DMX REFERENCE

NF9-X

SS9692XLEM

Silver Star

Manufacturer	Silver Star
GDTF file	Silver_Star_NF9-X_106064.gdtf
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1 About this manual

This document describes the SS9692XLEM by Silver Star. It was compiled from the GDTF file Silver_Star_NF9-X_106064.gdtf from the GDTF-Share library.

File revision: “SS9692XLEM”.

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 Silver Star; product names and trademarks belong to their owners.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

> **NOTE** This product is designed for stage and effect lighting. It is not suitable for household room illumination.

2 Quick reference

Parameter	Value
Power consumption	850 W
Weight	38 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
PIXEL FULL(391CH)	391	1	1
PIXEL RGBL (154CH)	154	3	1, 155, 309
TR16 (44CH)	44	11	1, 45, 89, 133, ...
TOUR (33CH)	33	15	1, 34, 67, 100, ...
SSP (21CH)	21	24	1, 22, 43, 64, ...
CMY (32CH)	32	16	1, 33, 65, 97, ...
HSIC (28CH)	28	18	1, 29, 57, 85, ...

No light? Check these channels

- PIXEL FULL(391CH): CH 10 Dimmer 1 above 0; CH 13 Dimmer 2 above 0; CH 16 Dimmer 3 above 0; CH 19 Dimmer 4 above 0; CH 20 Dimmer 5 above 0; CH 344 Dimmer above 0 (the same in each of the 48 cells)
- PIXEL RGBL (154CH): CH 10 Dimmer 1 above 0; CH 13 Dimmer 2 above 0; CH 16 Dimmer 3 above 0; CH 19 Dimmer 4 above 0; CH 20 Dimmer 5 above 0
- TR16 (44CH): CH 15 Dimmer 1 above 0; CH 19 Dimmer 2 above 0; CH 23 Dimmer 3 above 0; CH 32 Dimmer 4 above 0; CH 37 Dimmer 5 above 0
- TOUR (33CH): CH 11 Dimmer 1 above 0; CH 21 Dimmer 2 above 0; CH 26 Dimmer 3 above 0
- SSP (21CH): CH 9 Dimmer 1 above 0; CH 14 Dimmer 2 above 0; CH 19 Dimmer 3 above 0
- CMY (32CH): CH 10 Dimmer 1 above 0; CH 20 Dimmer 2 above 0; CH 25 Dimmer 3 above 0
- HSIC (28CH): CH 7 Dimmer 1 above 0; CH 16 Dimmer 2 above 0; CH 21 Dimmer 3 above 0


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

3 Safety instructions


Read the manual before use


Risk of electric shock


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

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

⚠ 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 Installation

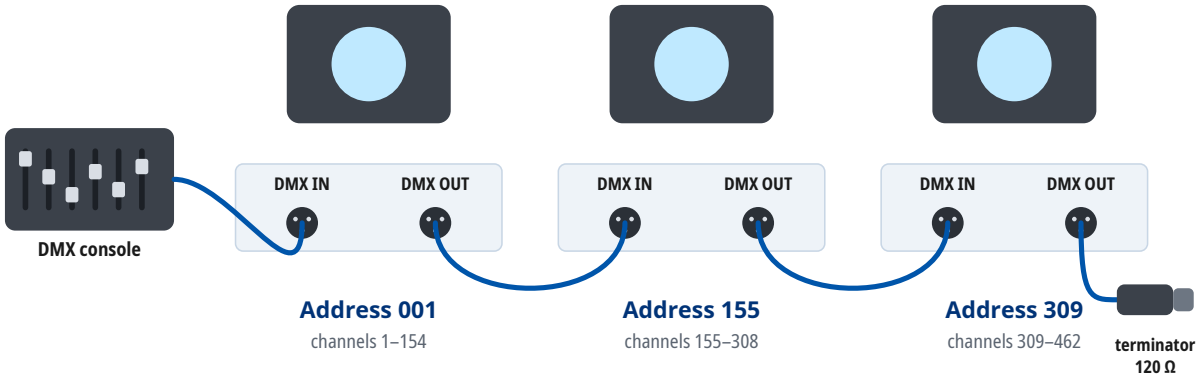
⚠ WARNING

- 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: 38 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.

5 Connections

- Use shielded cable designed for DMX512 with an impedance of 110 Ω. Ordinary microphone cable is not suitable for DMX, especially over longer distances.
- Connect the devices in a daisy chain: connect the DMX OUT of one device to the DMX IN of the next. Do not split the line with Y-cables or wire it in a star; the line may be split only with a DMX splitter.
- Connect the shield to pin 1 only. Do not connect the shield (ground) to the metal shell of the connector; this can cause short circuits or erratic behavior.
- XLR pin assignment: pin 1 – shield (ground), pin 2 – Data- (Data Complement), pin 3 – Data+ (Data True). On 5-pin connectors, pins 4 and 5 are not connected; a 5-pin connector can be connected to a 3-pin one with a cable adapter.
- Terminate the end of the line (for impedance matching): plug an XLR connector with a 120 Ω, ¼ W resistor between pins 2 and 3 into the DMX OUT of the last device. This reduces the risk of erratic behavior.
- Connect no more than 32 devices to one DMX line. For more devices or longer runs, use a DMX splitter or booster.

DMX line



Mode PIXEL RGBL (154CH): every unit occupies 154 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

6 Operation

Setting the DMX address

- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “PIXEL FULL(391CH)”: 391.
- 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.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

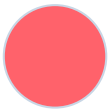
7 Functions at a glance

Functions in each DMX mode

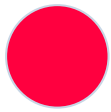
	PIXEL FULL(391CH) 391 channels	PIXEL RGBL (154CH) 154 channels	TR16 (44CH) 44 channels	TOUR (33CH) 33 channels	SSP (21CH) 21 channels	CMY (32CH) 32 channels	HSIC (28CH) 28 channels
Pan / Tilt	**1, 3, 6**	**1, 3, 6**	**1, 3, 6**	**1, 3, 6**	**1, 2, 4**	**1, 3, 6**	**1, 3, 6**
Pan / Tilt resolution	16 bit	16 bit	16 bit	16 bit	8 bit	16 bit	16 bit
Dimmer	53 channels (10–391)	5 channels (10–20)	5 channels (15–37)	**11, 21, 26**	**9, 14, 19**	**10, 20, 25**	**7, 16, 21**
Dimmer resolution	8 bit	8 bit	16 bit	8 bit	8 bit	8 bit	8 bit
Shutter / strobe	4 channels (11–21)	4 channels (11–21)	4 channels (17–38)	**12, 27**	**10, 20**	**11, 26**	**12, 22**
Color mixing	**24–343**	**27–154**	8 channels (7–36)	**7–10, 22–25**	**5–8, 15–18**	**7–9, 21–24**	**17–20**
Color temperature	**8, 23**	**8, 23**	**28, 40**	**17, 29**		**16, 28**	**11, 24**
Color wheel	**7, 22**	**7, 22**	**27, 39**	**16, 28**		**15, 27**	**23**
Zoom	**12, 15, 18**	**12, 15, 18**	**18, 22, 26**	**13–15**	**11–13**	**12–14**	**13–15**
Effects / macros		**24–26**	**29–31, 41–43**	**18–20, 30–32**		**17–19, 29–31**	**25–27**
Pixel control	32 + 48 + 48 cells	**32 cells**	✓				

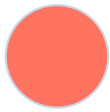
Prism

1
WHITE
DMX 0–15

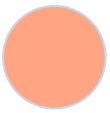
2 
R40
DMX 16–20

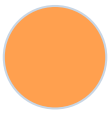
3 
L24
DMX 21–25

4 
L164
DMX 26–30

5 
L08
DMX 41–45

6 
L25
DMX 46–50

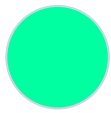
7 
L237
DMX 56–60

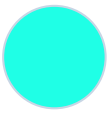
8 
R321
DMX 61–65

9 
L652
DMX 66–70

10
L765
DMX 76–80

11
L513
DMX 81–85

12 
L90
DMX 106–110

13 
R92
DMX 116–120

14
L728
DMX 136–140

15 
L117
DMX 141–145

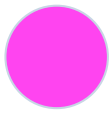
16 
L354
DMX 146–150

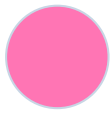
17 
L501
DMX 156–160

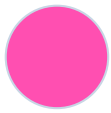
18 
L174
DMX 161–165

19 
L142
DMX 181–185

20 
L794
DMX 196–200

21 
L328
DMX 201–205

22 
L127
DMX 216–220

23 
L192
DMX 221–225

24 
L157
DMX 236–240

25 
R332
DMX 241–245

26 
6 facets
6 PRISM

Color wheel

1 WHITE
DMX 0–15

2 R40
DMX 16–20

3 L24
DMX 21–25

4 L164
DMX 26–30

5 L08
DMX 41–45

6 L25
DMX 46–50

7 L237
DMX 56–60

8 R321
DMX 61–65

9 L652
DMX 66–70

10 L765
DMX 76–80

11 L513
DMX 81–85

12 L90
DMX 106–110

13 R92
DMX 116–120

14 L728
DMX 136–140

15 L117
DMX 141–145

16 L354
DMX 146–150

17 L501
DMX 156–160

18 L174
DMX 161–165

19 L142
DMX 181–185

20 L794
DMX 196–200

21 L328
DMX 201–205

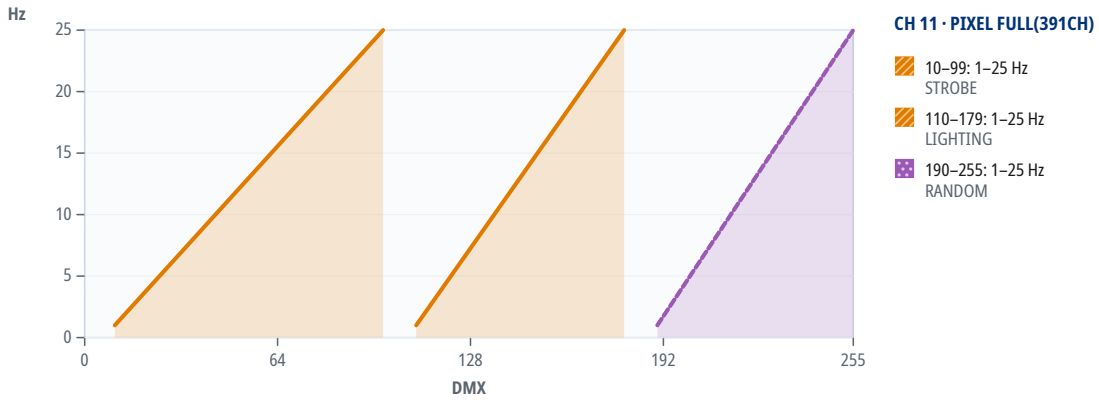
22 L127
DMX 216–220

23 L192
DMX 221–225

24 L157
DMX 236–240

25 R332
DMX 241–245

Strobe rate



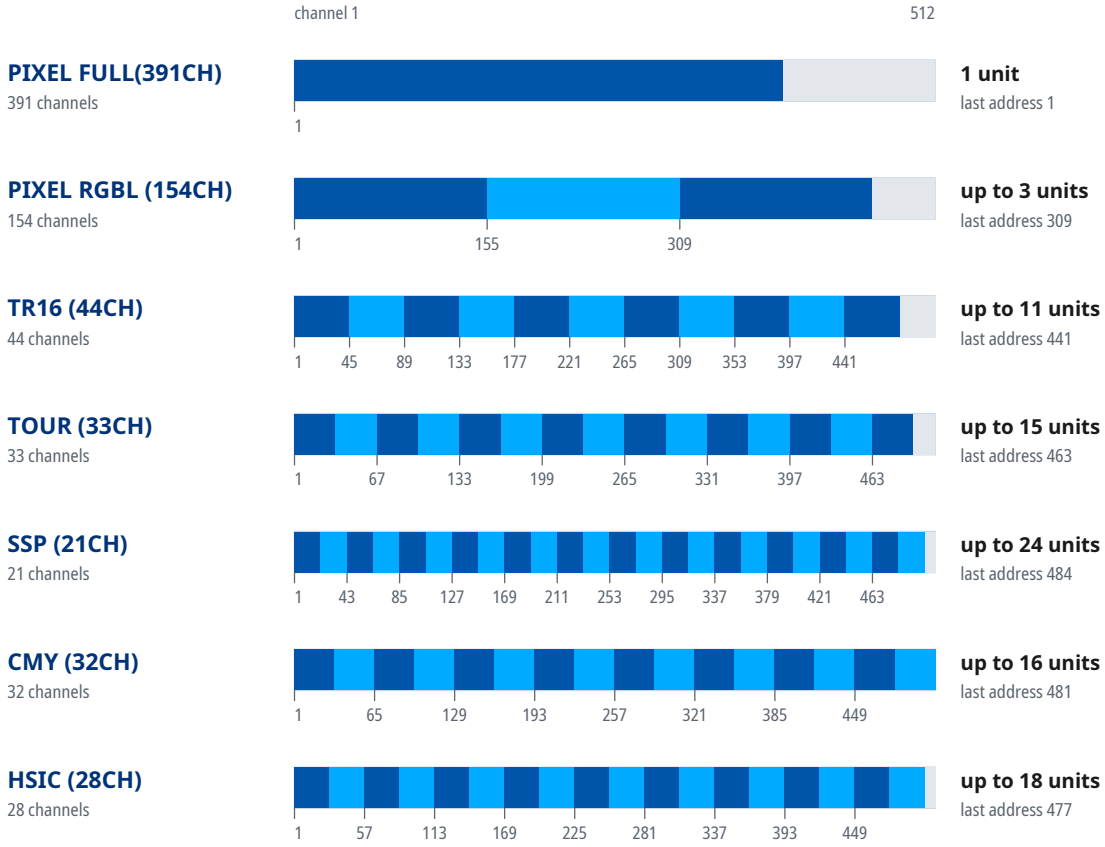
Cells (pixels)



5 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “PIXEL FULL(391CH)”.

8 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “PIXEL FULL(391CH)”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U6 · 1	11	U11 · 1	16	U16 · 1
2	U2 · 1	7	U7 · 1	12	U12 · 1	17	U17 · 1
3	U3 · 1	8	U8 · 1	13	U13 · 1	18	U18 · 1
4	U4 · 1	9	U9 · 1	14	U14 · 1	19	U19 · 1
5	U5 · 1	10	U10 · 1	15	U15 · 1	20	U20 · 1

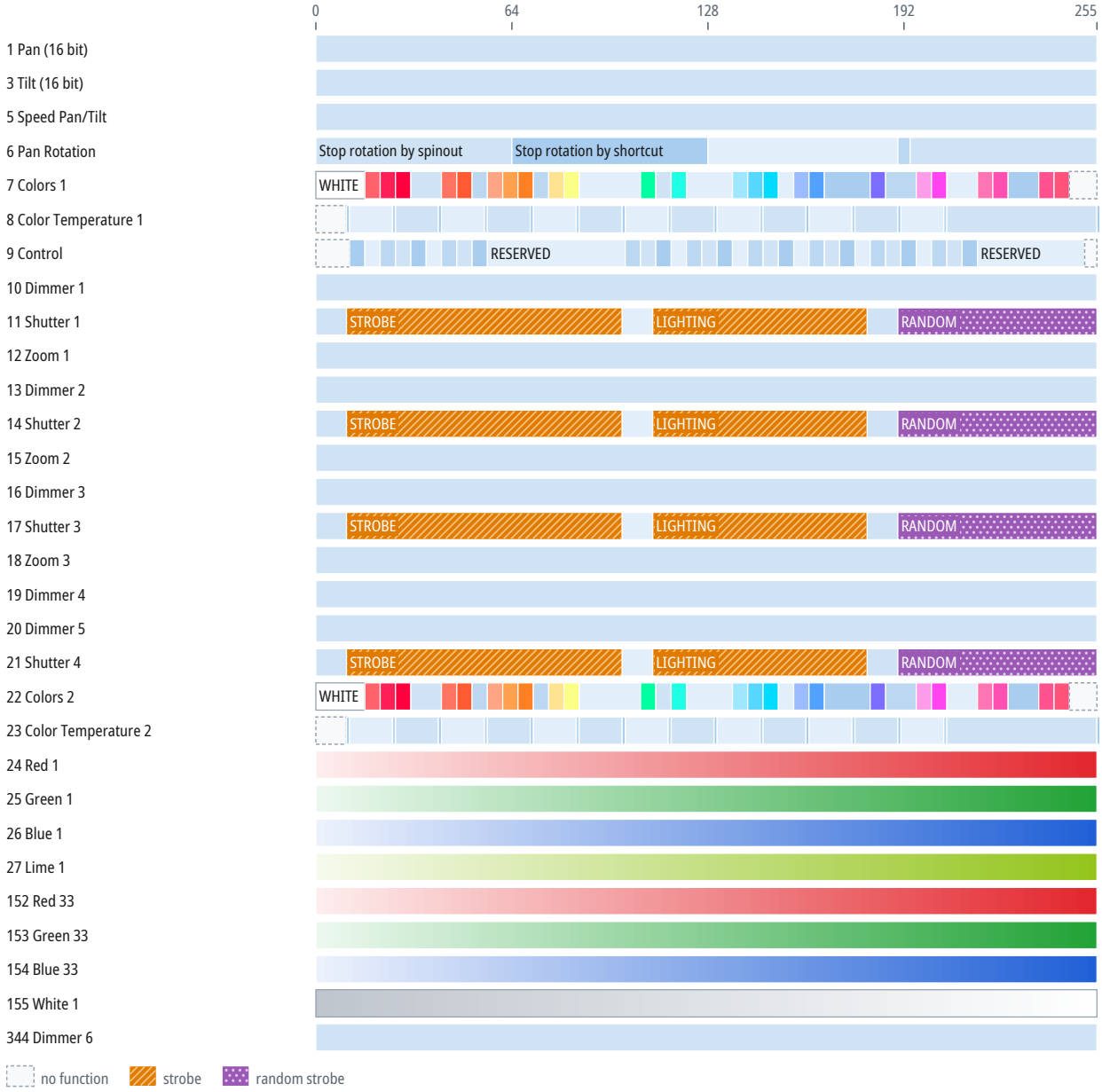
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode PIXEL FULL(391CH)

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 10 Dimmer 1 above 0; CH 13 Dimmer 2 above 0; CH 16 Dimmer 3 above 0; CH 19 Dimmer 4 above 0; CH 20 Dimmer 5 above 0; CH 344 Dimmer above 0 (the same in each of the 48 cells).

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	

CH	Function	DMX	Description
6	Pan Rotation	0–63	Stop rotation by spinout
		64–127	Stop rotation by shortcut
		128–189	Forwards Pan rotation from fast
		190–193	No rotation
		194–255	Backwards Pan rotation from slow to fast
7	Colors 1	0–15	WHITE
		16–20	R40
		21–25	L24
		26–30	L164
		31–40	L164 ... L08
		41–45	L08
		46–50	L25
		51–55	L25 ... L237
		56–60	L237
		61–65	R321
		66–70	L652
		71–75	L652 ... L765
		76–80	L765
		81–85	L513
		86–105	L513 ... L90
		106–110	L90
		111–115	L90 ... R92
		116–120	R92
		121–135	R92 ... L728
		136–140	L728
		141–145	L117
		146–150	L354
		151–155	L354 ... L501
		156–160	L501
		161–165	L174
		166–180	L174 ... L142
		181–185	L142
		186–195	L142 ... L794
		196–200	L794
		201–205	L328
		206–215	L328 ... L127
		216–220	L127
		221–225	L192
		226–235	L192 ... L157
		236–240	L157
		241–245	R332
		246–255	NO FUNCTION

CH	Function	DMX	Description
8	Color Temperature 1	0–9	NO FUNCTION
		10	1800K
		11–24	1800K ... 2200K
		25	2200K
		26–39	2200K ... 2700K
		40	2700K
		41–54	2700K ... 3000K
		55	3000K
		56–69	3000K ... 3200K
		70	3200K
		71–84	3200K ... 4000K
		85	4000K
		86–99	4000K ... 4500K
		100	4500K
		101–114	4500K ... 5000K
		115	5000K
		116–129	5000K ... 5600K
		130	5600K
		131–144	5600K ... 6000K
		145	6000K
		146–159	6000K ... 6500K
		160	6500K
		161–174	6500K ... 7000K
		175	7000K
		176–189	7000K ... 8000K
		190	8000K
		191–204	8000K ... 10000K
		205	10000K
		206–254	CTC 1
		255	10000K
9	Control	0–10	NO FUNCTION
		11–15	PAN/TILT BLACK ACTIVATED
		16–20	PAN/TILT BLACK DEACTIVATED
		21–25	PAN INVERT
		26–30	TILT INVERT
		31–35	PAN/TILT INVERT OFF
		36–40	PAN DEGREE 630
		41–45	PAN DEGREE 540
		46–100	RESERVED
		101–105	STUDIO
		106–110	POWER
		111–115	LIVE

CH	Function	DMX	Description
9	Control (continued)	116–130	RESERVED
		131–135	DIMMER SPEED Halogen
		136–140	DIMMER SPEED LED
		141–145	DIMMER CURVE LINEAR
		146–150	DIMMER CURVE SQUARE LAW
		151–155	DIMMER CURVE INV SQUARE LAW
		156–160	DIMMER CURVE S-CURVE
		161–165	1200Hz
		166–170	2400Hz
		171–175	4000Hz
		176–185	6000Hz
		186–190	RESERVED
		191–195	COLOR MODE RGBL
		196–200	COLOR MODE RGBW
		201–205	ALL RESET
		206–210	XY RESET
		211–215	ZOOM RESET
		216–250	RESERVED
		251–255	NO FUNCTION
10	Dimmer 1	0–255	
11	Shutter 1	0–9	NO FUNCTION1
		10–99	STROBE (1–25 Hz)
		100–109	NO FUNCTION2
		110–179	LIGHTING (1–25 Hz)
		180–189	NO FUNCTION3
		190–255	RANDOM (1–25 Hz)
12	Zoom 1	0–255	
13	Dimmer 2	0–255	
14	Shutter 2	0–9	NO FUNCTION1
		10–99	STROBE (1–25 Hz)
		100–109	NO FUNCTION2
		110–179	LIGHTING (1–25 Hz)
		180–189	NO FUNCTION3
		190–255	RANDOM (1–25 Hz)
15	Zoom 2	0–255	
16	Dimmer 3	0–255	
17	Shutter 3	0–9	NO FUNCTION1
		10–99	STROBE (1–25 Hz)
		100–109	NO FUNCTION2
		110–179	LIGHTING (1–25 Hz)
		180–189	NO FUNCTION3
		190–255	RANDOM (1–25 Hz)

CH	Function	DMX	Description
18	Zoom 3	0–255	
19	Dimmer 4	0–255	
20	Dimmer 5	0–255	
21	Shutter 4	0–9	NO FUNCTION1
		10–99	STROBE (1–25 Hz)
		100–109	NO FUNCTION2
		110–179	LIGHTING (1–25 Hz)
		180–189	NO FUNCTION3
		190–255	RANDOM (1–25 Hz)
22	Colors 2	0–15	WHITE
		16–20	R40
		21–25	L24
		26–30	L164
		31–40	L164 ... L08
		41–45	L08
		46–50	L25
		51–55	L25 ... L237
		56–60	L237
		61–65	R321
		66–70	L652
		71–75	L652 ... L765
		76–80	L765
		81–85	L513
		86–105	L513 ... L90
		106–110	L90
		111–115	L90 ... R92
		116–120	R92
		121–135	R92 ... L728
		136–140	L728
		141–145	L117
		146–150	L354
		151–155	L354 ... L501
		156–160	L501
		161–165	L174
		166–180	L174 ... L142
		181–185	L142
		186–195	L142 ... L794
		196–200	L794
		201–205	L328
		206–215	L328 ... L127
		216–220	L127
		221–225	L192

CH	Function	DMX	Description
22	Colors 2 (continued)	226–235	L192 ... L157
		236–240	L157
		241–245	R332
		246–255	NO FUNCTION
23	Color Temperature 2	0–9	NO FUNCTION
		10	1800K
		11–24	1800K ... 2200K
		25	2200K
		26–39	2200K ... 2700K
		40	2700K
		41–54	2700K ... 3000K
		55	3000K
		56–69	3000K ... 3200K
		70	3200K
		71–84	3200K ... 4000K
		85	4000K
		86–99	4000K ... 4500K
		100	4500K
		101–114	4500K ... 5000K
		115	5000K
		116–129	5000K ... 5600K
		130	5600K
		131–144	5600K ... 6000K
		145	6000K
		146–159	6000K ... 6500K
		160	6500K
		161–174	6500K ... 7000K
		175	7000K
		176–189	7000K ... 8000K
		190	8000K
		191–204	8000K ... 10000K
		205	10000K
		206–254	CTC 1
		255	10000K
24	Red 1	0–255	
25	Green 1	0–255	
26	Blue 1	0–255	
27	Lime 1	0–255	
152	Red 33	0–255	
153	Green 33	0–255	

CH	Function	DMX	Description
154	Blue 33	0–255	
155	White 1	0–255	
344	Dimmer 6	0–255	

CH 24–151: 32 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 24–27); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Lime	Cell	Red	Green	Blue	Lime
1	24	25	26	27	2	28	29	30	31
3	32	33	34	35	4	36	37	38	39
5	40	41	42	43	6	44	45	46	47
7	48	49	50	51	8	52	53	54	55
9	56	57	58	59	10	60	61	62	63
11	64	65	66	67	12	68	69	70	71
13	72	73	74	75	14	76	77	78	79
15	80	81	82	83	16	84	85	86	87
17	88	89	90	91	18	92	93	94	95
19	96	97	98	99	20	100	101	102	103
21	104	105	106	107	22	108	109	110	111
23	112	113	114	115	24	116	117	118	119
25	120	121	122	123	26	124	125	126	127
27	128	129	130	131	28	132	133	134	135
29	136	137	138	139	30	140	141	142	143
31	144	145	146	147	32	148	149	150	151

CH 152–343: 48 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 152–155); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	White	Cell	Red	Green	Blue	White
1	152	153	154	155	2	156	157	158	159
3	160	161	162	163	4	164	165	166	167
5	168	169	170	171	6	172	173	174	175
7	176	177	178	179	8	180	181	182	183
9	184	185	186	187	10	188	189	190	191
11	192	193	194	195	12	196	197	198	199
13	200	201	202	203	14	204	205	206	207
15	208	209	210	211	16	212	213	214	215
17	216	217	218	219	18	220	221	222	223
19	224	225	226	227	20	228	229	230	231
21	232	233	234	235	22	236	237	238	239
23	240	241	242	243	24	244	245	246	247
25	248	249	250	251	26	252	253	254	255
27	256	257	258	259	28	260	261	262	263
29	264	265	266	267	30	268	269	270	271

Cell	Red	Green	Blue	White	Cell	Red	Green	Blue	White
31	272	273	274	275	32	276	277	278	279
33	280	281	282	283	34	284	285	286	287
35	288	289	290	291	36	292	293	294	295
37	296	297	298	299	38	300	301	302	303
39	304	305	306	307	40	308	309	310	311
41	312	313	314	315	42	316	317	318	319
43	320	321	322	323	44	324	325	326	327
45	328	329	330	331	46	332	333	334	335
47	336	337	338	339	48	340	341	342	343

CH 344–391: 48 cells of 1 channel each. Every cell works as cell 1 in the table above (CH 344); the table below gives each cell's channel numbers.

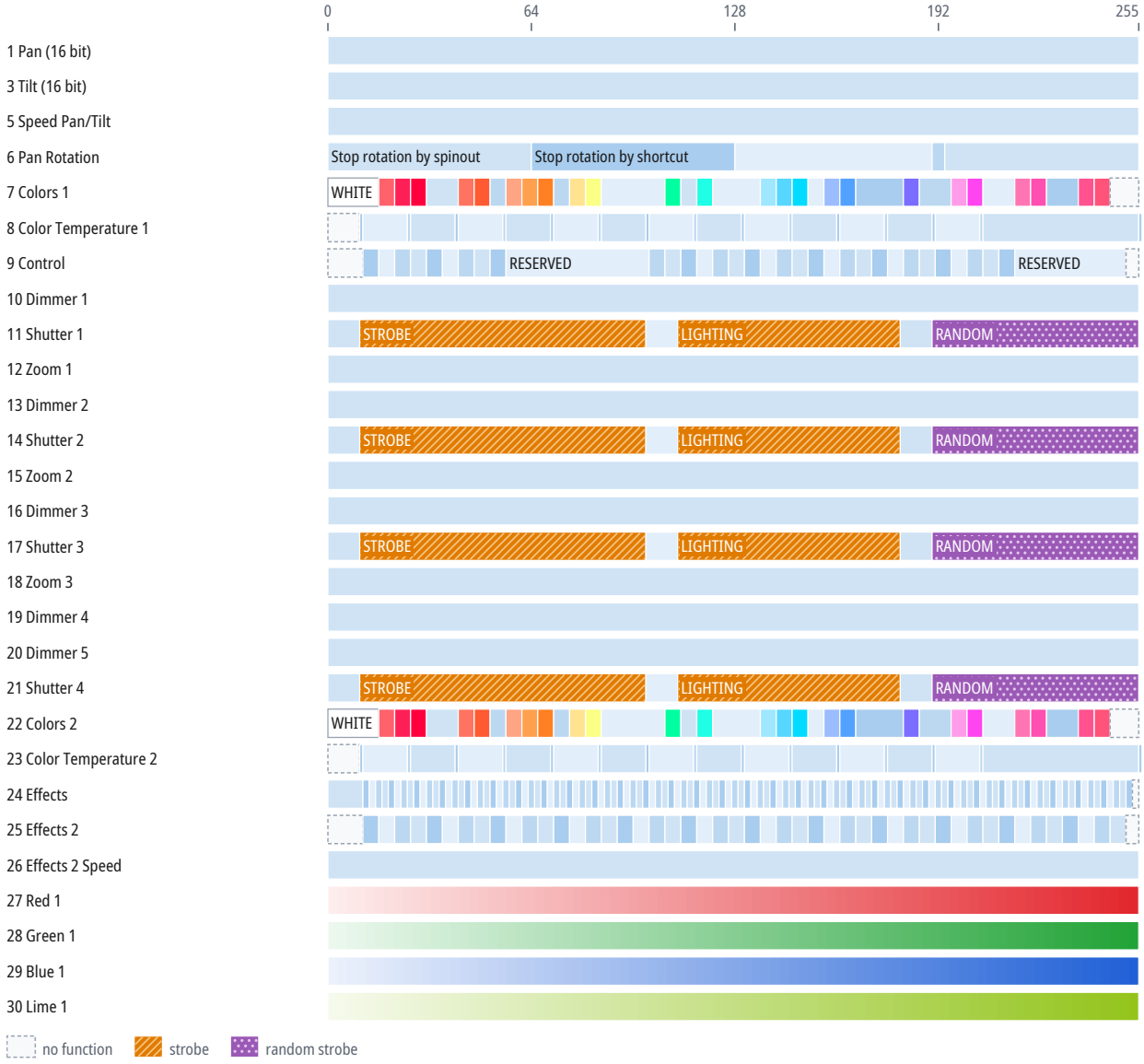
Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer	Cell	Dimmer
1	344	2	345	3	346	4	347	5	348	6	349
7	350	8	351	9	352	10	353	11	354	12	355
13	356	14	357	15	358	16	359	17	360	18	361
19	362	20	363	21	364	22	365	23	366	24	367
25	368	26	369	27	370	28	371	29	372	30	373
31	374	32	375	33	376	34	377	35	378	36	379
37	380	38	381	39	382	40	383	41	384	42	385
43	386	44	387	45	388	46	389	47	390	48	391

Mode PIXEL RGBL (154CH)

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 10 Dimmer 1 above 0; CH 13 Dimmer 2 above 0; CH 16 Dimmer 3 above 0; CH 19 Dimmer 4 above 0; CH 20 Dimmer 5 above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	
6	Pan Rotation		Same as CH 6 in the mode “PIXEL FULL(391CH)” (p. 12)
7	Colors 1		Same as CH 7 in the mode “PIXEL FULL(391CH)” (p. 12)

CH	Function	DMX	Description
8	Color Temperature 1		Same as CH 8 in the mode “PIXEL FULL(391CH)” (p. 13)
9	Control		Same as CH 9 in the mode “PIXEL FULL(391CH)” (p. 13)
10	Dimmer 1	0–255	
11	Shutter 1		Same as CH 11 in the mode “PIXEL FULL(391CH)” (p. 14)
12	Zoom 1	0–255	
13	Dimmer 2	0–255	
14	Shutter 2		Same as CH 14 in the mode “PIXEL FULL(391CH)” (p. 14)
15	Zoom 2	0–255	
16	Dimmer 3	0–255	
17	Shutter 3		Same as CH 17 in the mode “PIXEL FULL(391CH)” (p. 14)
18	Zoom 3	0–255	
19	Dimmer 4	0–255	
20	Dimmer 5	0–255	
21	Shutter 4		Same as CH 21 in the mode “PIXEL FULL(391CH)” (p. 15)
22	Colors 2		Same as CH 22 in the mode “PIXEL FULL(391CH)” (p. 15)
23	Color Temperature 2		Same as CH 23 in the mode “PIXEL FULL(391CH)” (p. 16)
24	Effects	0–10	STATIC PIXEL
		11–12	STATIC PIXEL 1
		13–14	STATIC PIXEL 2
		15–16	STATIC PIXEL 3
		17–18	STATIC PIXEL 4
		19–20	STATIC PIXEL 5
		21–22	STATIC PIXEL 6
		23–24	STATIC PIXEL 7
		25–26	STATIC PIXEL 8
		27–28	STATIC PIXEL 9
		29–30	STATIC PIXEL 10
		31–32	STATIC PIXEL 11
		33–34	STATIC PIXEL 12
		35–36	STATIC PIXEL 13
		37–38	STATIC PIXEL 14
		39–40	STATIC PIXEL 15
		41–42	STATIC PIXEL 16
		43–44	STATIC PIXEL 17
		45–46	STATIC PIXEL 18
		47–48	STATIC PIXEL 19
		49–50	STATIC PIXEL 20
		51–52	STATIC PIXEL 21
		53–54	STATIC PIXEL 22
		55–56	STATIC PIXEL 23
		57–58	STATIC PIXEL 24
		59–60	STATIC PIXEL 25

CH	Function	DMX	Description
24	Effects (continued)	61–62	STATIC PIXEL 26
		63–64	STATIC PIXEL 27
		65–66	STATIC PIXEL 28
		67–68	STATIC PIXEL 29
		69–70	STATIC PIXEL 30
		71–72	STATIC PIXEL 31
		73–74	STATIC PIXEL 32
		75–76	STATIC PIXEL 33
		77–78	STATIC PIXEL 34
		79–80	STATIC PIXEL 35
		81–82	STATIC PIXEL 36
		83–84	STATIC PIXEL 37
		85–86	STATIC PIXEL 38
		87–88	STATIC PIXEL 39
		89–90	STATIC PIXEL 40
		91–92	STATIC PIXEL 41
		93–94	STATIC PIXEL 42
		95–96	STATIC PIXEL 43
		97–98	STATIC PIXEL 44
		99–100	STATIC PIXEL 45
		101–102	STATIC PIXEL 46
		103–104	STATIC PIXEL 47
		105–106	STATIC PIXEL 48
		107–108	STATIC PIXEL 49
		109–110	STATIC PIXEL 50
		111–112	STATIC PIXEL 51
		113–114	STATIC PIXEL 52
		115–116	STATIC PIXEL 53
		117–118	STATIC PIXEL 54
		119–120	STATIC PIXEL 55
		121–122	STATIC PIXEL 56
		123–124	STATIC PIXEL 57
		125–126	STATIC PIXEL 58
		127–128	STATIC PIXEL 59
		129–130	STATIC PIXEL 60
		131–132	STATIC PIXEL 61
		133–134	STATIC PIXEL 62
		135–136	STATIC PIXEL 63
		137–138	STATIC PIXEL 64
		139–140	STATIC PIXEL 65
		141–142	STATIC PIXEL 66
		143–144	STATIC PIXEL 67

CH	Function	DMX	Description
24	Effects (continued)	145–146	STATIC PIXEL 68
		147–148	STATIC PIXEL 69
		149–150	STATIC PIXEL 70
		151–152	STATIC PIXEL 71
		153–154	STATIC PIXEL 72
		155–156	STATIC PIXEL 73
		157–158	STATIC PIXEL 74
		159–160	STATIC PIXEL 75
		161–162	STATIC PIXEL 76
		163–164	STATIC PIXEL 77
		165–166	STATIC PIXEL 78
		167–168	STATIC PIXEL 79
		169–170	STATIC PIXEL 80
		171–172	STATIC PIXEL 81
		173–174	STATIC PIXEL 82
		175–176	STATIC PIXEL 83
		177–178	STATIC PIXEL 84
		179–180	STATIC PIXEL 85
		181–182	STATIC PIXEL 86
		183–184	STATIC PIXEL 87
		185–186	STATIC PIXEL 88
		187–188	STATIC PIXEL 89
		189–190	STATIC PIXEL 90
		191–192	STATIC PIXEL 91
		193–194	STATIC PIXEL 92
		195–196	STATIC PIXEL 93
		197–198	STATIC PIXEL 94
		199–200	STATIC PIXEL 95
		201–202	STATIC PIXEL 96
		203–204	STATIC PIXEL 97
		205–206	STATIC PIXEL 98
		207–208	STATIC PIXEL 99
		209–210	STATIC PIXEL 100
		211–212	STATIC PIXEL 101
		213–214	STATIC PIXEL 102
		215–216	STATIC PIXEL 103
		217–218	STATIC PIXEL 104
		219–220	STATIC PIXEL 105
		221–222	STATIC PIXEL 106
		223–224	STATIC PIXEL 107
		225–226	STATIC PIXEL 108
		227–228	STATIC PIXEL 109

CH	Function	DMX	Description
24	Effects (continued)	229–230	STATIC PIXEL 110
		231–232	STATIC PIXEL 111
		233–234	STATIC PIXEL 112
		235–236	STATIC PIXEL 113
		237–238	STATIC PIXEL 114
		239–240	STATIC PIXEL 115
		241–242	STATIC PIXEL 116
		243–244	STATIC PIXEL 117
		245–246	STATIC PIXEL 118
		247–248	STATIC PIXEL 119
		249–250	STATIC PIXEL 120
		251–252	STATIC PIXEL 121
		253–255	NO FUNCTION
25	Effects 2	0–10	NO FUNCTION
		11–15	PIXEL EFFECT 1
		16–20	PIXEL EFFECT 2
		21–25	PIXEL EFFECT 3
		26–30	PIXEL EFFECT 4
		31–35	PIXEL EFFECT 5
		36–40	PIXEL EFFECT 6
		41–45	PIXEL EFFECT 7
		46–50	PIXEL EFFECT 8
		51–55	PIXEL EFFECT 9
		56–60	PIXEL EFFECT 10
		61–65	PIXEL EFFECT 11
		66–70	PIXEL EFFECT 12
		71–75	PIXEL EFFECT 13
		76–80	PIXEL EFFECT 14
		81–85	PIXEL EFFECT 15
		86–90	PIXEL EFFECT 16
		91–95	PIXEL EFFECT 17
		96–100	PIXEL EFFECT 18
		101–105	PIXEL EFFECT 19
		106–110	PIXEL EFFECT 20
		111–115	PIXEL EFFECT 21
		116–120	PIXEL EFFECT 22
		121–125	PIXEL EFFECT 23
		126–130	PIXEL EFFECT 24
		131–135	PIXEL EFFECT 25
		136–140	PIXEL EFFECT 26
		141–145	PIXEL EFFECT 27
		146–150	PIXEL EFFECT 28

CH	Function	DMX	Description
25	Effects 2 (continued)	151–155	PIXEL EFFECT 29
		156–160	PIXEL EFFECT 30
		161–165	PIXEL EFFECT 31
		166–170	PIXEL EFFECT 32
		171–175	PIXEL EFFECT 33
		176–180	PIXEL EFFECT 34
		181–185	PIXEL EFFECT 35
		186–190	PIXEL EFFECT 36
		191–195	PIXEL EFFECT 37
		196–200	PIXEL EFFECT 38
		201–205	PIXEL EFFECT 39
		206–210	PIXEL EFFECT 40
		211–215	PIXEL EFFECT 41
		216–220	PIXEL EFFECT 42
		221–225	PIXEL EFFECT 43
		226–230	PIXEL EFFECT 44
		231–235	PIXEL EFFECT 45
		236–240	PIXEL EFFECT 46
		241–245	PIXEL EFFECT 47
		246–250	PIXEL EFFECT 48
		251–255	NO FUNCTION
26	Effects 2 Speed	0–255	
27	Red 1	0–255	
28	Green 1	0–255	
29	Blue 1	0–255	
30	Lime 1	0–255	

CH 27–154: 32 cells of 4 channels each. Every cell works as cell 1 in the table above (CH 27–30); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Lime	Cell	Red	Green	Blue	Lime
1	27	28	29	30	2	31	32	33	34
3	35	36	37	38	4	39	40	41	42
5	43	44	45	46	6	47	48	49	50
7	51	52	53	54	8	55	56	57	58
9	59	60	61	62	10	63	64	65	66
11	67	68	69	70	12	71	72	73	74
13	75	76	77	78	14	79	80	81	82
15	83	84	85	86	16	87	88	89	90
17	91	92	93	94	18	95	96	97	98
19	99	100	101	102	20	103	104	105	106
21	107	108	109	110	22	111	112	113	114
23	115	116	117	118	24	119	120	121	122
25	123	124	125	126	26	127	128	129	130

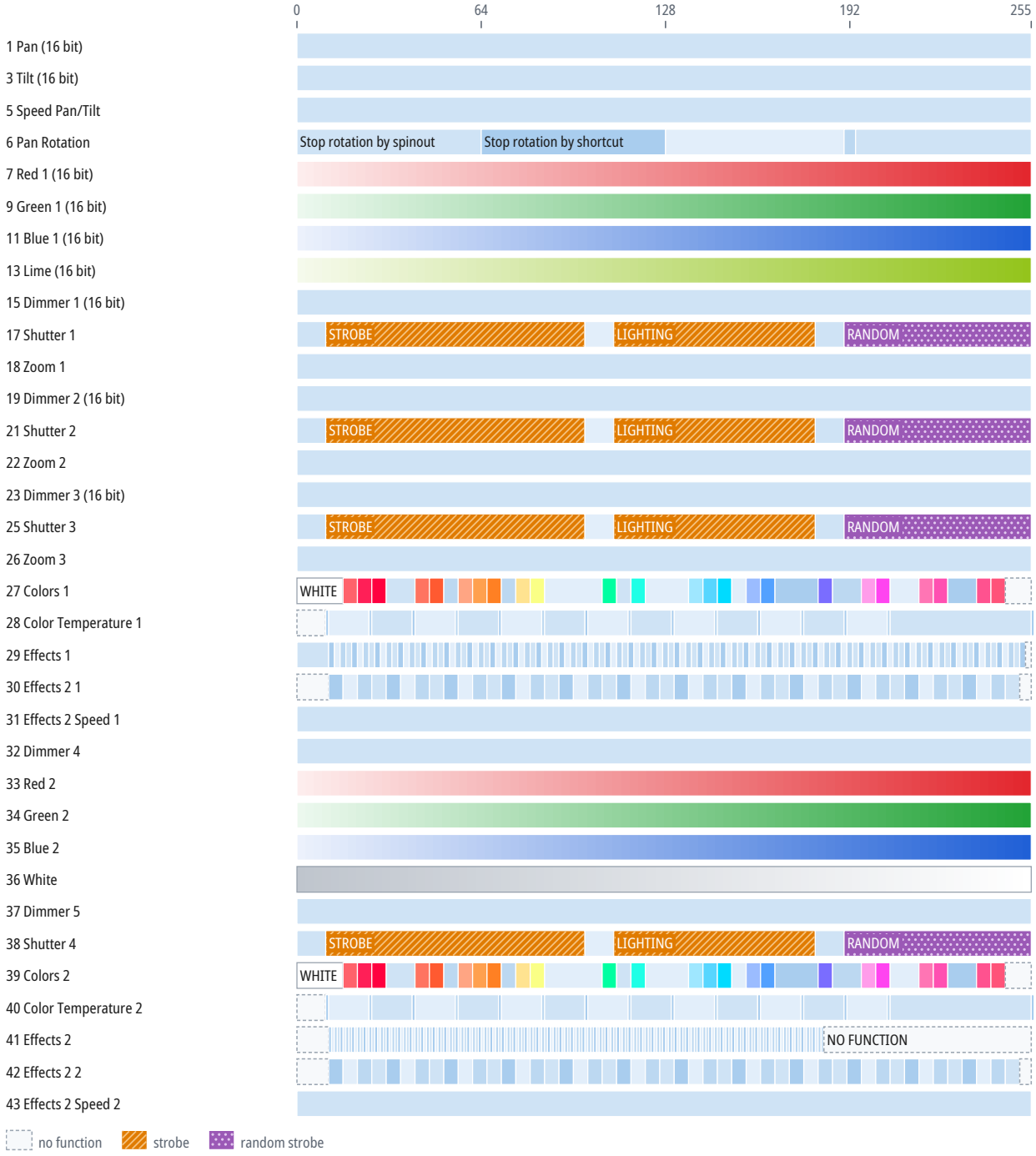
Cell	Red	Green	Blue	Lime	Cell	Red	Green	Blue	Lime
27	131	132	133	134	28	135	136	137	138
29	139	140	141	142	30	143	144	145	146
31	147	148	149	150	32	151	152	153	154

Mode TR16 (44CH)

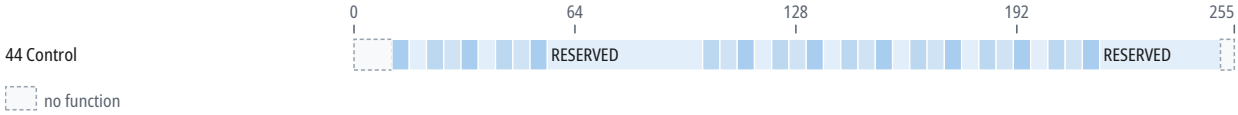
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 15 Dimmer 1 above 0; CH 19 Dimmer 2 above 0; CH 23 Dimmer 3 above 0; CH 32 Dimmer 4 above 0; CH 37 Dimmer 5 above 0.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	
6	Pan Rotation		Same as CH 6 in the mode “PIXEL FULL(391CH)” (p. 12)
7	Red 1	0–255	
8	Red 1 Fine	0–255	Fine adjustment of CH 7
9	Green 1	0–255	
10	Green 1 Fine	0–255	Fine adjustment of CH 9
11	Blue 1	0–255	
12	Blue 1 Fine	0–255	Fine adjustment of CH 11
13	Lime	0–255	
14	Lime Fine	0–255	Fine adjustment of CH 13
15	Dimmer 1	0–255	
16	Dimmer 1 Fine	0–255	Fine adjustment of CH 15
17	Shutter 1		Same as CH 11 in the mode “PIXEL FULL(391CH)” (p. 14)
18	Zoom 1	0–255	
19	Dimmer 2	0–255	
20	Dimmer 2 Fine	0–255	Fine adjustment of CH 19
21	Shutter 2		Same as CH 14 in the mode “PIXEL FULL(391CH)” (p. 14)
22	Zoom 2	0–255	
23	Dimmer 3	0–255	
24	Dimmer 3 Fine	0–255	Fine adjustment of CH 23
25	Shutter 3		Same as CH 17 in the mode “PIXEL FULL(391CH)” (p. 14)
26	Zoom 3	0–255	
27	Colors 1		Same as CH 7 in the mode “PIXEL FULL(391CH)” (p. 12)
28	Color Temperature 1		Same as CH 8 in the mode “PIXEL FULL(391CH)” (p. 13)
29	Effects 1	0–10	STATIC PIXEL
		11–12	STATIC PIXEL 1
		13–14	STATIC PIXEL 2
		15–16	STATIC PIXEL 3
		17–18	STATIC PIXEL 4
		19–20	STATIC PIXEL 5
		21–22	STATIC PIXEL 6
		23–24	STATIC PIXEL 7

CH	Function	DMX	Description
29	Effects 1 (continued)	25–26	STATIC PIXEL 8
		27–28	STATIC PIXEL 9
		29–30	STATIC PIXEL 10
		31–32	STATIC PIXEL 11
		33–34	STATIC PIXEL 12
		35–36	STATIC PIXEL 13
		37–38	STATIC PIXEL 14
		39–40	STATIC PIXEL 15
		41–42	STATIC PIXEL 16
		43–44	STATIC PIXEL 17
		45–46	STATIC PIXEL 18
		47–48	STATIC PIXEL 19
		49–50	STATIC PIXEL 20
		51–52	STATIC PIXEL 21
		53–54	STATIC PIXEL 22
		55–56	STATIC PIXEL 23
		57–58	STATIC PIXEL 24
		59–60	STATIC PIXEL 25
		61–62	STATIC PIXEL 26
		63–64	STATIC PIXEL 27
		65–66	STATIC PIXEL 28
		67–68	STATIC PIXEL 29
		69–70	STATIC PIXEL 30
		71–72	STATIC PIXEL 31
		73–74	STATIC PIXEL 32
		75–76	STATIC PIXEL 33
		77–78	STATIC PIXEL 34
		79–80	STATIC PIXEL 35
		81–82	STATIC PIXEL 36
		83–84	STATIC PIXEL 37
		85–86	STATIC PIXEL 38
		87–88	STATIC PIXEL 39
		89–90	STATIC PIXEL 40
		91–92	STATIC PIXEL 41
		93–94	STATIC PIXEL 42
		95–96	STATIC PIXEL 43
		97–98	STATIC PIXEL 44
		99–100	STATIC PIXEL 45
		101–102	STATIC PIXEL 46
		103–104	STATIC PIXEL 47
		105–106	STATIC PIXEL 48
		107–108	STATIC PIXEL 49

CH	Function	DMX	Description
29	Effects 1 (continued)	109–110	STATIC PIXEL 50
		111–112	STATIC PIXEL 51
		113–114	STATIC PIXEL 52
		115–116	STATIC PIXEL 53
		117–118	STATIC PIXEL 54
		119–120	STATIC PIXEL 55
		121–122	STATIC PIXEL 56
		123–124	STATIC PIXEL 57
		125–126	STATIC PIXEL 58
		127–128	STATIC PIXEL 59
		129–130	STATIC PIXEL 60
		131–132	STATIC PIXEL 61
		133–134	STATIC PIXEL 62
		135–136	STATIC PIXEL 63
		137–138	STATIC PIXEL 64
		139–140	STATIC PIXEL 65
		141–142	STATIC PIXEL 66
		143–144	STATIC PIXEL 67
		145–146	STATIC PIXEL 68
		147–148	STATIC PIXEL 69
		149–150	STATIC PIXEL 70
		151–152	STATIC PIXEL 71
		153–154	STATIC PIXEL 72
		155–156	STATIC PIXEL 73
		157–158	STATIC PIXEL 74
		159–160	STATIC PIXEL 75
		161–162	STATIC PIXEL 76
		163–164	STATIC PIXEL 77
		165–166	STATIC PIXEL 78
		167–168	STATIC PIXEL 79
		169–170	STATIC PIXEL 80
		171–172	STATIC PIXEL 81
		173–174	STATIC PIXEL 82
		175–176	STATIC PIXEL 83
		177–178	STATIC PIXEL 84
		179–180	STATIC PIXEL 85
		181–182	STATIC PIXEL 86
		183–184	STATIC PIXEL 87
		185–186	STATIC PIXEL 88
		187–188	STATIC PIXEL 89
		189–190	STATIC PIXEL 90
		191–192	STATIC PIXEL 91

CH	Function	DMX	Description
29	Effects 1 (continued)	193–194	STATIC PIXEL 92
		195–196	STATIC PIXEL 93
		197–198	STATIC PIXEL 94
		199–200	STATIC PIXEL 95
		201–202	STATIC PIXEL 96
		203–204	STATIC PIXEL 97
		205–206	STATIC PIXEL 98
		207–208	STATIC PIXEL 99
		209–210	STATIC PIXEL 100
		211–212	STATIC PIXEL 101
		213–214	STATIC PIXEL 102
		215–216	STATIC PIXEL 103
		217–218	STATIC PIXEL 104
		219–220	STATIC PIXEL 105
		221–222	STATIC PIXEL 106
		223–224	STATIC PIXEL 107
		225–226	STATIC PIXEL 108
		227–228	STATIC PIXEL 109
		229–230	STATIC PIXEL 110
		231–232	STATIC PIXEL 111
		233–234	STATIC PIXEL 112
		235–236	STATIC PIXEL 113
		237–238	STATIC PIXEL 114
		239–240	STATIC PIXEL 115
		241–242	STATIC PIXEL 116
		243–244	STATIC PIXEL 117
		245–246	STATIC PIXEL 118
		247–248	STATIC PIXEL 119
		249–250	STATIC PIXEL 120
		251–252	STATIC PIXEL 121
		253–255	NO FUNCTION
30	Effects 2 1	0–10	NO FUNCTION
		11–15	PIXEL EFFECT 1
		16–20	PIXEL EFFECT 2
		21–25	PIXEL EFFECT 3
		26–30	PIXEL EFFECT 4
		31–35	PIXEL EFFECT 5
		36–40	PIXEL EFFECT 6
		41–45	PIXEL EFFECT 7
		46–50	PIXEL EFFECT 8
		51–55	PIXEL EFFECT 9
		56–60	PIXEL EFFECT 10

CH	Function	DMX	Description
30	Effects 2 1 (continued)	61–65	PIXEL EFFECT 11
		66–70	PIXEL EFFECT 12
		71–75	PIXEL EFFECT 13
		76–80	PIXEL EFFECT 14
		81–85	PIXEL EFFECT 15
		86–90	PIXEL EFFECT 16
		91–95	PIXEL EFFECT 17
		96–100	PIXEL EFFECT 18
		101–105	PIXEL EFFECT 19
		106–110	PIXEL EFFECT 20
		111–115	PIXEL EFFECT 21
		116–120	PIXEL EFFECT 22
		121–125	PIXEL EFFECT 23
		126–130	PIXEL EFFECT 24
		131–135	PIXEL EFFECT 25
		136–140	PIXEL EFFECT 26
		141–145	PIXEL EFFECT 27
		146–150	PIXEL EFFECT 28
		151–155	PIXEL EFFECT 29
		156–160	PIXEL EFFECT 30
		161–165	PIXEL EFFECT 31
		166–170	PIXEL EFFECT 32
		171–175	PIXEL EFFECT 33
		176–180	PIXEL EFFECT 34
		181–185	PIXEL EFFECT 35
		186–190	PIXEL EFFECT 36
		191–195	PIXEL EFFECT 37
		196–200	PIXEL EFFECT 38
		201–205	PIXEL EFFECT 39
		206–210	PIXEL EFFECT 40
		211–215	PIXEL EFFECT 41
		216–220	PIXEL EFFECT 42
		221–225	PIXEL EFFECT 43
		226–230	PIXEL EFFECT 44
		231–235	PIXEL EFFECT 45
		236–240	PIXEL EFFECT 46
		241–245	PIXEL EFFECT 47
		246–250	PIXEL EFFECT 48
		251–255	NO FUNCTION
31	Effects 2 Speed 1	0–255	
32	Dimmer 4	0–255	
33	Red 2	0–255	

CH	Function	DMX	Description
34	Green 2	0–255	
35	Blue 2	0–255	
36	White	0–255	
37	Dimmer 5	0–255	
38	Shutter 4		Same as CH 21 in the mode “PIXEL FULL(391CH)” (p. 15)
39	Colors 2		Same as CH 22 in the mode “PIXEL FULL(391CH)” (p. 15)
40	Color Temperature 2		Same as CH 23 in the mode “PIXEL FULL(391CH)” (p. 16)
41	Effects 2	0–10	NO FUNCTION
		11–131	FX STATIC PIXEL 1...121
		132–182	FX STATIC PIXEL 123...173
		183–255	NO FUNCTION
42	Effects 2 2	0–10	NO FUNCTION
		11–15	FX PIXEL EFFECT 1
		16–20	FX PIXEL EFFECT 2
		21–25	FX PIXEL EFFECT 3
		26–30	FX PIXEL EFFECT 4
		31–35	FX PIXEL EFFECT 5
		36–40	FX PIXEL EFFECT 6
		41–45	FX PIXEL EFFECT 7
		46–50	FX PIXEL EFFECT 8
		51–55	FX PIXEL EFFECT 9
		56–60	FX PIXEL EFFECT 10
		61–65	FX PIXEL EFFECT 11
		66–70	FX PIXEL EFFECT 12
		71–75	FX PIXEL EFFECT 13
		76–80	FX PIXEL EFFECT 14
		81–85	FX PIXEL EFFECT 15
		86–90	FX PIXEL EFFECT 16
		91–95	FX PIXEL EFFECT 17
		96–100	FX PIXEL EFFECT 18
		101–105	FX PIXEL EFFECT 19
		106–110	FX PIXEL EFFECT 20
		111–115	FX PIXEL EFFECT 21
		116–120	FX PIXEL EFFECT 22
		121–125	FX PIXEL EFFECT 23
		126–130	FX PIXEL EFFECT 24
		131–135	FX PIXEL EFFECT 25
		136–140	FX PIXEL EFFECT 26
		141–145	FX PIXEL EFFECT 27
		146–150	FX PIXEL EFFECT 28
		151–155	FX PIXEL EFFECT 29
		156–160	FX PIXEL EFFECT 30

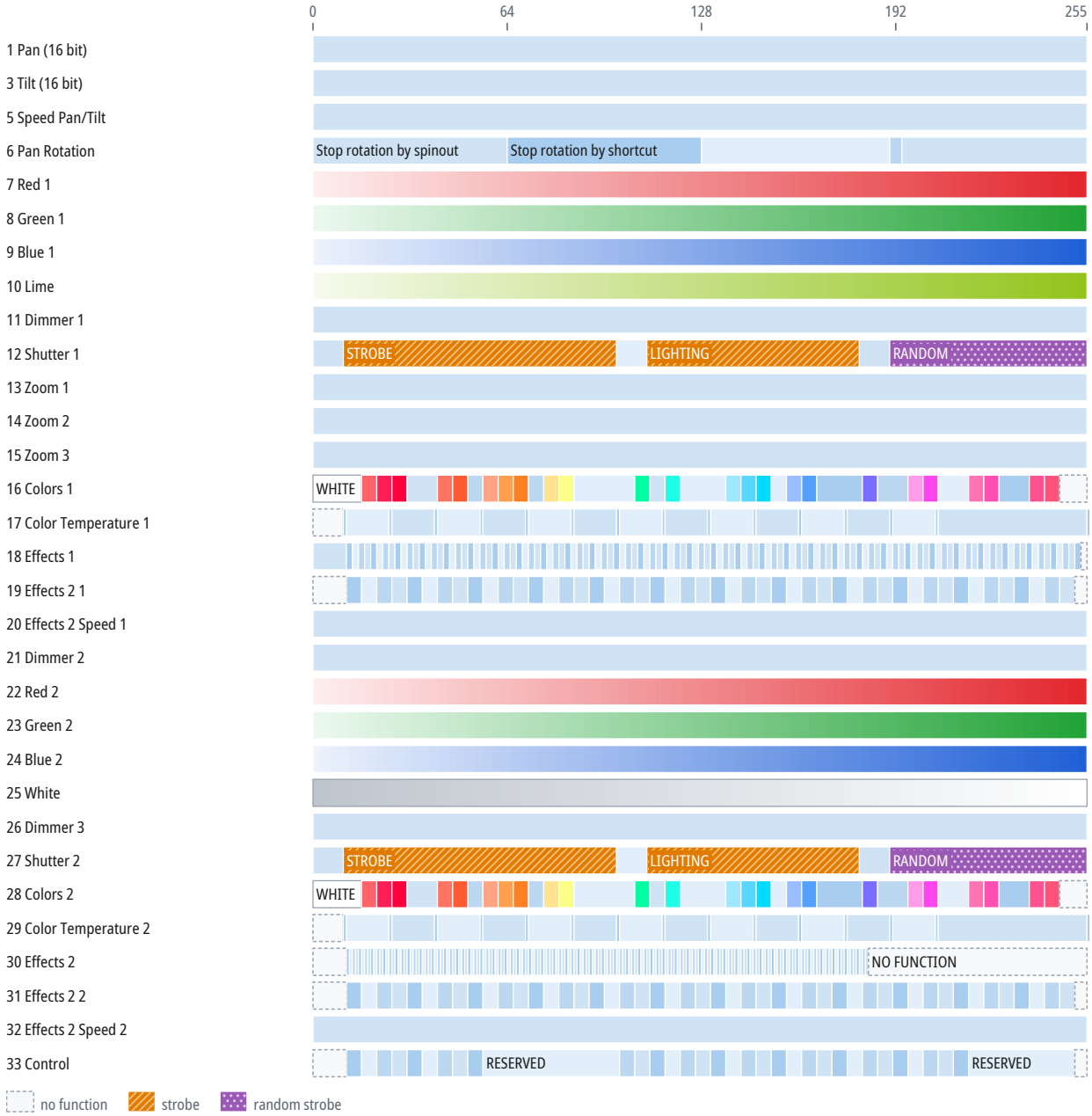
CH	Function	DMX	Description
42	Effects 2 2 (continued)	161–165	FX PIXEL EFFECT 31
		166–170	FX PIXEL EFFECT 32
		171–175	FX PIXEL EFFECT 33
		176–180	FX PIXEL EFFECT 34
		181–185	FX PIXEL EFFECT 35
		186–190	FX PIXEL EFFECT 36
		191–195	FX PIXEL EFFECT 37
		196–200	FX PIXEL EFFECT 38
		201–205	FX PIXEL EFFECT 39
		206–210	FX PIXEL EFFECT 40
		211–215	FX PIXEL EFFECT 41
		216–220	FX PIXEL EFFECT 42
		221–225	FX PIXEL EFFECT 43
		226–230	FX PIXEL EFFECT 44
		231–235	FX PIXEL EFFECT 45
		236–240	FX PIXEL EFFECT 46
		241–245	FX PIXEL EFFECT 47
		246–250	FX PIXEL EFFECT 48
		251–255	NO FUNCTION
43	Effects 2 Speed 2	0–255	
44	Control		Same as CH 9 in the mode “PIXEL FULL(391CH)” (p. 13)

Mode TOUR (33CH)

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 11 Dimmer 1 above 0; CH 21 Dimmer 2 above 0; CH 26 Dimmer 3 above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	

CH	Function	DMX	Description
6	Pan Rotation		Same as CH 6 in the mode “PIXEL FULL(391CH)” (p. 12)
7	Red 1	0–255	
8	Green 1	0–255	
9	Blue 1	0–255	
10	Lime	0–255	
11	Dimmer 1	0–255	
12	Shutter 1		Same as CH 11 in the mode “PIXEL FULL(391CH)” (p. 14)
13	Zoom 1	0–255	
14	Zoom 2	0–255	
15	Zoom 3	0–255	
16	Colors 1		Same as CH 7 in the mode “PIXEL FULL(391CH)” (p. 12)
17	Color Temperature 1		Same as CH 8 in the mode “PIXEL FULL(391CH)” (p. 13)
18	Effects 1		Same as CH 29 in the mode “TR16 (44CH)” (p. 27)
19	Effects 2 1		Same as CH 30 in the mode “TR16 (44CH)” (p. 30)
20	Effects 2 Speed 1	0–255	
21	Dimmer 2	0–255	
22	Red 2	0–255	
23	Green 2	0–255	
24	Blue 2	0–255	
25	White	0–255	
26	Dimmer 3	0–255	
27	Shutter 2		Same as CH 14 in the mode “PIXEL FULL(391CH)” (p. 14)
28	Colors 2		Same as CH 22 in the mode “PIXEL FULL(391CH)” (p. 15)
29	Color Temperature 2		Same as CH 23 in the mode “PIXEL FULL(391CH)” (p. 16)
30	Effects 2		Same as CH 41 in the mode “TR16 (44CH)” (p. 32)
31	Effects 2 2		Same as CH 42 in the mode “TR16 (44CH)” (p. 32)
32	Effects 2 Speed 2	0–255	
33	Control		Same as CH 9 in the mode “PIXEL FULL(391CH)” (p. 13)

Mode SSP (21CH)

If the device receives DMX in this mode but gives no light, check these channels: CH 9 Dimmer 1 above 0; CH 14 Dimmer 2 above 0; CH 19 Dimmer 3 above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	
2	Tilt	0–255	
3	Speed Pan/Tilt	0–255	
4	Pan Rotation		Same as CH 6 in the mode “PIXEL FULL(391CH)” (p. 12)
5	Red 1	0–255	
6	Green 1	0–255	
7	Blue 1	0–255	
8	Lime	0–255	
9	Dimmer 1	0–255	
10	Shutter 1		Same as CH 11 in the mode “PIXEL FULL(391CH)” (p. 14)
11	Zoom 1	0–255	
12	Zoom 2	0–255	
13	Zoom 3	0–255	
14	Dimmer 2	0–255	
15	Red 2	0–255	

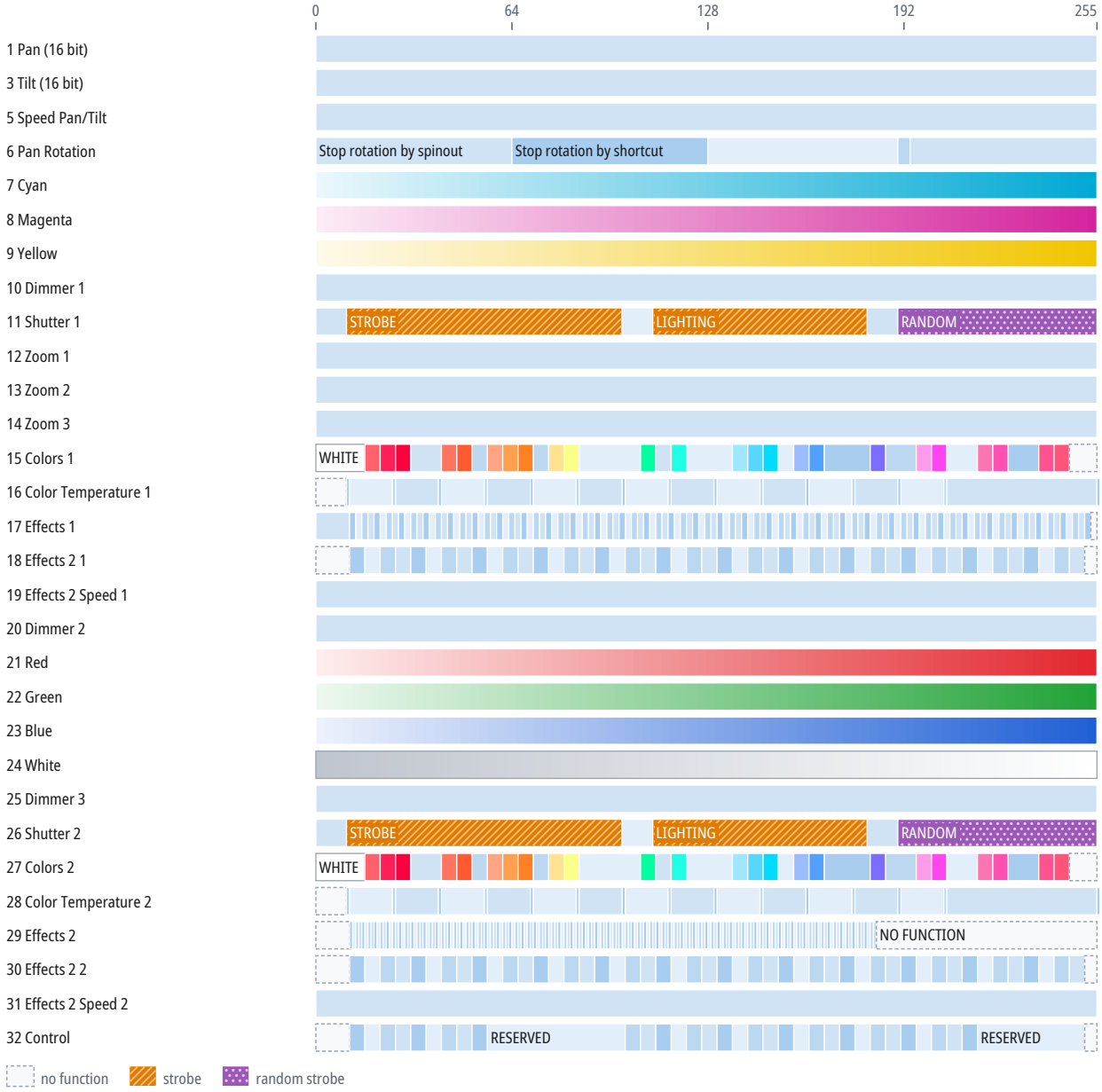
CH	Function	DMX	Description
16	Green 2	0–255	
17	Blue 2	0–255	
18	White	0–255	
19	Dimmer 3	0–255	
20	Shutter 2		Same as CH 14 in the mode “PIXEL FULL(391CH)” (p. 14)
21	Control		Same as CH 9 in the mode “PIXEL FULL(391CH)” (p. 13)

Mode CMY (32CH)

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 10 Dimmer 1 above 0; CH 20 Dimmer 2 above 0; CH 25 Dimmer 3 above 0.

Channel functions at a glance



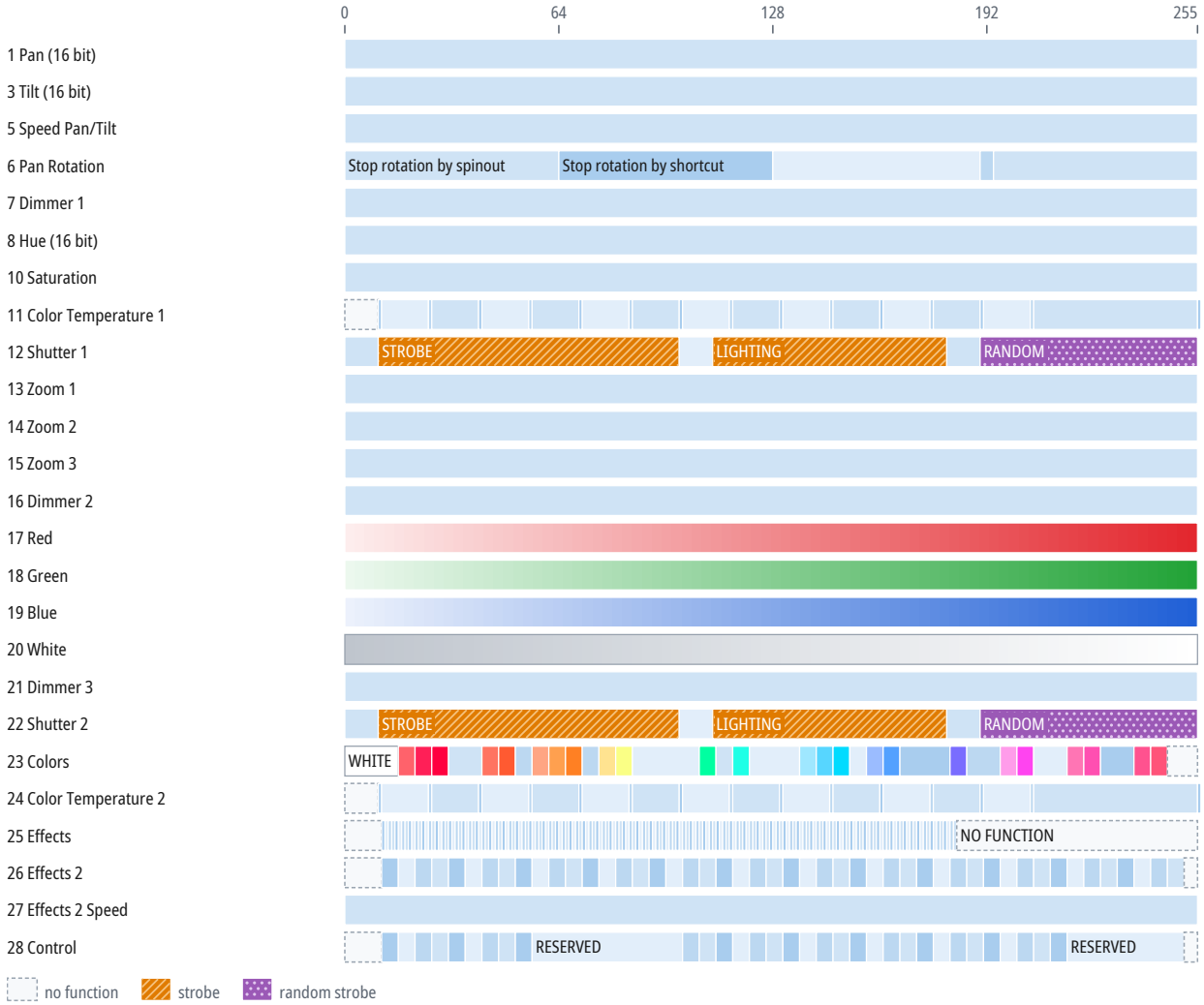
CH	Function	DMX	Description
1	Pan	0–255	
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	
6	Pan Rotation		Same as CH 6 in the mode “PIXEL FULL(391CH)” (p. 12)
7	Cyan	0–255	
8	Magenta	0–255	
9	Yellow	0–255	
10	Dimmer 1	0–255	
11	Shutter 1		Same as CH 11 in the mode “PIXEL FULL(391CH)” (p. 14)
12	Zoom 1	0–255	
13	Zoom 2	0–255	
14	Zoom 3	0–255	
15	Colors 1		Same as CH 7 in the mode “PIXEL FULL(391CH)” (p. 12)
16	Color Temperature 1		Same as CH 8 in the mode “PIXEL FULL(391CH)” (p. 13)
17	Effects 1		Same as CH 29 in the mode “TR16 (44CH)” (p. 27)
18	Effects 2 1		Same as CH 30 in the mode “TR16 (44CH)” (p. 30)
19	Effects 2 Speed 1	0–255	
20	Dimmer 2	0–255	
21	Red	0–255	
22	Green	0–255	
23	Blue	0–255	
24	White	0–255	
25	Dimmer 3	0–255	
26	Shutter 2		Same as CH 14 in the mode “PIXEL FULL(391CH)” (p. 14)
27	Colors 2		Same as CH 22 in the mode “PIXEL FULL(391CH)” (p. 15)
28	Color Temperature 2		Same as CH 23 in the mode “PIXEL FULL(391CH)” (p. 16)
29	Effects 2		Same as CH 41 in the mode “TR16 (44CH)” (p. 32)
30	Effects 2 2		Same as CH 42 in the mode “TR16 (44CH)” (p. 32)
31	Effects 2 Speed 2	0–255	
32	Control		Same as CH 9 in the mode “PIXEL FULL(391CH)” (p. 13)

Mode HSIC (28CH)

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 1 above 0; CH 16 Dimmer 2 above 0; CH 21 Dimmer 3 above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	
6	Pan Rotation		Same as CH 6 in the mode “PIXEL FULL(391CH)” (p. 12)
7	Dimmer 1	0–255	
8	Hue	0–255	
9	Hue Fine	0–255	Fine adjustment of CH 8
10	Saturation	0–255	
11	Color Temperature 1		Same as CH 8 in the mode “PIXEL FULL(391CH)” (p. 13)

CH	Function	DMX	Description
12	Shutter 1		Same as CH 11 in the mode “PIXEL FULL(391CH)” (p. 14)
13	Zoom 1	0–255	
14	Zoom 2	0–255	
15	Zoom 3	0–255	
16	Dimmer 2	0–255	
17	Red	0–255	
18	Green	0–255	
19	Blue	0–255	
20	White	0–255	
21	Dimmer 3	0–255	
22	Shutter 2		Same as CH 14 in the mode “PIXEL FULL(391CH)” (p. 14)
23	Colors	0–15	WHITE
		16–20	R40
		21–25	L24
		26–30	L164
		31–40	L164 ... L08
		41–45	L08
		46–50	L25
		51–55	L25 ... L237
		56–60	L237
		61–65	R321
		66–70	L652
		71–75	L652 ... L765
		76–80	L765
		81–85	L513
		86–105	L513 ... L90
		106–110	L90
		111–115	L90 ... R92
		116–120	R92
		121–135	R92 ... L728
		136–140	L728
		141–145	L117
		146–150	L354
		151–155	L354 ... L501
		156–160	L501
		161–165	L174
		166–180	L174 ... L142
		181–185	L142
		186–195	L142 ... L794
		196–200	L794
		201–205	L328
		206–215	L328 ... L127

CH	Function	DMX	Description
23	Colors (continued)	216–220	L127
		221–225	L192
		226–235	L192 ... L157
		236–240	L157
		241–245	R332
		246–255	NO FUNCTION
24	Color Temperature 2		Same as CH 23 in the mode “PIXEL FULL(391CH)” (p. 16)
25	Effects	0–10	NO FUNCTION
		11–131	FX STATIC PIXEL 1...121
		132–182	FX STATIC PIXEL 123...173
		183–255	NO FUNCTION
26	Effects 2	0–10	NO FUNCTION
		11–15	FX PIXEL EFFECT 1
		16–20	FX PIXEL EFFECT 2
		21–25	FX PIXEL EFFECT 3
		26–30	FX PIXEL EFFECT 4
		31–35	FX PIXEL EFFECT 5
		36–40	FX PIXEL EFFECT 6
		41–45	FX PIXEL EFFECT 7
		46–50	FX PIXEL EFFECT 8
		51–55	FX PIXEL EFFECT 9
		56–60	FX PIXEL EFFECT 10
		61–65	FX PIXEL EFFECT 11
		66–70	FX PIXEL EFFECT 12
		71–75	FX PIXEL EFFECT 13
		76–80	FX PIXEL EFFECT 14
		81–85	FX PIXEL EFFECT 15
		86–90	FX PIXEL EFFECT 16
		91–95	FX PIXEL EFFECT 17
		96–100	FX PIXEL EFFECT 18
		101–105	FX PIXEL EFFECT 19
		106–110	FX PIXEL EFFECT 20
		111–115	FX PIXEL EFFECT 21
		116–120	FX PIXEL EFFECT 22
		121–125	FX PIXEL EFFECT 23
		126–130	FX PIXEL EFFECT 24
		131–135	FX PIXEL EFFECT 25
		136–140	FX PIXEL EFFECT 26
		141–145	FX PIXEL EFFECT 27
		146–150	FX PIXEL EFFECT 28
		151–155	FX PIXEL EFFECT 29
		156–160	FX PIXEL EFFECT 30

CH	Function	DMX	Description
26	Effects 2 (continued)	161–165	FX PIXEL EFFECT 31
		166–170	FX PIXEL EFFECT 32
		171–175	FX PIXEL EFFECT 33
		176–180	FX PIXEL EFFECT 34
		181–185	FX PIXEL EFFECT 35
		186–190	FX PIXEL EFFECT 36
		191–195	FX PIXEL EFFECT 37
		196–200	FX PIXEL EFFECT 38
		201–205	FX PIXEL EFFECT 39
		206–210	FX PIXEL EFFECT 40
		211–215	FX PIXEL EFFECT 41
		216–220	FX PIXEL EFFECT 42
		221–225	FX PIXEL EFFECT 43
		226–230	FX PIXEL EFFECT 44
		231–235	FX PIXEL EFFECT 45
		236–240	FX PIXEL EFFECT 46
		241–245	FX PIXEL EFFECT 47
		246–250	FX PIXEL EFFECT 48
		251–255	NO FUNCTION
27	Effects 2 Speed	0–255	
28	Control		Same as CH 9 in the mode “PIXEL FULL(391CH)” (p. 13)

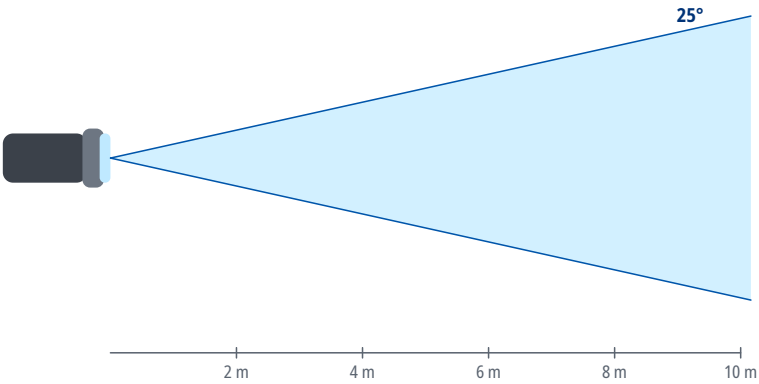
9 Technical specifications

Parameter	Value
Light	
Light source	LED
Control	
DMX connection	5-pin XLR IN/OUT, 3-pin XLR IN/OUT
RJ45 connectors	RJ45 IN
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	850 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	38 kg
Operating environment	
Operating temperature	-20 to 45 °C

Speeds and ranges

Parameter	Value
Strobe frequency	1–25 Hz

Spot diameter



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

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

10 Maintenance and cleaning

- Before cleaning and maintenance, switch the device off, disconnect it from the power supply and let it cool down.
- Clean the housing with a soft, dry or slightly damp cloth. Do not use solvents, abrasive cleaners or pressure washers, and make sure no liquid gets into the device.
- Clean optical parts (lenses, front glass), if the device has any, with a soft lint-free cloth and a cleaner intended for optics or glass.
- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much

faster.

11 Troubleshooting

Problem	Remedy
The device does not switch on	Check the supply voltage, the cables and the fuse, if the device has one.
The device does not respond to DMX	Check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe).
The device behaves erratically or flickers	Check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter.
Only some devices on the line respond	Check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on.
Devices respond to the wrong channels or affect each other	Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
The device or the connected load does not light up although it receives DMX	Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open.
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.

12 Disposal

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

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

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

Recycle the packaging materials according to their type.