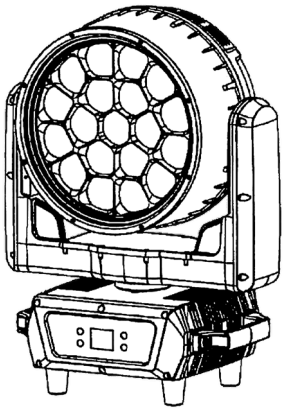
series Art by FLASH

USER MANUAL

WashFX 1000 IP65 CRMX



CONTENTS

CONTENTS 2
INTRODUCTION 2
SAFETY INFORMATION 3
UNPACKING 4
INSTALATION 5
CONNECTION 6
DMX CHART 8
MENU OVERVIEW 73
DRAWINGS 74
PHOTOMETRICS 75
SPECIFICATION 84

INTRODUCTION

We are glad that you have chosen the **Flash ART WashFX 1000 IP65 CRMX**, thereby expanding your lighting equipment inventory.
We hope that this device will meet your expectations and inspire creativity in your future lighting projects.

FOR SAFETY REASONS AND TO ENSURE TROUBLE-FREE OPERATION, PLEASE READ THIS MANUAL CAREFULLY.

SAFETY INFORMATION



WARNING! The Led Moving Head (LMH) has a powerful pan and tilt motor. The torque reaction when the head is panned suddenly can cause the base to move if the fixture is standing unsecured on a surface. Do not apply power to the LMH unless the baase is securely fastened to a surface or to rigging hardware.

WARNING! Use 2 clamps to rig the fixture. Do not hang the fixture from only one clamp. Use safety chain when fixes this fixture. Don't handle the fixture by taking its head only, but always by taking its base.



WARNING! When clamping the fixture to a truss or other structure at any other angle than with the yoke hanging vertically downwards, use two clamps of half-coupler type. Do not use any type of clamp that does not completely encircle the structure when fastened.

WARNING! Do not look directly at the light spot while the fixture is on.

IMPORTANT! Do not point strong light output from other fixtures at the lamp, as intense illumination can damaged the display.



WARNING! Before operating, ensure that the voltage and frequency of power supply match the power requirements of the fixture. It's important to ground the yellow/green conductor to earth in order to avoid electric shock. Do not touch any wire during operation and there might be a hazard of electric shock. To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.

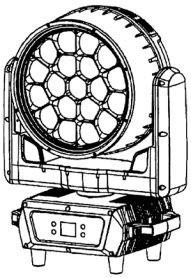
Do not connect the device to any dimmer pack.

IMPORTANT! Unpack and check carefully there is no transportation damage before using the fixture. In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts. Disconnect main power before servicing and maintenance. The housing must be replaced if they are visibly damaged.



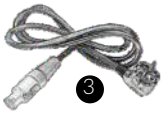
IMPORTANT! Maximum ambient temperature is: 40°C Don't operate it where the temperature is higher than this.

UNPACKING





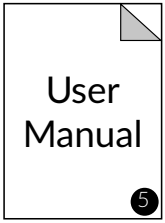
2



3



4



The following item

are included inside the box:

1 - ART WashFX 1000 IP65 (1pc)

2 - DMX cable (1pc)

3 - powerCON TRUE1 cable (1pc)

4 - Sa fety cable (1pc)

5 - User manual (1pc)

Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.

INSTALATION

The ART WashFX 1000 IP65 device has integrated mounting brackets for hanging the device on a structure. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture. The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it. flown above the ground. Rig the fixture to a support truss or structure using the supplied brackets and suitable clamps.

Fasten a safety cable between the support structure and the attachment point on the fixture. The safety cable must be able to bear at least 10 times the weight of the fixture.

The fixture may be installed in any orientation, but if installed horizontally with a downward beam-angle, water can potentially pool in the fan wells. Under normal operation the moisture will evaporate. However, in locations with high rainfall, you may wish to fabricate a rain shield above the fixture, or modify the position and orientation of the fixture to minimize pooling.

Regardless of which mounting option you have chosen for our device, always remember to secure the device with a security cable. The fixture provides a built-in security cable attachment point on the hanging bracket as shown above. Remember to only use the designated safety cable attachment point and never attach the safety cable to the carrying handle.

IMPORTANT: If any slack is detected between the hook and the device, immediately tighten mounting screws or skip the device during installation.

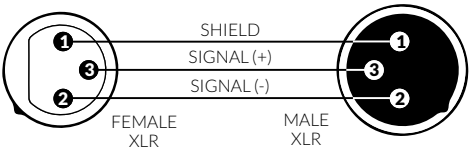
CONNECTION

The device is equipped with the following interfaces:

1. DMX (in/out): XLR 3-pin socket

2. Power (in/out): powerCON TRUE1 socket

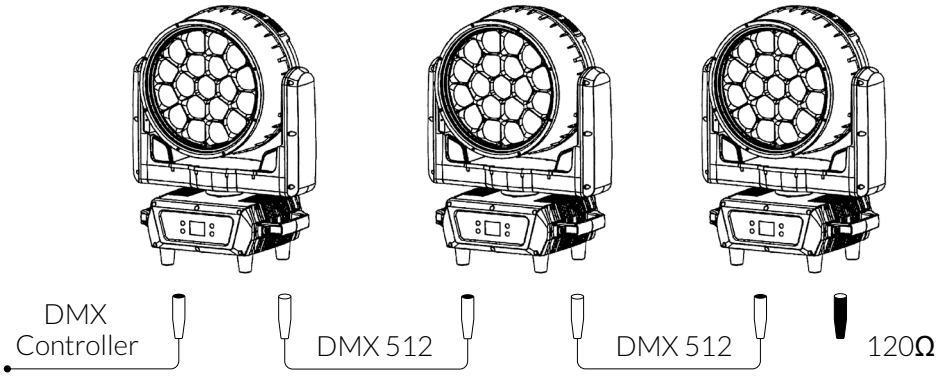
The connection is performed using cable with XLR-female -> XLR-Male plugs.



3-PIN XLR

CAUTION! At the last fixture, the DMX signal has to be terminated with a terminator. Solder a 120Ω resistor between signal (-) and signal (+) into a XLR plug and plug it in the DMX output of the last fixture.

Diagram of connection of devices by DMX cable



The connection is performed using power cable with powerCON connector (included). The device must be operated by qualified personnel.

CAUTION! In the case of cable damage do not attempt to repair. Replacement or repair can be made only on the manufacturer or by a person with appropriate permissions

Using lamp, the change rate of power voltage should be within ±10%, if the voltage is too high, it will shorten the light's life; if it's not enough, the lamp will be dark. Please restart it after turning off light for 20 minutes until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.

IMPORTANT! The maximum number of devices connected in series via power cable is 3 pcs.

Voltage Specyfication

Input Voltage AC	Amperage	Frequency	Total Power
230 [V]	4.35 [A]	50 [Hz]	1000 [W]
110 [V]	9.1 [A]	60 [Hz]	

Set DMX Address

- Enter the MENU.
- The UP arrow changes the number. DOWN arrow moves forward.
- Press MENU to set DMX Address, and press ENTER to enter into.
- Set needed DMX Address using the UP and DOWN buttons.
- Set needed DMX mode.
- Set needed dimming curve.
- Press ENTER each time to confirm.
- Press the MENU to exit. The changes will be noticed after exiting the MENU.

W-DMX / CRMX linking

- Enter the MENU
- Change Running mode/Control to Wireles
- Set Settings/W-DMX unling YES to unlink present connection
- Press linking on your Transmiter
- If needed send signal thru DMX set Settings/W-DMX to DMX YES

List of all modes

STAND - 21 channels
SHAPE - 35 channels
SHAPEo - 45 channels - shape + outline
RINGS - 38 channels
RINGo - 48 channels - rings + outline

Pixel mappings modes

ST1px - 78 channels - standard + pixel engine RGB
ST1pxO - 88 channels - standard + pixel engine RGB + outline
ST2px - 97 channels - standard + pixel engine RGBW
ST2pxO - 107 channels - standard + outline + pixel engine RGBW

SH1px - 92ch - shapes + pixel engine RGB
SH1pxO - 102ch - shapes + outline + pixel engine RGB
SH2px - 111ch - shapes + pixel engine RGBW
SH2pxO - 121ch - shapes + pixel engine RGBW

R1px - 95 channels - rings + pixel engine RGB
R1pxO - 105 channels - rings + pixel engine RGB
R2px - 114 channels - rings + pixel engine RGBW
R2pxO - 124 channels - rings + outline + pixel engine RGBW

STAND - 21 channels

Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255

14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function ***Dimmer fast** Dimmer smooth No function	0	-
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-

SHAPE - 35 channels					
Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255

3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square	0	-

		58-190 191-192 193-194 195-255 0-25	No function ***Dimmer fast** Dimmer smooth No function No function		
19	Control	26-76 77-127 128-255	Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Shape selection	0-7 8 9 ... 70 71-255	Open Shape 1 Shape 2 ... Shape 63 No function	0	-
23	Shape speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
24	Shape fade	0-255		0	-
25	Shape Red	0-255	Shape red intensity	255	255
26	Shape Green	0-255	Shape green intensity	255	255
27	Shape Blue	0-255	Shape blue intensity	255	255
28	Shape White	0-255	Shape white intensity	0	0
29	Shape Dimmer	0-255	Shape dimmer	255	255
30	Background dimmer	0-255	Background dimmer	255	255

31	Shape transition	0-255	Time between changes the shapes	0	0
32	Shape offset	0-255	Start position the shape	0	-
33	Shape shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
34	Background shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
35	Background selection	0-8 9 10 ... 23 24-255	Open Shape 1 Shape 2 ... Shape 15 No function	0	-

SHAPEo - 45 channels					
Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255

4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-190 191-192	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function ***Dimmer fast**	0	-

		193-194 195-255	Dimmer smooth No function		
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Shape selection	0-7 8 9 ... 70 71-255	Open Shape 1 Shape 2 ... Shape 63 No function	0	-
23	Shape speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
24	Shape fade	0-255		0	-
25	Shape Red	0-255	Shape red intensity	255	255
26	Shape Green	0-255	Shape green intensity	255	255
27	Shape Blue	0-255	Shape blue intensity	255	255
28	Shape White	0-255	Shape white intensity	0	0
29	Shape Dimmer	0-255	Shape dimmer	255	255
30	Background dimmer	0-255	Background dimmer	255	255
31	Shape	0-255	Time between changes the	0	0

	transition		shapes		
32	Shape offset	0-255	Start position the shape	0	-
33	Shape shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
34	Background shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
35	Background selection	0-8 9 10 ... 23 24-255	Open Shape 1 Shape 2 ... Shape 15 No function	0	-
36	Ring dimmer	0-255	Ring dimmer	255	255
37	Ring shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
38	Ring red 1	0-255		255	255
39	Ring green 1	0-255		255	255
40	Ring blue 1	0-255		255	255
41	Ring macro	0-10	Open	0	0

		11 12 ... 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75-150 151-200 201-255	Shape 1 Shape 2 ... Shape 40 Color white all White 7000K White 6500K White 6000K White 5600K White 5000K White 4500K White 4200K White 4000K White 3500K White 3000K White 2800K Color red Color orange Color yellow Color fern green Color green Color sea green Color cyan Color lavender Color blue Color violet Color magenta Color pink Color white all Color change fade Color change chase		
42	Ring macro speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
43	Ring Red 2	0-255		0	-
44	Ring Green 2	0-255		0	-
45	Ring Blue 3	0-255		0	-

RINGS - 38 channels

Zone 1 - pixel 1
Zone 2 - pixels 2-7
Zone 3 - pixels 8-19

Ch	Function	Value	Description	Default	Highlight / locate
1	Pan	0-255	Pan	127	-
2	Pan fine	0-255	Pan fine	127	-
3	Tilt	0-255	Tilt	127	-
4	Tilt fine	0-255	Tilt fine	127	-
5	P/T speed	0-255	P/T speed fast - slow	0	-
6	Control (*default values)	0-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25 26-76 77-127 128-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function ***Dimmer fast** Dimmer smooth No function Zoom reset P/T reset Total reset	0	-
7	Red 1	0-255	Zone 1 - red	255	255
8	Red 1 fine	0-255	Zone 1 - red fine	255	255
9	Green 1	0-255	Zone 1 - green	255	255
10	Green 1 fine	0-255	Zone 1 - green fine	255	255
11	Blue 1	0-255	Zone 1 - blue	255	255

12	Blue 1 fine	0-255	Zone 1 - blue fine	255	255
13	White 1	0-255	Zone 1 - white	0	255
14	White 1 fine	0-255	Zone 1 - white fine	0	255
15	Red 2	0-255	Zone 2 - red	255	255
16	Red 2 fine	0-255	Zone 2 - red fine	255	255
17	Green 2	0-255	Zone 2 - green	255	255
18	Green 2 fine	0-255	Zone 2 - green fine	255	255
19	Blue 2	0-255	Zone 2 - blue	255	255
20	Blue 2 fine	0-255	Zone 2 - blue fine	255	255
21	White 2	0-255	Zone 2 - white	0	255
22	White 2 fine	0-255	Zone 2 - white fine	0	255
23	Red 3	0-255	Zone 3 - red	255	255
24	Red 3 fine	0-255	Zone 3 - red fine	255	255
25	Green 3	0-255	Zone 3 - green	255	255
26	Green 3 fine	0-255	Zone 3 - green fine	255	255
27	Blue 3	0-255	Zone 3 - blue	255	255
28	Blue 3 fine	0-255	Zone 3 - blue fine	255	255
29	White 3	0-255	Zone 3 - white	0	255
30	White 3 fine	0-255	Zone 3 - white fine	0	255
31	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
32	Color macro	0-255		0	0

33	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	
34	Zoom	0-255	zoom min-max	127	
35	Zoom fine	0-255	zoom fine min-max	127	
36	Shutter	 0-31 32-63 64-95 96-111 112-127 128-143 144-159 160-191 192-223 224-255	Closed Zone 3 - Strobe slow - fast All zones - Strobe slow - fast Zone 2 - strobe slow - fast Zone 1 - strobe slow - fast All zones - opening pulse All zones - closing pulse Random zones - random strobe slow - fast All zones - random strobe slow - fast Open	255	255
37	Dimmer	0-255		255	255
38	Dimmer fine	0-255		255	255

RINGo - 48 channels - rings+outline

Zone 1 - pixel 1
Zone 2 - pixels 2-7
Zone 3 - pixels 8-19

Ch	Function	Value	Description	Default	Highlight / locate
1	Pan	0-255	Pan	127	-
2	Pan fine	0-255	Pan fine	127	-
3	Tilt	0-255	Tilt	127	-

4	Tilt fine	0-255	Tilt fine	127	-
5	P/T speed	0-255	P/T speed fast - slow	0	-
6	Control (*default values)	0-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25 26-76 77-127 128-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function ***Dimmer fast** Dimmer smooth No function Zoom reset P/T reset Total reset	255	-
7	Red 1	0-255	Zone 1 - red	255	255
8	Red 1 fine	0-255	Zone 1 - red fine	255	255
9	Green 1	0-255	Zone 1 - green	255	255
10	Green 1 fine	0-255	Zone 1 - green fine	255	255
11	Blue 1	0-255	Zone 1 - blue	255	255
12	Blue 1 fine	0-255	Zone 1 - blue fine	255	255
13	White 1	0-255	Zone 1 - white	0	0
14	White 1 fine	0-255	Zone 1 - white fine	0	0
15	Red 2	0-255	Zone 2 - red	255	255
16	Red 2 fine	0-255	Zone 2 - red fine	255	255
17	Green 2	0-255	Zone 2 - green	255	255
18	Green 2 fine	0-255	Zone 2 - green fine	255	255
19	Blue 2	0-255	Zone 2 - blue	255	255
20	Blue 2 fine	0-255	Zone 2 - blue fine	255	255

21	White 2	0-255	Zone 2 - white	0	0
22	White 2 fine	0-255	Zone 2 - white fine	0	0
23	Red 3	0-255	Zone 3 - red	255	255
24	Red 3 fine	0-255	Zone 3 - red fine	255	255
25	Green 3	0-255	Zone 3 - green	255	255
26	Green 3 fine	0-255	Zone 3 - green fine	255	255
27	Blue 3	0-255	Zone 3 - blue	255	255
28	Blue 3 fine	0-255	Zone 3 - blue fine	255	255
29	White 3	0-255	Zone 3 - white	0	0
30	White 3 fine	0-255	Zone 3 - white fine	0	0
31	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
32	Color macro	0-255		0	0
33	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
34	Zoom	0-255	Zoom min-max	127	-
35	Zoom fine	0-255	Zoom fine min-max	127	-
36	Shutter	0-31 32-63 64-95 96-111 112-127 128-143 144-159 160-191	Closed Zone 3 - Strobe slow - fast All zones - Strobe slow - fast Zone 2 - strobe slow - fast Zone 1 - strobe slow - fast All zones - opening pulse All zones - closing pulse Random zones - random	255	255

		192-223 224-255	strobe slow - fast All zones - random strobe slow - fast Open		
37	Dimmer	0-255	Dimmer	255	255
38	Dimmer fine	0-255	Dimmer	255	255
39	Ring dimmer	0-255	Ring dimmer	255	255
40	Ring shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
41	Ring red 1	0-255		255	255
42	Ring green 1	0-255		255	255
43	Ring blue 1	0-255		255	255
44	Ring macro	0-10 11 12 ... 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	Open Shape 1 Shape 2 ... Shape 40 Color white all White 7000K White 6500K White 6000K White 5600K White 5000K White 4500K White 4200K White 4000K White 3500K White 3000K White 2800K Color red Color orange	0	0

		65 66 67 68 69 70 71 72 73 74 75-150 151-200 201-255	Color yellow Color fern green Color green Color sea green Color cyan Color lavender Color blue Color violet Color magenta Color pink Color white all Color change fade Color change chase		
45	Ring macro speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
46	Ring Red 2	0-255		0	-
47	Ring Green 2	0-255		0	-
48	Ring Blue 3	0-255		0	-

ST1px - 78 channels - standard + pixel engine RGB

Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255

5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast**	0	-

		193-194 195-255	Dimmer smooth No function		
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Pixel 1 red	0-255		255	255
23	Pixel 1 green	0-255		255	255
24	Pixel 1 blue	0-255		255	255
25	Pixel 2 red	0-255		255	255
26	Pixel 2 green	0-255		255	255
27	Pixel 2 blue	0-255		255	255
28	Pixel 3 red	0-255		255	255
29	Pixel 3 green	0-255		255	255
30	Pixel 3 blue	0-255		255	255
31	Pixel 4 red	0-255		255	255
32	Pixel 4 green	0-255		255	255
33	Pixel 4 blue	0-255		255	255
34	Pixel 5 red	0-255		255	255
35	Pixel 5 green	0-255		255	255
36	Pixel 5 blue	0-255		255	255

37	Pixel 6 red	0-255		255	255
38	Pixel 6 green	0-255		255	255
39	Pixel 6 blue	0-255		255	255
40	Pixel 7 red	0-255		255	255
41	Pixel 7 green	0-255		255	255
42	Pixel 7 blue	0-255		255	255
43	Pixel 8 red	0-255		255	255
44	Pixel 8 green	0-255		255	255
45	Pixel 8 blue	0-255		255	255
46	Pixel 9 red	0-255		255	255
47	Pixel 9 green	0-255		255	255
48	Pixel 9 blue	0-255		255	255
49	Pixel 10 red	0-255		255	255
50	Pixel 10 green	0-255		255	255
51	Pixel 10 blue	0-255		255	255
52	Pixel 1 red	0-255		255	255
53	Pixel 11 green	0-255		255	255
54	Pixel 11 blue	0-255		255	255
55	Pixel 12 red	0-255		255	255
56	Pixel 12 green	0-255		255	255
57	Pixel 12 blue	0-255		255	255
58	Pixel 13 red	0-255		255	255
59	Pixel 13 green	0-255		255	255

60	Pixel 13 blue	0-255		255	255
61	Pixel 14 red	0-255		255	255
62	Pixel 14 green	0-255		255	255
63	Pixel 14 blue	0-255		255	255
64	Pixel 15 red	0-255		255	255
65	Pixel 15 green	0-255		255	255
66	Pixel 15 blue	0-255		255	255
67	Pixel 16 red	0-255		255	255
68	Pixel 16 green	0-255		255	255
69	Pixel 16 blue	0-255		255	255
70	Pixel 17 red	0-255		255	255
71	Pixel 17 green	0-255		255	255
72	Pixel 17 blue	0-255		255	255
73	Pixel 18 red	0-255		255	255
74	Pixel 18 green	0-255		255	255
75	Pixel 18 blue	0-255		255	255
76	Pixel 19 red	0-255		255	255
77	Pixel 19 green	0-255		255	255
78	Pixel 19 blue	0-255		255	255

ST1pxO - 88 channels - standard + pixel engine RGB + outline					
Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-

15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast** Dimmer smooth No function	0	-
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Ring dimmer	0-255	Ring dimmer	255	255
23	Ring shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
24	Ring red 1	0-255		255	255
25	Ring green 1	0-255		255	255

26	Ring blue 1	0-255		255	255
27	Ring macro	0-10 11 12 ... 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75-150 151-200 201-255	Open Shape 1 Shape 2 ... Shape 40 Color white all White 7000K White 6500K White 6000K White 5600K White 5000K White 4500K White 4200K White 4000K White 3500K White 3000K White 2800K Color red Color orange Color yellow Color fern green Color green Color sea green Color cyan Color lavender Color blue Color violet Color magenta Color pink Color white all Color change fade Color change chase	0	0
28	Ring macro speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
29	Ring Red 2	0-255		0	-
30	Ring Green 2	0-255		0	-

31	Ring Blue 3	0-255		0	-
32	Pixel 1 red	0-255		255	255
33	Pixel 1 green	0-255		255	255
34	Pixel 1 blue	0-255		255	255
35	Pixel 2 red	0-255		255	255
36	Pixel 2 green	0-255		255	255
37	Pixel 2 blue	0-255		255	255
38	Pixel 3 red	0-255		255	255
39	Pixel 3 green	0-255		255	255
40	Pixel 3 blue	0-255		255	255
41	Pixel 4 red	0-255		255	255
42	Pixel 4 green	0-255		255	255
43	Pixel 4 blue	0-255		255	255
44	Pixel 5 red	0-255		255	255
45	Pixel 5 green	0-255		255	255
46	Pixel 5 blue	0-255		255	255
47	Pixel 6 red	0-255		255	255
48	Pixel 6 green	0-255		255	255
49	Pixel 6 blue	0-255		255	255
50	Pixel 7 red	0-255		255	255
51	Pixel 7 green	0-255		255	255
52	Pixel 7 blue	0-255		255	255
53	Pixel 8 red	0-255		255	255

54	Pixel 8 green	0-255		255	255
55	Pixel 8 blue	0-255		255	255
56	Pixel 9 red	0-255		255	255
57	Pixel 9 green	0-255		255	255
58	Pixel 9 blue	0-255		255	255
59	Pixel 10 red	0-255		255	255
60	Pixel 10 green	0-255		255	255
61	Pixel 10 blue	0-255		255	255
62	Pixel 1 red	0-255		255	255
63	Pixel 11 green	0-255		255	255
64	Pixel 11 blue	0-255		255	255
65	Pixel 12 red	0-255		255	255
66	Pixel 12 green	0-255		255	255
67	Pixel 12 blue	0-255		255	255
68	Pixel 13 red	0-255		255	255
69	Pixel 13 green	0-255		255	255
70	Pixel 13 blue	0-255		255	255
71	Pixel 14 red	0-255		255	255
72	Pixel 14 green	0-255		255	255
73	Pixel 14 blue	0-255		255	255
74	Pixel 15 red	0-255		255	255
75	Pixel 15 green	0-255		255	255
76	Pixel 15 blue	0-255		255	255

77	Pixel 16 red	0-255		255	255
78	Pixel 16 green	0-255		255	255
79	Pixel 16 blue	0-255		255	255
80	Pixel 17 red	0-255		255	255
81	Pixel 17 green	0-255		255	255
82	Pixel 17 blue	0-255		255	255
83	Pixel 18 red	0-255		255	255
84	Pixel 18 green	0-255		255	255
85	Pixel 18 blue	0-255		255	255
86	Pixel 19 red	0-255		255	255
87	Pixel 19 green	0-255		255	255
88	Pixel 19 blue	0-255		255	255

ST2px - 97 channels - standard + pixel engine RGBW

Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255

6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast** Dimmer smooth No function	0	-

19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Pixel 1 red	0-255		255	255
23	Pixel 1 green	0-255		255	255
24	Pixel 1 blue	0-255		255	255
25	Pixel 1 white	0-255		255	255
26	Pixel 2 red	0-255		255	255
27	Pixel 2 green	0-255		255	255
28	Pixel 2 blue	0-255		255	255
29	Pixel 2 white	0-255		255	255
30	Pixel 3 red	0-255		255	255
31	Pixel 3 green	0-255		255	255
32	Pixel 3 blue	0-255		255	255
33	Pixel 3 white	0-255		255	255
34	Pixel 4 red	0-255		255	255
35	Pixel 4 green	0-255		255	255
36	Pixel 4 blue	0-255		255	255
37	Pixel 4 white	0-255		255	255
38	Pixel 5 red	0-255		255	255

39	Pixel 5 green	0-255		255	255
40	Pixel 5 blue	0-255		255	255
41	Pixel 5 white	0-255		255	255
42	Pixel 6 red	0-255		255	255
43	Pixel 6 green	0-255		255	255
44	Pixel 6 blue	0-255		255	255
45	Pixel 6 white	0-255		255	255
46	Pixel 7 red	0-255		255	255
47	Pixel 7 green	0-255		255	255
48	Pixel 7 blue	0-255		255	255
49	Pixel 7 white	0-255		255	255
50	Pixel 8 red	0-255		255	255
51	Pixel 8 green	0-255		255	255
52	Pixel 8 blue	0-255		255	255
53	Pixel 8 white	0-255		255	255
54	Pixel 9 red	0-255		255	255
55	Pixel 9 green	0-255		255	255
56	Pixel 9 blue	0-255		255	255
57	Pixel 9 white	0-255		255	255
58	Pixel 10 red	0-255		255	255
59	Pixel 10 green	0-255		255	255
60	Pixel 10 blue	0-255		255	255
61	Pixel 10 white	0-255		255	255

62	Pixel 11 red	0-255		255	255
63	Pixel 11 green	0-255		255	255
64	Pixel 11 blue	0-255		255	255
65	Pixel 11 white	0-255		255	255
66	Pixel 12 red	0-255		255	255
67	Pixel 12 green	0-255		255	255
68	Pixel 12 blue	0-255		255	255
69	Pixel 12 white	0-255		255	255
70	Pixel 13 red	0-255		255	255
71	Pixel 13 green	0-255		255	255
72	Pixel 13 blue	0-255		255	255
73	Pixel 13 white	0-255		255	255
74	Pixel 14 red	0-255		255	255
75	Pixel 14 green	0-255		255	255
76	Pixel 14 blue	0-255		255	255
77	Pixel 14 white	0-255		255	255
78	Pixel 15 red	0-255		255	255
79	Pixel 15 green	0-255		255	255
80	Pixel 15 blue	0-255		255	255
81	Pixel 15 white	0-255		255	255
82	Pixel 16 red	0-255		255	255
83	Pixel 16 green	0-255		255	255
84	Pixel 16 blue	0-255		255	255

85	Pixel 16 white	0-255		255	255
86	Pixel 17 red	0-255		255	255
87	Pixel 17 green	0-255		255	255
88	Pixel 17 blue	0-255		255	255
89	Pixel 17 white	0-255		255	255
90	Pixel 18 red	0-255		255	255
91	Pixel 18 green	0-255		255	255
92	Pixel 18 blue	0-255		255	255
93	Pixel 18 white	0-255		255	255
94	Pixel 19 red	0-255		255	255
95	Pixel 19 green	0-255		255	255
96	Pixel 19 blue	0-255		255	255
97	Pixel 19 white	0-255		255	255

ST2pxO - 107 channels - standard + outline + pixel engine RGBW

Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-

15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast** Dimmer smooth No function	0	-
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Ring dimmer	0-255	Ring dimmer	255	255
23	Ring shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
24	Ring red 1	0-255		255	255
25	Ring green 1	0-255		255	255

26	Ring blue 1	0-255		255	255
27	Ring macro	0-10 11 12 ... 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75-150 151-200 201-255	Open Shape 1 Shape 2 ... Shape 40 Color white all White 7000K White 6500K White 6000K White 5600K White 5000K White 4500K White 4200K White 4000K White 3500K White 3000K White 2800K Color red Color orange Color yellow Color fern green Color green Color sea green Color cyan Color lavender Color blue Color violet Color magenta Color pink Color white all Color change fade Color change chase	0	0
28	Ring macro speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
29	Ring Red 2	0-255		0	-
30	Ring Green 2	0-255		0	-

31	Ring Blue 3	0-255		0	-
32	Pixel 1 red	0-255		255	255
33	Pixel 1 green	0-255		255	255
34	Pixel 1 blue	0-255		255	255
35	Pixel 1 white	0-255		255	255
36	Pixel 2 red	0-255		255	255
37	Pixel 2 green	0-255		255	255
38	Pixel 2 blue	0-255		255	255
39	Pixel 2 white	0-255		255	255
40	Pixel 3 red	0-255		255	255
41	Pixel 3 green	0-255		255	255
42	Pixel 3 blue	0-255		255	255
43	Pixel 3 white	0-255		255	255
44	Pixel 4 red	0-255		255	255
45	Pixel 4 green	0-255		255	255
46	Pixel 4 blue	0-255		255	255
47	Pixel 4 white	0-255		255	255
48	Pixel 5 red	0-255		255	255
49	Pixel 5 green	0-255		255	255
50	Pixel 5 blue	0-255		255	255
51	Pixel 5 white	0-255		255	255
52	Pixel 6 red	0-255		255	255
53	Pixel 6 green	0-255		255	255

54	Pixel 6 blue	0-255		255	255
55	Pixel 6 white	0-255		255	255
56	Pixel 7 red	0-255		255	255
57	Pixel 7 green	0-255		255	255
58	Pixel 7 blue	0-255		255	255
59	Pixel 7 white	0-255		255	255
60	Pixel 8 red	0-255		255	255
61	Pixel 8 green	0-255		255	255
62	Pixel 8 blue	0-255		255	255
63	Pixel 8 white	0-255		255	255
64	Pixel 9 red	0-255		255	255
65	Pixel 9 green	0-255		255	255
66	Pixel 9 blue	0-255		255	255
67	Pixel 9 white	0-255		255	255
68	Pixel 10 red	0-255		255	255
69	Pixel 10 green	0-255		255	255
70	Pixel 10 blue	0-255		255	255
71	Pixel 10 white	0-255		255	255
72	Pixel 11 red	0-255		255	255
73	Pixel 11 green	0-255		255	255
74	Pixel 11 blue	0-255		255	255
75	Pixel 11 white	0-255		255	255
76	Pixel 12 red	0-255		255	255

77	Pixel 12 green	0-255		255	255
78	Pixel 12 blue	0-255		255	255
79	Pixel 12 white	0-255		255	255
80	Pixel 13 red	0-255		255	255
81	Pixel 13 green	0-255		255	255
82	Pixel 13 blue	0-255		255	255
83	Pixel 13 white	0-255		255	255
84	Pixel 14 red	0-255		255	255
85	Pixel 14 green	0-255		255	255
86	Pixel 14 blue	0-255		255	255
87	Pixel 14 white	0-255		255	255
88	Pixel 15 red	0-255		255	255
89	Pixel 15 green	0-255		255	255
90	Pixel 15 blue	0-255		255	255
91	Pixel 15 white	0-255		255	255
92	Pixel 16 red	0-255		255	255
93	Pixel 16 green	0-255		255	255
94	Pixel 16 blue	0-255		255	255
95	Pixel 16 white	0-255		255	255
96	Pixel 17 red	0-255		255	255
97	Pixel 17 green	0-255		255	255
98	Pixel 17 blue	0-255		255	255
99	Pixel 17 white	0-255		255	255

100	Pixel 18 red	0-255		255	255
101	Pixel 18 green	0-255		255	255
102	Pixel 18 blue	0-255		255	255
103	Pixel 18 white	0-255		255	255
104	Pixel 19 red	0-255		255	255
105	Pixel 19 green	0-255		255	255
106	Pixel 19 blue	0-255		255	255
107	Pixel 19 white	0-255		255	255

SH1px - 92ch - shapes + pixel engine RGB

Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0

9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast** Dimmer smooth No function	0	-
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-

20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Shape selection	0-7 8 9 ... 70 71-255	Open Shape 1 Shape 2 ... Shape 63 No function	0	-
23	Shape speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
24	Shape fade	0-255		0	-
25	Shape Red	0-255	Shape red intensity	255	255
26	Shape Green	0-255	Shape green intensity	255	255
27	Shape Blue	0-255	Shape blue intensity	255	255
28	Shape White	0-255	Shape white intensity	0	0
29	Shape Dimmer	0-255	Shape dimmer	255	255
30	Background dimmer	0-255	Background dimmer	255	255
31	Shape transition	0-255	Time between changes the shapes	0	0
32	Shape offset	0-255	Start position the shape	0	-
33	Shape shutter	0-3 4-103 104-107 108-207	Closed Strobe Open Pulse strobe	255	255

		208-212 213-251 252-255	Open Random strobe Open		
34	Background shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
35	Background selection	0-8 9 10 ... 23 24-255	Open Shape 1 Shape 2 ... Shape 15 No function	0	-
36	Pixel 1 red	0-255		255	255
37	Pixel 1 green	0-255		255	255
38	Pixel 1 blue	0-255		255	255
39	Pixel 2 red	0-255		255	255
40	Pixel 2 green	0-255		255	255
41	Pixel 2 blue	0-255		255	255
42	Pixel 3 red	0-255		255	255
43	Pixel 3 green	0-255		255	255
44	Pixel 3 blue	0-255		255	255
45	Pixel 4 red	0-255		255	255
46	Pixel 4 green	0-255		255	255
47	Pixel 4 blue	0-255		255	255
48	Pixel 5 red	0-255		255	255

49	Pixel 5 green	0-255		255	255
50	Pixel 5 blue	0-255		255	255
51	Pixel 6 red	0-255		255	255
52	Pixel 6 green	0-255		255	255
53	Pixel 6 blue	0-255		255	255
54	Pixel 7 red	0-255		255	255
55	Pixel 7 green	0-255		255	255
56	Pixel 7 blue	0-255		255	255
57	Pixel 8 red	0-255		255	255
58	Pixel 8 green	0-255		255	255
59	Pixel 8 blue	0-255		255	255
60	Pixel 9 red	0-255		255	255
61	Pixel 9 green	0-255		255	255
62	Pixel 9 blue	0-255		255	255
63	Pixel 10 red	0-255		255	255
64	Pixel 10 green	0-255		255	255
65	Pixel 10 blue	0-255		255	255
66	Pixel 1 red	0-255		255	255
67	Pixel 11 green	0-255		255	255
68	Pixel 11 blue	0-255		255	255
69	Pixel 12 red	0-255		255	255
70	Pixel 12 green	0-255		255	255
71	Pixel 12 blue	0-255		255	255

72	Pixel 13 red	0-255		255	255
73	Pixel 13 green	0-255		255	255
74	Pixel 13 blue	0-255		255	255
75	Pixel 14 red	0-255		255	255
76	Pixel 14 green	0-255		255	255
77	Pixel 14 blue	0-255		255	255
78	Pixel 15 red	0-255		255	255
79	Pixel 15 green	0-255		255	255
80	Pixel 15 blue	0-255		255	255
81	Pixel 16 red	0-255		255	255
82	Pixel 16 green	0-255		255	255
83	Pixel 16 blue	0-255		255	255
84	Pixel 17 red	0-255		255	255
85	Pixel 17 green	0-255		255	255
86	Pixel 17 blue	0-255		255	255
87	Pixel 18 red	0-255		255	255
88	Pixel 18 green	0-255		255	255
89	Pixel 18 blue	0-255		255	255
90	Pixel 19 red	0-255		255	255
91	Pixel 19 green	0-255		255	255
92	Pixel 19 blue	0-255		255	255

SH1pxO - 102ch - shapes + outline + pixel engine RGB

Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-

15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast** Dimmer smooth No function	0	-
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Shape selection	0-7 8 9 ... 70 71-255	Open Shape 1 Shape 2 ... Shape 63 No function	0	-
23	Shape speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
24	Shape fade	0-255		0	-

25	Shape Red	0-255	Shape red intensity	255	255
26	Shape Green	0-255	Shape green intensity	255	255
27	Shape Blue	0-255	Shape blue intensity	255	255
28	Shape White	0-255	Shape white intensity	0	0
29	Shape Dimmer	0-255	Shape dimmer	255	255
30	Background dimmer	0-255	Background dimmer	255	255
31	Shape transition	0-255	Time between changes the shapes	0	0
32	Shape offset	0-255	Start position the shape	0	-
33	Shape shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
34	Background shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
35	Background selection	0-8 9 10 ... 23 24-255	Open Shape 1 Shape 2 ... Shape 15 No function	0	-
36	Ring dimmer	0-255	Ring dimmer	255	255

37	Ring shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
38	Ring red 1	0-255		255	255
39	Ring green 1	0-255		255	255
40	Ring blue 1	0-255		255	255
41	Ring macro	0-10 11 12 ... 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75-150	Open Shape 1 Shape 2 ... Shape 40 Color white all White 7000K White 6500K White 6000K White 5600K White 5000K White 4500K White 4200K White 4000K White 3500K White 3000K White 2800K Color red Color orange Color yellow Color fern green Color green Color sea green Color cyan Color lavender Color blue Color violet Color magenta Color pink Color white all	0	0

		151-200 201-255	Color change fade Color change chase		
42	Ring macro speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
43	Ring Red 2	0-255		0	-
44	Ring Green 2	0-255		0	-
45	Ring Blue 3	0-255		0	-
46	Pixel 1 red	0-255		255	255
47	Pixel 1 green	0-255		255	255
48	Pixel 1 blue	0-255		255	255
49	Pixel 2 red	0-255		255	255
50	Pixel 2 green	0-255		255	255
51	Pixel 2 blue	0-255		255	255
52	Pixel 3 red	0-255		255	255
53	Pixel 3 green	0-255		255	255
54	Pixel 3 blue	0-255		255	255
55	Pixel 4 red	0-255		255	255
56	Pixel 4 green	0-255		255	255
57	Pixel 4 blue	0-255		255	255
58	Pixel 5 red	0-255		255	255
59	Pixel 5 green	0-255		255	255
60	Pixel 5 blue	0-255		255	255
61	Pixel 6 red	0-255		255	255

62	Pixel 6 green	0-255		255	255
63	Pixel 6 blue	0-255		255	255
64	Pixel 7 red	0-255		255	255
65	Pixel 7 green	0-255		255	255
66	Pixel 7 blue	0-255		255	255
67	Pixel 8 red	0-255		255	255
68	Pixel 8 green	0-255		255	255
69	Pixel 8 blue	0-255		255	255
70	Pixel 9 red	0-255		255	255
71	Pixel 9 green	0-255		255	255
72	Pixel 9 blue	0-255		255	255
73	Pixel 10 red	0-255		255	255
74	Pixel 10 green	0-255		255	255
75	Pixel 10 blue	0-255		255	255
76	Pixel 11 red	0-255		255	255
77	Pixel 11 green	0-255		255	255
78	Pixel 11 blue	0-255		255	255
79	Pixel 12 red	0-255		255	255
80	Pixel 12 green	0-255		255	255
81	Pixel 12 blue	0-255		255	255
82	Pixel 13 red	0-255		255	255
83	Pixel 13 green	0-255		255	255
84	Pixel 13 blue	0-255		255	255

85	Pixel 14 red	0-255		255	255
86	Pixel 14 green	0-255		255	255
87	Pixel 14 blue	0-255		255	255
88	Pixel 15 red	0-255		255	255
89	Pixel 15 green	0-255		255	255
90	Pixel 15 blue	0-255		255	255
91	Pixel 16 red	0-255		255	255
92	Pixel 16 green	0-255		255	255
93	Pixel 16 blue	0-255		255	255
94	Pixel 17 red	0-255		255	255
95	Pixel 17 green	0-255		255	255
96	Pixel 17 blue	0-255		255	255
97	Pixel 18 red	0-255		255	255
98	Pixel 18 green	0-255		255	255
99	Pixel 18 blue	0-255		255	255
100	Pixel 19 red	0-255		255	255
101	Pixel 19 green	0-255		255	255
102	Pixel 19 blue	0-255		255	255

SH2px - 111ch - shapes + pixel engine RGBW					
Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-

17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast** Dimmer smooth No function	0	-
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Shape selection	0-7 8 9 ... 70 71-255	Open Shape 1 Shape 2 ... Shape 63 No function	0	-
23	Shape speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
24	Shape fade	0-255		0	-
25	Shape Red	0-255	Shape red intensity	255	255
26	Shape Green	0-255	Shape green intensity	255	255

27	Shape Blue	0-255	Shape blue intensity	255	255
28	Shape White	0-255	Shape white intensity	0	0
29	Shape Dimmer	0-255	Shape dimmer	255	255
30	Background dimmer	0-255	Background dimmer	255	255
31	Shape transition	0-255	Time between changes the shapes	0	0
32	Shape offset	0-255	Start position the shape	0	-
33	Shape shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
34	Background shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
35	Background selection	0-8 9 10 ... 23 24-255	Open Shape 1 Shape 2 ... Shape 15 No function	0	-
36	Pixel 1 red	0-255		255	255
37	Pixel 1 green	0-255		255	255
38	Pixel 1 blue	0-255		255	255

39	Pixel 1 white	0-255		255	255
40	Pixel 2 red	0-255		255	255
41	Pixel 2 green	0-255		255	255
42	Pixel 2 blue	0-255		255	255
43	Pixel 2 white	0-255		255	255
44	Pixel 3 red	0-255		255	255
45	Pixel 3 green	0-255		255	255
46	Pixel 3 blue	0-255		255	255
47	Pixel 3 white	0-255		255	255
48	Pixel 4 red	0-255		255	255
49	Pixel 4 green	0-255		255	255
50	Pixel 4 blue	0-255		255	255
51	Pixel 4 white	0-255		255	255
52	Pixel 5 red	0-255		255	255
53	Pixel 5 green	0-255		255	255
54	Pixel 5 blue	0-255		255	255
55	Pixel 5 white	0-255		255	255
56	Pixel 6 red	0-255		255	255
57	Pixel 6 green	0-255		255	255
58	Pixel 6 blue	0-255		255	255
59	Pixel 6 white	0-255		255	255
60	Pixel 7 red	0-255		255	255
61	Pixel 7 green	0-255		255	255

62	Pixel 7 blue	0-255		255	255
63	Pixel 7 white	0-255		255	255
64	Pixel 8 red	0-255		255	255
65	Pixel 8 green	0-255		255	255
66	Pixel 8 blue	0-255		255	255
67	Pixel 8 white	0-255		255	255
68	Pixel 9 red	0-255		255	255
69	Pixel 9 green	0-255		255	255
70	Pixel 9 blue	0-255		255	255
71	Pixel 9 white	0-255		255	255
72	Pixel 10 red	0-255		255	255
73	Pixel 10 green	0-255		255	255
74	Pixel 10 blue	0-255		255	255
75	Pixel 10 white	0-255		255	255
76	Pixel 11 red	0-255		255	255
77	Pixel 11 green	0-255		255	255
78	Pixel 11 blue	0-255		255	255
79	Pixel 11 white	0-255		255	255
80	Pixel 12 red	0-255		255	255
81	Pixel 12 green	0-255		255	255
82	Pixel 12 blue	0-255		255	255
83	Pixel 12 white	0-255		255	255
84	Pixel 13 red	0-255		255	255

85	Pixel 13 green	0-255		255	255
86	Pixel 13 blue	0-255		255	255
87	Pixel 13 white	0-255		255	255
88	Pixel 14 red	0-255		255	255
89	Pixel 14 green	0-255		255	255
90	Pixel 14 blue	0-255		255	255
91	Pixel 14 white	0-255		255	255
92	Pixel 15 red	0-255		255	255
93	Pixel 15 green	0-255		255	255
94	Pixel 15 blue	0-255		255	255
95	Pixel 15 white	0-255		255	255
96	Pixel 16 red	0-255		255	255
97	Pixel 16 green	0-255		255	255
98	Pixel 16 blue	0-255		255	255
99	Pixel 16 white	0-255		255	255
100	Pixel 17 red	0-255		255	255
101	Pixel 17 green	0-255		255	255
102	Pixel 17 blue	0-255		255	255
103	Pixel 17 white	0-255		255	255
104	Pixel 18 red	0-255		255	255
105	Pixel 18 green	0-255		255	255
106	Pixel 18 blue	0-255		255	255
107	Pixel 18 white	0-255		255	255

108	Pixel 19 red	0-255		255	255
109	Pixel 19 green	0-255		255	255
110	Pixel 19 blue	0-255		255	255
111	Pixel 19 white	0-255		255	255

SH2pxO - 121ch - shapes + pixel engine RGBW

Ch	Function	Value	Description	Default	Highlight / locate
1	Red	0-255	Red min-max	255	255
2	Red fine	0-255	Red fine	255	255
3	Green	0-255	Green min-max	255	255
4	Green fine	0-255	Green fine	255	255
5	Blue	0-255	Blue min-max	255	255
6	Blue fine	0-255	Blue fine	255	255
7	White	0-255	White min-max	0	0
8	White fine	0-255	White fine	0	0
9	CTC	0-9 10 ... 255	No function 8000K ... 2500K	0	0
10	Color macro	0-255		0	0
11	Shutter	0-3 4-103	Closed Strobe	255	255

		104-107 108-207 208-212 213-251 252-255	Open Pulse strobe Open Random strobe Open		
12	Dimmer	0-255	Dimmer	0	255
13	Dimmer fine	0-255	Dimmer fine	0	255
14	Pan	0-255	Pan	127	-
15	Pan fine	0-255	Pan fine	127	-
16	Tilt	0-255	Tilt	127	-
17	Tilt fine	0-255	Tilt fine	127	-
18	Function (*default values)	0-37 38-42 43-47 48-52 53-57 58-102 103-105 106-190 191-192 193-194 195-255	No function Dimmer curve 1 - linear ***Dimmer curve 2 - SCurve** Dimmer curve 3 - Square Dimmer curve 4 - I square No function Main pixel engine on No function ***Dimmer fast** Dimmer smooth No function	0	-
19	Control	0-25 26-76 77-127 128-255	No function Zoom reset P/T reset Total reset	0	-
20	Zoom	0-255	zoom min-max	127	-
21	Lens rotation	0-127 128-190 191-192 193-255	Lens index CCW lens rotation Stop lens rotation CW lens rotation	0	-
22	Shape selection	0-7 8	Open Shape 1	0	-

		9 ... 70 71-255	Shape 2 ... Shape 63 No function		
23	Shape speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
24	Shape fade	0-255		0	-
25	Shape Red	0-255	Shape red intensity	255	255
26	Shape Green	0-255	Shape green intensity	255	255
27	Shape Blue	0-255	Shape blue intensity	255	255
28	Shape White	0-255	Shape white intensity	0	0
29	Shape Dimmer	0-255	Shape dimmer	255	255
30	Background dimmer	0-255	Background dimmer	255	255
31	Shape transition	0-255	Time between changes the shapes	0	0
32	Shape offset	0-255	Start position the shape	0	-
33	Shape shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
34	Background shutter	0-3 4-103 104-107 108-207 208-212	Closed Strobe Open Pulse strobe Open	255	255

		64 65 66 67 68 69 70 71 72 73 74 75-150 151-200 201-255	Color orange Color yellow Color fern green Color green Color sea green Color cyan Color lavender Color blue Color violet Color magenta Color pink Color white all Color change fade Color change chase		
42	Ring macro speed	0-127 128-190 191-192 193-255	Index position CCW rotation Stop rotation CW rotation	0	-
43	Ring Red 2	0-255		0	-
44	Ring Green 2	0-255		0	-
45	Ring Blue 3	0-255		0	-
46	Pixel 1 red	0-255		255	255
47	Pixel 1 green	0-255		255	255
48	Pixel 1 blue	0-255		255	255
49	Pixel 1 white	0-255		255	255
50	Pixel 2 red	0-255		255	255
51	Pixel 2 green	0-255		255	255
52	Pixel 2 blue	0-255		255	255
53	Pixel 2 white	0-255		255	255
54	Pixel 3 red	0-255		255	255

		213-251 252-255	Random strobe Open		
35	Background selection	0-8 9 10 ... 23 24-255	Open Shape 1 Shape 2 ... Shape 15 No function	0	-
36	Ring dimmer	0-255	Ring dimmer	255	255
37	Ring shutter	0-3 4-103 104-107 108-207 208-212 213-251 252-255	Closed Strobe Open Pulse strobe Open Random strobe Open	255	255
38	Ring red 1	0-255		255	255
39	Ring green 1	0-255		255	255
40	Ring blue 1	0-255		255	255
41	Ring macro	0-10 11 12 ... 50 51 52 53 54 55 56 57 58 59 60 61 62 63	Open Shape 1 Shape 2 ... Shape 40 Color white all White 7000K White 6500K White 6000K White 5600K White 5000K White 4500K White 4200K White 4000K White 3500K White 3000K White 2800K Color red	0	0

55	Pixel 3 green	0-255		255	255
56	Pixel 3 blue	0-255		255	255
57	Pixel 3 white	0-255		255	255
58	Pixel 4 red	0-255		255	255
59	Pixel 4 green	0-255		255	255
60	Pixel 4 blue	0-255		255	255
61	Pixel 4 white	0-255		255	255
62	Pixel 5 red	0-255		255	255
63	Pixel 5 green	0-255		255	255
64	Pixel 5 blue	0-255		255	255
65	Pixel 5 white	0-255		255	255
66	Pixel 6 red	0-255		255	255
67	Pixel 6 green	0-255		255	255
68	Pixel 6 blue	0-255		255	255
69	Pixel 6 white	0-255		255	255
70	Pixel 7 red	0-255		255	255
71	Pixel 7 green	0-255		255	255
72	Pixel 7 blue	0-255		255	255
73	Pixel 7 white	0-255		255	255
74	Pixel 8 red	0-255		255	255
75	Pixel 8 green	0-255		255	255
76	Pixel 8 blue	0-255		255	255
77	Pixel 8 white	0-255		255	255

78	Pixel 9 red	0-255		255	255
79	Pixel 9 green	0-255		255	255
80	Pixel 9 blue	0-255		255	255
81	Pixel 9 white	0-255		255	255
82	Pixel 10 red	0-255		255	255
83	Pixel 10 green	0-255		255	255
84	Pixel 10 blue	0-255		255	255
85	Pixel 10 white	0-255		255	255
86	Pixel 11 red	0-255		255	255
87	Pixel 11 green	0-255		255	255
88	Pixel 11 blue	0-255		255	255
89	Pixel 11 white	0-255		255	255
90	Pixel 12 red	0-255		255	255
91	Pixel 12 green	0-255		255	255
92	Pixel 12 blue	0-255		255	255
93	Pixel 12 white	0-255		255	255
94	Pixel 13 red	0-255		255	255
95	Pixel 13 green	0-255		255	255
96	Pixel 13 blue	0-255		255	255
97	Pixel 13 white	0-255		255	255
98	Pixel 14 red	0-255		255	255
99	Pixel 14 green	0-255		255	255
100	Pixel 14 blue	0-255		255	255

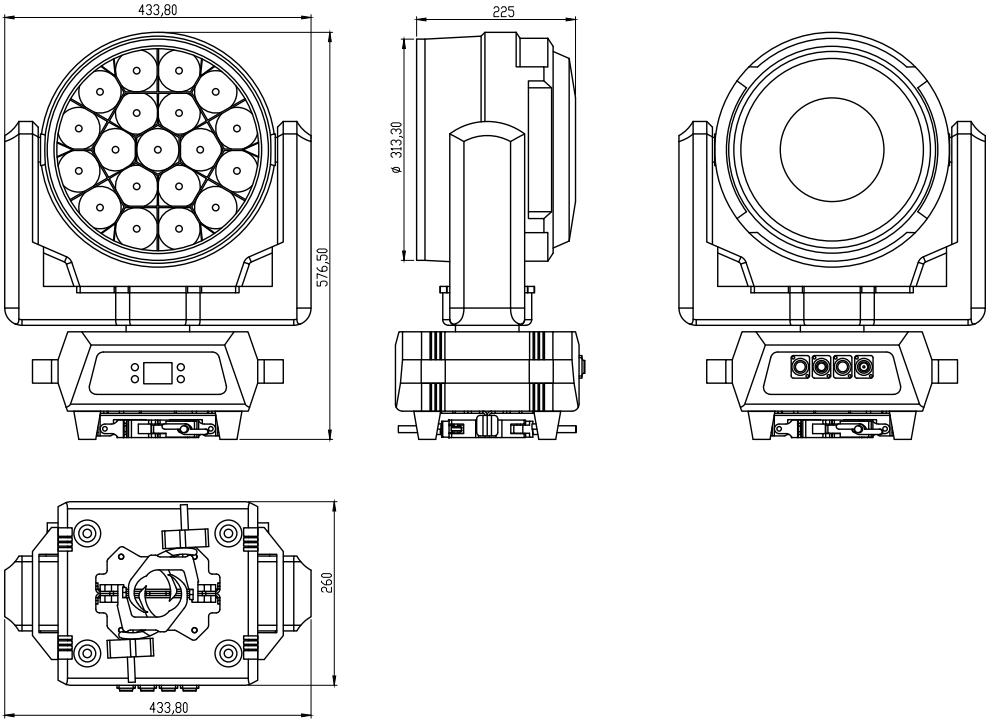
101	Pixel 14 white	0-255		255	255
102	Pixel 15 red	0-255		255	255
103	Pixel 15 green	0-255		255	255
104	Pixel 15 blue	0-255		255	255
105	Pixel 15 white	0-255		255	255
106	Pixel 16 red	0-255		255	255
107	Pixel 16 green	0-255		255	255
108	Pixel 16 blue	0-255		255	255
109	Pixel 16 white	0-255		255	255
110	Pixel 17 red	0-255		255	255
111	Pixel 17 green	0-255		255	255
112	Pixel 17 blue	0-255		255	255
113	Pixel 17 white	0-255		255	255
114	Pixel 18 red	0-255		255	255
115	Pixel 18 green	0-255		255	255
116	Pixel 18 blue	0-255		255	255
117	Pixel 18 white	0-255		255	255
118	Pixel 19 red	0-255		255	255
119	Pixel 19 green	0-255		255	255
120	Pixel 19 blue	0-255		255	255
121	Pixel 19 white	0-255		255	255

MENU OVERVIEW

- MENU
  - ADDRESS
    - 000-512
  - RUN MODE
    - DMX CHANNEL
      - STAND
      - SHAPE
      - RINGS
      - SHAPEo
      - RINGo
      - ST1PX
      - ST1Po
      - ST2PX
      - ST2Po
      - SH1PX
      - SH1Po
      - SH2PX
      - SH2Po
      - R1PX
      - R1PXo
      - R2PX
      - R2PXo
    - CONTROL
      - DMX
      - WIRELESS
    - AUTO TEST
    - MANUAL TEST
      - PAN
      - TILT
      - ZOOM
      - ROTA
      - COLOR
      - RED
      - GREEN
      - BLUE
      - WHITE
      - R ING LED
      - D IMMER
      - STROBE
    - AUTO CHANNEL TEST
      - CHANNEL 1
      - CHANNEL 2
      - CHANNEL 3
      - ...
      - CHANNEL 4
  - SETTING
    - PAN REVERSE — YES/NO
    - TILT REVERSE — YES/NO
    - SCREEN REVERSE — YES/NO
    - SCREEN LOCK — YES/NO
    - NO SIGNAL HOLD — YES/NO
    - PAN ANGLE — 540/360/180
    - TILT ANGLE — 250/180/60
    - W-DMX/CRMX UNLINK — YES/NO
    - W-DMX/CRMX TO DMX — YES/NO
    - AREFACTION TIME — 0-255
    - LANGUAGE — EN/CH
    - DIMMER SPEED — FAST/SMOOTH
    - DIMMER CURVE
      - LINEAR
      - SQUARE
      - I SQUA
      - SCURVE
    - RESET FUNCTION
      - PAN/TILT
      - ZOOM
      - ALL
    - FACTORY RESET — YES/NO
  - SYS INFO
    - VER
    - RUNNING MOD
    - DMX ADDRESS
    - TEMPERATURE
    - FIXTURE HOURS
    - SAVE NUM

DRAWINGS

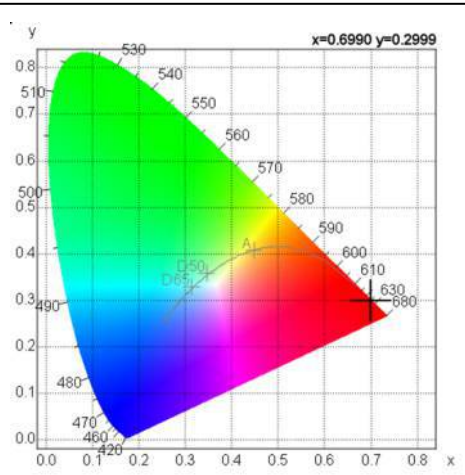
Dimensions in [mm]

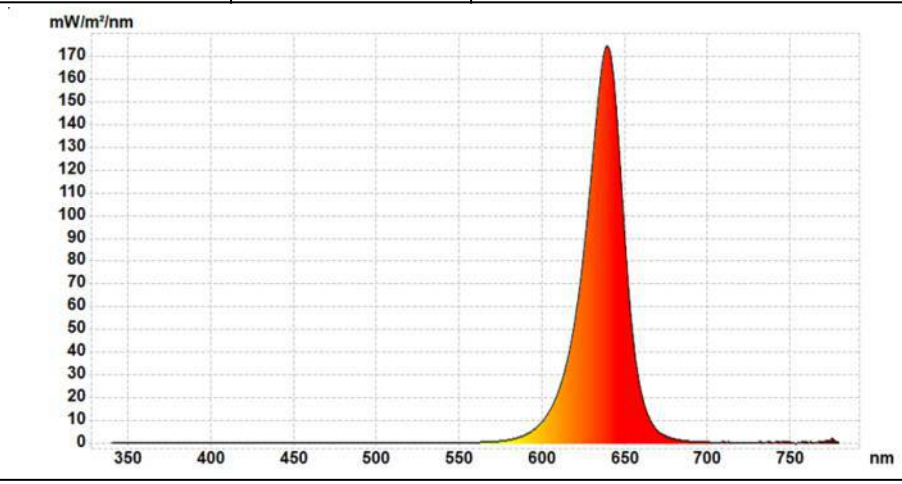


SPECTRAL DISTRIBUTION AT 5M AT MAX ZOOM

RED

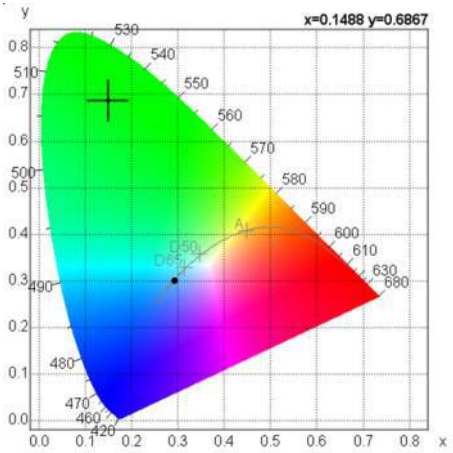
CIE x	0,6990
CIE y	0,2999
CIE Y	772,95 lx
CCT	- K
Chromaticity Error	0,306
Duv	nan
Color Peak	640,58 nm
Color Peak Value	174,51 mW/m2/nm
Color Dominant	624,7 nm
Luminous Intensity	77,18 cd (A)

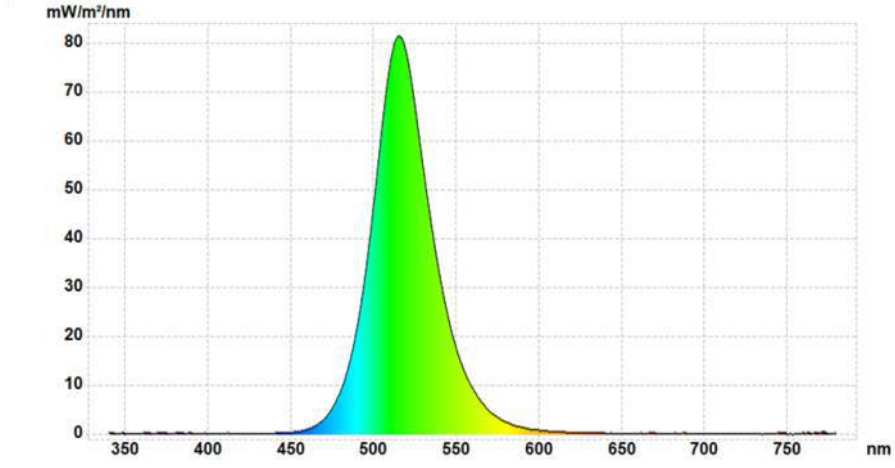




GREEN

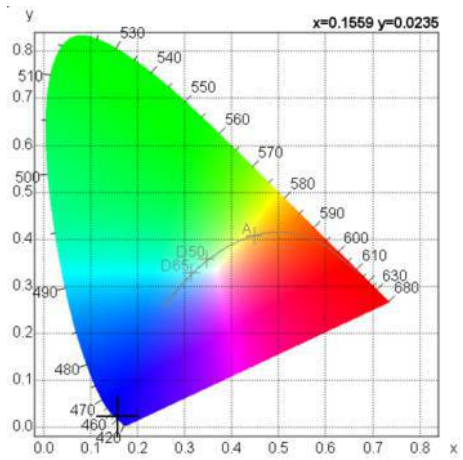
CIE x	0,1488
CIE y	0,6867
CIE Y	1564,13 lx
CCT	8426 K
Chromaticity Error	0,169
Duv	0,1590
Color Peak	515,20 nm
Color Peak Value	81,32 mW/m2/nm
Color Dominant	519,7 nm
Luminous Intensity	156,19 cd (A)

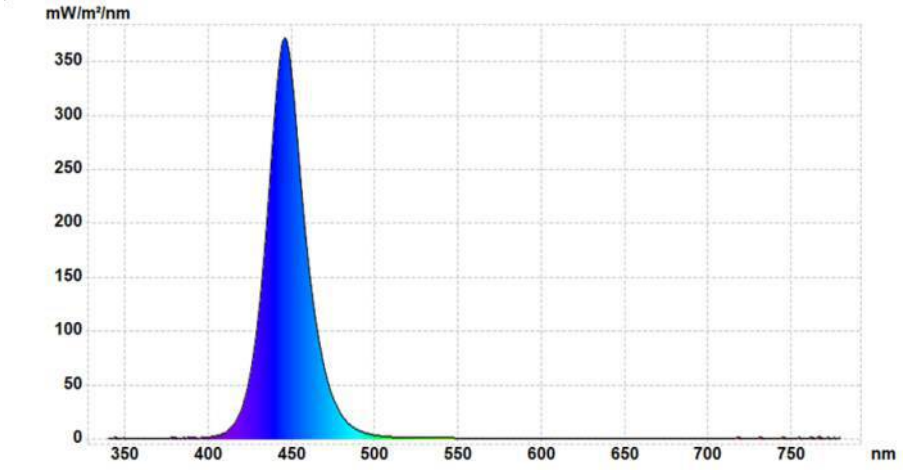




BLUE

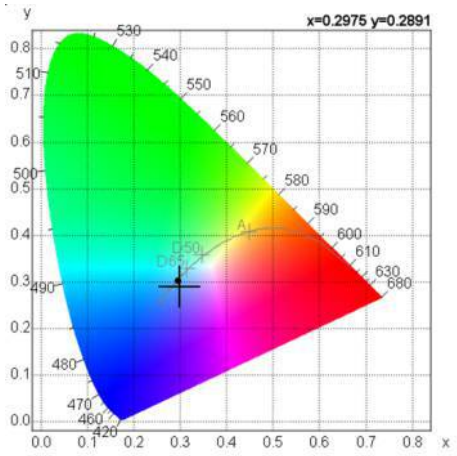
CIE x	0,1559
CIE y	0,0235
CIE Y	330,40 lx
CCT	- K
Chromaticity Error	0,365
Duv	0,2283
Color Peak	447,24 nm
Color Peak Value	372,47 mW/m2/nm
Color Dominant	452,5 nm
Luminous Intensity	32,99 cd (A)

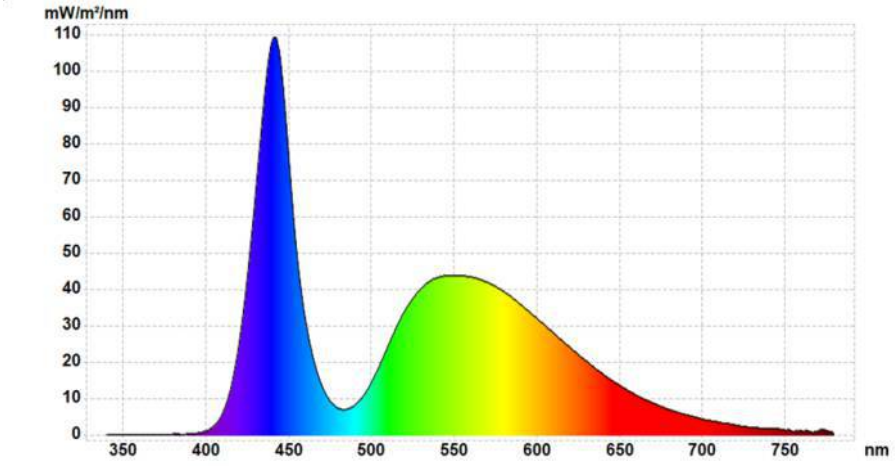


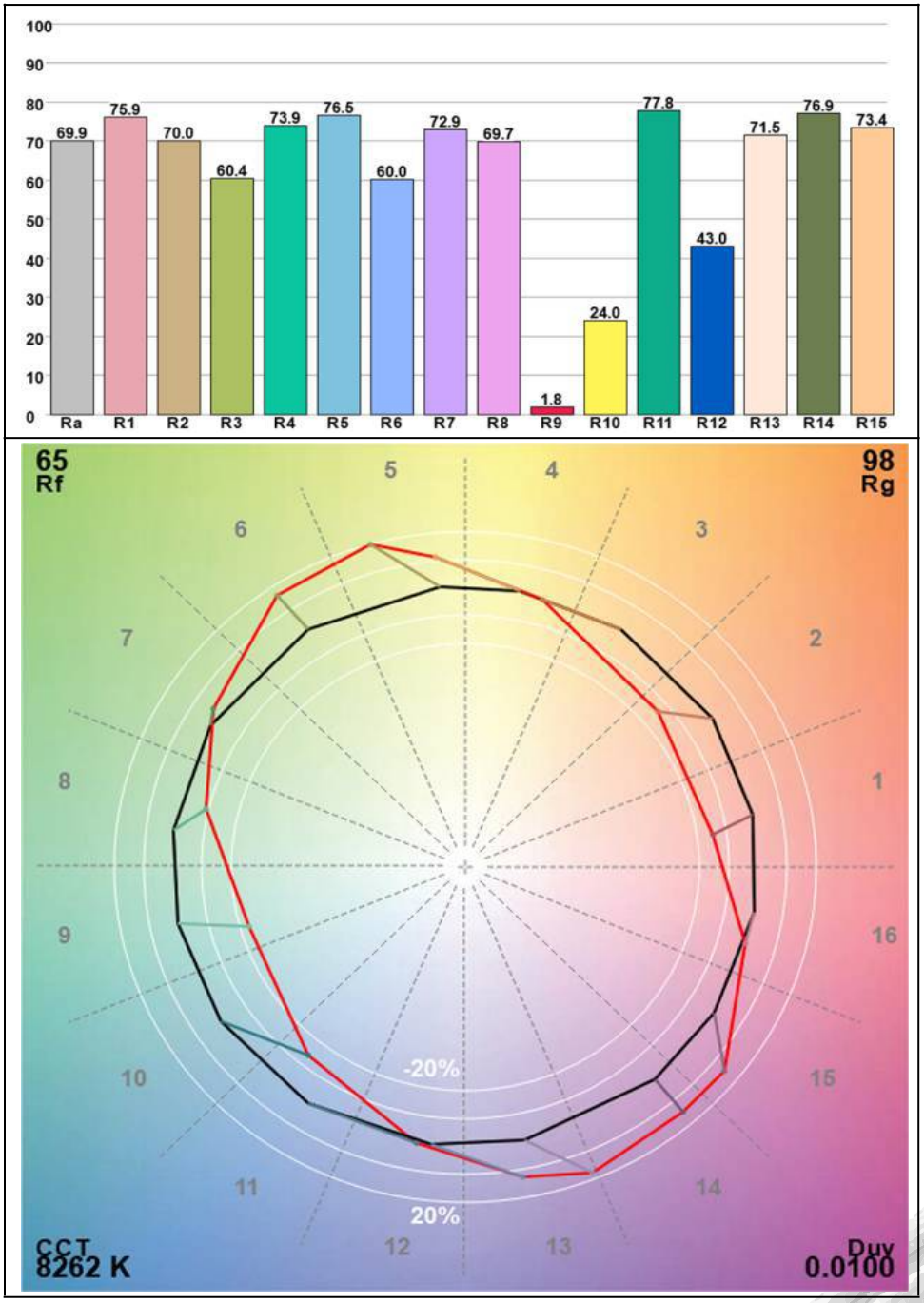


WHITE

CIE x	0,2975
CIE y	0,2891
CIE Y	2536,10 lx
CCT	8262 K
Chromaticity Error	0,023
Duv	0,0100
Color Peak	442,74 nm
Color Peak Value	109,66 mW/m2/nm
Color Dominant	472,1 nm
Luminous Intensity	253,24 cd (A)

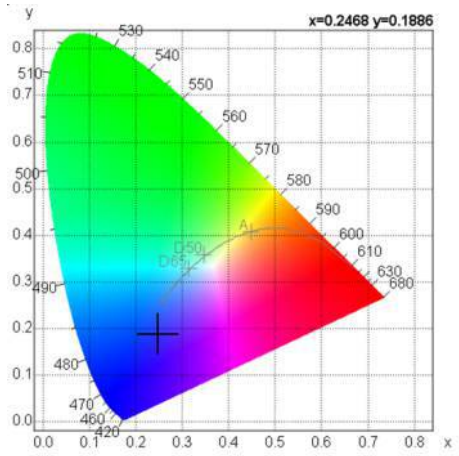


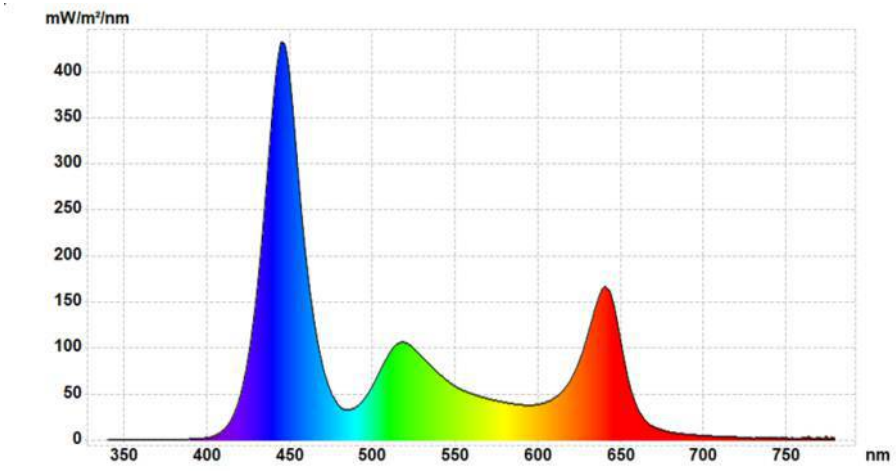


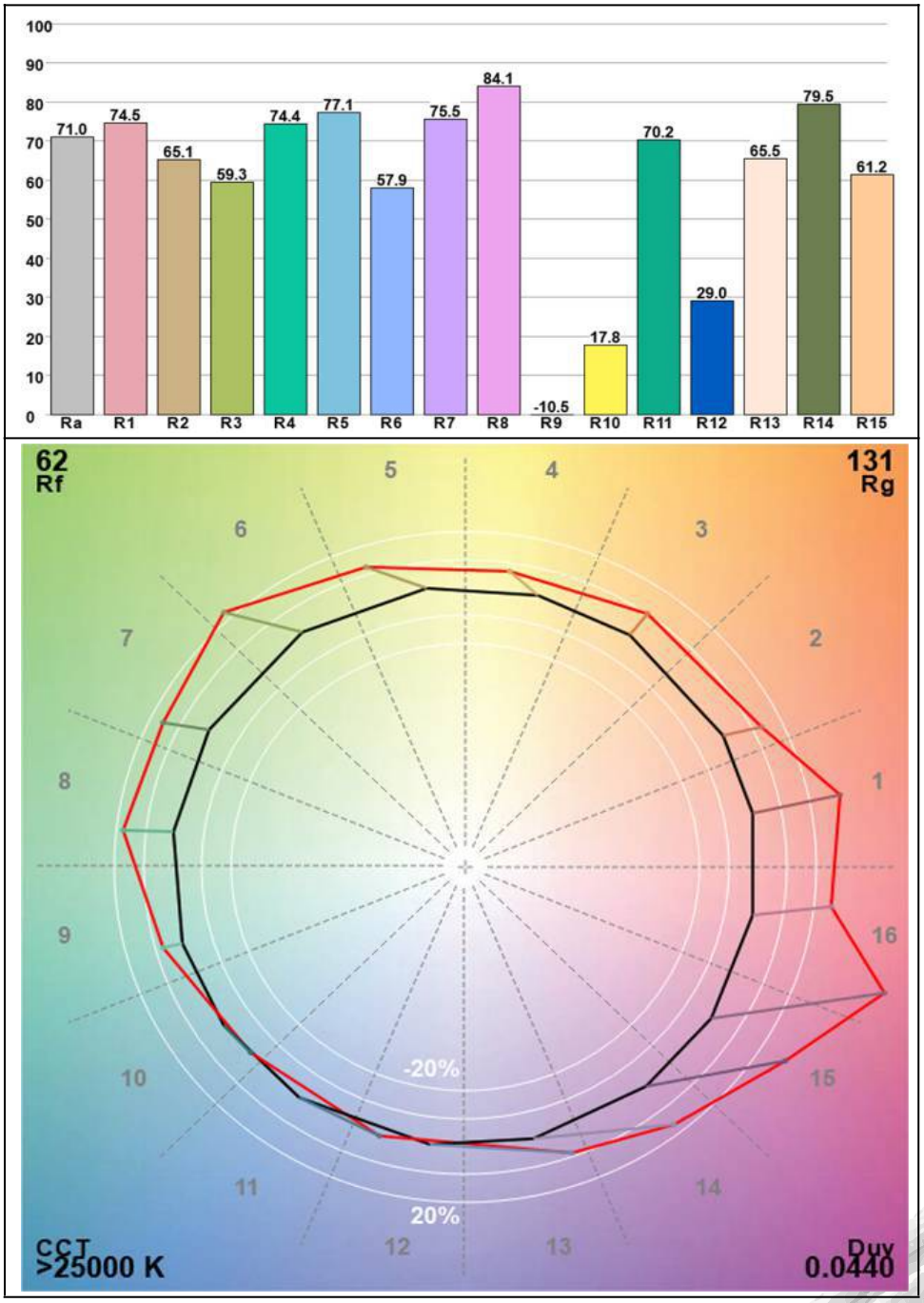

100
90
80
70
60
50
40
30
20
10
0
69.9
75.9
70.0
60.4
73.9
76.5
60.0
72.9
69.7
1.8
24.0
77.8
43.0
71.5
76.9
73.4
Ra
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
65
Rf
98
Rg
5
4
6
3
7
2
8
1
9
16
10
15
11
14
12
13
-20%
20%
CCT
8262 K
Duv
0.0100

RGBW

CIE x	0,2468
CIE y	0,1886
CIE Y	4811,93 lx
CCT	- K
Chromaticity Error	0,127
Duv	0,0440
Color Peak	447,24 nm
Color Peak Value	431,57 mW/m2/nm
Color Dominant	456,6 nm
Luminous Intensity	480,50 cd (A)

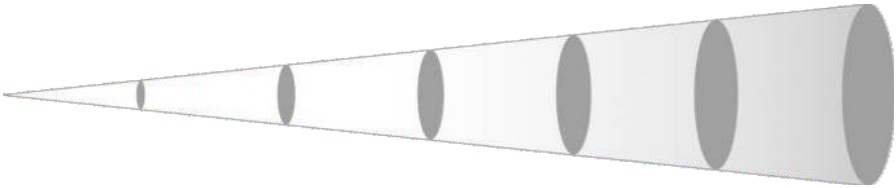





100
90
80
70
60
50
40
30
20
10
0
71.0
74.5
65.1
59.3
74.4
77.1
57.9
75.5
84.1
-10.5
17.8
70.2
29.0
65.5
79.5
61.2
Ra
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
62
Rf
131
Rg
5
4
6
3
7
2
8
1
9
16
10
15
11
14
12
13
-20%
20%
CCT
>25000 K
Duv
0.0440

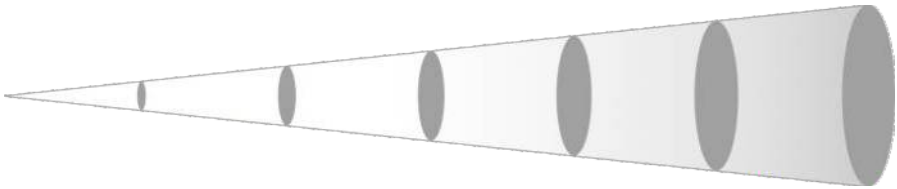
ILLUMINANCE ZOOM MIN [lx]

Beam angle 4°
Field angle 5°

Distance [m]	2,5	5	7,5	10	12,5	15
						
R	17252	6240	3265	1834	988	960
G	33747	11829	5879	3373	1823	1599
B	6733	2348	1112	655	342	307
W	545512	19686	9889	5626	3086	2694
RGBW	102217	37341	18667	10662	5909	5323

ILLUMINANCE ZOOM MAX [lx]

Beam angle 25°
Field angle 30°

Distance [m]	2,5	5	7,5	10	12,5	15
						
R	3137	773	407	220	134	118
G	7880	1564	792	433	274	209
B	1490	330	169	92	58	42
W	10132	2536	1296	704	450	341
RGBW	19173	4812	2457	1338	840	674

SPECIFICATION

- Light Source: 19 LED RGBW 40W
- Power consumption: 1000W
- Power supply voltage: 110-230V, 50/60Hz AC
- PAN range: 540°
- TILT range: 270°
- Beam angle (min/max): 4°-30°
- Beam rotation on wide and narrow zoom (kaleido effect)
- Color pixel shapes
- LED outline stripe effect
- Operating modes: DMX 512, W-DMX, CRMX, Auto-running, Manual, Master-slave
- DMX channel mode (17 different DMX operating modes)- including STAND, SHAPE, RINGS, outline control and pixel mapping
- IP Rating: IP65
- Housing made: Aluminium
- Integrated fastening hooks
- Cooling: Active
- AC IN/OUT: TrueCON IP65
- 3-Pin XLR DMX Input/Output IP65
- Net Weight: 23,4 kg
- Dimensions: L(43)xW(26)xH(57.5) cm

USER NOTES



FLASH

FLASH-BUTRYM SP.J.
SKARBIMIERZYCE 18
72-002 DOŁUJE
POLAND

WWW.FLASH-BUTRYM.PL