BIG BEE EYE

INSTR MANUAL

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Congratulations on choosing our product!
We thank you for your custom.
Please note that this product, as all the others in the rich our range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

Carefully read this instruction manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

Our factory disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this instruction manual, which must always accompany the fitting. Our factory reserves the right to modify the characteristics stated in this instruction manual at any time and without prior notice.

• **Installation**

Make sure all parts for fixing the projector are in a good state of repair.
Make sure the point of anchorage is stable before positioning the projector.
The safety chain must be properly hooked onto the fitting and secured to the framework, so that, if the primary support system fails, the fitting falls as little as possible.
If the safety chain gets used, it needs to be replaced with a genuine spare.

LED $\quad$ 0.2 m

• **Minimum distance of illuminated objects**

The projector needs to be positioned so that the objects hit by the beam of light are at least 0.20 metres (8") from the lens of the projector.

• **Minimum distance from flammable materials**

The projector must be positioned so that any flammable materials are at least 0.20 metres (8") from every point on the surface of the fitting.

F

• **Mounting surfaces**

It is permissible to mount the fitting on normally flammable surfaces.

t_a 40°C

• **Maximum ambient temperature**

Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).

IP20

• **IP20 protection rating**

The fitting is protected against penetration by solid bodies of over 12mm (0.47") in diameter (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).

• **Protection against electrical shock**

Connection must be made to a power supply system fitted with efficient earthing (**Class I** appliance according to standard EN 60598-1).
It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

• **Connection to mains supply**

Connection to the electricity mains must be carried out by a qualified electrical installer.
Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.
This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.

t_c 90°C

• **Temperature of the external surface**

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 90°C (194°F).

• **Maintenance**

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.

Factory Menu:

On the LCD show "Display System" press OK button 5
seconds Code:XXXXXXXXX
KEY1:XXXXXXXXX[password：0000003758] adjust and correct function
KEY2:XXXXXXXXX
KEY3:XXXXXXXXX

Connecting to the mains supply - Fig. 1

DMX 512
5 PIN

SCREEN ⏚
SIGNAL —
SIGNAL —

DMX 512
3 PIN

SIGNAL —
SIGNAL —
SCREEN ⏚
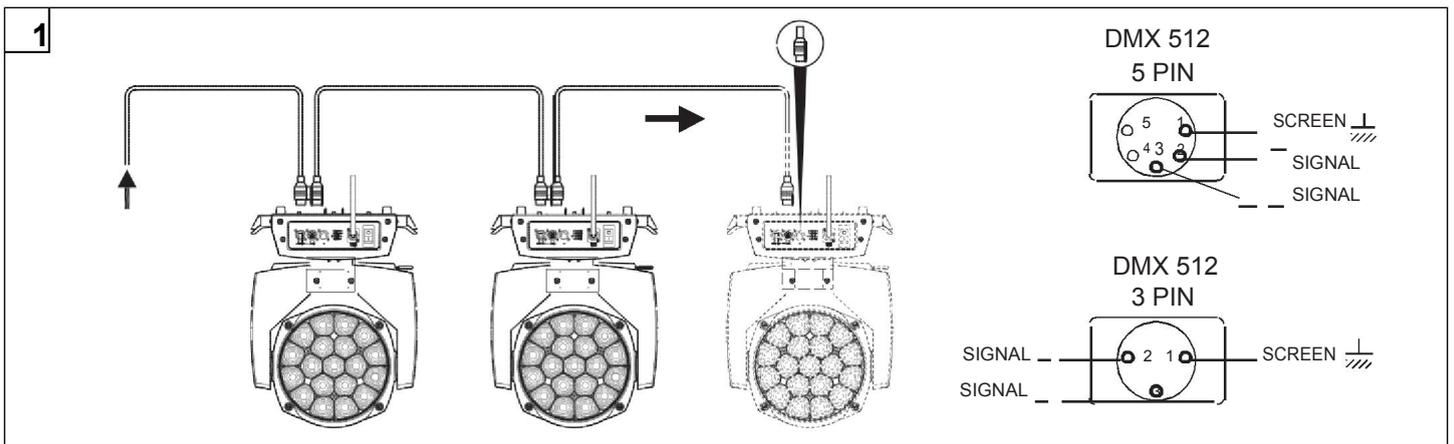
Connecting to the control signal line (DMX) - Fig. 1

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

MENU SETTING

1:Setup
  DMX adddre
  Auto Mod
  DMX 97CH Mode
  DMX 21CH Mode DMX 35CH Mod 78/92CH Mod
  ESC
2:Option
  pan
  tilt
  display
  colur
  backlight
  ESE
  Chine[隐1]
3:Information
  Display System
  Master System
  ESC

4:Reset
  All Reset
  PAN Reset
  TILT Reset
  ZOOM Reset
  Factory Default
  ESC
5:ESC

CAUSE ANDSOLUTION PROBLEMS

				THE PROJECTOR WILL NOT SWITCH ON		
				ELECTRONICS NON-OPERATIONAL		**PROBLEMS**
				DEFECTIVE PROJECTION		
				REDUCED LUMINOSITY		
				POSSIBLE CAUSES	*CHECKS AND REMEDIES*	
				No mains supply.	Check the power supply voltage.	
				LED exhausted or defective.	Call an authorized technician.	
				Signal transmission cable faulty or disconnected.	Replace the cables.	
				Incorrect addressing.	Check addresses (see instructions).	
				Fault in the electronic circuits.	Call an authorized technician.	
				Lenses or reflector broken	Call an authorized technician.	
				Dust or grease deposited.	Clean (see instructions).	

CAUTION:

- To avoid damage to the internal parts of the fixture when the fixture is not working, is recommended to turn the head down before turning the fixture off, so that the front lenses of the fixture are invested as little as possible from the sun.
- Set channel 20 (Zoom) to 100% (255-bit) before turning off the projector to facilitate the packaging of the projector.

CHANNEL FUNCTION

CH	21, 78, 97ch, first 21ch same
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	CTO
10	Macro colour
11 strobe	0-3: closed
	4: slow strobe (1 flash/sec)
	……
	103: fast strobe(25 flash/sec)
	104-107: open
	108: slow pulsation (0.5 flash/sec)
	……
	207：fast pulsation (25 flash/sec)
	208-212: open
	213-225: random slow strobe
	226-238: random medium strobe
	239-251: random fast strobe
	252-255: open
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine

CH	Function
18 led effect	0-37: no function
	38-42: Dimmer Curve 1
	43-47: Dimmer Curve 2
	48-52: Dimmer Curve 3 (Default)
	53-57: Dimmer Curve 4
	58-255: no function
19 reset	0-49: No function
	50-59: pan reset
	60-69: tilt reset
	70-79: zoom reset
	80-89: rotation reset
	90-99: system reset (full light reset)
	100-127: no function
	128-255: auto-running
	90-99: system reset (full light reset)
	100-127: no function
	128-255: auto-running
20	zoom
21	Rotation lens
22	Red LED 1
23	Green LED 1
24	Blue LED 1
25	White LED 1
26	Red LED 2
……	……
94	Red LED 3
95	Green LED 3
96	Blue LED 3
97	White LED 3

CH		35, 92 CHANNEL MODE
1	Red	Red dimmer/ background red dimmer
2	Red fine	
3	Green	Green dimmer/ background green dimmer
4	Green fine	
5	Blue	Blue dimmer/ background Blue dimmer
6	Blue fine	
7	White	White dimmer/ background white dimmer
8	White fine	
9	Linear CTO	Linear CTO, Color temperature control: the CTO and the foreground, background color temperature output depends on which one is first opened
10	Macro Color	Color: the color output and the foreground, background output depends on the first opened
11	Strobe	0-3: closed, 4: slow strobe (1 flash/sec), ……, 103: fast strobe(25 flash/sec) , 104 107: open , 108: slow pulsation (0.5 flash/sec), ……, 207：fast pulsation (25 flash/sec), 208-212: open, 213-225: random slow strobe, 226-238: random medium strobe, 239-251: random fast strobe, 252-255: open
12	Dimmer	Dimmer
13	Dimmer fine	
14	Pan	X motor
15	Pan fine	
16	Tilt	Y motor
17	Tilt fine	
18	Shapes function	0-37: no function, 38-42: Dimmer Curve 1, 43-47: Dimmer Curve 2, 48-52: Dimmer Curve 3 (Default), 53-57: Dimmer Curve 4, 58-255: no function
19	Reset	Reset
20	Zoom	Zoom motor
21	Zoom Rotation	Rotation motor
22	Foreground shape selection	Foreground shape selection, 0-3: no effect, 4-7: shape 1, 8-11: shape 2, Each 4 value to be a shape ……, 252-255: shape 63
23	Foreground Shape speed	Value: 0-20 Outer Ring Value: 20-40 Middle Ring Value: 40-63 Inner Ring / LED Value: 64-158 Automatic Ring Change from Speed Fast to Speed Low counterclockwise direction Value: 159-160 Stop (last position of Ring) Value: 160-255 Automatic Ring Change from Low Speed to Fast Speed clockwise direction Value: 0 - Value: 10 / Value: 20 I Value: 30 \ Value: 40 - Value: 50 I Value: 64-158 Line is rotating from fast to slow counterclockwise direction Value: 159-160 Stop (last position of line rotating) Value: 160-255 line is rotating from Low Speed to Fast Speed clockwise direction
24	Foreground Shape fade	Foreground shape fade
25	Foreground Shape R	Foreground shape red dimmer
26	Foreground Shape G	Foreground shape green dimmer
27	Foreground Shape B	Foreground shape blue dimmer
28	Foreground Shape W	Foreground shape white dimmer
29	Foreground Shape dimmer	Foreground shape dimmer
30	Background Dimmer	Background Dimmer
31	Foreground Shape transition	Foreground shape transition
32	Foreground Shape offset	Foreground shape offset
33	Foreground strobe	Foreground strobe
34	Background strobe	Background strobe
35	Background select	Background select, 0-9: no effect, 10-19: shape 1, 20-29: shape 2, ……, per 10 valu be a shape, 250-255: the last shape.

Big-EYE L10 CHANNEL LIST

	STANDARD		SHAPE		EXTENDED		EXTENDED RGBW		FULL
Ch	Channel Mode	Ch	Channel Mode	Ch	Channel Mode	Ch	Channel Mode	Ch	Channel Mode
1	Red	1	Red	1	Red	1	Red	1	Red
2	Red fine	2	Red fine	2	Red fine	2	Red fine	2	Red fine
3	Green	3	Green	3	Green	3	Green	3	Green
4	Green fine	4	Green fine	4	Green fine	4	Green fine	4	Green fine
5	Blue	5	Blue	5	Blue	5	Blue	5	Blue
6	Blue fine	6	Blue fine	6	Blue fine	6	Blue fine	6	Blue fine
7	White	7	White	7	White	7	White	7	White
8	White fine	8	White fine	8	White fine	8	White fine	8	White fine
9	Linear CTO	9	Linear CTO	9	Linear CTO	9	Linear CTO	9	Linear CTO
10	Macro color	10	Macro color	10	Macro color	10	Macro color	10	Macro color
11	Strobe	11	Strobe	11	Strobe	11	Strobe	11	Strobe
12	Dimmer	12	Dimmer	12	Dimmer	12	Dimmer	12	Dimmer
13	Dimmer fine	13	Dimmer fine	13	Dimmer fine	13	Dimmer fine	13	Dimmer fine
14	Pan	14	Pan	14	Pan	14	Pan	14	Pan
15	Pan fine	15	Pan fine	15	Pan fine	15	Pan fine	15	Pan fine
16	Tilt	16	Tilt	16	Tilt	16	Tilt	16	Tilt
17	Tilt fine	17	Tilt fine	17	Tilt fine	17	Tilt fine	17	Tilt fine
18	Function	18	Function	18	Function	18	Function	18	Function
19	Reset	19	Reset	19	Reset	19	Reset	19	Reset
20	Zoom	20	Zoom	20	Zoom	20	Zoom	20	Zoom
21	Zoom Rotation	21	Zoom Rotation	21	Zoom Rotation	21	Zoom Rotation	21	Zoom Rotation
		22	Shape selection	22	Red Led 1	22	Red Led 1	22	Shape selection
		23	Shape speed	23	Green Led 1	23	Green Led 1	23	Shape speed
		24	Shape fade	24	Blue Led 1	24	Blue Led 1	24	Shape fade
		25	Shape R	......	Red Led...	25	White Led 1	25	Shape R
		26	Shape G	76	Red Led 19	....	Red Led...	26	Shape G
		27	Shape B	77	Green Led 19	....	Green Led....	27	Shape B
		28	Shape W	78	Blue Led 19	....	Blue Led....	28	Shape W
		29	Shape Dimmer			....	White Led....	29	Shape Dimmer
		30	Background Dimmer			90	Red Led 18	30	Background Dimmer
		31	Shape transition			91	Green Led 18	31	Shape transition
		32	Shape offset			92	Blue Led 18	32	Shape offset
		33	Foreground strobe			93	White Led 18	33	Foreground strobe
		34	Background strobe			94	Red Led 19	34	Background strobe
		35	Background select			95	Green Led 19	35	Background select
						96	Blue Led 19	....	Red Led 1
						97	White Led 19	.…	Green Led 1
								....	Blue Led 1
								90	Red Led 1
								91	Green Led 19
								92	Blue Led 19

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 50% - Tilt 50%) all the others channels stay at 0%.

• **RED – GREEN - BLUE - WHITE**

BIT	EFFECT
255	COLOUR INSERTED
0	COLOUR EXCLUDED

• **RED FINE – GREEN FINE – BLUE FINE – WHITE FINE**

BIT	EFFECT
255	
0	

• **C.T.O.**

BIT	EFFECT
255	2500
250	2600
246	2700
242	2800
237	2900
233	3000
228	3100
224	3200
219	3300
215	3400
210	3500
206	3600
201	3700
197	3800
192	3900
188	4000
184	4100
179	4200
175	4300
170	4400
166	4500
161	4600
157	4700
152	4800
148	4900
144	5000
139	5100
135	5200
130	5300
126	5400
121	5500
117	5600
112	5700
108	5800
103	5900
99	6000
95	6100
90	6200
86	6300
81	6400
77	6500
72	6600
68	6700
63	6800
59	6900
54	7000
50	7100
46	7200
41	7300
37	7400
32	7500
28	7600
23	7700
19	7800
14	7900
10	8000
0-9	UNUSED RANGE

Note: If CTO channel is active, the WHITE channel is disabled.

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• RED
  GREEN
  BLUE
  WHITE

BIT	EFFECT
255	LED ON
0	LED OFF

• RED FINE
  GREEN FINE
  BLUE FINE
  WHITE FINE

BIT	EFFECT
255	UP
0	LOW

• LINEAR CTO

BIT	EFFECT
255	2500 K
...	...
52?	3200 K
...	...
188	4000 K
...	...
144	5000 K
...	...
117	5600 K
...	...
99	6000 K
...	...
64	7000 K
...	...
10	8000 K
0-9	UNUSED RANGE

Note: If CTO channel is active, the WHITE channel is disabled.

• MACRO COLOUR

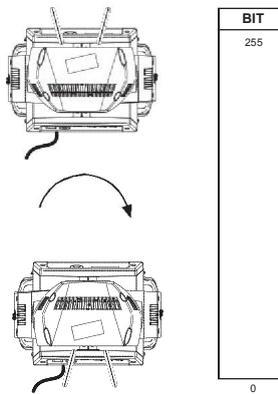| BIT	LEE REFERENCE	COLOUR	R	G	B	W
209-255	-	White	255	255	66	255
208	-	Dirty White	255	255	122	255
207	187	Alice Blue	128	255	143	0
191-206	181	Congo Blue	77	0	255	0
184-190	174	Dark Steel Blue	181	255	95	0
180-183	170	Deep lavender	255	168	64	0
179	169	Lilac Tint	255	190	49	0
175-178	165	Daylight Blue	82	214	90	0
174	164	Flame Red	255	46	2	0
172-173	162	Bastard Amber	255	181	28	0
168-171	158	Deep Orange	222	84	0	0
162-167	152	Pale Gold	253	171	26	0
157-161	147	Apricot	255	143	13	0
151-156	141	Bright Blue	0	255	87	0
149-150	139	Primary Green	77	255	0	0
147-148	137	Special lavender	219	197	79	0
146	136	Pale Lavender	255	197	61	0
145	135	Deep Golden Amber	255	56	0	0
142-144	132	Medium Blue	0	255	143	0
138-141	128	Bright Pink	255	53	36	0
136-137	126	Mauve	227	41	56	0
134-135	124	Dark Green	84	255	13	0
131-133	121	Leaf Green	206	255	0	0
129-130	119	Dark Blue	0	186	255	0
128	118	Light Blue	74	255	82	0
127	117	Steel Blue	206	255	56	0
126	116	Mod Blu Green	206	255	56	0
125	115	Peacock Blue	51	255	51	0
123-124	113	Magenta	255	20	15	0
121-122	111	Dark Pink	255	109	33	0
120	110	Middle Rose	217	130	28	0
119	109	Light Salmon	255	133	31	0
118	108	English Rose	255	148	23	0
117	107	Light Rose	255	141	31	0
115-116	105	Orange	255	122	0	0
114	104	Deep Amber	255	166	0	0
113	103	Straw	230	160	0	69
112	102	Light Amber	237	163	0	0
110-111	100	Spring Yellow	245	202	0	0
100-109	90	Dark yellow green	41	219	0	0
89-99	79	Just Blue	0	194	130	0
78-88	68	Sky Blue	0	255	135	0
68-77	58	Lavender	243	117	133	199
62-67	52	Light Lavender	243	117	39	197
49-61	39	Pink Carnation	255	107	0	130
46-48	36	Medium Pink	255	87	0	107
45	35	Light Pink	255	112	0	141
35-44	25	Sunrise Red	255	83	2	0
32-34	22	Dark Amber	255	65	0	0
31	21	Gold Amber	255	100	0	0
30	20	Medium Amber	255	135	0	0
29	19	Fire	255	56	0	0
27-28	17	Surprise Peach	198	114	9	0
23-26	13	Straw Tint	152	113	9	0
20-22	10	Medium Yellow	156	126	0	0
19	-	Black	0	0	0	0
18	-	White 5000 K	255	137	0	193
17	-	White 3700 K	255	201	25	255
16	-	White 7000 K	216	237	61	255
15	-	Magenta	255	0	255	0
14	-	Yellow	255	255	0	0
13	-	Cyan	0	255	255	0
12	-	Blue	0	0	255	0
11	-	Green	0	255	0	0
10	-	Red	255	0	0	0
0-9	-	Macro color OFF	-	-	-	-

• PAN

Operation with option Invert Pan G *Off*

(Tilt conventionally represented at 14% and option Invert Tilt G *Off)*

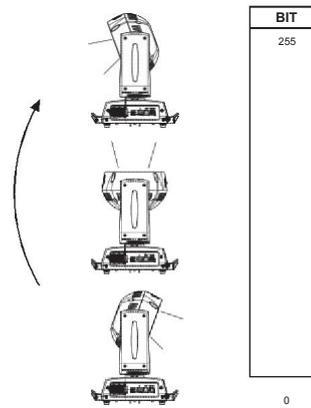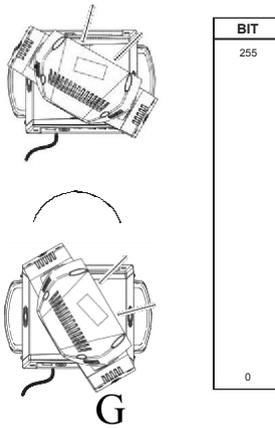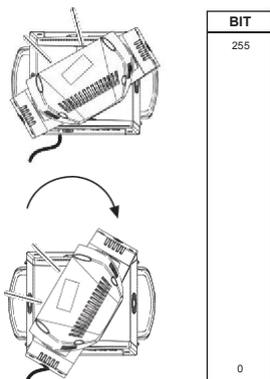*(Tilt conventionally represented at 14% and option Invert Tilt* G *Off)*

• PAN FINE

Operation with option InvertPan G *Off*

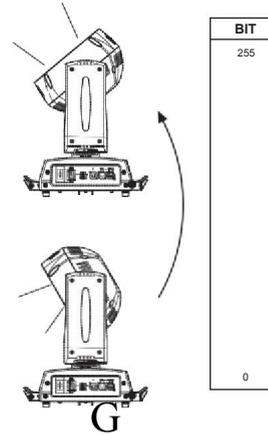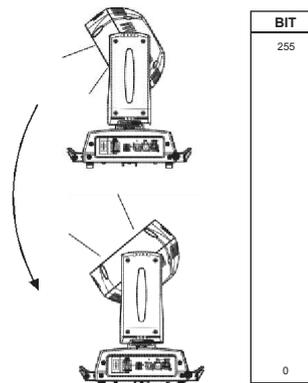*(Tilt conventionally represented at 14% and option Invert Tilt* G *Off)*

G

*(Tilt conventionally represented at 14% and option Invert Tilt* G *Off)*

• TILT

Operation with option Invert Pan G *Off*

(Tilt conventionally represented at 14% and option Invert Tilt G *Off)*

G

(Tilt conventionally represented at 14% and option Invert Tilt G *Off)*

• TILT FINE

Operation with option InvertPan G *Off*

(Tilt conventionally represented at 14% and option Invert Tilt G *Off)*

G

(Tilt conventionally represented at 14% and option Invert Tilt G *Off)*

• FUNCTION

BIT	EFFECT
58-255	No function
53 – 57	Dimmer Curve 4
48 – 52	Dimmer Curve 3 (Default)
43 – 47	Dimmer Curve 2
38 – 42	Dimmer Curve 1
0 – 37	No function

The functions are activated passing through the "unused range" and staying 5 seconds in necessary level.
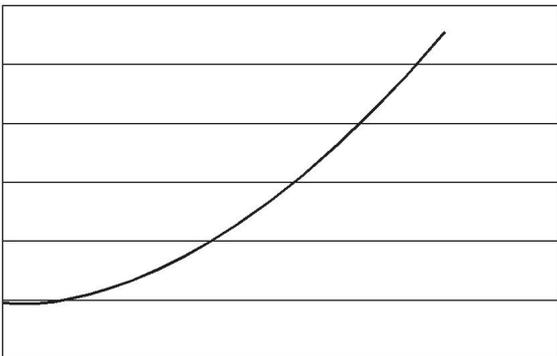Last selected function still active. Enable setting a new function.
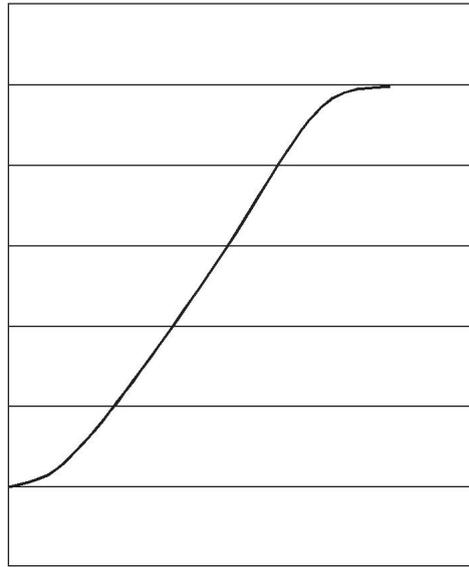
DIMMER CURVE 1 - GAMMA 1 LINEAR
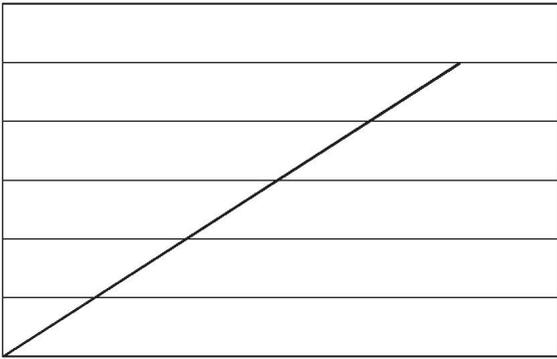
DIMMER CURVE 2 - GAMMA 1,5
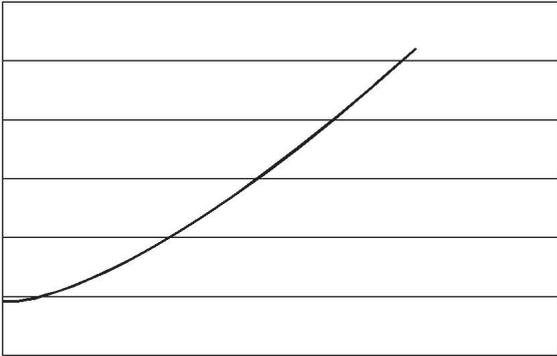
DIMMER CURVE 3 - GAMMA 2,0

DIMMER CURVE 4 - S

• RESET

BIT	EFFECT
255	COMPLETE RESET
	Complete reset is activated passing through the unused range and staying 5 seconds in complete reset levels
128	COMPLETE RESET
127	PAN / TILT RESET
	Pan / Tilt reset is activated passing through the unused range and staying 5 seconds in Pan / Tilt reset levels
77	PAN / TILT RESET
76	ZOOM RESET
	Effects reset is activated passing through the unused range and staying 5 seconds in Effects reset levels.
26	ZOOM RESET
25	
0	UNUSED RANGE

* Automatic gamma is calculated based on background intensity to auto-adapt the shape's fade.

• LENSES ROTATION

BIT	EFFECT
255	FAST ROTATION
193	SLOW ROTATION
191 - 192	STOP
190	SLOW ROTATION
128	FAST ROTATION
127	
	LINEAR ROTATION
0	

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- **ZOOM**
- **SHAPE SMOOTHING**

BIT	EFFECT
255	WIDE BEAM
⋮	
0	NARROW BEAM

BIT	EFFECT
246-255	Smooth, fading curve with automatic gamma
* 245	Smooth, fading curve gamma 2
244	Smooth, fading curve gamma 1,993
243	Smooth, fading curve gamma 1,986
⋮	
18	Smooth, fading curve gamma 0,513
17	Smooth, fading curve gamma 0,506
16	Smooth, fading curve gamma 0,5
0-15	Snap

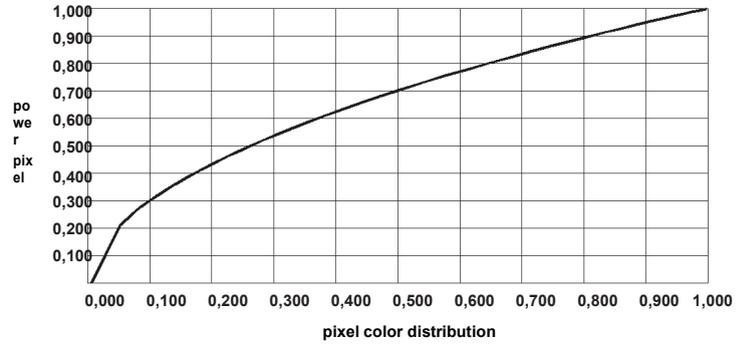* Automatic gamma is calculated based on background intensity to auto-adapt the shape's fade.

- **SHAPE R G B W**

BIT	EFFECT
255	COLOUR INSERTED
0	COLOUR EXCLUDED

DMX BIT: 16   Fading gamma: 0,500

Gamma Curve

- **SHAPE INTENSITY**

BIT	EFFECT
255	COLOUR INSERTED
0	COLOUR EXCLUDED

DMX BIT: 92   Fading gamma: 0,997
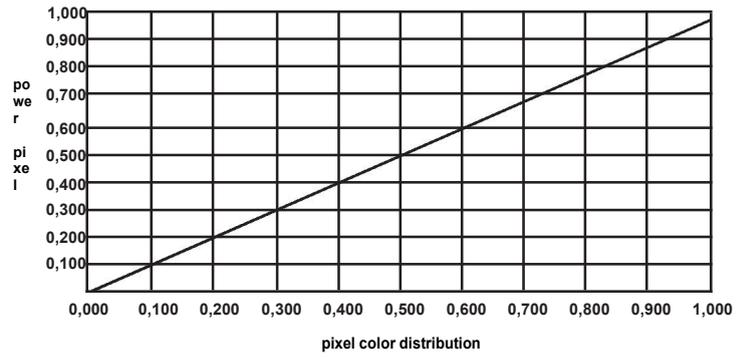
Gamma Curve

- **BACKGROUND INTENSITY**

BIT	EFFECT
255	COLOUR INSERTED
0	COLOUR EXCLUDED

DMX BIT: 245   Fading gamma: 2,000

Gamma Curve