CHANNEL FUNCTION

A.LEDA B-EYE K10 EASY



BASIC ENGINE

STANDARD

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom

SHAPES

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Shape Selection
22	Shape Speed
23	Shape Fade
24	Shape R
25	Shape G
26	Shape B
27	Shape W
28	Shape Dimmer
29	Background Dimmer
30	Shape Transition
31	Shape Offset
32	Foreground Strobe
33	Background Strobe
34	Background Select

PIXEL ENGINE

Pixel Engine need to be enabled through the FUNCTION channel (bit 103-105).

RGB

CHAN- NEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
	Red LED
	Green LED
	Blue LED
55	Red LED 19
56	Green LED 19
57	Blue LED 19

RGBW

CHAN- NEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
4	White LED 1
	Red LED
	Green LED
	Blue LED
	White LED
73	Red LED 19
74	Green LED 19
75	Blue LED 19
76	White LED 19

A.LEDA B-EYE K10

BASIC ENGINE

STANDARD

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Zoom Rotation

SHAPES

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Zoom Rotation
22	Shape Selection
23	Shape Speed
24	Shape Fade
25	Shape R
26	Shape G
27	Shape B
28	Shape W
29	Shape Dimmer
30	Background Dimmer
31	Shape Transition
32	Shape Offset
33	Foreground Strobe
34	Background Strobe
35	Background Select

PIXEL ENGINE

Pixel Engine need to be enabled through the FUNCTION channel (bit 103-105).

RGB

CHAN- NEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
	Red LED
	Green LED
	Blue LED
55	Red LED 19
56	Green LED 19
57	Blue LED 19

RGBW

CHAN- NEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
4	White LED 1
	Red LED
	Green LED
	Blue LED
	White LED
73	Red LED 19
74	Green LED 19
75	Blue LED 19
76	White LED 19

A.LEDA B-EYE K20

BASIC ENGINE

STANDARD

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Zoom Rotation

SHAPES

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Zoom Rotation
22	Shape Selection
23	Shape Speed
24	Shape Fade
25	Shape R
26	Shape G
27	Shape B
28	Shape W
29	Shape Dimmer
30	Background Dimmer
31	Shape Transition
32	Shape Offset
33	Foreground Strobe
34	Background Strobe
35	Background Select

PIXEL ENGINE

Pixel Engine need to be enabled through the FUNCTION channel (bit 103-105).

RGB

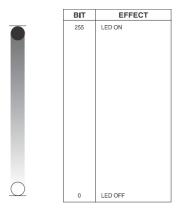
CHAN- NEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
	Red LED
	Green LED
	Blue LED
109	Red LED 37
110	Green LED 37
111	Blue LED 37

RGBW

CHAN- NEL	CHANNEL MODE
1	Red LED 1
2	Green LED 1
3	Blue LED 1
4	White LED 1
	Red LED
	Green LED
	Blue LED
	White LED
145	Red LED 37
146	Green LED 37
147	Blue LED 37
148	White LED 37

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 128 bit - Tilt 128 bit) all the others channels stay at 0 bit,

• RED GREEN BLUE WHITE



• RED FINE GREEN FINE BLUE FINE WHITE FINE



BIT	EFFECT
255	UP UP
0	LOW

• LINEAR CTO

BIT	EFFECT
255	2500 K
224	3200 K
188	4000 K
144	5000 K
117	5600 K
99	6000 K
54	7000 K
10	8000 K
0-9	UNUSED RANGE

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

• MACRO COLOUR

WIACHO	LEE		В	IT V	<u> </u>	F
BIT	REFERENCE	COLOUR	R	G	В	w
209-255	-	White	255	235	66	255
208	-	Dirty White	255	255	122	255
207	197	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
179 175-178	169 165	Lilac Tint	255	199 214	49	0
175-176	164	Daylight Blue Flame Red	82 255	46	90 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
146 145	136 135	Pale Lavender	255 255	197	61 0	0
142-144	132	Deep Golden Amber Medium Blue	0	58 255	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	Med Blu Green	206	255	56	0
125	115	Peacock Blue	51	255	51	0
123-124 121-122	113 111	Magenta Dark Pink	255 255	20 109	15 33	0
120	110	Middle Rose	217	130	28	0
119	109	Light Salmon	255	138	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 89-99	90 79	Dark yellow green Just Blue	41 0	219 194	0 130	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 29	20 19	Medium Amber Fire	255	135	0	0
27-28	17	Surprise Peach	255 198	56 114	9	0
23-26	13	Straw Tint	152	115	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 11	-	Blue	0	0 255	255 0	0
10		Green Red	255	0	0	0
0-9	_	Macro color OFF	-	-	-	-

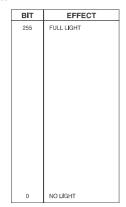
• STOP STROBE - FOREGROUND STROBE - BACKGROUND STROBE



BIT	EFFECT
252 - 255	OPEN
239 - 251	RANDOM FAST STROBE
226 - 238	RANDOM MEDIUM STROBE
213 - 225	RANDOM SLOW STROBE
208 - 212	OPEN
207	FAST PULSATION (25 flash/sec)
108 104 - 107 103	SLOW PULSATION (0,5 flash/sec) OPEN FAST STROBE (25 flash/sec)
4	SLOW STROBE (1 flash/sec)
0 - 3	CLOSED

• DIMMER





• DIMMER FINE

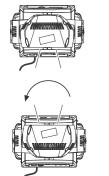


• PAN FINE

BIT	EFFECT
255	UP
0	LOW

BIT 255

• PAN



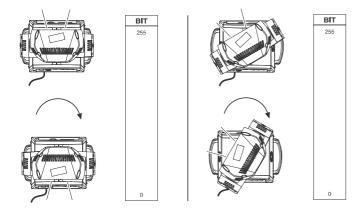






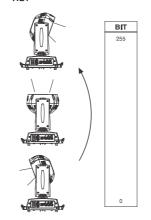


Operation with option InvertPan \(\hat{\chi} \) Off

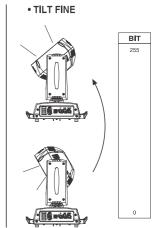


Operation with option InvertPan \ \ \ On

• TILT



Operation with option InvertTilt \\$\cap\$ Off



BİT BIT

Operation with option InvertTilt \hspace On

• FUNCTION

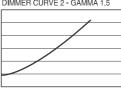
BIT	EFFECT
106 - 255	Reserved
103 - 105	Pixel map enabled
98 – 102	Halogen Lamp Simulation - Linear CTO @ 0 bit - 2500 W
93 – 97	Halogen Lamp Simulation - Linear CTO @ 0 bit - 2000 W
88 – 92	Halogen Lamp Simulation - Linear CTO @ 0 bit - 1200 W
83 - 87	Halogen Lamp Simulation - Linear CTO @ 0 bit - 1000 W
78 – 82	Halogen Lamp Simulation - Linear CTO @ 0 bit - 750 W
73 – 77	Halogen Lamp Simulation OFF (Default)
68 – 72	RGBW Gamma curve 3 – gamma = 2.0
63 – 67	RGBW Gamma curve 2 – gamma = 1.5 (Default)
58 – 62	RGBW Gamma curve 1 – gamma = 1.0
53 – 57	Dimmer Curve 4
48 – 52	Dimmer Curve 3 (Default)
43 – 47	Dimmer Curve 2
38 – 42	Dimmer Curve 1
25 – 37	Pan Tilt Normal
12 - 24	Pan Tilt Fast (Default)
0-11	Unused Range

The functions are activated / selected passing through the " unused levels range " and staying in the necessary range for 5 seconds (except for the "Pixel map enabled" which is immediate). The last selected function remains active.

DIMMER CURVE 1 - GAMMA 1 LINEAR



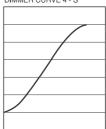
DIMMER CURVE 2 - GAMMA 1,5



DIMMER CURVE 3 - GAMMA 2,0



DIMMER CURVE 4 - S



• RESET

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

• ZOOM



BIT	EFFECT
255	WIDE BEAM
0	NARROW BEAM

• ZOOM ROTATION



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

• ZOOM ROTATION (available on zoom channel from 0 bit to 45 bit)

BIT	MACRO EFFECT
193-255	CCW Rotation, speed from 3 RPH to 10 RPM
191-192	Stop rotation
128-190	CW Rotation, speed from 10 RPM to 3 RPH
127	Indexed zone. Lens angle = 60.00
126	Indexed zone. Lens angle = 59.52
3	Indexed zone. Lens angle = 1.42
2	Indexed zone. Lens angle = 0.94
1	Indexed zone. Lens angle = 0.47
0	Indexed zone. Lens angle = 0

• ZOOM ROTATION (available on zoom channel at 255 bit only)

BIT	MACRO EFFECT
128-255	Lens offset angle: 0.00 degree
127	Lens offset angle: +4.00 degree
126	Lens offset angle: +3.94 degree
125	Lens offset angle: +3.87 degree
1	Lens offset angle: +0.06 degree
0	Lens offset angle: 0.00 degree

• RED LED 1 to... GREEN LED 1 to... BLUE LED 1 to... WHITE LED 1 to...



BIT	EFFECT
255	LED ON
0	LED OFF

SHAPE SP	EED-9	HAPE OFFSET -	SHAPE	FADE	- BACKGROUI	ND SELECT		I		I
Shape Selection	Shape Slot	Macro Name	On K10	On K20	Description	Random colors *1	SHAPE SPEED	SHAPE OFFSET	SHAPE FADE	BACKGROUND SELECT (*3)(*4)
0-7	-	Macro OFF	Yes	Yes		N.a.	N.a.	N.a.	N.a.	N.a.
9	2	Pixel 1 Ring 1	Yes Yes	Yes				N.a.		For K10: 0-7 = wash
10	3	Ring 2	Yes	Yes	Static effects.					8-15 = Bkgnd rings
11	4	Ring 3	No	Yes	Otatio circoto.					selection
12	5	Pixel 1+Ring 1	Yes	Yes	The ring or				0-15 = Snap effect	16-255 = wash
13	6	Pixel 1+Ring 2	Yes	Yes	rings used by	N.a.	N.a.		16-255 = Fade effect	
14	7	Pixel 1+Ring 3	No	Yes	the macro are turned-on with the foreground colour.				and gamma selection	For K20: 0-7 = wash 8-23 = Bkgnd rings selection 24-255 = wash
15	8	Single ring (Ramp -/+)	Yes	Yes		Yes	0-63 = Radius size, static. 64-158 = max to min speed, Closing effect	0-9 → continuous 10-255 → random distribution of flash		For K10: 0-7 = wash
16	9	Filled rings (ramp -/+)	Yes	Yes		Yes	159-160 = STOP 161-255 = min to max speed, Opening effect		0-15 = Snap effect 16-255 = Fade effect	8-15 = Bkgnd rings selection 16-255 = wash
17	10	Open/Close 1	Yes	Yes		Yes	0-63 = Radius size, static. 64-158 = max to min speed, Closing effect		and gamma selection	For K20: 0-7 = wash
18	11	Open/Close 2	Yes	Yes		Yes	159-160 = STOP 161-255 = min to max speed, Opening effect			8-23 = Bkgnd rings selection 24-255 = wash
19	12	Random pixels 1	Yes	Yes		Yes	0-63 = STOP	0-255 → select random distribution from 2 up to 20 fixtures		For K10: 0-7 = wash 8-15 = Bkgnd rings selection
20	13	Random pixels 2	Yes	Yes		Yes	64-158 = max to min speed, Instant-on + fadeout. 159-160 = STOP. 161-255 = min to max speed, FadeIn + FadeOut.	0-255 → select pixel density	0-15 = Snap effect 16-255 = Fade effect and gamma selection	16-254 = wash For K20: 0-7 = wash 8-23 = Bkgnd rings selection 24-254 = wash All Fixtures: 255 = Mirror Effect
21	14	Rainbow 1 (Variable speed)	Yes	Yes		N.a.	0-63 = Angle 0-360°, static. 64-158 = max to min speed,	0-255 → angle offset from 0 to 360°	0-15 = Snap effect 16-255 = Fade effect and gamma selection	For K10: 0-7 = wash 8-15 = Bkgnd rings selection 16-255 = wash For K20: 0-7 = wash 8-23 = Bkgnd rings selection 24-255 = wash
22	15	Rainbow 2 (Fixed speed with variable color offset)	Yes	Yes		N.a.	0-63 = STOP 64-158 = c.cw rotation 159-160 = STOP 161-255 = cw rotation The value 64-158 or 161-255 change the rainbow angle offset (the orange starting angle).	N.a.	0-15 = Snap effect 16-255 = Fade effect and gamma selection	For K10: 0-7 = wash 8-15 = Bkgnd rings selection 16-255 = wash For K20: 0-7 = wash 8-23 = Bkgnd rings selection 24-255 = wash
23	16	Fan	Yes	Yes				0-255 → angle offset from 0 to 360°		For K10: 0-7 = wash
24	17	Bar 1	Yes	Yes						8-15 = Bkgnd rings selection 16-255 = wash
25	18	Half moon	Yes	Yes			0-63 = angle offset, 0-360°		0.15	For K20: 0-7 = wash 8-23 = Bkgnd rings
26	19	Triangle	Yes	Yes		N.a.	64-158 = max to min speed, c.cw rotation 159-160 = STOP		0-15 = Snap effect 16-255 = Fade effect and gamma selection	selection 24-255 = wash
27	20	Segment 1	Yes	Yes			161-255 = min to max speed, cw rotationt			For all fixtures: - Macro 25, 26 255 = Mirror Effect with
28	21	Arc 1	Yes	Yes						bkgnd color - Macro 27, 28, 29 255 = Show Alternative
29	22	Arc 2	Yes	Yes						Color

^{*1:} Random colors activation with foreground R,G,B,W = 0
*2: Aleda K10: macro 65 = Random on ring 1+3; macro 66 = Random on ring 2+3

^{*3:} See Aleda K10 Background Rings Selection table *4: See Aleda K20 Background Rings Selection table

Shape Selection	Shape Slot	Macro Name	On K10	On K20	Description	Random colors *1	SHAPE SPEED	SHAPE OFFSET	SHAPE FADE	BACKGROUND SELECT (*3)(*4)
30	23	Bar 2 (Variable size)	Yes	Yes		N.a.		0-255 → select shape width	Linear fade	
31	24	Random explosion	Yes	Yes		Yes		0-255 → select	Linear fade and wake	
32	25	Segment 2	Yes	Yes				0-255 → select shape width	length	
33	26	x Bump	No	Yes				0-255 → select macro offset		
34	27	Image	No	Yes				macro onset	Linear fade	
35	28	Bumping section	Yes	Yes					Lilleal laue	
36	29	Ramp by 6	Yes	Yes				0-255 → select shape width		
37	30	Ramp by 4	Yes	Yes				Shape widin		
38	31	Left/Right	Yes	Yes					Linear fade and wake length	
		scrolling bar Up/Down	.,	.,						
39	32	scrolling bar	Yes	Yes				0-255 → select		
40	33	Bar 3	Yes	Yes				macro offset		
41	34	Vertical arc 1	No	Yes						
42	35	Vertical arc 2	Yes	Yes					Linear fade	
43	36	Horizontal arc 1	No	Yes						
44	37	Horizontal arc 2	Yes	Yes				0.0EE coloct		
45	38	Mirrored pixel	Yes	Yes				0-255 → select shape width		Fan 1/40.
46	39	Pixel animation 1	Yes	Yes						For K10: 0-7 = wash
47	40	Pixel animation 2	Yes	Yes		N.a.				8-15 = Bkgnd rings selection
48	41	Pixel animation 3	Yes	Yes					Linear fade and wake length	16-254 = wash 255 = Mirror effect with
49	42	Pixel animation 4	Yes	Yes						bkgnd color
50	43	Pixel animation 5	Yes	Yes			0-63 = STOP, indexed speed			For K20: 0-7 = wash
51	44	Semi arc (Ramp - /+)	Yes	Yes			64-158 = max to min speed, c.cw rotation.			8-23 = Bkgnd rings selection
52	45	Bumping arc section	Yes	Yes			159-160 = STOP.	0-255 → select macro offset	Linear fade	24-254 = wash 255 = Mirror effect with
53	46	Pixel animation 6	Yes	Yes			161-255 = min to max speed cc rotation.			bkgnd color
54	47	Vertical ramp by 2	Yes	Yes				0-255 → select shape width	Linear fade and wake	Note:
55	48	Following pixel by 2	Yes	Yes					length	Mirror effect unavailable for macro
56	49	Syncopation	Yes	Yes				0-255 → select macro offset		31. Macro 67, 68, 69: the
57	50	Bumping 1	Yes	Yes					Linear fade	mirror effect is available only for options 1, 3, 9
58	51	Bumping 2	Yes	Yes						orny for options 1, 0, 0
59	52	Bumping 3	Yes	Yes						
60	53	Vertical pixel scrolling	Yes	Yes				0-255 → select macro width	Linear fade and wake length	
61	54	Random vertical section	Yes	Yes				0-255 → select		
62	55	Random central section	Yes	Yes		Yes		Tanaom distribution		
63	56	Random ring 2	Yes	Yes		Yes			Linear fade	
64	57	Random ring 3	No	Yes		Yes				
65	58	Random ring 1+3	Yes (*2)	Yes		Yes				
66	59	Random ring 2+3	Yes (*2)	Yes		Yes				
67	60	Single pixel ring	Yes	Yes				0-255 → select the number of rotating		
68	61	Single pixel ring	Yes	Yes					Linear fade and wake	
69	62	Single pixel ring	No	Yes		N.a.			length	
70	63	Spiral	Yes	Yes				0-255 → select macro width	Linear fade and wake length	
71-255	64					N.a.	N.a.	N.a.	N	a.

• SHAPE FADE

BIT	EFFECT
246-255 245 243 244 244	Smooth, fading curve with automatic gamma * Smooth, fading curve gamma 1,866 Smooth, fading curve gamma 1,993
18 17 16 0-15	Smooth, fading curve gamma 0,513 Smooth, fading curve gamma 0,506 Smooth, fading curve gamma 0,5 Snap

SHAPE RGBW SHAPE DIMMER BACKGROUND DIMMER



BIT	EFFECT
255	LED ON
0	LED OFF

• SHAPE TRANSITION

BIT	EFFECT
255	4 sec
216	3 sec
171	2 sec
113	1 sec
73	0,5 sec
5	100 ms
0-4	No fade

BACKGROUND SELECT Aleda K10 - Background select

BIT	EFFECT
255	Mirror effect
16-254	No selection
15	Ring 2 + Ring 3
14	Pixel 1 + Ring 2 + Ring 3
13	Pixel 1 + Ring 2
12	Pixel 1 + Ring 3
11	Ring 3
10	Ring 2
9	Pixel 1
8	No selection

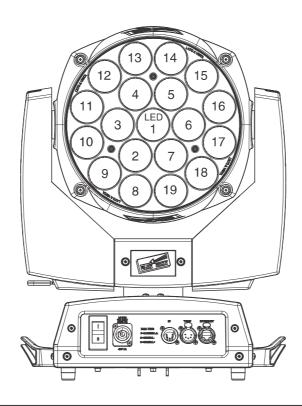
Aleda K20 - Background select

BIT	EFFECT
255	Mirror effect
24-254	No selection
1	L <u>.</u>
23	Pixel 1 + Ring 2 + Ring 4
22	Pixel 1 + Ring 3 + Ring 4
21	Ring 2 + Ring 4
20	Pixel 1 + Ring 3
19	Ring 2 + Ring 3
18	Pixel 1 + Ring 4
17	Ring 3 + Ring 4
16	Ring 2 + Ring 3 + Ring 4
15	Pixel 1 + Ring 2 + Ring 3 + Ring 4
14	Pixel 1 + Ring 2 + Ring 3
13	Pixel 1 + Ring 2
12	Ring 4
11	Ring 3
10	Ring 2
9	Pixel 1
8	No selection

A.LEDA B-EYE K10 & K10 EASY

LED reference number for pixel mapping

TILT: channel 16 @ 200 bit



A.LEDA B-EYE K20

LED reference number for pixel mapping

TILT: channel 16 @ 200 bit

