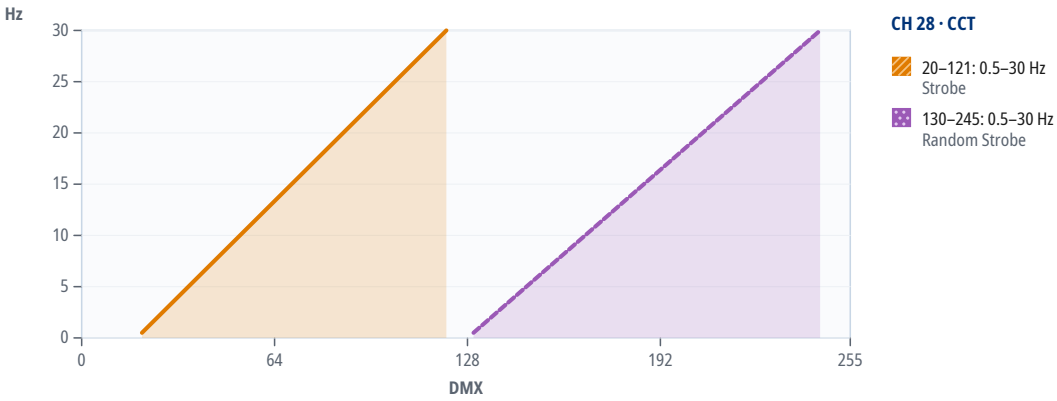
196 234 R255 G0 B23
DMX 234

197 235 R255 G0 B15
DMX 235

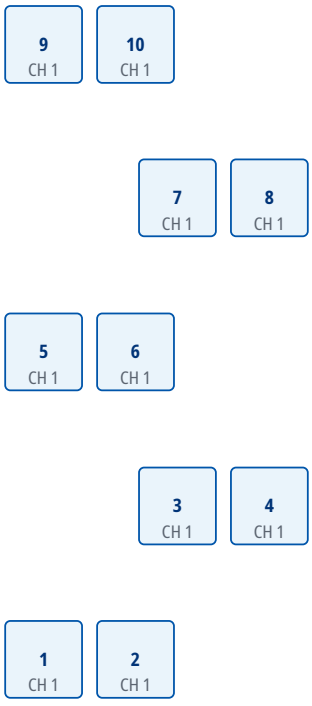
198 236 R255 G0 B7
DMX 236

199 237 R255 G0 B0
DMX 237–238

Strobe rate



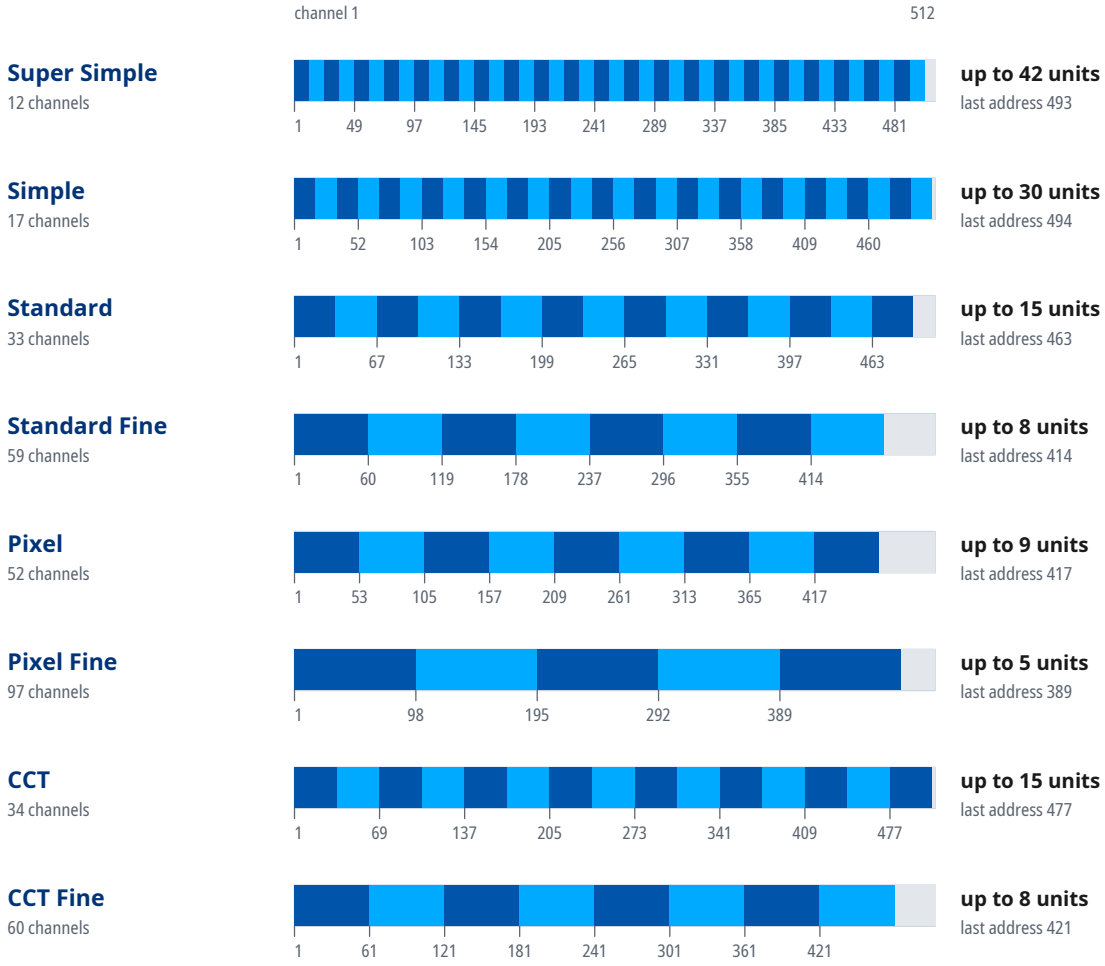
Cells (pixels)



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

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Pixel Fine”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U2 · 1	11	U3 · 1	16	U4 · 1
2	98	7	U2 · 98	12	U3 · 98	17	U4 · 98
3	195	8	U2 · 195	13	U3 · 195	18	U4 · 195
4	292	9	U2 · 292	14	U3 · 292	19	U4 · 292
5	389	10	U2 · 389	15	U3 · 389	20	U4 · 389

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.

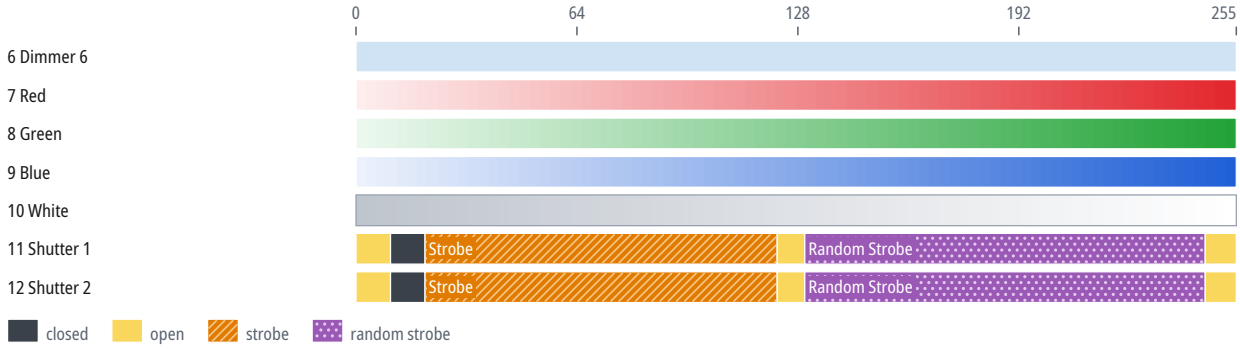
RDM personalities

Mode	Channels	RDM personality
Super Simple	12	1
Simple	17	2
Standard	33	3
Standard Fine	59	4
Pixel	52	5
Pixel Fine	97	6
CCT	34	7
CCT Fine	60	8

Mode Super Simple

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0; CH 11 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 12 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 3 Dimmer 3 255, CH 4 Dimmer 4 255, CH 5 Dimmer 5 255, CH 6 Dimmer 6 255, CH 7 Red 255, CH 8 Green 255, CH 9 Blue 255, CH 10 White 255, CH 11 Shutter 1 0, CH 12 Shutter 2 0.

Channel functions at a glance



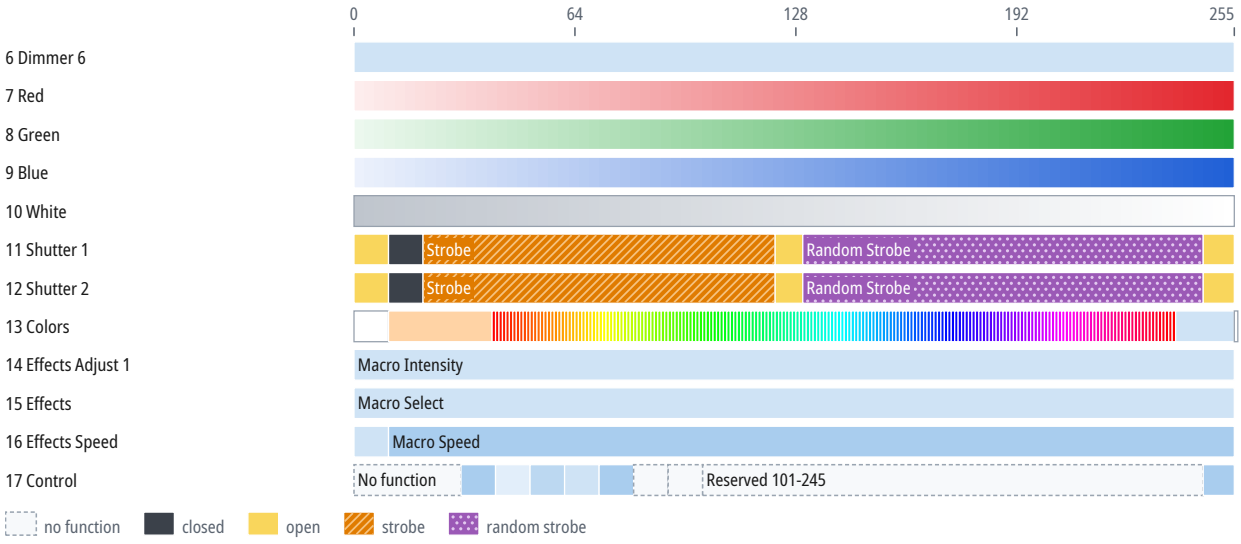
CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 2	0–255	
3	Dimmer 3	0–255	
4	Dimmer 4	0–255	
5	Dimmer 5	0–255	
6	Dimmer 6	0–255	
7	Red	0–255	
8	Green	0–255	
9	Blue	0–255	
10	White	0–255	
11	Shutter 1	0–9	Open
		10–19	Closed

CH	Function	DMX	Description
11	Shutter 1 (continued)	20–121	Strobe (0.5–30 Hz)
		122–129	Open 2
		130–245	Random Strobe (0.5–30 Hz)
		246–255	Open 3
12	Shutter 2	0–9	Open
		10–19	Closed
		20–121	Strobe (0.5–30 Hz)
		122–129	Open 2
		130–245	Random Strobe (0.5–30 Hz)
		246–255	Open 3

Mode Simple

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0; CH 11 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 12 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 3 Dimmer 3 255, CH 4 Dimmer 4 255, CH 5 Dimmer 5 255, CH 6 Dimmer 6 255, CH 7 Red 255, CH 8 Green 255, CH 9 Blue 255, CH 10 White 255, CH 11 Shutter 1 0, CH 12 Shutter 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 2	0–255	
3	Dimmer 3	0–255	
4	Dimmer 4	0–255	
5	Dimmer 5	0–255	
6	Dimmer 6	0–255	
7	Red		When CH 13 is 0–9:
		0–255	

CH	Function	DMX	Description
8	Green		When CH 13 is 0–9:
		0–255	
9	Blue		When CH 13 is 0–9:
		0–255	
10	White		When CH 13 is 0–9:
		0–255	
11	Shutter 1		Same as CH 11 in the mode “Super Simple” (p. 13)
12	Shutter 2		Same as CH 12 in the mode “Super Simple” (p. 14)
13	Colors	0–9	Open
		10–39	White 2800-5000 K
		40	040 R255 G0 B0
		41	041 R255 G8 B0
		42	042 R255 G16 B0
		43	043 R255 G24 B0
		44	044 R255 G32 B0
		45	045 R255 G40 B0
		46	046 R255 G48 B0
		47	047 R255 G56 B0
		48	048 R255 G64 B0
		49	049 R255 G72 B0
		50	050 R255 G80 B0
		51	051 R255 G88 B0
		52	052 R255 G96 B0
		53	053 R255 G104 B0
		54	054 R255 G112 B0
		55	055 R255 G120 B0
		56	056 R255 G128 B0
		57	057 R255 G136 B0
		58	058 R255 G144 B0
		59	059 R255 G152 B0
		60	060 R255 G160 B0
		61	061 R255 G168 B0
		62	062 R255 G176 B0
		63	063 R255 G184 B0
		64	064 R255 G192 B0
		65	065 R255 G200 B0
		66	066 R255 G208 B0
		67	067 R255 G216 B0
		68	068 R255 G224 B0
		69	069 R255 G232 B0
		70	070 R255 G240 B0

CH	Function	DMX	Description
13	Colors (continued)	71	071 R255 G248 B0
		72	072 R255 G255 B0
		73	073 R247 G255 B0
		74	074 R239 G255 B0
		75	075 R231 G255 B0
		76	076 R223 G255 B0
		77	077 R215 G255 B0
		78	078 R207 G255 B0
		79	079 R199 G255 B0
		80	080 R191 G255 B0
		81	081 R183 G255 B0
		82	082 R175 G255 B0
		83	083 R167 G255 B0
		84	084 R159 G255 B0
		85	085 R151 G255 B0
		86	086 R143 G255 B0
		87	087 R135 G255 B0
		88	088 R127 G255 B0
		89	089 R119 G255 B0
		90	090 R111 G255 B0
		91	091 R103 G255 B0
		92	092 R95 G255 B0
		93	093 R87 G255 B0
		94	094 R79 G255 B0
		95	095 R71 G255 B0
		96	096 R63 G255 B0
		97	097 R55 G255 B0
		98	098 R47 G255 B0
		99	099 R39 G255 B0
		100	100 R31 G255 B0
		101	101 R23 G255 B0
		102	102 R15 G255 B0
		103	103 R7 G255 B0
		104	104 R0 G255 B0
		105	105 R0 G255 B7
		106	106 R0 G255 B14
		107	107 R0 G255 B21
		108	108 R0 G255 B28
		109	109 R0 G255 B35
		110	110 R0 G255 B42
		111	111 R0 G255 B49

CH	Function	DMX	Description
13	Colors (continued)	112	112 R0 G255 B56
		113	113 R0 G255 B63
		114	114 R0 G255 B70
		115	115 R0 G255 B77
		116	116 R0 G255 B84
		117	117 R0 G255 B91
		118	118 R0 G255 B98
		119	119 R0 G255 B105
		120	120 R0 G255 B112
		121	121 R0 G255 B119
		122	122 R0 G255 B126
		123	123 R0 G255 B133
		124	124 R0 G255 B140
		125	125 R0 G255 B147
		126	126 R0 G255 B154
		127	127 R0 G255 B161
		128	128 R0 G255 B168
		129	129 R0 G255 B175
		130	130 R0 G255 B182
		131	131 R0 G255 B189
		132	132 R0 G255 B196
		133	133 R0 G255 B203
		134	134 R0 G255 B210
		135	135 R0 G255 B217
		136	136 R0 G255 B224
		137	137 R0 G255 B231
		138	138 R0 G255 B238
		139	139 R0 G255 B245
		140	140 R0 G255 B252
		141	141 R0 G255 B255
		142	142 R0 G247 B255
		143	143 R0 G239 B255
		144	144 R0 G231 B255
		145	145 R0 G223 B255
		146	146 R0 G215 B255
		147	147 R0 G207 B255
		148	148 R0 G199 B255
		149	149 R0 G191 B255
		150	150 R0 G183 B255
		151	151 R0 G175 B255
		152	152 R0 G167 B255

CH	Function	DMX	Description
13	Colors (continued)	153	153 R0 G159 B255
		154	154 R0 G151 B255
		155	155 R0 G143 B255
		156	156 R0 G135 B255
		157	157 R0 G127 B255
		158	158 R0 G119 B255
		159	159 R0 G111 B255
		160	160 R0 G103 B255
		161	161 R0 G95 B255
		162	162 R0 G87 B255
		163	163 R0 G79 B255
		164	164 R0 G71 B255
		165	165 R0 G63 B255
		166	166 R0 G55 B255
		167	167 R0 G47 B255
		168	168 R0 G39 B255
		169	169 R0 G31 B255
		170	170 R0 G23 B255
		171	171 R0 G15 B255
		172	172 R0 G7 B255
		173	173 R0 G0 B255
		174	174 R8 G0 B255
		175	175 R16 G0 B255
		176	176 R24 G0 B255
		177	177 R32 G0 B255
		178	178 R40 G0 B255
		179	179 R48 G0 B255
		180	180 R56 G0 B255
		181	181 R64 G0 B255
		182	182 R72 G0 B255
		183	183 R80 G0 B255
		184	184 R88 G0 B255
		185	185 R96 G0 B255
		186	186 R104 G0 B255
		187	187 R112 G0 B255
		188	188 R120 G0 B255
		189	189 R128 G0 B255
		190	190 R136 G0 B255
		191	191 R144 G0 B255
		192	192 R152 G0 B255
		193	193 R160 G0 B255
		194	194 R168 G0 B255

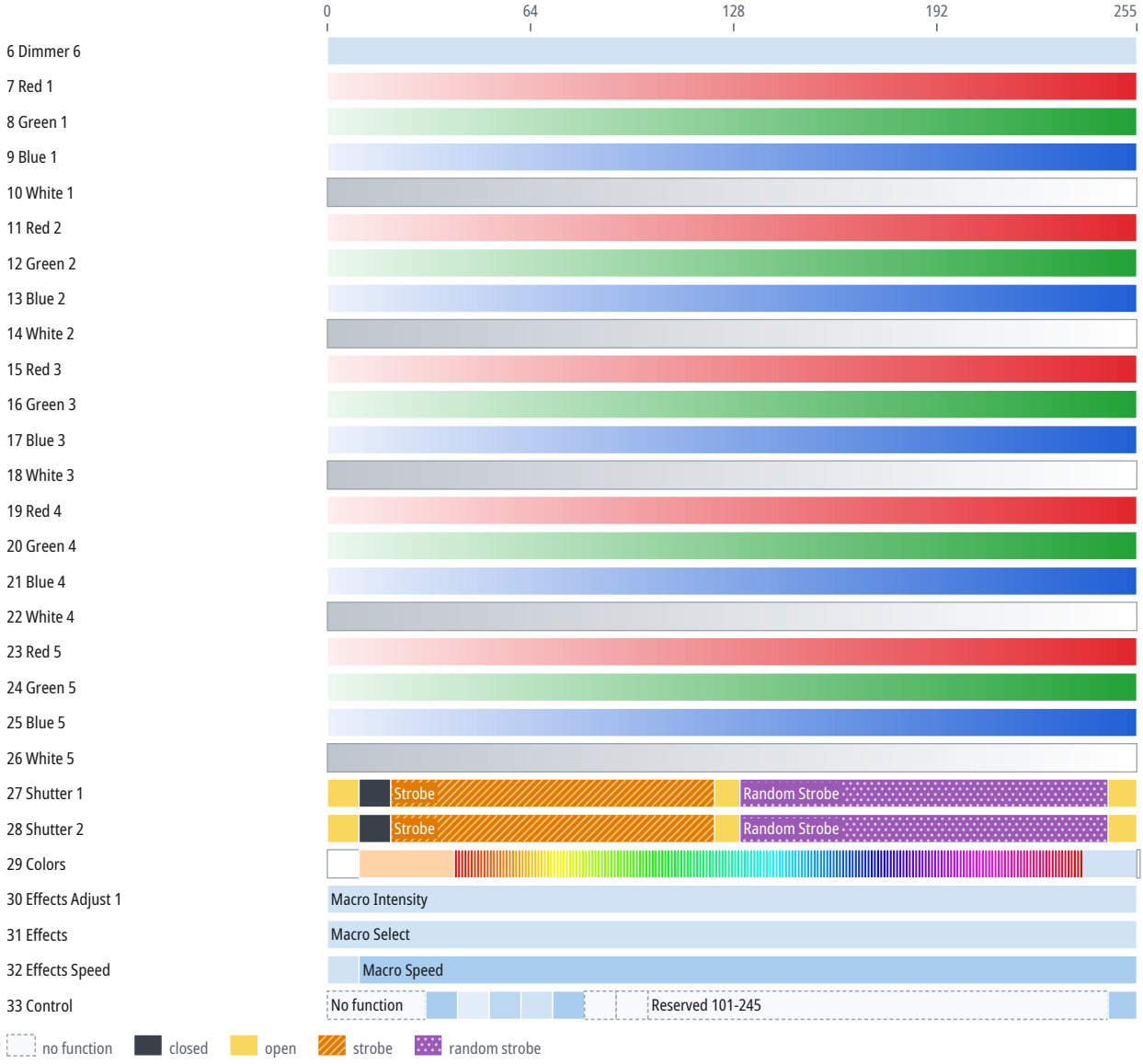
CH	Function	DMX	Description
13	Colors (continued)	195	195 R176 G0 B255
		196	196 R184 G0 B255
		197	197 R192 G0 B255
		198	198 R200 G0 B255
		199	199 R208 G0 B255
		200	200 R216 G0 B255
		201	201 R224 G0 B255
		202	202 R232 G0 B255
		203	203 R240 G0 B255
		204	204 R248 G0 B255
		205	205 R255 G0 B255
		206	206 R255 G0 B247
		207	207 R255 G0 B239
		208	208 R255 G0 B231
		209	209 R255 G0 B223
		210	210 R255 G0 B215
		211	211 R255 G0 B207
		212	212 R255 G0 B199
		213	213 R255 G0 B191
		214	214 R255 G0 B183
		215	215 R255 G0 B175
		216	216 R255 G0 B167
		217	217 R255 G0 B159
		218	218 R255 G0 B151
		219	219 R255 G0 B143
		220	220 R255 G0 B135
		221	221 R255 G0 B127
		222	222 R255 G0 B119
		223	223 R255 G0 B111
		224	224 R255 G0 B103
		225	225 R255 G0 B95
		226	226 R255 G0 B87
		227	227 R255 G0 B79
		228	228 R255 G0 B71
		229	229 R255 G0 B63
		230	230 R255 G0 B55
		231	231 R255 G0 B47
		232	232 R255 G0 B39
		233	233 R255 G0 B31
		234	234 R255 G0 B23
		235	235 R255 G0 B15
		236	236 R255 G0 B7

CH	Function	DMX	Description
13	Colors (continued)	237	237 R255 G0 B0
		238–254	Scroll slow to fast
		255	Open
14	Effects Adjust 1		Macro Intensity
		0–255	Macro Intensity
15	Effects		Macro Select
		0–255	Macro Select
16	Effects Speed	0–9	Macro Stop
		10–255	Macro Speed
17	Control	0–30	No function
		31–40	Flicker Mode 1
		41–50	Flicker Mode 2
		51–60	Flicker Mode 3
		61–70	Linear
		71–80	Logarithmic
		81–90	Reserved 81-90
		91–100	Reserved 91-100
		101–245	Reserved 101-245
		246–255	Default values for all settings

Mode Standard

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 2 Dimmer 2 above 0; CH 3 Dimmer 3 above 0; CH 4 Dimmer 4 above 0; CH 5 Dimmer 5 above 0; CH 6 Dimmer 6 above 0; CH 27 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 28 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Dimmer 2 255, CH 3 Dimmer 3 255, CH 4 Dimmer 4 255, CH 5 Dimmer 5 255, CH 6 Dimmer 6 255, CH 7 Red 1 255, CH 8 Green 1 255, CH 9 Blue 1 255, CH 10 White 1 255, CH 11 Red 2 255, CH 12 Green 2 255, CH 13 Blue 2 255, CH 14 White 2 255, CH 15 Red 3 255, CH 16 Green 3 255, CH 17 Blue 3 255, CH 18 White 3 255, CH 19 Red 4 255, CH 20 Green 4 255, CH 21 Blue 4 255, CH 22 White 4 255, CH 23 Red 5 255, CH 24 Green 5 255, CH 25 Blue 5 255, CH 26 White 5 255, CH 27 Shutter 1 0, CH 28 Shutter 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 2	0–255	
3	Dimmer 3	0–255	

CH	Function	DMX	Description
4	Dimmer 4	0–255	
5	Dimmer 5	0–255	
6	Dimmer 6	0–255	
7	Red 1		When CH 29 is 0–9:
		0–255	
8	Green 1		When CH 29 is 0–9:
		0–255	
9	Blue 1		When CH 29 is 0–9:
		0–255	
10	White 1		When CH 29 is 0–9:
		0–255	
11	Red 2		When CH 29 is 0–9:
		0–255	
12	Green 2		When CH 29 is 0–9:
		0–255	
13	Blue 2		When CH 29 is 0–9:
		0–255	
14	White 2		When CH 29 is 0–9:
		0–255	
15	Red 3		When CH 29 is 0–9:
		0–255	
16	Green 3		When CH 29 is 0–9:
		0–255	
17	Blue 3		When CH 29 is 0–9:
		0–255	
18	White 3		When CH 29 is 0–9:
		0–255	
19	Red 4		When CH 29 is 0–9:
		0–255	
20	Green 4		When CH 29 is 0–9:
		0–255	
21	Blue 4		When CH 29 is 0–9:
		0–255	
22	White 4		When CH 29 is 0–9:
		0–255	
23	Red 5		When CH 29 is 0–9:
		0–255	
24	Green 5		When CH 29 is 0–9:
		0–255	
25	Blue 5		When CH 29 is 0–9:
		0–255	

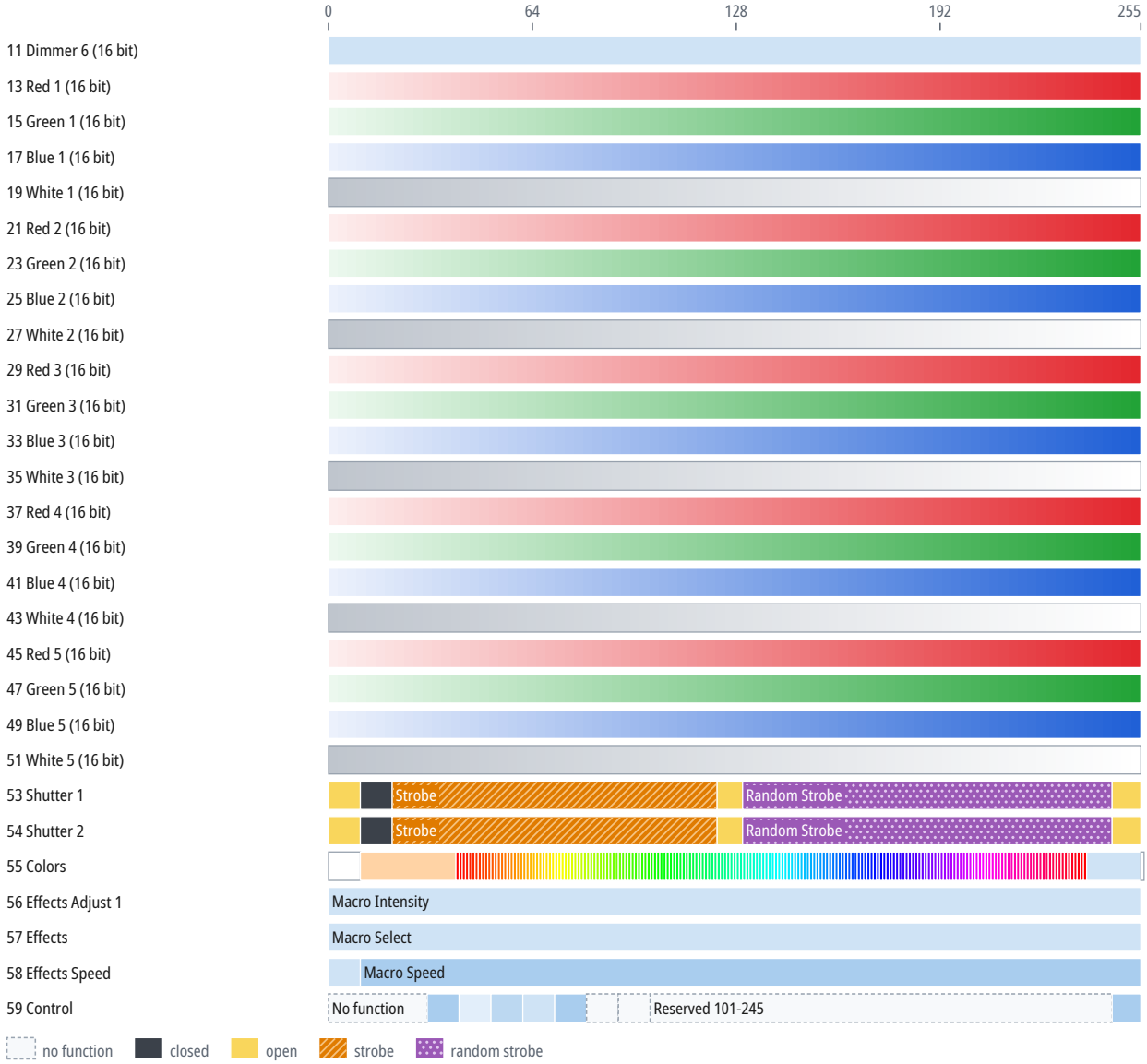
CH	Function	DMX	Description
26	White 5		When CH 29 is 0–9:
		0–255	
27	Shutter 1		Same as CH 11 in the mode “Super Simple” (p. 13)
28	Shutter 2		Same as CH 12 in the mode “Super Simple” (p. 14)
29	Colors		Same as CH 13 in the mode “Simple” (p. 15)
30	Effects Adjust 1		Same as CH 14 in the mode “Simple” (p. 20)
31	Effects		Same as CH 15 in the mode “Simple” (p. 20)
32	Effects Speed		Same as CH 16 in the mode “Simple” (p. 20)
33	Control		Same as CH 17 in the mode “Simple” (p. 20)

Mode Standard Fine

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

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 3 Dimmer 2 above 0; CH 5 Dimmer 3 above 0; CH 7 Dimmer 4 above 0; CH 9 Dimmer 5 above 0; CH 11 Dimmer 6 above 0; CH 53 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 54 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Dimmer 2 255, CH 5 Dimmer 3 255, CH 7 Dimmer 4 255, CH 9 Dimmer 5 255, CH 11 Dimmer 6 255, CH 13 Red 1 255, CH 15 Green 1 255, CH 17 Blue 1 255, CH 19 White 1 255, CH 21 Red 2 255, CH 23 Green 2 255, CH 25 Blue 2 255, CH 27 White 2 255, CH 29 Red 3 255, CH 31 Green 3 255, CH 33 Blue 3 255, CH 35 White 3 255, CH 37 Red 4 255, CH 39 Green 4 255, CH 41 Blue 4 255, CH 43 White 4 255, CH 45 Red 5 255, CH 47 Green 5 255, CH 49 Blue 5 255, CH 51 White 5 255, CH 53 Shutter 1 0, CH 54 Shutter 2 0.

Channel functions at a glance



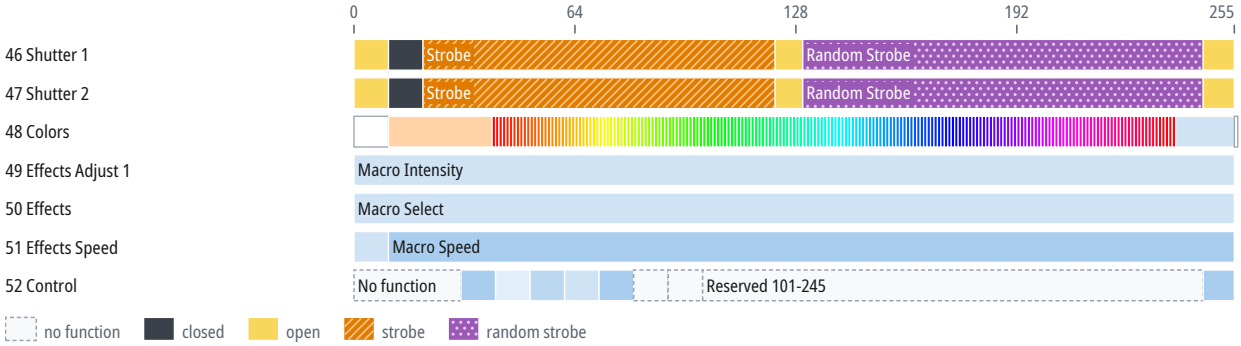
CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Dimmer 2	0–255	
4	Dimmer 2 Fine	0–255	Fine adjustment of CH 3
5	Dimmer 3	0–255	
6	Dimmer 3 Fine	0–255	Fine adjustment of CH 5
7	Dimmer 4	0–255	
8	Dimmer 4 Fine	0–255	Fine adjustment of CH 7
9	Dimmer 5	0–255	
10	Dimmer 5 Fine	0–255	Fine adjustment of CH 9
11	Dimmer 6	0–255	
12	Dimmer 6 Fine	0–255	Fine adjustment of CH 11
13	Red 1		When CH 55 is 0–9:
		0–255	
14	Red 1 Fine	0–255	Fine adjustment of CH 13
15	Green 1		When CH 55 is 0–9:
		0–255	
16	Green 1 Fine	0–255	Fine adjustment of CH 15
17	Blue 1		When CH 55 is 0–9:
		0–255	
18	Blue 1 Fine	0–255	Fine adjustment of CH 17
19	White 1		When CH 55 is 0–9:
		0–255	
20	White 1 Fine	0–255	Fine adjustment of CH 19
21	Red 2		When CH 55 is 0–9:
		0–255	
22	Red 2 Fine	0–255	Fine adjustment of CH 21
23	Green 2		When CH 55 is 0–9:
		0–255	
24	Green 2 Fine	0–255	Fine adjustment of CH 23
25	Blue 2		When CH 55 is 0–9:
		0–255	
26	Blue 2 Fine	0–255	Fine adjustment of CH 25
27	White 2		When CH 55 is 0–9:
		0–255	
28	White 2 Fine	0–255	Fine adjustment of CH 27
29	Red 3		When CH 55 is 0–9:
		0–255	
30	Red 3 Fine	0–255	Fine adjustment of CH 29
31	Green 3		When CH 55 is 0–9:

CH	Function	DMX	Description
31	Green 3 (continued)	0–255	
32	Green 3 Fine	0–255	Fine adjustment of CH 31
33	Blue 3		When CH 55 is 0–9:
		0–255	
34	Blue 3 Fine	0–255	Fine adjustment of CH 33
35	White 3		When CH 55 is 0–9:
		0–255	
36	White 3 Fine	0–255	Fine adjustment of CH 35
37	Red 4		When CH 55 is 0–9:
		0–255	
38	Red 4 Fine	0–255	Fine adjustment of CH 37
39	Green 4		When CH 55 is 0–9:
		0–255	
40	Green 4 Fine	0–255	Fine adjustment of CH 39
41	Blue 4		When CH 55 is 0–9:
		0–255	
42	Blue 4 Fine	0–255	Fine adjustment of CH 41
43	White 4		When CH 55 is 0–9:
		0–255	
44	White 4 Fine	0–255	Fine adjustment of CH 43
45	Red 5		When CH 55 is 0–9:
		0–255	
46	Red 5 Fine	0–255	Fine adjustment of CH 45
47	Green 5		When CH 55 is 0–9:
		0–255	
48	Green 5 Fine	0–255	Fine adjustment of CH 47
49	Blue 5		When CH 55 is 0–9:
		0–255	
50	Blue 5 Fine	0–255	Fine adjustment of CH 49
51	White 5		When CH 55 is 0–9:
		0–255	
52	White 5 Fine	0–255	Fine adjustment of CH 51
53	Shutter 1		Same as CH 11 in the mode “Super Simple” (p. 13)
54	Shutter 2		Same as CH 12 in the mode “Super Simple” (p. 14)
55	Colors		Same as CH 13 in the mode “Simple” (p. 15)
56	Effects Adjust 1		Same as CH 14 in the mode “Simple” (p. 20)
57	Effects		Same as CH 15 in the mode “Simple” (p. 20)
58	Effects Speed		Same as CH 16 in the mode “Simple” (p. 20)
59	Control		Same as CH 17 in the mode “Simple” (p. 20)

Mode Pixel

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 10 Dimmer 2 above 0; CH 19 Dimmer 3 above 0; CH 28 Dimmer 4 above 0; CH 37 Dimmer 5 above 0; CH 46 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 47 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 2 Red 1 255, CH 3 Green 1 255, CH 4 Blue 1 255, CH 5 White 1 255, CH 6 Red 2 255, CH 7 Green 2 255, CH 8 Blue 2 255, CH 9 White 2 255, CH 10 Dimmer 2 255, CH 11 Red 3 255, CH 12 Green 3 255, CH 13 Blue 3 255, CH 14 White 3 255, CH 15 Red 4 255, CH 16 Green 4 255, CH 17 Blue 4 255, CH 18 White 4 255, CH 19 Dimmer 3 255, CH 20 Red 5 255, CH 21 Green 5 255, CH 22 Blue 5 255, CH 23 White 5 255, CH 24 Red 6 255, CH 25 Green 6 255, CH 26 Blue 6 255, CH 27 White 6 255, CH 28 Dimmer 4 255, CH 29 Red 7 255, CH 30 Green 7 255, CH 31 Blue 7 255, CH 32 White 7 255, CH 33 Red 8 255, CH 34 Green 8 255, CH 35 Blue 8 255, CH 36 White 8 255, CH 37 Dimmer 5 255, CH 38 Red 9 255, CH 39 Green 9 255, CH 40 Blue 9 255, CH 41 White 9 255, CH 42 Red 10 255, CH 43 Green 10 255, CH 44 Blue 10 255, CH 45 White 10 255, CH 46 Shutter 1 0, CH 47 Shutter 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Red 1		When CH 48 is 0–9:
		0–255	
3	Green 1		When CH 48 is 0–9:
		0–255	
4	Blue 1		When CH 48 is 0–9:
		0–255	
5	White 1		When CH 48 is 0–9:
		0–255	
6	Red 2		When CH 48 is 0–9:
		0–255	
7	Green 2		When CH 48 is 0–9:
		0–255	
8	Blue 2		When CH 48 is 0–9:
		0–255	
9	White 2		When CH 48 is 0–9:
		0–255	
10	Dimmer 2	0–255	
11	Red 3		When CH 48 is 0–9:

CH	Function	DMX	Description
11	Red 3 (continued)	0–255	
12	Green 3		When CH 48 is 0–9:
		0–255	
13	Blue 3		When CH 48 is 0–9:
		0–255	
14	White 3		When CH 48 is 0–9:
		0–255	
15	Red 4		When CH 48 is 0–9:
		0–255	
16	Green 4		When CH 48 is 0–9:
		0–255	
17	Blue 4		When CH 48 is 0–9:
		0–255	
18	White 4		When CH 48 is 0–9:
		0–255	
19	Dimmer 3	0–255	
20	Red 5		When CH 48 is 0–9:
		0–255	
21	Green 5		When CH 48 is 0–9:
		0–255	
22	Blue 5		When CH 48 is 0–9:
		0–255	
23	White 5		When CH 48 is 0–9:
		0–255	
24	Red 6		When CH 48 is 0–9:
		0–255	
25	Green 6		When CH 48 is 0–9:
		0–255	
26	Blue 6		When CH 48 is 0–9:
		0–255	
27	White 6		When CH 48 is 0–9:
		0–255	
28	Dimmer 4	0–255	
29	Red 7		When CH 48 is 0–9:
		0–255	
30	Green 7		When CH 48 is 0–9:
		0–255	
31	Blue 7		When CH 48 is 0–9:
		0–255	
32	White 7		When CH 48 is 0–9:
		0–255	
33	Red 8		When CH 48 is 0–9:

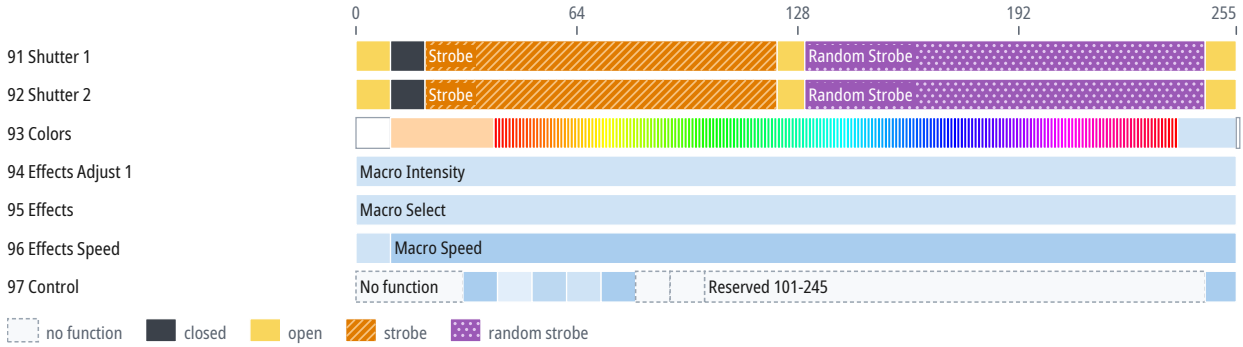
CH	Function	DMX	Description
33	Red 8 (continued)	0–255	
34	Green 8		When CH 48 is 0–9:
		0–255	
35	Blue 8		When CH 48 is 0–9:
		0–255	
36	White 8		When CH 48 is 0–9:
		0–255	
37	Dimmer 5	0–255	
38	Red 9		When CH 48 is 0–9:
		0–255	
39	Green 9		When CH 48 is 0–9:
		0–255	
40	Blue 9		When CH 48 is 0–9:
		0–255	
41	White 9		When CH 48 is 0–9:
		0–255	
42	Red 10		When CH 48 is 0–9:
		0–255	
43	Green 10		When CH 48 is 0–9:
		0–255	
44	Blue 10		When CH 48 is 0–9:
		0–255	
45	White 10		When CH 48 is 0–9:
		0–255	
46	Shutter 1		Same as CH 11 in the mode “Super Simple” (p. 13)
47	Shutter 2		Same as CH 12 in the mode “Super Simple” (p. 14)
48	Colors		Same as CH 13 in the mode “Simple” (p. 15)
49	Effects Adjust 1		Same as CH 14 in the mode “Simple” (p. 20)
50	Effects		Same as CH 15 in the mode “Simple” (p. 20)
51	Effects Speed		Same as CH 16 in the mode “Simple” (p. 20)
52	Control		Same as CH 17 in the mode “Simple” (p. 20)

Mode Pixel Fine

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

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer 1 above 0; CH 19 Dimmer 2 above 0; CH 37 Dimmer 3 above 0; CH 55 Dimmer 4 above 0; CH 73 Dimmer 5 above 0; CH 91 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 92 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 1 255, CH 3 Red 1 255, CH 5 Green 1 255, CH 7 Blue 1 255, CH 9 White 1 255, CH 11 Red 2 255, CH 13 Green 2 255, CH 15 Blue 2 255, CH 17 White 2 255, CH 19 Dimmer 2 255, CH 21 Red 3 255, CH 23 Green 3 255, CH 25 Blue 3 255, CH 27 White 3 255, CH 29 Red 4 255, CH 31 Green 4 255, CH 33 Blue 4 255, CH 35 White 4 255, CH 37 Dimmer 3 255, CH 39 Red 5 255, CH 41 Green 5 255, CH 43 Blue 5 255, CH 45 White 5 255, CH 47 Red 6 255, CH 49 Green 6 255, CH 51 Blue 6 255, CH 53 White 6 255, CH 55 Dimmer 4 255, CH 57 Red 7 255, CH 59 Green 7 255, CH 61 Blue 7 255, CH 63 White 7 255, CH 65 Red 8 255, CH 67 Green 8 255, CH 69 Blue 8 255, CH 71 White 8 255, CH 73 Dimmer 5 255, CH 75 Red 9 255, CH 77 Green 9 255, CH 79 Blue 9 255, CH 81 White 9 255, CH 83 Red 10 255, CH 85 Green 10 255, CH 87 Blue 10 255, CH 89 White 10 255, CH 91 Shutter 1 0, CH 92 Shutter 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer 1	0–255	
2	Dimmer 1 Fine	0–255	Fine adjustment of CH 1
3	Red 1		When CH 93 is 0–9:
		0–255	
4	Red 1 Fine	0–255	Fine adjustment of CH 3
5	Green 1		When CH 93 is 0–9:
		0–255	
6	Green 1 Fine	0–255	Fine adjustment of CH 5
7	Blue 1		When CH 93 is 0–9:
		0–255	
8	Blue 1 Fine	0–255	Fine adjustment of CH 7
9	White 1		When CH 93 is 0–9:
		0–255	
10	White 1 Fine	0–255	Fine adjustment of CH 9
11	Red 2		When CH 93 is 0–9:
		0–255	
12	Red 2 Fine	0–255	Fine adjustment of CH 11
13	Green 2		When CH 93 is 0–9:

CH	Function	DMX	Description
13	Green 2 (continued)	0–255	
14	Green 2 Fine	0–255	Fine adjustment of CH 13
15	Blue 2		When CH 93 is 0–9:
		0–255	
16	Blue 2 Fine	0–255	Fine adjustment of CH 15
17	White 2		When CH 93 is 0–9:
		0–255	
18	White 2 Fine	0–255	Fine adjustment of CH 17
19	Dimmer 2	0–255	
20	Dimmer 2 Fine	0–255	Fine adjustment of CH 19
21	Red 3		When CH 93 is 0–9:
		0–255	
22	Red 3 Fine	0–255	Fine adjustment of CH 21
23	Green 3		When CH 93 is 0–9:
		0–255	
24	Green 3 Fine	0–255	Fine adjustment of CH 23
25	Blue 3		When CH 93 is 0–9:
		0–255	
26	Blue 3 Fine	0–255	Fine adjustment of CH 25
27	White 3		When CH 93 is 0–9:
		0–255	
28	White 3 Fine	0–255	Fine adjustment of CH 27
29	Red 4		When CH 93 is 0–9:
		0–255	
30	Red 4 Fine	0–255	Fine adjustment of CH 29
31	Green 4		When CH 93 is 0–9:
		0–255	
32	Green 4 Fine	0–255	Fine adjustment of CH 31
33	Blue 4		When CH 93 is 0–9:
		0–255	
34	Blue 4 Fine	0–255	Fine adjustment of CH 33
35	White 4		When CH 93 is 0–9:
		0–255	
36	White 4 Fine	0–255	Fine adjustment of CH 35
37	Dimmer 3	0–255	
38	Dimmer 3 Fine	0–255	Fine adjustment of CH 37
39	Red 5		When CH 93 is 0–9:
		0–255	
40	Red 5 Fine	0–255	Fine adjustment of CH 39
41	Green 5		When CH 93 is 0–9:
		0–255	
42	Green 5 Fine	0–255	Fine adjustment of CH 41

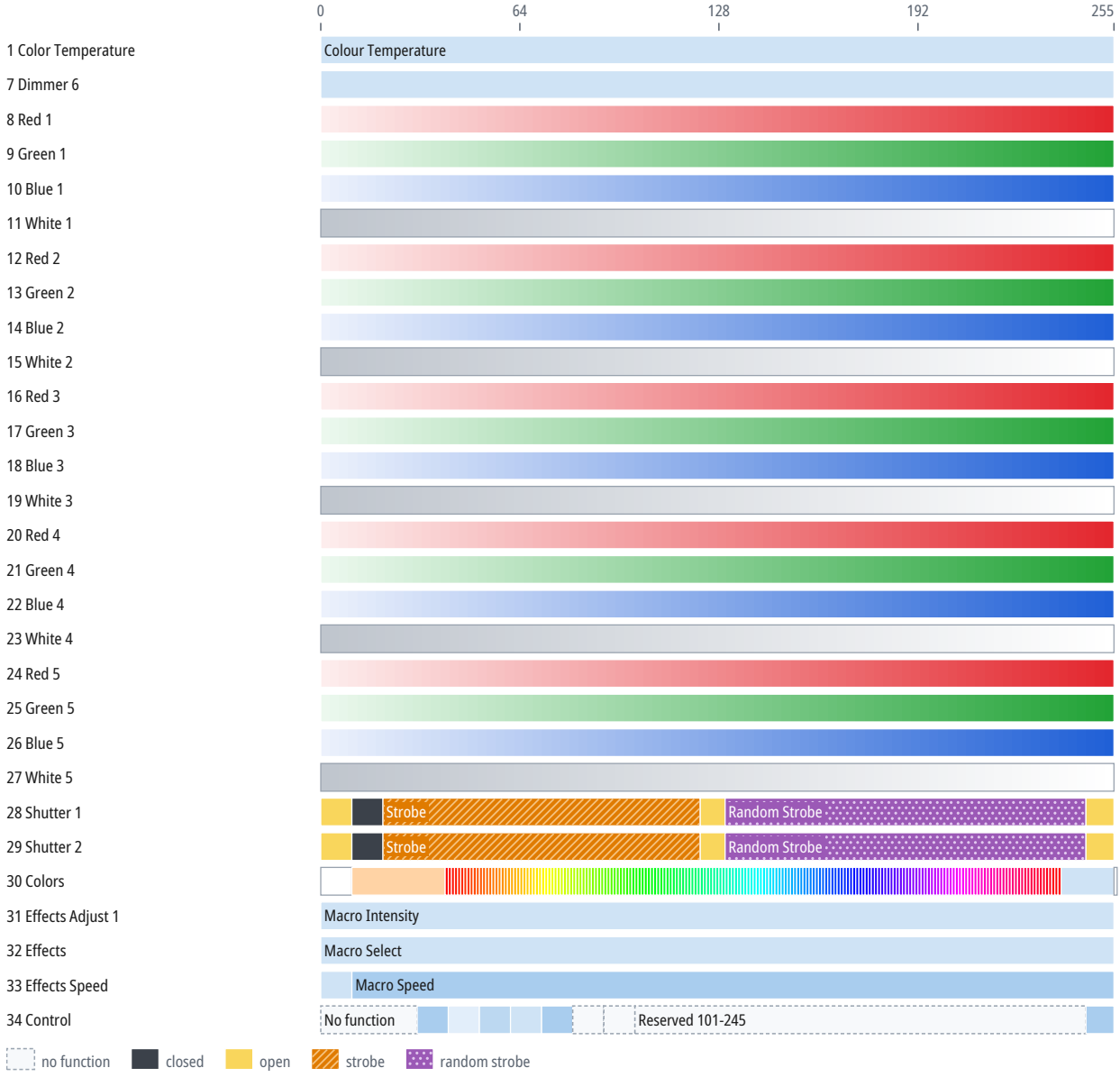
CH	Function	DMX	Description
43	Blue 5		When CH 93 is 0–9:
		0–255	
44	Blue 5 Fine	0–255	Fine adjustment of CH 43
45	White 5		When CH 93 is 0–9:
		0–255	
46	White 5 Fine	0–255	Fine adjustment of CH 45
47	Red 6		When CH 93 is 0–9:
		0–255	
48	Red 6 Fine	0–255	Fine adjustment of CH 47
49	Green 6		When CH 93 is 0–9:
		0–255	
50	Green 6 Fine	0–255	Fine adjustment of CH 49
51	Blue 6		When CH 93 is 0–9:
		0–255	
52	Blue 6 Fine	0–255	Fine adjustment of CH 51
53	White 6		When CH 93 is 0–9:
		0–255	
54	White 6 Fine	0–255	Fine adjustment of CH 53
55	Dimmer 4	0–255	
56	Dimmer 4 Fine	0–255	Fine adjustment of CH 55
57	Red 7		When CH 93 is 0–9:
		0–255	
58	Red 7 Fine	0–255	Fine adjustment of CH 57
59	Green 7		When CH 93 is 0–9:
		0–255	
60	Green 7 Fine	0–255	Fine adjustment of CH 59
61	Blue 7		When CH 93 is 0–9:
		0–255	
62	Blue 7 Fine	0–255	Fine adjustment of CH 61
63	White 7		When CH 93 is 0–9:
		0–255	
64	White 7 Fine	0–255	Fine adjustment of CH 63
65	Red 8		When CH 93 is 0–9:
		0–255	
66	Red 8 Fine	0–255	Fine adjustment of CH 65
67	Green 8		When CH 93 is 0–9:
		0–255	
68	Green 8 Fine	0–255	Fine adjustment of CH 67
69	Blue 8		When CH 93 is 0–9:
		0–255	
70	Blue 8 Fine	0–255	Fine adjustment of CH 69
71	White 8		When CH 93 is 0–9:

CH	Function	DMX	Description
71	White 8 (continued)	0–255	
72	White 8 Fine	0–255	Fine adjustment of CH 71
73	Dimmer 5	0–255	
74	Dimmer 5 Fine	0–255	Fine adjustment of CH 73
75	Red 9		When CH 93 is 0–9:
		0–255	
76	Red 9 Fine	0–255	Fine adjustment of CH 75
77	Green 9		When CH 93 is 0–9:
		0–255	
78	Green 9 Fine	0–255	Fine adjustment of CH 77
79	Blue 9		When CH 93 is 0–9:
		0–255	
80	Blue 9 Fine	0–255	Fine adjustment of CH 79
81	White 9		When CH 93 is 0–9:
		0–255	
82	White 9 Fine	0–255	Fine adjustment of CH 81
83	Red 10		When CH 93 is 0–9:
		0–255	
84	Red 10 Fine	0–255	Fine adjustment of CH 83
85	Green 10		When CH 93 is 0–9:
		0–255	
86	Green 10 Fine	0–255	Fine adjustment of CH 85
87	Blue 10		When CH 93 is 0–9:
		0–255	
88	Blue 10 Fine	0–255	Fine adjustment of CH 87
89	White 10		When CH 93 is 0–9:
		0–255	
90	White 10 Fine	0–255	Fine adjustment of CH 89
91	Shutter 1		Same as CH 11 in the mode “Super Simple” (p. 13)
92	Shutter 2		Same as CH 12 in the mode “Super Simple” (p. 14)
93	Colors		Same as CH 13 in the mode “Simple” (p. 15)
94	Effects Adjust 1		Same as CH 14 in the mode “Simple” (p. 20)
95	Effects		Same as CH 15 in the mode “Simple” (p. 20)
96	Effects Speed		Same as CH 16 in the mode “Simple” (p. 20)
97	Control		Same as CH 17 in the mode “Simple” (p. 20)

Mode CCT

If the device receives DMX in this mode but gives no light, check these channels: CH 2 Dimmer 1 above 0; CH 3 Dimmer 2 above 0; CH 4 Dimmer 3 above 0; CH 5 Dimmer 4 above 0; CH 6 Dimmer 5 above 0; CH 7 Dimmer 6 above 0; CH 28 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 29 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 2 Dimmer 1 255, CH 3 Dimmer 2 255, CH 4 Dimmer 3 255, CH 5 Dimmer 4 255, CH 6 Dimmer 5 255, CH 7 Dimmer 6 255, CH 8 Red 1 255, CH 9 Green 1 255, CH 10 Blue 1 255, CH 11 White 1 255, CH 12 Red 2 255, CH 13 Green 2 255, CH 14 Blue 2 255, CH 15 White 2 255, CH 16 Red 3 255, CH 17 Green 3 255, CH 18 Blue 3 255, CH 19 White 3 255, CH 20 Red 4 255, CH 21 Green 4 255, CH 22 Blue 4 255, CH 23 White 4 255, CH 24 Red 5 255, CH 25 Green 5 255, CH 26 Blue 5 255, CH 27 White 5 255, CH 28 Shutter 1 0, CH 29 Shutter 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Color Temperature		Colour Temperature
		0–255	Colour Temperature (1600–3200 K)
2	Dimmer 1	0–255	
3	Dimmer 2	0–255	
4	Dimmer 3	0–255	
5	Dimmer 4	0–255	
6	Dimmer 5	0–255	
7	Dimmer 6	0–255	
8	Red 1		When CH 30 is 0–9:
		0–255	
9	Green 1		When CH 30 is 0–9:
		0–255	
10	Blue 1		When CH 30 is 0–9:
		0–255	
11	White 1		When CH 30 is 0–9:
		0–255	
12	Red 2		When CH 30 is 0–9:
		0–255	
13	Green 2		When CH 30 is 0–9:
		0–255	
14	Blue 2		When CH 30 is 0–9:
		0–255	
15	White 2		When CH 30 is 0–9:
		0–255	
16	Red 3		When CH 30 is 0–9:
		0–255	
17	Green 3		When CH 30 is 0–9:
		0–255	
18	Blue 3		When CH 30 is 0–9:
		0–255	
19	White 3		When CH 30 is 0–9:
		0–255	
20	Red 4		When CH 30 is 0–9:
		0–255	
21	Green 4		When CH 30 is 0–9:
		0–255	
22	Blue 4		When CH 30 is 0–9:
		0–255	
23	White 4		When CH 30 is 0–9:
		0–255	

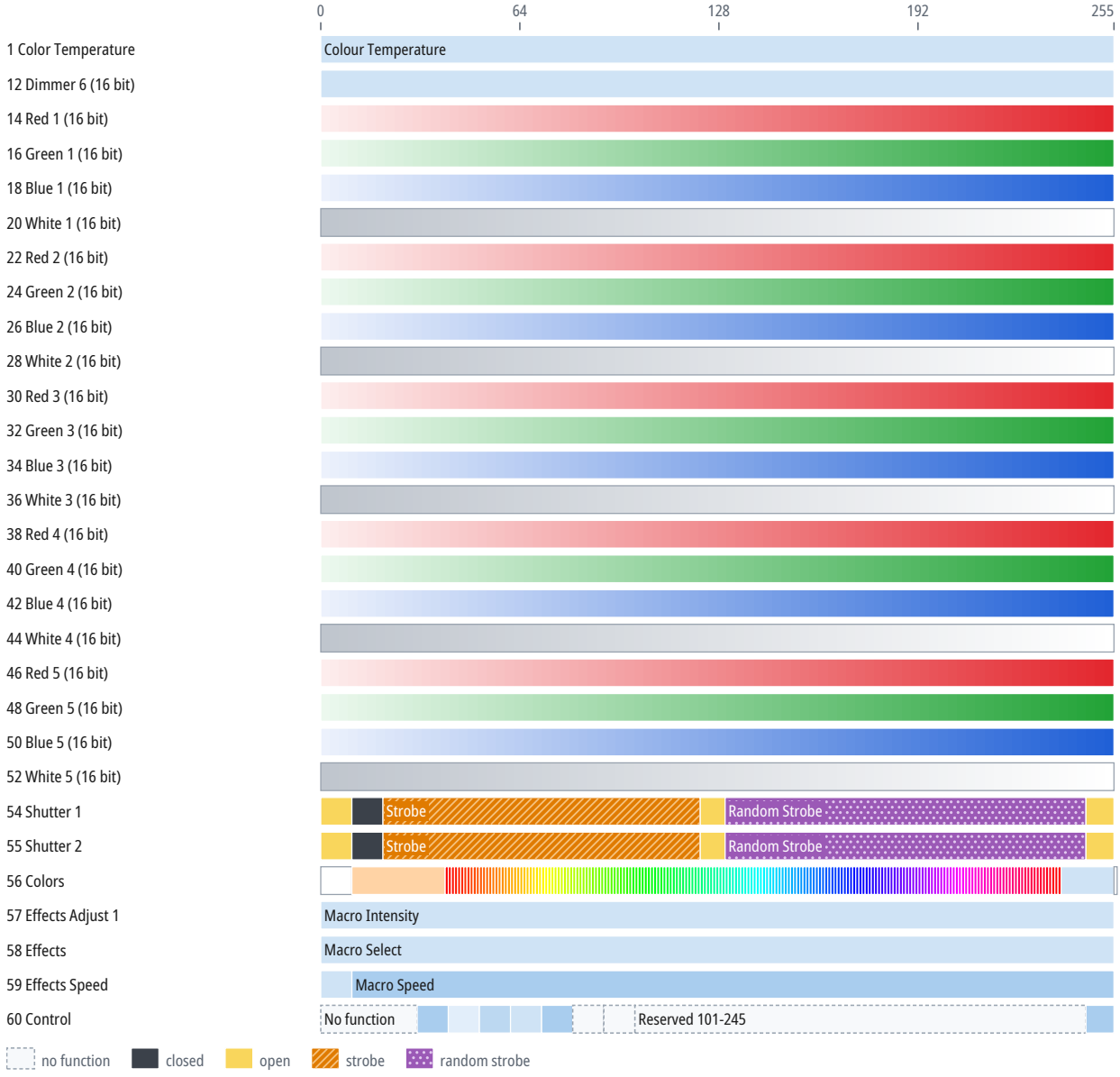
CH	Function	DMX	Description
24	Red 5		When CH 30 is 0–9:
		0–255	
25	Green 5		When CH 30 is 0–9:
		0–255	
26	Blue 5		When CH 30 is 0–9:
		0–255	
27	White 5		When CH 30 is 0–9:
		0–255	
28	Shutter 1		Same as CH 11 in the mode “Super Simple” (p. 13)
29	Shutter 2		Same as CH 12 in the mode “Super Simple” (p. 14)
30	Colors		Same as CH 13 in the mode “Simple” (p. 15)
31	Effects Adjust 1		Same as CH 14 in the mode “Simple” (p. 20)
32	Effects		Same as CH 15 in the mode “Simple” (p. 20)
33	Effects Speed		Same as CH 16 in the mode “Simple” (p. 20)
34	Control		Same as CH 17 in the mode “Simple” (p. 20)

Mode CCT Fine

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 2 Dimmer 1 above 0; CH 4 Dimmer 2 above 0; CH 6 Dimmer 3 above 0; CH 8 Dimmer 4 above 0; CH 10 Dimmer 5 above 0; CH 12 Dimmer 6 above 0; CH 54 Shutter 1 at 0–9 “Open” or 122–129 or 246–255; CH 55 Shutter 2 at 0–9 “Open” or 122–129 or 246–255. The GDTF file gives these values for a console's Highlight function: CH 2 Dimmer 1 255, CH 4 Dimmer 2 255, CH 6 Dimmer 3 255, CH 8 Dimmer 4 255, CH 10 Dimmer 5 255, CH 12 Dimmer 6 255, CH 14 Red 1 255, CH 16 Green 1 255, CH 18 Blue 1 255, CH 20 White 1 255, CH 22 Red 2 255, CH 24 Green 2 255, CH 26 Blue 2 255, CH 28 White 2 255, CH 30 Red 3 255, CH 32 Green 3 255, CH 34 Blue 3 255, CH 36 White 3 255, CH 38 Red 4 255, CH 40 Green 4 255, CH 42 Blue 4 255, CH 44 White 4 255, CH 46 Red 5 255, CH 48 Green 5 255, CH 50 Blue 5 255, CH 52 White 5 255, CH 54 Shutter 1 0, CH 55 Shutter 2 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Color Temperature		Same as CH 1 in the mode “CCT” (p. 35)
2	Dimmer 1	0–255	
3	Dimmer 1 Fine	0–255	Fine adjustment of CH 2
4	Dimmer 2	0–255	
5	Dimmer 2 Fine	0–255	Fine adjustment of CH 4
6	Dimmer 3	0–255	
7	Dimmer 3 Fine	0–255	Fine adjustment of CH 6
8	Dimmer 4	0–255	
9	Dimmer 4 Fine	0–255	Fine adjustment of CH 8
10	Dimmer 5	0–255	
11	Dimmer 5 Fine	0–255	Fine adjustment of CH 10
12	Dimmer 6	0–255	
13	Dimmer 6 Fine	0–255	Fine adjustment of CH 12
14	Red 1		When CH 56 is 0–9:
		0–255	
15	Red 1 Fine	0–255	Fine adjustment of CH 14
16	Green 1		When CH 56 is 0–9:
		0–255	
17	Green 1 Fine	0–255	Fine adjustment of CH 16
18	Blue 1		When CH 56 is 0–9:
		0–255	
19	Blue 1 Fine	0–255	Fine adjustment of CH 18
20	White 1		When CH 56 is 0–9:
		0–255	
21	White 1 Fine	0–255	Fine adjustment of CH 20
22	Red 2		When CH 56 is 0–9:
		0–255	
23	Red 2 Fine	0–255	Fine adjustment of CH 22
24	Green 2		When CH 56 is 0–9:
		0–255	
25	Green 2 Fine	0–255	Fine adjustment of CH 24
26	Blue 2		When CH 56 is 0–9:
		0–255	
27	Blue 2 Fine	0–255	Fine adjustment of CH 26
28	White 2		When CH 56 is 0–9:
		0–255	
29	White 2 Fine	0–255	Fine adjustment of CH 28
30	Red 3		When CH 56 is 0–9:
		0–255	
31	Red 3 Fine	0–255	Fine adjustment of CH 30

CH	Function	DMX	Description
32	Green 3		When CH 56 is 0–9:
		0–255	
33	Green 3 Fine	0–255	Fine adjustment of CH 32
34	Blue 3		When CH 56 is 0–9:
		0–255	
35	Blue 3 Fine	0–255	Fine adjustment of CH 34
36	White 3		When CH 56 is 0–9:
		0–255	
37	White 3 Fine	0–255	Fine adjustment of CH 36
38	Red 4		When CH 56 is 0–9:
		0–255	
39	Red 4 Fine	0–255	Fine adjustment of CH 38
40	Green 4		When CH 56 is 0–9:
		0–255	
41	Green 4 Fine	0–255	Fine adjustment of CH 40
42	Blue 4		When CH 56 is 0–9:
		0–255	
43	Blue 4 Fine	0–255	Fine adjustment of CH 42
44	White 4		When CH 56 is 0–9:
		0–255	
45	White 4 Fine	0–255	Fine adjustment of CH 44
46	Red 5		When CH 56 is 0–9:
		0–255	
47	Red 5 Fine	0–255	Fine adjustment of CH 46
48	Green 5		When CH 56 is 0–9:
		0–255	
49	Green 5 Fine	0–255	Fine adjustment of CH 48
50	Blue 5		When CH 56 is 0–9:
		0–255	
51	Blue 5 Fine	0–255	Fine adjustment of CH 50
52	White 5		When CH 56 is 0–9:
		0–255	
53	White 5 Fine	0–255	Fine adjustment of CH 52
54	Shutter 1		Same as CH 11 in the mode “Super Simple” (p. 13)
55	Shutter 2		Same as CH 12 in the mode “Super Simple” (p. 14)
56	Colors		Same as CH 13 in the mode “Simple” (p. 15)
57	Effects Adjust 1		Same as CH 14 in the mode “Simple” (p. 20)
58	Effects		Same as CH 15 in the mode “Simple” (p. 20)
59	Effects Speed		Same as CH 16 in the mode “Simple” (p. 20)
60	Control		Same as CH 17 in the mode “Simple” (p. 20)

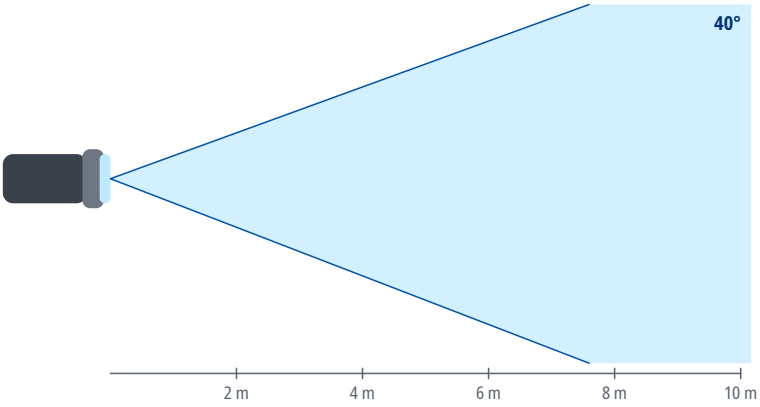
10 Technical specifications

Parameter	Value
Light source	LED
RDM	yes (manufacturer ID 0x01CC, device model ID 0x0015)
Weight	7.5 kg
Operating temperature	0 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	1600–3200 K
Strobe frequency	0.5–30 Hz

Spot diameter



Distance	Ø 40°
2 m	1.5 m
4 m	2.9 m
6 m	4.4 m
8 m	5.8 m
10 m	7.3 m
15 m	10.9 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.
Devices respond to the wrong channels or affect each other	Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
The device or the connected load does not light up although it receives DMX	Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open.

13 Disposal

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

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

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

Recycle the packaging materials according to their type.