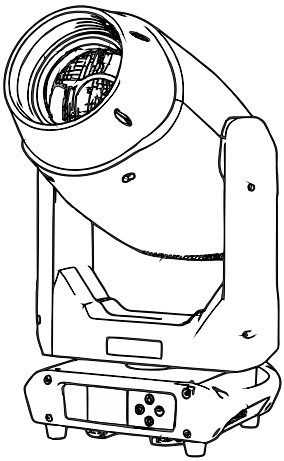
series Art by FLASH

USER MANUAL



SpotQTM 400

CONTENTS

CONTENTS 2
INTRODUCTION 2
SAFETY INFORMATION 3
UNPACKING 4
INSTALATION 5
CONNECTION 6
DMX CHART 8
MENU OVERVIEW 17
FUNCTION OVERVIEW 18
DRAWINGS 19
PHOTOMETRICS 20
SPECIFICATION 29

INTRODUCTION

We are glad that you have chosen **ART SpotQTM 400** , thereby expanding your lighting fixtures workshop. We hope this device will meet your expectations and inspire creativity in your lighting projects.

FOR SAFETY REASONS AND TO ENSURE THE TROUBLE-FREE OPERATION, CAREFULLY READ THE INSTRUCTIONS.

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.



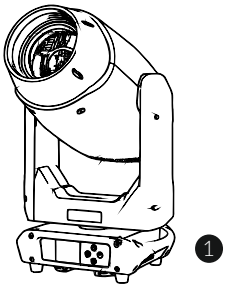
WARNING! Before operating, ensure that the voltage and frequency of power supply match the power requirements of the fixture. It's important to ground the yellow/green conductor to earth in order to avoid electric shock. Do not touch any wire during operation and there might be a hazard of electric shock.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



1



2



3



4



The following item

are included inside the box:

1 - Art SpotQTM 400

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 SpotQTM 400 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 the mounting screws or skip the device during installation

CONNECTION

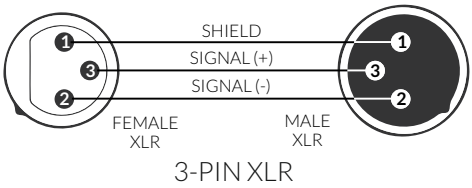
The device is equipped with the follo - wing interfaces:

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

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

The connection is performed using cable with

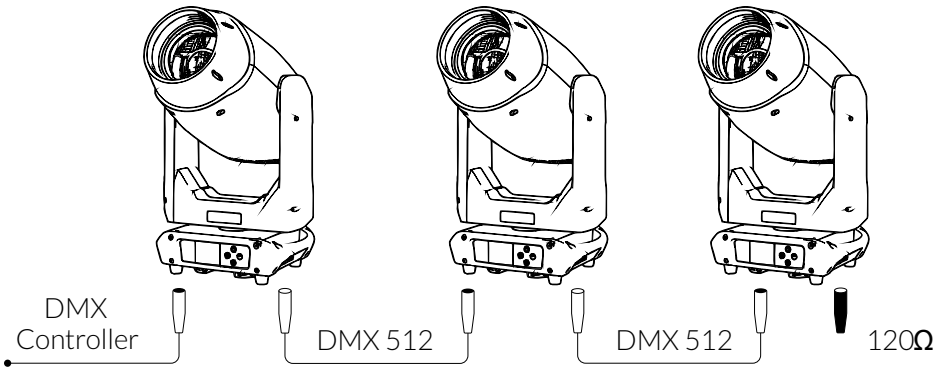
XLR-female -> XLR-Male plugs.



3-PIN XLR

CAUTION! At the last fixture, the DMX signal has to be terminated with a termi - nator. 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]	2,15 [A]	50 [Hz]	500 [W]
110 [V]	4,3 [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 mode.
- □ Set needed dimming curve and „refresh".
- □ Press ENTER each time to confirm.
- □ Press the MENU to exit. The changes will be noticed after exiting the MENU.

TIP Shortcut to rotate the display press and hold the up and down buttons

DMX CHART

mode 1					
Ch	Function	Value	Description	Default	Highlight/locate
1	DIMMER	0-255	MAIN intensity min-max	0	255
2	DIMMER fine	0-255	MAIN intensity 16 bit	0	255
3	STROBE	0-19 20-49 50-200 201-210 211-255	CLOSED OPEN STROBE 1Hz -> 20Hz OPEN RANDOM strobe slow -> fast	25	25
4	PAN	0-255	PAN min-max	127	-
5	PAN fine	0-255	PAN 16 bit	127	-
6	TILT	0-255	TILT min-max	127	-
7	TILT fine	0-255	TILT 16 bit	127	-
8	CONTROL (hold 5s)	0-9 10-14 15 16 17 18 19-22 23 24 25 26 27-35 36	No function GLOBAL RESET No function Color reset Beam reset Position reset No function Dimmer curve LINEAR Dimmer curve S-Curve Dimmer curve SQUARE Dimmer curve INV SQUARE No function LED refresh mode 1	0	-

		37 38 39 40-51 52 53 54 55 56 57-58 59-198 199 200-255	LED refresh mode 2 LED refresh mode 3 LED refresh mode 4 No function Display On Display O Fan auto Fan high Fan mid Fan low No function Set values to default No function		
9	CYAN	0-255	CYAN min-max	0	0
10	MAGENTA	0-255	MAGENTA min-max	0	0
11	YELLOW	0-255	YELLOW min-max	0	0
12	CTO	0-255	CTO min-max	0	0
13	COLOR WHEEL	0-14 15-29 30-44 45-59 60-74 75-89 90-104 105-160 161-163 164-166 167-169 170-172 173-175 176-178 179-192 193-214 215-221 222-243 244-247 248-251 252-255	OPEN BLUE GREEN 3200K MAGENTA CONGO BLUE RED OPEN BLUE index GREEN index 3200K index MAGENTA index CONGO BLUE index RED index OPEN CW fast -> slow STOP CCW slow -> fast RANDOM fast RANDOM medium RANDOM slow	0	0

14	GOBO 1 WHEEL	0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-88 89-112 113-136 137-160 161-184 185-209 210-232 233-255	OPEN GOBO 1 index GOBO 2 index GOBO 3 index GOBO 4 index GOBO 5 index GOBO 6 index GOBO 1 rotation GOBO 2 rotation GOBO 3 rotation GOBO 4 rotation GOBO 5 rotation GOBO 6 rotation GOBO 1 shake GOBO 2 shake GOBO 3 shake GOBO 4 shake GOBO 5 shake GOBO 6 shake CW gobo spin CCW gobo spin	0	-
15	GOBO 1 index/shake indexing	0-255 or 0-2 3-124 125-128 129-255	if ch 14 = (5-34) GOBO index or if ch 14 = (35-64) GOBO stop GOBO cc w rotation GOBO stop GOBO cw rotation	0	-
16	GOBO index/ rotation speed fine	0-255	GOBO index/rotation 16 bit	0	-
17	GOBO 2 WHEEL	0-14 15-29 30-44 45-59 60-74 75-89 90-104	OPEN GOBO 1 GOBO 2 GOBO 3 GOBO 4 GOBO 5 GOBO 6	0	-

		105-119 120-134 135-149 150-164 165 166-167 168-169 170-171 172-173 174-175 176-177 178-179 180-181 182-183 184-185 186-192	GOBO 7 GOBO 8 GOBO 9 GOBO 10 OPEN GOBO 1 index GOBO 2 index GOBO 3 index GOBO 4 index GOBO 5 index GOBO 6 index GOBO 7 index GOBO 8 index GOBO 9 index GOBO 10 index OPEN		
18	PRISM 1 4-facet circular prism	0-127 128-255	OPEN PRISM ON	0	-
19	PRISM 1 index/ rotation	0-63 64-157 158-161 162-255	PRISM INDEX PRISM ROTATION cw PRISM ROTATION stop PRISM ROTATION cc w	0	-
20	PRISM 2 6-facet linear prism	0-127 128-255	OPEN PRISM	0	-
21	PRISM 2 index/ rotation	0-63 64-157 158-161 162-255	PRISM INDEX PRISM ROTATION cw PRISM ROTATION stop PRISM ROTATION cc w	0	-
22	ZOOM	0-255	40° -> 4°	127	-
23	ZOOM fine	0-255	ZOOM 16 bit	127	-
24	FOCUS	0-255	FAR -> NEAR	127	-

25	FOCUS fine	0-255	FOCUS 16 bit	127	-
26	IRIS	0-200 201-225 226-230 231-255	OPEN -> CLOSED PULSE closing PULSE stop PULSE opening	0	-
27	FROST	0-127 128-255	NO FROST FROST	0	-

mode 2 - quantum mode

Ch	Function	Value	Description	Default	Highlite/locate
1	STROBE	0-19 20-49 50-200 201-210 211-255	CLOSED OPEN STROBE 1Hz -> 20Hz OPEN RANDOM strobe slow -> fast	25	25
2	DIMMER	0-255	MAIN intensity min-max	0	255
3	DIMMER fine	0-255	MAIN intensity 16 bit	0	255
4	CYAN	0-255	CYAN min-max	0	0
5	MAGENTA	0-255	MAGENTA min-max	0	0
6	YELLOW	0-255	YELLOW min-max	0	0
7	COLOR WHEEL	0-14 15-29 30-44 45-59 60-74 75-89	OPEN BLUE GREEN 3200K MAGENTA CONGO BLUE	0	0

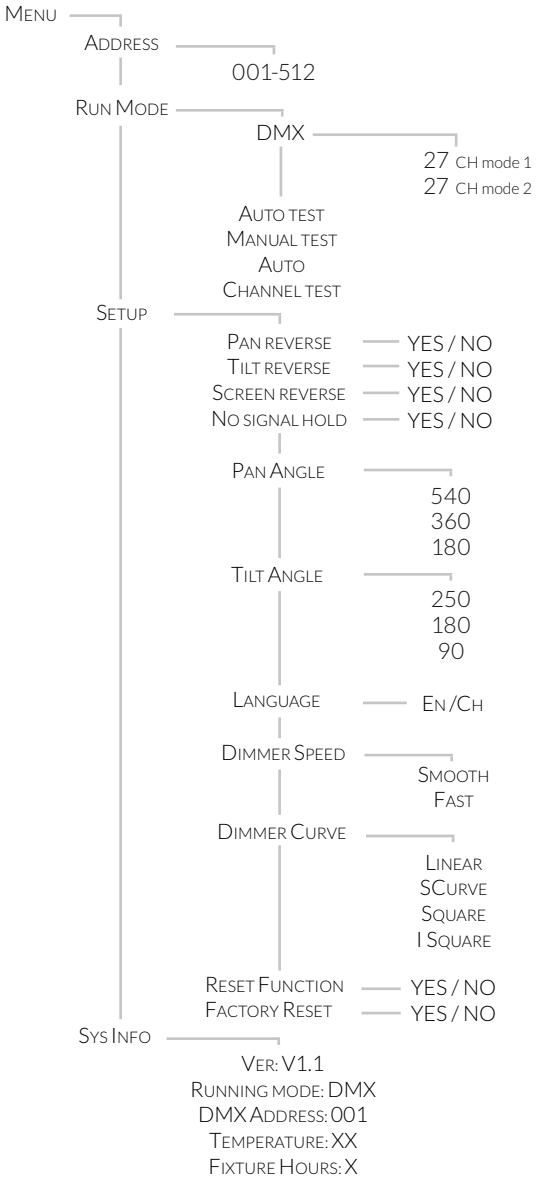
		90-104 105-160 161-163 164-166 167-169 170-172 173-175 176-178 179-192 193-214 215-221 222-243 244-247 248-251 252-255	RED OPEN BLUE index GREEN index 3200K index MAGENTA index CONGO BLUE index RED index OPEN CW fast -> slow STOP CCW slow -> fast RANDOM fast RANDOM medium RANDOM slow		
8	GOBO 1 WHEEL	0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-88 89-112 113-136 137-160 161-184 185-209 210-232 233-255	OPEN GOBO 1 index GOBO 2 index GOBO 3 index GOBO 4 index GOBO 5 index GOBO 6 index GOBO 1 rotation GOBO 2 rotation GOBO 3 rotation GOBO 4 rotation GOBO 5 rotation GOBO 6 rotation GOBO 1 shake GOBO 2 shake GOBO 3 shake GOBO 4 shake GOBO 5 shake GOBO 6 shake CW gobo spin CCW gobo spin	0	-
9	GOBO index/shake indexing	0-255 or 0-2 3-124	if ch 14 = (5-34) GOBO index or if ch 14 = (35-64) GOBO stop GOBO cc w rotation	0	-

		125-128 129-255	GOBO stop GOBO cw rotation		
10	GOBO index/ rotation speed fine	0-255	GOBO index/rotation 16 bit	0	-
11	GOBO 2 WHEEL	0-14 15-29 30-44 45-59 60-74 75-89 90-104 105-119 120-134 135-149 150-164 165 166-167 168-169 170-171 172-173 174-175 176-177 178-179 180-181 182-183 184-185 186-192	OPEN GOBO 1 GOBO 2 GOBO 3 GOBO 4 GOBO 5 GOBO 6 GOBO 7 GOBO 8 GOBO 9 GOBO 10 OPEN GOBO 1 index GOBO 2 index GOBO 3 index GOBO 4 index GOBO 5 index GOBO 6 index GOBO 7 index GOBO 8 index GOBO 9 index GOBO 10 index OPEN	0	-
12	PRISM 1 4-facet circular prism	0-2 3-126 127-129 130-253 254-255	OPEN CW PRISM ROTATION PRISM ROTATION STOP CCW PRISM ROTATION OPEN	0	-
13	IRIS	0-200 201-225 226-230 231-255	OPEN -> CLOSED PULSE closing PULSE stop PULSE opening	0	-

14	ZOOM	0-255	40° -> 4°	127	-
15	ZOOM fine	0-255	ZOOM 16 bit	127	-
16	FOCUS	0-255	FAR -> NEAR	127	-
17	FOCUS fine	0-255	FOCUS 16 bit	127	-
18	PAN	0-255	PAN min-max	127	-
19	PAN fine	0-255	PAN 16 bit	127	-
20	TILT	0-255	TILT min-max	127	-
21	TILT fine	0-255	TILT 16 bit	127	-
22	CONTROL (hold 5s)	0-127 128-131 132-135 136-139 140-143 144-147 148-151 152-155 156-159 160-164 165-167 168-171 172-175 176-179 180-183 184-187 188-230 231-255	NO FUNCTION Dimmer curve LINEAR Dimmer curve S-Curve Dimmer curve SQUARE Dimmer curve INV SQUARE NO FUNCTION Refresh mode 1 Refresh mode 2 Refresh mode 3 Refresh mode 4 NO FUNCTION RESET P/T RESET CMY, CTO, Color wheel RESET Zoom , Focus , Iris RESET Gobo wheels RESET Prisms , Frost NO FUNCTION GLOBAL RESET	0	-
23	PRISM 2 6-facet linear prism	0-127 128-255	OPEN PRISM	0	-
24	PRISM 2 index/	0-63 64-157	PRISM INDEX PRISM ROTATION cw	0	-

	rotation	158-161 162-255	PRISM ROTATION stop PRISM ROTATION cc w		
25	CTO	0-255	CTO min-max	0	0
26	UNUSED	*	*	0	-
27	FROST	0-127 128-255	NO FROST FROST	0	-

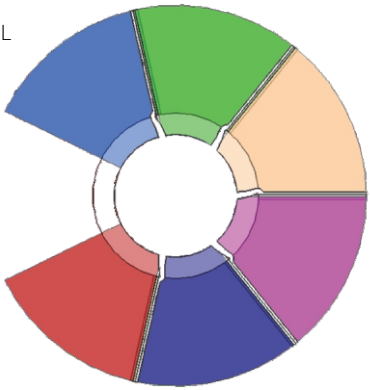
MENU OVERVIEW



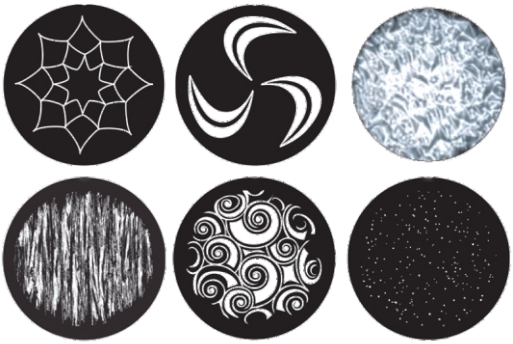
FUNCTION OVERVIEW

COLOR WHEEL

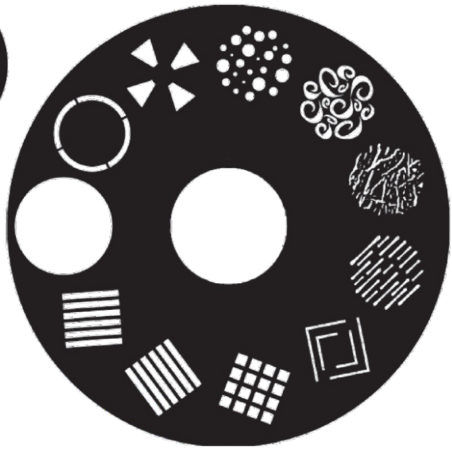
BLUE
GREEN
3200K
MAGENTA
CONGO BLUE
RED



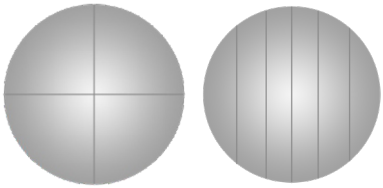
ROTATION GOBO WHEEL



STATIC GOBO WHEEL

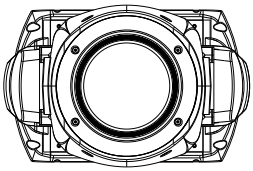


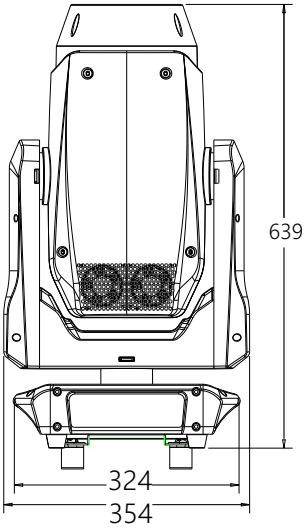
PRISMS

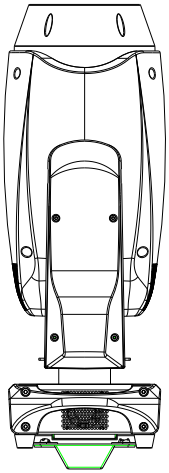


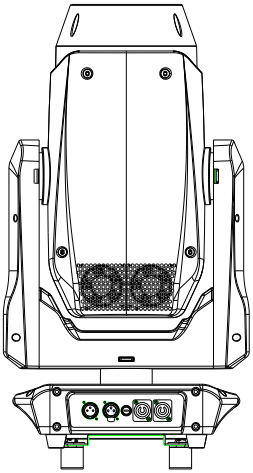
DRAWINGS

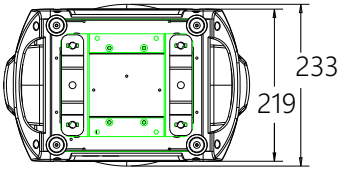
DIMENSIONS [mm]

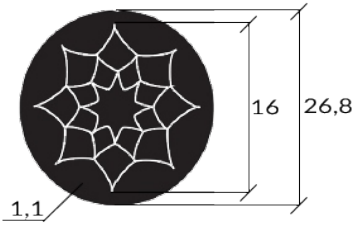








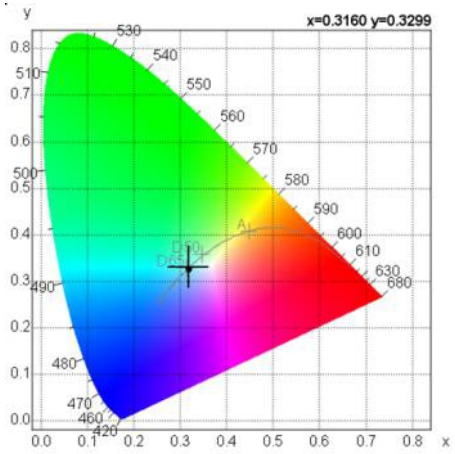


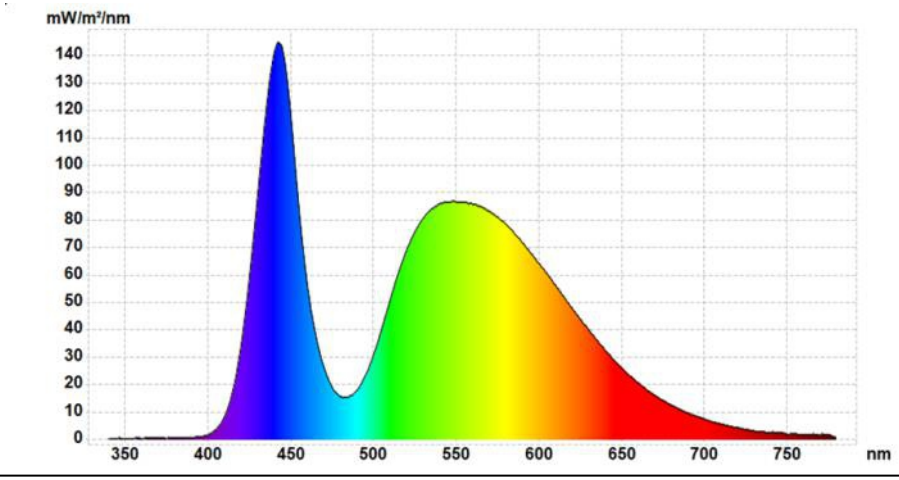


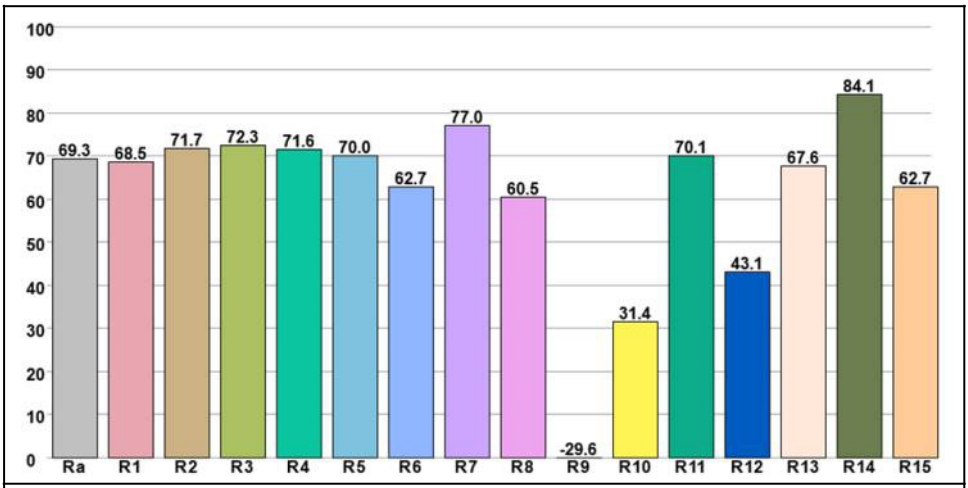
SPECTRAL DISTRIBUTION AT 2,5M AT MAX ZOOM

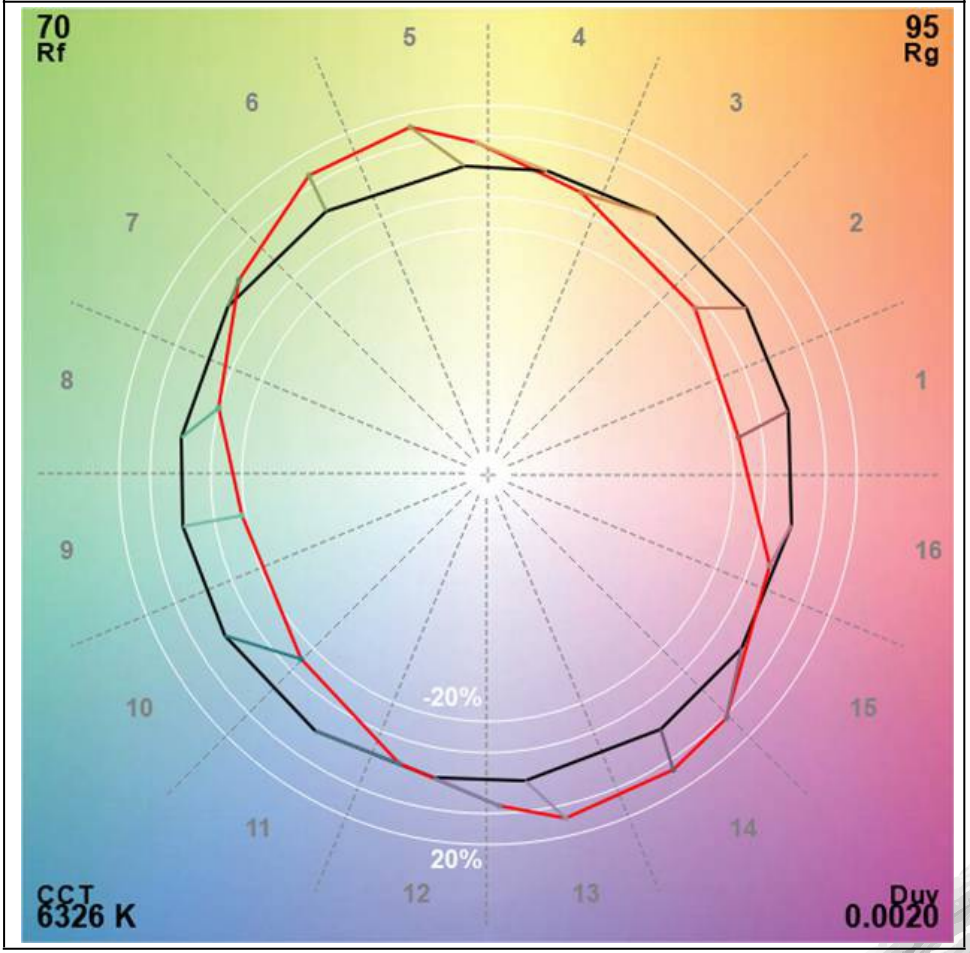
OPEN WHITE

CIE x	0,3168
CIE y	0,3313
CIE Y	5028,49 lx
CCT	6275 K
Chromaticity Error	0,009
Duv	0,0023
Color Peak	442,74 nm
Color Peak Value	144,99 mW/m2/nm
Color Dominant	490,2 nm
Luminous Intensity	502,12 cd (A)



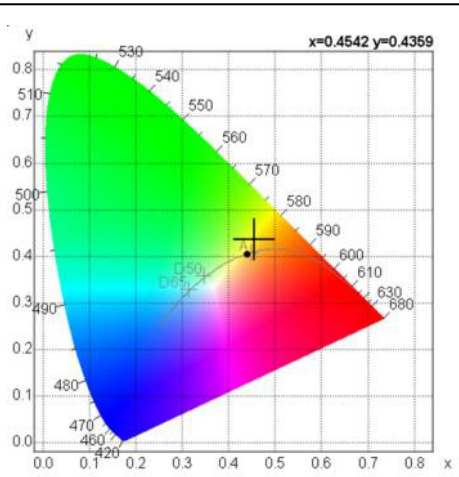


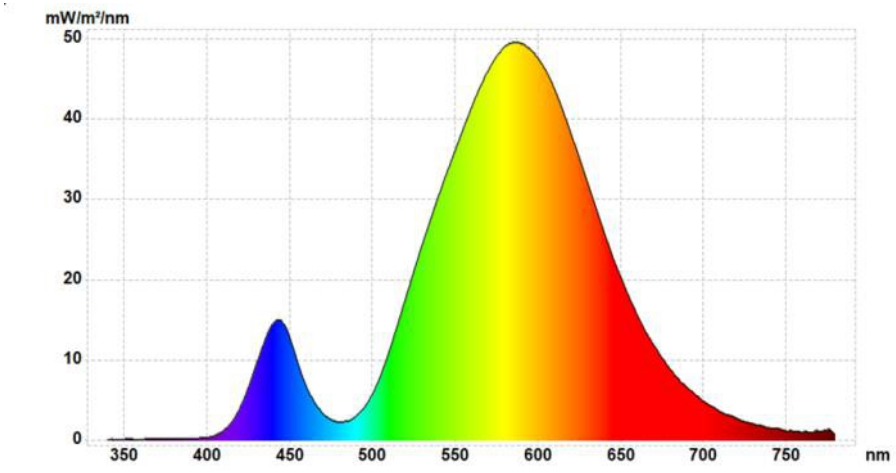

100
90
80
70
60
50
40
30
20
10
0
69.3
68.5
71.7
72.3
71.6
70.0
62.7
77.0
60.5
-29.6
31.4
70.1
43.1
67.6
84.1
62.7
Ra
R1
R2
R3
R4
R5
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R7
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R10
R11
R12
R13
R14
R15

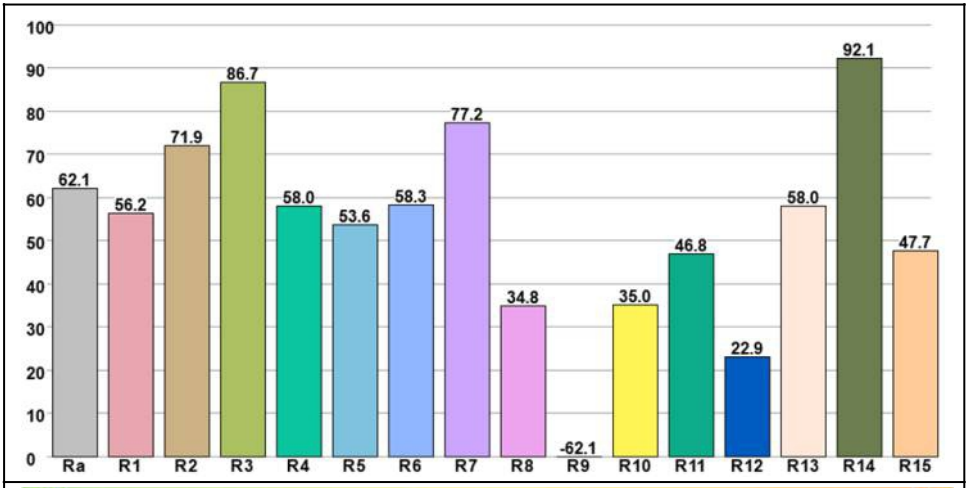

70
Rf
95
Rg
5
4
6
3
7
2
8
1
9
16
10
15
11
14
12
13
-20%
20%
CCT
6326 K
Duv
0.0020

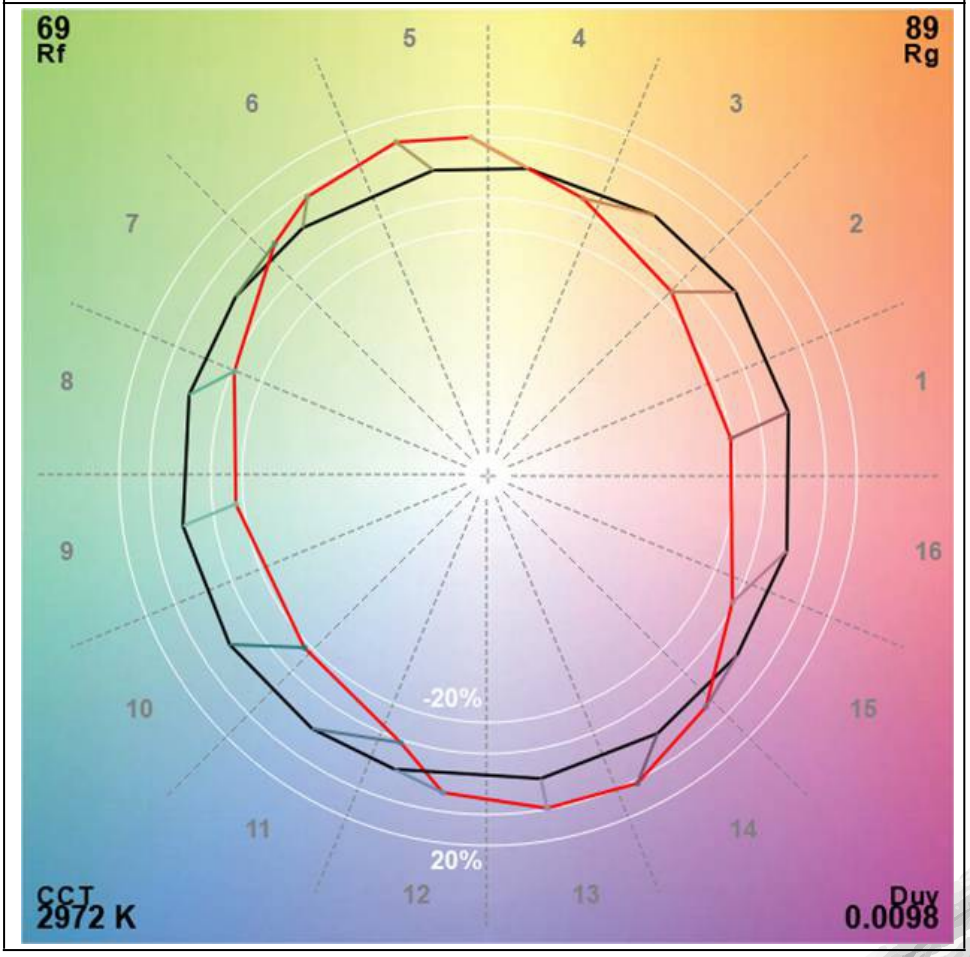
CTO

CIE x	0,4542
CIE y	0,4359
CIE Y	2420,89 lx
CCT	2972 K
Chromaticity Error	0,012
Duv	0,0098
Color Peak	587,13 nm
Color Peak Value	49,50 mW/m2/nm
Color Dominant	580,1 nm
Luminous Intensity	241,74 cd (A)



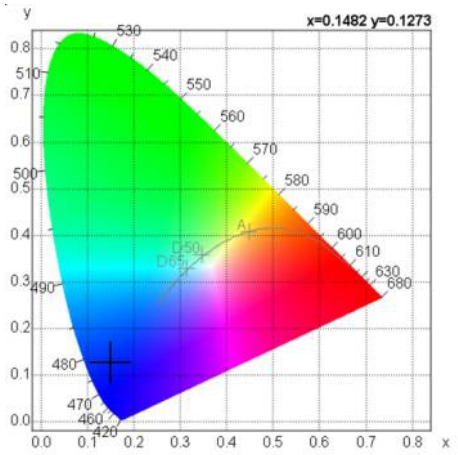


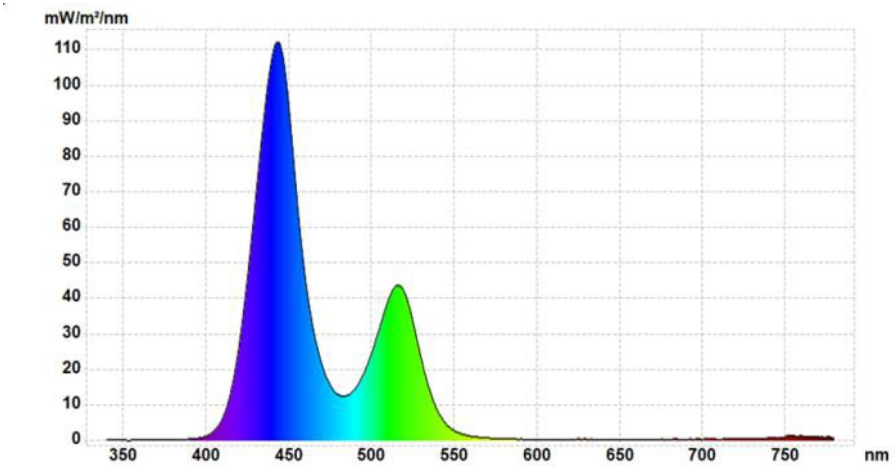

100
90
80
70
60
50
40
30
20
10
0
62.1
56.2
71.9
86.7
58.0
53.6
58.3
77.2
34.8
-62.1
35.0
46.8
22.9
58.0
92.1
47.7
Ra
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15


69
Rf
89
Rg
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
-20%
20%
CCT
2972 K
Duv
0.0098

CYAN

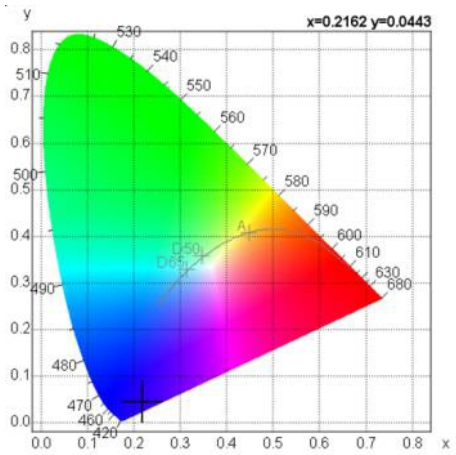
CIE x	0,1482
CIE y	0,1273
CIE Y	728,63 lx
CCT	- K
Chromaticity Error	0,210
Duv	0,1029
Color Peak	444,99 nm
Color Peak Value	112,02 mW/m2/nm
Color Dominant	474,8 nm
Luminous Intensity	72,76 cd (A)

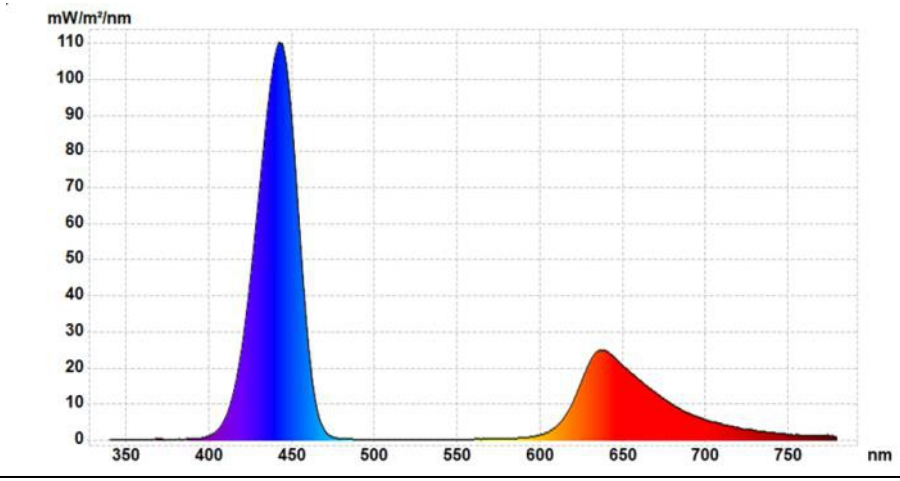




MAGENTA

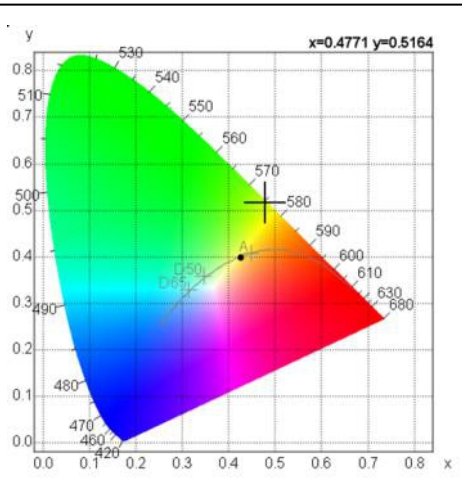
CIE x	0,2162
CIE y	0,0443
CIE Y	207,21 lx
CCT	- K
Chromaticity Error	0,333
Duv	0,2115
Color Peak	442,74 nm
Color Peak Value	110,22 mW/m2/nm
Color Dominant	360,0 nm
Luminous Intensity	20,69 cd (A)

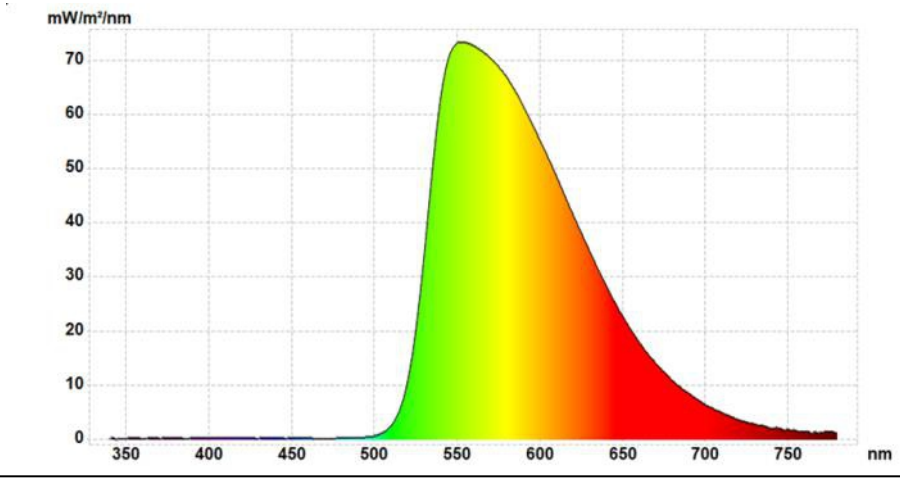




YELLOW

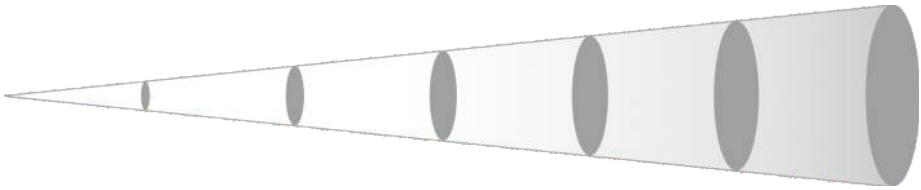
CIE x	0,4771
CIE y	0,5164
CIE Y	3454,19 lx
CCT	3173 K
Chromaticity Error	0,043
Duv	0,0334
Color Peak	552,87 nm
Color Peak Value	73,28 mW/m2/nm
Color Dominant	575,1 nm
Luminous Intensity	344,92 cd (A)





ILLUMINANCE ZOOM MIN [lx]

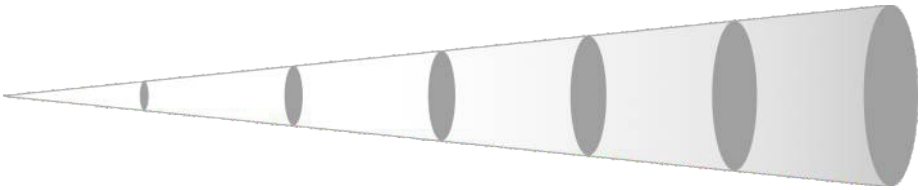
Beam angle 4°

Distance [m]	2,5	5	7,5	10	12,5	15
						
OPEN WHITE	185473	70720	32990	18994	12572	8794
CYAN	33180	N/A	N/A	N/A	N/A	N/A
MAGENTA	8797	N/A	N/A	N/A	N/A	N/A
YELLOW	149823	N/A	N/A	N/A	N/A	N/A
CTO	107532	N/A	N/A	N/A	N/A	N/A

N/A – Not Available

ILLUMINANCE ZOOM MAX [lx]

Beam angle 40°

Distance [m]	2,5	5	7,5	10	12,5	15
						
OPEN WHITE	5028	1527	733	410	268	193
CYAN	728	N/A	N/A	N/A	N/A	N/A
MAGENTA	207	N/A	N/A	N/A	N/A	N/A
YELLOW	3454	N/A	N/A	N/A	N/A	N/A
CTO	2421	N/A	N/A	N/A	N/A	N/A

N/A – Not Available

SPECIFICATION

- Light source: 400 W LED (7000 K)
- Color Rendering Index (CRI): 70.9
- Total lumen output: 12,000 lm
- Power consumption: 500 W
- Power supply: 230 V, 50–60 Hz AC
- Maximum current: 2.15 A
- Pan range: 540°
- Tilt range: 270°
- Pan/Tilt resolution: 16 bit
- CMY color mixing (8 bit / 16 bit)
- CTO filter (8 bit / 16 bit)
- Color wheel: 6 colors + white
- Electronic dimmer (8 bit / 16 bit)
- 4 selectable dimming curves
- Beam angle: 4°–40°
- Motorized zoom (16 bit)
- Motorized focus (16 bit)
- Electronic shutter / strobe: 1–20 Hz
- Random strobe and pulse effects
- Gobo wheel (rotating): 6 gobos + open
- Gobo wheel (static): 10 gobos + open
- Gobo rotation: 8 bit
- Removable gobo slot
- Prism 1: 4-facet circular
- Prism 2: 6-facet linear
- Iris
- Frost filter
- Operating modes: DMX512, Auto, Master/Slave, Sound active
- DMX channel modes: 27ch (Mode 1) / 27ch (Mode 2)
- LCD display with control buttons
- AC IN: PowerCON
- AC OUT: PowerCON
- DMX IN: 3-pin XLR
- DMX OUT: 3-pin XLR
- IP rating: Ip20
- Housing material: ABS
- Housing color: black
- Integrated mounting brackets
- Pan and Tilt transport lock
- Cooling: active
- Dimensions: H(67) × W(23) × D(36) cm
- Net weight: 22.6 kg



FLASH

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