Astra Blade100IP

IP65 motorized linear batten with 16x40W RGB+WW LEDs with two variable white pixel linear LED strips on both sides and zoom 4°-40°

DMX CHART

Rev. 0524/02 - Preliminary

English version

DMX CHARTS

RDM Personality ID List

ID	DMX Mode	Footprint
1	BASIC	20 ch
2	STANDARD	27ch
3	FX	45ch
4	EXTENDED	51ch

RDM Model ID

0xD153

MODULAR CONTROL ARCHITECTURE (MCA)

This fixture supports a **modular control system** that separates functionality into independent blocks for maximum flexibility.

At its core, the fixture operates through the **DMX MAIN** mode, which defines the base control layer. Depending on the selected **STRIP MODE**, an additional block of **+16 or +32 dimmer channels** may be appended to manage the STRIP pixels (CW/WW), as long as the STRIP MODE is not set to **OFF**. This block expands the fixture's channel footprint but remains tightly integrated with the main control stream.

Beyond the main+strip configuration, the fixture also features an independent **PIXEL ENGINE**, designed to act as a separate virtual device.
The Pixel Engine can be patched individually, use a different DMX protocol (e.g., Art-Net or sACN), and follow its own control logic—completely decoupled from the Main layer.

NOTE

When the Pixel Engine is set to Follow Fixture, its DMX data is automatically appended after the Main+STRIP block, forming a single continuous fixture in the patch. Otherwise, it operates independently.
Check "PIXEL ENGINE" on page 23 for more details.

Modular example

MAIN		STRIP		PIXEL ENGINE		DMX Footprint
Mode	Channels	Mode	Appended Channels	Mode	+Pixel Channels	
BASIC	20	OFF	0	OFF	0	20
BASIC	20	16PIX	16	OFF	0	36
BASIC	20	32PIX	32	OFF	0	52
STANDARD	27	16PIX	16	16 PIX	64	107
STANDARD	27	OFF	0	STRIPs	32	59
FX	45	32PIX	32	16 PIX+STRIPs	96	173
EXTENDED	51	16PIX	16	STRIPs	32	99
EXTENDED	51	OFF	0	OFF	0	51
EXTENDED	51	32PIX	32	16 PIX+STRIPs	96	179

DMX STRUCTURE OVERVIEW

DMX MODE with no internal FX			
PARAMETER		BASIC	STANDARD
MAIN	MAIN DIMMER	1	1
	MAIN DIMMER FINE	2	2
	STROBE	3	3
	RED	4	4
	RED FINE	5	5
	GREEN	6	6
	GREEN FINE	7	7
	BLUE	8	8
	BLUE FINE	9	9
	WHITE	10	10
	WHITE FINE	11	11
	TILT	12	12
	TILT FINE	13	13
	ZOOM	14	14
	ZOOM FINE	15	15
	COLOR MACRO	-	16
	CCT	-	17
	XFADE TO PIXEL ENGINE	16	18
	XFADE WHITE TO COLOR	-	19
	GMP	-	20
ALL STRIPS	DIMMER	17	-
	DIMMER FINE	18	-
	STRIP CCT	19	-
STRIP 1	DIMMER	-	21
	DIMMER FINE	-	22
	STRIP CCT	-	23
STRIP 2	DIMMER	-	24
	DIMMER FINE	-	25
	STRIP CCT	-	26
	CONTROL	20	27
		STRIP PIXELS (+16 or 32 ch if choosed on menu)	

DMX MODE with internal FX			
PARAMETER		FX	EXTENDED
MAIN MASTER	MAIN DIMMER	1	1
	MAIN DIMMER FINE	2	2
	STROBE	3	3
	RED	4	4
	RED FINE	5	5
	GREEN	6	6
	GREEN FINE	7	7
	BLUE	8	8
	BLUE FINE	9	9
	WHITE	10	10
	WHITE FINE	11	11
	TILT	12	12
	TILT FINE	13	13
	ZOOM	14	14
	ZOOM FINE	15	15
	COLOR MACRO	16	-
	GEL CATEGORY	-	16
	GEL FILTER	-	17
	CCT	17	18
	XFADE TO PIXEL ENGINE	18	19
	XFADE WHITE TO COLOR	19	20
	CTO ON COLORS	-	21
	GMP	20	22
PIXEL FX	PATTERN SELECTOR	21	23
	PATTERN SPEED	22	24
	PATTERN FADE	23	25
	PATTERN TRANSITION	24	26
PIXEL FOREGROUND (Colors from main)	INTENSITY	25	27
	STROBE	26	28
PIXEL BACKGROUND	DIMMER	27	29
	STROBE	28	30
	RED	29	31
	GREEN	30	32
	BLUE	31	33
	WARM WHITE	32	34

DMX MODE with internal FX			
PARAMETER		FX	EXTENDED
STRIPS FX	PATTERN SELECTOR	33	35
	PATTERN SPEED	34	36
	PATTERN FADE	35	37
	PATTERN TRANSITION	36	38
STRIPS FX FOREGROUND (FX)	DIMMER	37	-
	DIMMER FINE	38	-
	STROBE	39	-
	STRIP CCT	40	-
STRIP 1 FX FOREGROUND	DIMMER	-	39
	DIMMER FINE	-	40
	STROBE	-	41
	STRIP CCT	-	42
STRIP 2 FX FOREGROUND	DIMMER	-	43
	DIMMER FINE	-	44
	STROBE	-	45
	STRIP CCT	-	46
STRIPS MASTER (EXTENDED) STRIPS FX BACKGROUND (FX)	DIMMER	41	47
	DIMMER FINE	42	48
	STROBE	43	49
	STRIP CCT	44	50
	CONTROL	45	51
		STRIP PIXELS (+16 or 32 ch if choosed on menu)	

DMX CHANNEL DETAILS

BASIC	STNDRD	FX	EXTND	Function	DMX value		Default
					from	to	
1	1	1	1	**MASTER DIMMER** Lineary from close to open	000	255	000
2	2	2	2	**MASTER DIMMER FINE** Lineary from close to open	000	255	000
3	3	3	3	**STROBE**			255
				Open	000	004	
				Strobe (slow to fast)	005	044	
				Open	045	046	
				Pulse In (slow to fast)	047	086	
				Open	087	088	
				Pulse Out (slow to fast)	089	128	
				Close	129	130	
				Random (slow to fast)	131	170	
				Open	171	172	
				Random single pixels (slow to fast)	173	212	
				Open	213	214	
				Spikers - (slow to fast)	215	254	
				Open	255	255	
4	4	4	4	**RED** Lineary from 0% to 100%	000	255	000
5	5	5	5	**RED FINE** Lineary from 0% to 100%	000	255	000
6	6	6	6	**GREEN** Lineary from 0% to 100%	000	255	000
7	7	7	7	**GREEN FINE** Lineary from 0% to 100%	000	255	000
8	8	8	8	**BLUE** Lineary from 0% to 100%	000	255	000
9	9	9	9	**BLUE FINE** Lineary from 0% to 100%	000	255	000
10	10	10	10	**WARM WHITE** Lineary from 0% to 100%	000	255	000
11	11	11	11	**WARM WHITE FINE** Lineary from 0% to 100%	000	255	000
12	12	12	12	**TILT** Lineary from 0% to 100%	000	255	000
13	13	13	13	**TILT FINE** Lineary from 0% to 100%	000	255	000
14	14	14	14	**ZOOM** Lineary from 0% to 100%	000	255	000
15	15	15	15	**ZOOM FINE** Lineary from 0% to 100%	000	255	000

BASIC	STNDRD	FX	EXTND	Function	DMX value		Default
					from	to	
-	16	16	-	**COLOR MACRO** Check "Color Macro" on page 13	///	///	000
-	-	-	16	**GEL CATEGORY**			000
				LEE Color correction	000	009	
				LEE Color Filters	010	019	
				LEE 600 Series	020	029	
				LEE Cosmetic Filters	030	039	
				LEE 700 Series	040	049	
				RC Color correction	050	059	
				RC CalC	060	069	
				RC StSelection	070	079	
				RC C-Lux	080	089	
				Blackout	090	099	
				Reserved	100	255	
-	-	-	17	**GEL FILTER** Check "GELS LIST" on page 17	///	///	000
-	17	17	18	**CCT** Linear from 2800K to 10000K	000	255	000
16	18	18	19	**XFADE TO PIXEL ENGINE** Lineary from 0% to 100%	000	255	000
-	19	19	20	**XFADE CCT TO COLOR** Lineary from 0% to 100%	000	255	255
-	-	-	21	**CTO ON COLORS** Lineary from 0% to 100%	000	255	000
-	20	20	22	**GMP**			128
				-25% to 0	000	127	
				Neutral	128	128	
				0 to 25%	129	255	

BASIC	STNDRD	FX	EXTND	Function	DMX value		Default
					from	to	
-	-	21	23	**PIXEL FX | PATTERN SELECTOR** No pattern	000	009	000
				Pattern 1	010	014	
				Pattern 2	015	019	
				Pattern 3	020	024	
				Pattern 4	025	029	
				Pattern 5	030	034	
				Pattern 6	035	039	
				Pattern 7	040	044	
				Pattern 8	045	049	
				Pattern 9	050	054	
				Pattern 10	055	059	
				Pattern 11	060	064	
				Pattern 12	065	069	
				Pattern 13	070	074	
				Pattern 14	075	079	
				Pattern 15	080	084	
				Pattern 16	085	089	
				Pattern 17	090	094	
				Pattern 18	095	099	
				Pattern 19	100	104	
				Pattern 20	105	109	
				Pattern 21	110	114	
				Pattern 22	115	119	
				Pattern 23	120	124	
				RESERVED	125	255	
-	-	22	24	**PIXEL FX | PATTERN SPEED** Indexing	000	127	000
				CW from fast to slow	128	190	
				Stop	191	192	
				CCW from slow to fast	193	255	
-	-	23	25	**PIXEL FX | PATTERN FADE** Lineary from 0% to 100%	000	255	000
-	-	24	26	**PIXEL FX | PATTERN TRANSITION** Lineary from 0% to 100%	000	255	000
-	-	25	27	**PIXEL FX FOREGROUND | DIMMER** Lineary from close to open	000	255	000

BASIC	STNDRD	FX	EXTND	Function	DMX value		Default
					from	to	
-	-	26	28	**PIXEL FX FOREGROUND | STROBE**			255
				Open	000	004	
				Strobe (slow to fast)	005	044	
				Open	045	046	
				Pulse In (slow to fast)	047	086	
				Open	087	088	
				Pulse Out (slow to fast)	089	128	
				Close	129	130	
				Random (slow to fast)	131	170	
				Open	171	172	
				Random single pixels (slow to fast)	173	212	
				Open	213	214	
				Spikers - (slow to fast)	215	254	
				Open	255	255	
-	-	27	29	**PIXEL FX BACKGROUND | DIMMER** Lineary from close to open	000	255	000
-	-	28	30	**PIXEL FX BACKGROUND | STROBE**			255
				Open	000	004	
				Strobe (slow to fast)	005	044	
				Open	045	046	
				Pulse In (slow to fast)	047	086	
				Open	087	088	
				Pulse Out (slow to fast)	089	128	
				Close	129	130	
				Random (slow to fast)	131	170	
				Open	171	172	
				Random single pixels (slow to fast)	173	212	
				Open	213	214	
				Spikers - (slow to fast)	215	254	
				Open	255	255	
-	-	29	31	**PIXEL FX BACKGROUND | RED** Lineary from 0% to 100%	000	255	000
-	-	30	32	**PIXEL FX BACKGROUND | GREEN** Lineary from 0% to 100%	000	255	000
-	-	31	33	**PIXEL FX BACKGROUND | BLUE** Lineary from 0% to 100%	000	255	000
-	-	32	34	**PIXEL FX BACKGROUND | WARM WHITE** Lineary from 0% to 100%	000	255	000

BASIC	STNDRD	FX	EXTND	Function	DMX value		Default
					from	to	
-	-	33	35	**STRIPS FX | PATTERN SELECTOR**			000
				No pattern	000	009	
				Pattern 1	010	014	
				Pattern 2	015	019	
				Pattern 3	020	024	
				Pattern 4	025	029	
				Pattern 5	030	034	
				Pattern 6	035	039	
				Pattern 7	040	044	
				Pattern 8	045	049	
				Pattern 9	050	054	
				Pattern 10	055	059	
				Pattern 11	060	064	
				Pattern 12	065	069	
				Pattern 13	070	074	
				Pattern 14	075	079	
				Pattern 15	080	084	
				Pattern 16	085	089	
				Pattern 17	090	094	
				Pattern 18	095	099	
				Pattern 19	100	104	
				Pattern 20	105	109	
				Pattern 21	110	114	
				Pattern 22	115	119	
				Pattern 23	120	124	
				RESERVED	125	255	
-	-	34	36	**STRIPS FX | PATTERN SPEED**			000
				Indexing	000	127	
				CW from fast to slow	128	190	
				Stop	191	192	
				CCW from slow to fast	193	255	
-	-	35	37	**STRIPS FX | PATTERN FADE** Lineary from 0% to 100%	000	255	000
-	-	36	38	**STRIPS FX | PATTERN TRANSITION** Lineary from 0% to 100%	000	255	000
17	-	37	-	**ALL STRIPS / FOREGROUND | DIMMER** Lineary from close to open	000	255	000
18	-	38	-	**ALL STRIPS / FOREGROUND | DIMMER FINE** Lineary from close to open	000	255	000

BASIC	STNDRD	FX	EXTND	Function	DMX value		Default
					from	to	
-	-	39	-	**ALL STRIPS / FOREGROUND | STROBE**			255
				Open	000	004	
				Strobe (slow to fast)	005	044	
				Open	045	046	
				Pulse In (slow to fast)	047	086	
				Open	087	088	
				Pulse Out (slow to fast)	089	128	
				Close	129	130	
				Random (slow to fast)	131	170	
				Open	171	172	
				Random single pixels (slow to fast)	173	212	
				Open	213	214	
				Spikers - (slow to fast)	215	254	
				Open	255	255	
19	-	40	-	**ALL STRIPS / FOREGROUND | STRIP CCT**			000
				2700k to 4500K	000	127	
				4500K	128	128	
				4500K to 8200K	129	255	
-	21	-	39	**STRIP 1 (TOP) | DIMMER** Lineary from close to open	000	255	000
-	22	-	40	**STRIP 1 (TOP) | DIMMER FINE** Lineary from close to open	000	255	000
-	-	-	41	**STRIP 1 (TOP) | STROBE**			255
				Open	000	004	
				Strobe (slow to fast)	005	044	
				Open	045	046	
				Pulse In (slow to fast)	047	086	
				Open	087	088	
				Pulse Out (slow to fast)	089	128	
				Close	129	130	
				Random (slow to fast)	131	170	
				Open	171	172	
				Random single pixels (slow to fast)	173	212	
				Open	213	214	
				Spikers - (slow to fast)	215	254	
				Open	255	255	
-	23	-	42	**STRIP 1 (TOP) | CCT**			000
				2700k to 4500K	000	127	
				4500K	128	128	
				4500K to 8200K	129	255	
-	24	-	43	**STRIP 2 (BOTTOM) | DIMMER** Lineary from close to open	000	255	000
-	25	-	44	**STRIP 2 (BOTTOM) | DIMMER FINE** Lineary from close to open	000	255	000

BASIC	STNDRD	FX	EXTND	Function	DMX value		Default
					from	to	
-	-	-	45	**STRIP 2 (BOTTOM) | STROBE**			255
				Open	000	004	
				Strobe (slow to fast)	005	044	
				Open	045	046	
				Pulse In (slow to fast)	047	086	
				Open	087	088	
				Pulse Out (slow to fast)	089	128	
				Close	129	130	
				Random (slow to fast)	131	170	
				Open	171	172	
				Random single pixels (slow to fast)	173	212	
				Open	213	214	
				Spikers - (slow to fast)	215	254	
				Open	255	255	
-	26	-	46	**STRIP 2 (BOTTOM) | CCT**			000
				2700k to 4500K	000	127	
				4500K	128	128	
				4500K to 8200K	129	255	
-	-	41	47	**ALL STRIPS / BACKGROUND | DIMMER** Lineary from close to open	000	255	000
-	-	42	48	**ALL STRIPS / BACKGROUND |DIMMER FINE** Lineary from close to open	000	255	000
-	-	43	49	**ALL STRIPS / BACKGROUND |STROBE**			255
				Open	000	004	
				Strobe (slow to fast)	005	044	
				Open	045	046	
				Pulse In (slow to fast)	047	086	
				Open	087	088	
				Pulse Out (slow to fast)	089	128	
				Close	129	130	
				Random (slow to fast)	131	170	
				Open	171	172	
				Random single pixels (slow to fast)	173	212	
				Open	213	214	
				Spikers - (slow to fast)	215	254	
				Open	255	255	
-	-	44	50	**ALL STRIPS / BACKGROUND | CCT**			000
				2700k to 4500K	000	127	
				4500K	128	128	
				4500K to 8200K	129	255	
20	27	45	51	**CONTROL** Check "Control Channel" on page 15	///	///	000
STRIP PIXELS **(+16 or 32 ch if choosed on menu)**							

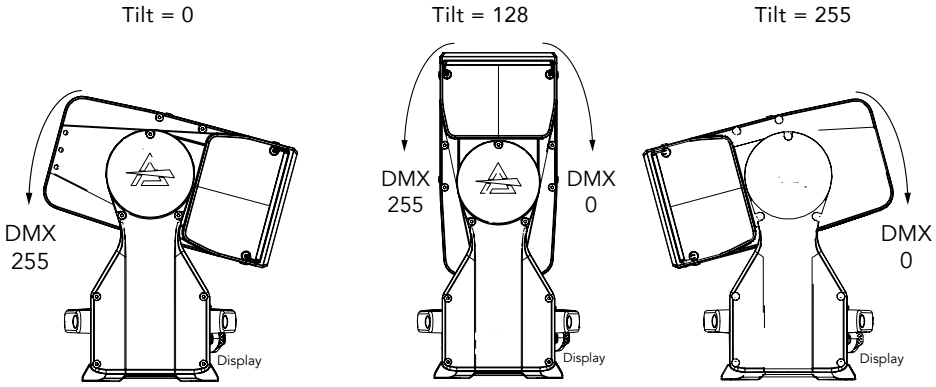
Color Macro

Function	8 bit value	
	From	To
No function	0	1
Red	2	3
Green	4	5
Blue	6	7
Cyan	8	9
Magenta	10	11
Yellow	12	13
Dirty white	14	15
Alice bllue	16	17
Congo blue	18	19
Dark steel blue	20	21
Deep lavender	22	23
Lilac ting	24	25
Daylight blue	26	27
Flame red	28	29
Bastard amber	30	31
Deep orange	32	33
Pale gold	34	35
Apricot	36	37
Bright blue	38	39
Primary green	40	41
Special lavender	42	43
Pale lavender	44	45
Deep golden amber	46	47
Medium blue	48	49
Bright pink	50	51
Mauve	52	53
Dark green	54	55
Lee green	56	57
Dark blue	58	59
Light blue	60	61
Steel blue	62	63
Medium blue-green	64	65
Peacock blue	66	67
Magenta	68	69
Dark pink	70	71
Middle rose	72	73
Light salmon	74	75
English rose	76	77
Light rose	78	79
Orange	80	81
Deep amber	82	83
Straw	84	85
Light amber	86	87
Spring yellow	88	89
Dark yellow green	90	91

Color Macro

Function	8 bit value	
	From	To
Just blue	92	93
Sky blue	94	95
Lavender	96	97
Light lavender	98	99
Pink carnation	100	101
Medium pink	102	103
Light pink	104	105
Sunset red	106	107
Dark amber	108	109
Gold amber	110	111
Medium amber	112	113
Fire	114	115
Surprise peach	116	117
Straw tint	118	119
Medium yellow	120	121
Lee minus green	122	123
Pale gold	124	125
Orange	126	127
Deep straw	128	129
Rose purple	130	131
Deep purple	132	133
Soft green	134	135
Reserved	136	209
2700k	210	211
2800k	212	213
3000k	214	215
3200k	216	217
3400k	218	219
3600k	220	221
3800k	222	223
4000k	224	225
4200k	226	227
4400k	228	229
4600k	230	231
4800k	232	233
5000k	234	235
5200k	236	237
5400k	238	239
5600k	240	241
6000k	242	243
6500k	244	245
7000k	246	247
8000k	248	249
9000k	250	251
10000k	252	253
Full on	254	255

TILT POSITION RELATED TO DMX VALUES



Tilt movement range: 210°

Fig. 01

Crossfade from Main to Pixel Engine

Function	8 bit value		Note
	From	To	
Linear Crossfade	0	255	Default @ 0 Crossfade from Main to Pixel Engine

This channel allows smooth crossfade (0–100%) between Main control and the Pixel Engine.
At 0%, all pixels respond to the Main DMX channels (global RGBW or DIMMER, strobe, effects, etc.).
At 100%, pixel-level control is delegated to an external Pixel Engine, behaving as a separate fixture with its own DMX or protocol input (e.g., media server over DMX, Art-Net, or CRMX).

Depending on the source type, pixels will expose either RGBW or DIMMER control only.

Pattern Fade

Function	8 bit value		Note
	From	To	
0% - 100% (From 0 ms to 5000 ms)	0	255	Default @ 0 Sets the fade time for LEDs in an effect. For example, with the channel set to 1 second, pixels transitioning from on to off will fade out over 1 second.

Control Channel

Function Hold 3s to take function		8 bit value		Note
		From	To	
No Function / Safe		0	1	Default @ 0
TILT REVERSE	ON	2	3	
	OFF	4	5	
MOVEMENT IN BLACKOUT	ON	6	7	
	OFF	8	9	
DISPLAY	ON	10	11	
	10s	12	13	
	20s	14	15	
	30s	16	17	
FLIP DISPLAY	ON	18	19	
	OFF	20	21	
KEY LOCK	ON	22	23	
	OFF	24	25	
DIMMER CURVE	LINEAR	26	27	
	S-CURVE	28	29	
	SQUARE LAW	30	31	
	INVERSE SQUARE LAW	32	33	
	HIGH RES@LOW	34	35	
DIMMER SPEED	AUTO	36	37	
	FAST	38	39	
	MEDIUM	40	41	
	SLOW	42	43	
	OFF	44	45	
DIMMER	FADE OFF END	46	47	
	SNAP OFF END	48	49	
SPEKTRA CALIBRATION	ON	50	51	
	PURE COLORS	52	53	
	OFF	54	55	
LED MODE	HIGH QUALITY	56	57	
	HIGH BRIGHTNESS	58	59	
WHITE POINT	3200K	60	61	
	4000K	62	63	
	5600K	64	65	
	6000K	66	67	
	8000K	68	69	
LED FREQUENCY	1000HZ	70	71	
	2000HZ	72	73	
	3000HZ	74	75	
	4000HZ	76	77	
	6000HZ	78	79	
	25KHZ	80	81	
DMX FAULT	HOLD	82	83	
	BLACKOUT	84	85	
	STAND ALONE	86	87	
	EMERGENCY	88	89	
TUNGSTEN EMULATION	ON	90	91	
	OFF	92	93	
INVERT MAPPING	ON	94	95	
	OFF	96	97	

Control Channel

Function Hold 3s to take function		8 bit value		Note
		From	To	
STANDALONE MAIN	MASTER	98	99	
	MASTER NO DMX	100	101	
	SLAVE	102	103	
	PIXELS TOUR FX	104	105	
	PIXELS CCT	106	107	
	PIXELS HSI	108	109	
	PIXELS FIXED COLORS	110	111	
	PIXELS WHITE PRESETS	112	113	
	PIXELS MANUAL COLORS	114	115	
Reserved		116	119	
FAN MODE	CO AUTO	120	121	
	CO HIGH	122	123	
	CO SILENT 1	124	125	
	CO SILENT 2	126	127	
	CO OFF	128	129	
	DO AUTO	130	131	
	DO HIGH	132	133	
	DO SILENT 1	134	135	
	DO SILENT 2	136	137	
	DO OFF	138	139	
RESET	TILT	140	141	
	ZOOM	142	143	
Reserved		144	251	
Reset dimmer setting to defaults		252	253	
Reset all channel controlled		254	255	
Reserved		254	255	

Category | Lee: Color Correction

Function	8 bit value		Gel #
Gel Name	From	To	
Double CTB	0	1	200
Full CTB	2	3	201
3/4 CTB	4	5	281
1/2 CTB	6	7	202
1/4 CTB	8	9	203
1/8 CTB	10	11	218
Double CTO	12	13	287
Full CTO	14	15	204
3/4 CTO	16	17	285
1/2 CTO	18	19	205
1/4 CTO	20	21	206
1/8 CTO	22	23	223
1 1/2 CTB	24	25	283
1 1/2 CTO	26	27	286
Full CTS	28	29	441
1/2 CTS	30	31	442
1/4 CTS	32	33	443
1/8 CTS	34	35	444
Full CTO + .3 ND	36	37	207
Full CTO + .6 ND	38	39	208
L.C.T. Yellow (Y1)	40	41	212
White Flame Green	42	43	213
LEE Fluorescent Green	44	45	219
Super Correction L.C.T. Yellow	46	47	230
Super Correction W.F. Green	48	49	232
H.M.I. (to Tungsten)	50	51	236
C.I.D. (to Tungsten)	52	53	237
C.S.I. (to Tungsten)	54	55	238
LEE Fluorescent 5700 Kelvin	56	57	241
LEE Fluorescent 4300 Kelvin	58	59	242
LEE Fluorescent 3600 Kelvin	60	61	243
LEE Plus Green	62	63	244
1/2 Plus Green	64	65	245
1/4 Plus Green	66	67	246
1/8 Plus Green	68	69	278
Lee Minus Green	70	71	247
1/2 Minus Green	72	73	248
1/4 Minus Green	74	75	249
1/8 Minus Green	76	77	279
Blackout	78	79	-
Reserved for Future Use	80	255	-

Category | Lee: Color Filters

Function	8 bit value		Gel #
Gel Name	From	To	
Rose Pink	0	1	2
Lavender Tint	2	3	3
Medium Bastard Amber	4	5	4
Pale Yellow	6	7	7
Dark Salmon	8	9	8
Pale Amber Gold	10	11	9
Medium Yellow	12	13	10
Straw Tint	14	15	13
Surprise Peach	16	17	17
Fire	18	19	19
Medium Amber	20	21	20
Gold Amber	22	23	21
Dark Amber	24	25	22
Scarlet	26	27	24
Sunset Red	28	29	25
Bright Red	30	31	26
Light Pink	32	33	35
Medium Pink	34	35	36
Dark Magenta	36	37	46
Rose Purple	38	39	48
Light Lavender	40	41	52
Paler Lavender	42	43	53
Lavender	44	45	58
Mist Blue	46	47	61
Pale Blue	48	49	63
Sky Blue	50	51	68
Evening Blue	52	53	75
Just Blue	54	55	79
Deeper Blue	56	57	85
Lime Green	58	59	88
Moss Green	60	61	89
Dark Yellow Green	62	63	90
Spring Yellow	64	65	100
Yellow	66	67	101
Light Amber	68	69	102
Straw	70	71	103
Deep Amber	72	73	104
Primary Red	74	75	106
Light Rose	76	77	107
English Rose	78	79	108
Light Salmon	80	81	109
Middle Rose	82	83	110
Dark Pink	84	85	111
Magenta	86	87	113
Peacock Blue	88	89	115
Steel Blue	90	91	117
Light Blue	92	93	118
Deep Blue	94	95	120
LEE Green	96	97	121
Fern Green	98	99	122
Dark Green	100	101	124

Category | Lee: Color Filters

Function	8 bit value		Gel #
Gel Name	From	To	
Smokey Pink	102	103	127
Bright Pink	104	105	128
Marine Blue	106	107	131
Golden Amber	108	109	134
Deep Golden Amber	110	111	135
Pale Lavender	112	113	136
Special Lavender	114	115	137
Pale Green	116	117	138
Summer Blue	118	119	140
Pale Violet	120	121	142
Pale Navy Blue	122	123	143
No Color Blue	124	125	144
Apricot	126	127	147
Bright Rose	128	129	148
Gold Tint	130	131	151
Pale Gold	132	133	152
Pale Salmon	134	135	153
Pale Rose	136	137	154
Chocolate	138	139	156
Pink	140	141	157
No Color Straw	142	143	159
Slate Blue	144	145	161
Bastard Amber	146	147	162
Flame Red	148	149	164
Daylight Blue	150	151	165
Lilac Tint	152	153	169
Deep Lavender	154	155	170
Dark Steel Blue	156	157	174
Loving Amber	158	159	176
Dark Lavender	160	161	180
Light Red	162	163	182
Flesh Pink	164	165	192
Surprise Pink	166	167	194
Zenith Blue	168	169	195
True Blue	170	171	196
Alice Blue	172	173	197
Palace Blue	174	175	198
Regal Blue	176	177	199
Blackout	178	179	-
Reserved for Future Use	180	255	-

Category | Lee: 600 Series

Function	8 bit value		Gel #
Gel Name	From	To	
Arctic White	0	1	600
Silver	2	3	601
Platinum	4	5	602
Moonlight White	6	7	603
Full CT 85	8	9	604
Industry Sodium	10	11	650
HI Sodium	12	13	651
Urban Sodium	14	15	652
LO Sodium	16	17	653
Blackout	18	19	-
Reserved	20	255	-

Category | Lee: Cosmetic Filters

Function	8 bit value		Gel #
Gel Name	From	To	
Cosmetic Peach	0	1	184
Cosmetic Silver Rose	2	3	186
Cosmetic Rouge	4	5	187
Cosmetic Highlight	6	7	188
Cosmetic Silver Moss	8	9	189
Cosmetic Aqua Blue	10	11	191
Lily Frost	12	13	705
Shanklin Frost	14	15	717
Half Shanklin Frost	16	17	718
Durham Daylight Frost	18	19	720
Hampshire Rose	20	21	749
Soft Amber Key 1	22	23	774
Soft Amber Key 2	24	25	775
Moroccan Frost	26	27	791
Blue Diffusion	28	29	217
Blue Frost	30	31	221
Daylight Blue Frost	32	33	224
Blackout	34	35	-
Reserved for Future Use	36	255	-

Category | Lee: 700 Series

Function	8 bit value		Gel #
Gel Name	From	To	
Perfect Lavender	0	1	700
Provence	2	3	701
Special Pale Lavender	4	5	702
Cold Lavender	6	7	703
Lily	8	9	704
King Fals Lavender	10	11	706
Cool Lavender	12	13	708
Electric Lilac	14	15	709
Spir Special Blue	16	17	710
Cold Blue	18	19	711
Bedford Blue	20	21	712
Elysian Blue	22	23	714
Cabana Blue	24	25	715
Mikkel Blue	26	27	716
Colour Wash Blue	28	29	719
Berry Blue	30	31	721
Virgin Blue	32	33	723
Ocean Blue	34	35	724
Old Steel Blue	36	37	725
Steel Green	38	39	728
Liberty Green	40	41	730
Dirty Ice	42	43	731
Damp Squib	44	45	733
JAS Green	46	47	738
Bram Brown	48	49	742

Category | Lee: 700 Series

Function	8 bit value		Gel #
Gel Name	From	To	
Dirty White	50	51	744
Brown	52	53	746
Easy White	54	55	747
Seedy Pink	56	57	748
Wheat	58	59	763
Sun Colour Straw	60	61	764
LEE Yellow	62	63	765
Cardbox Amber	64	65	773
Nectarine	66	67	776
Millenium Gold	68	69	778
Bastard Pink	70	71	779
Terry Red	72	73	781
Blood Red	74	75	789
Moroccan Pink	76	77	790
Pretty n'Pink	78	79	794
Magical Magenta	80	81	795
Blackout	82	83	-
Reserved for Future Use	84	255	-

Category | RC: Color Correction

Function	8 bit value		Gel #
Gel Name	From	To	
Full CTB	0	1	3202
3/4 CTB	2	3	3203
1/2 CTB	4	5	3204
1/3 CTB	6	7	3206
1/4 CTB	8	9	3208
1/8 CTB	10	11	3216
Double CTB	12	13	3220
Full CTO	14	15	3407
3/4 CTO	16	17	3411
1/2 CTO	18	19	3408
1/4 CTO	20	21	3409
1/8 CTO	22	23	3410
Double CTO	24	25	3420
Full CTS	26	27	3441
1/2 CTS	28	29	3442
1/4 CTS	30	31	3443
1/8 CTS	32	33	3444
Full Plusgreen	34	35	3304
1/2 Plusgreen	36	37	3315
1/4 Plusgreen	38	39	3316
1/8 Plusgreen	40	41	3317
Full Minusgreen	42	43	3308
3/4 Minusgreen	44	45	3309
1/2 Minusgreen	46	47	3313
1/4 Minusgreen	48	49	3314
1/8 Minusgreen	50	51	3318
Fluorofilter	52	53	3310
Industrial Vapor	54	55	3150
Urban Vapor	56	57	3152
Tough Y-1	58	59	3107
Tough MT 54	60	61	3134
Tough MTY	62	63	3106
Tough MT2	64	65	3102
Blackout	66	67	
Reserved for Future Use	68	255	-

Category | RC: CalC

Function	8 bit value		Gel #
Gel Name	From	To	
15 Blue	0	1	4215
30 Blue	2	3	4230
60 Blue	4	5	4260
90 Blue	6	7	4290
7 Cyan	8	9	4307
15 Cyan	10	11	4315
30 Cyan	12	13	4330
60 Cyan	14	15	4360
90 Cyan	16	17	4390
15 Green	18	19	4415
30 Green	20	21	4430
60 Green	22	23	4460
90 Green	24	25	4490
15 Yellow	26	27	4515
30 Yellow	28	29	4530
60 Yellow	30	31	4560
90 Yellow	32	33	4590
15 Red	34	35	4615
30 Red	36	37	4630
60 Red	38	39	4660
90 Red	40	41	4690
15 Magenta	42	43	4715
30 Magenta	44	45	4730
60 Magenta	46	47	4760
90 Magenta	48	49	4790
15 Pink	50	51	4815
30 Pink	52	53	4830
60 Pink	54	55	4860
90 Pink	56	57	4890
15 Lavender	58	59	4915
30 Lavender	60	61	4930
60 Lavender	62	63	4960
90 Lavender	64	65	4990
Blackout	66	67	
Reserved for Future Use	68	255	-

Category | RC: StSelect

Function	8 bit value		Gel #
Gel Name	From	To	
VS Red	0	1	2001
VS Orange	2	3	2202
VS Yellow	4	5	2003
VS Green	6	7	2004
VS Cyan	8	9	2005
VS Azure	10	11	2006
VS Blue	12	13	2007
VS Indigo	14	15	2008
VS Violet	16	17	2009
VS Magenta	18	19	2010
Blackout	20	21	-
Reserved	22	255	-

Category | RC: C-Lux

Function	8 bit value		Gel #
Gel Name	From	To	
Bastard Amber	0	1	2
Pale Bastard Amber	2	3	302
No Color Straw	4	5	6
Pale Gold	6	7	8
Daffodil	8	9	310
Straw	10	11	12
Light Amber	12	13	16
Gallo Gold	14	15	316
Light Flame	16	17	17
Flame	18	19	18
Mayan Sun	20	21	318
Golden Amber	22	23	21
Soft Golden Amber	24	25	321
Orange	26	27	23
Henny Sky	28	29	325
Light Red	30	31	26
No Color Pink	32	33	33
Blush Pink	34	35	333
Flesh Pink	36	37	34
Pale Rose Pink	38	39	37
Salmon	40	41	41
Deep Salmon	42	43	42
Middle Rose	44	45	44
Light Rose Purple	46	47	47
Surprise Pink	48	49	51
No Color Blue	50	51	60
Clearwater	52	53	360
Booster Blue	54	55	62
Tipton Blue	56	57	362

Category | RC: C-Lux

Function	8 bit value		Gel #
Gel Name	From	To	
Blue Bell	58	59	364
Daylight Blue	60	61	65
Tharon Delft Blue	62	63	365
Cerulean Blue	64	65	375
Bermuda Blue	66	67	376
Green Blue	68	69	77
Alice Blue	70	71	378
Primary Blue	72	73	80
Baldassari Blue	74	75	381
Medium Blue	76	77	83
Pale Yellow Green	78	79	87
Light Green	80	81	88
Moss Green	82	83	89
Primary Green	84	85	91
Turquoise	86	87	92
Blue Green	88	89	93
Chocolate	90	91	99
Blackout	92	93	-
Reserved for Future Use	94	255	-

STRIP FUNCTION

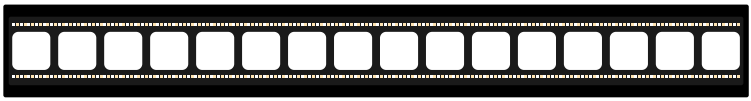
This section refers exclusively to the configuration of the STRIPs as a DMX extension of the main mode. For control via Pixel Engine, please refer to "PIXEL ENGINE" on page 23.

The ASTRABLADE100IP features a central array of 16 RGBW LEDs, flanked above and below by rows of CW and WW LEDs grouped into pixel segments, collectively referred to as the STRIPs.

STRIP MODE

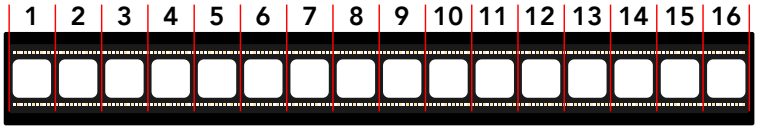
After selecting a DMX mode from the MAIN settings, the user must define how the STRIPs will be controlled.
Available options:

OFF
STRIPs remain off and are not addressed by DMX.



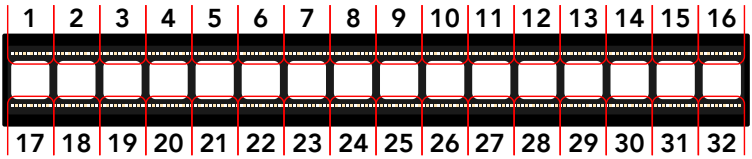
TOP VIEW - SCREEN ON OTHER SIDE

16PIX
Adds 16 dimmer channels after the base DMX mode, each controlling one grouped pixel along the STRIPs.



TOP VIEW - SCREEN ON OTHER SIDE

32PIX
Adds 32 dimmer channels after the base mode, providing finer control by splitting the STRIPs into smaller pixel groups.



TOP VIEW - SCREEN ON OTHER SIDE

Note:
In STRIP MODE, only dimmer values are controllable via DMX. The color temperature (CCT) of the STRIPs remains managed by the main engine.

PATCH EXAMPLE

Main STANDARD + STRIP 32 PIX

MAIN		STRIPS	
STANDARD		32 PIX	
ch 1	MAIN DIMMER	**ch 28**	DIMMER 1
ch 2	MAIN DIMMER FINE	**ch 29**	DIMMER 2
ch 3	STROBE	**ch 30**	DIMMER 3
[...]	[...]	**[...]**	[...]
ch 25	STRIP 2 DIMMER FINE	**ch 57**	DIMMER 30
ch 26	STRIP 2 CCT	**ch 58**	DIMMER 31
ch 27	CONTROL	**ch 59**	DIMMER 32

PIXEL ENGINE

The fixture supports multiple layers of LED control, each with its own configuration, channel mapping, and DMX behavior.
This includes the Main DMX layer, the optional Strip Layer, and the Pixel Engine.
DMX modes selected under the PIXEL ENGINE menu are entirely independent from the main DMX mode. These modes can be configured in two ways:

- **Follow Fixture** – The pixel engine DMX channels are automatically appended after the main mode and any active STRIP Layer channels. This allows control via a single DMX universe.
- **Independent Control** – The pixel engine can be mapped to a separate DMX universe or protocol, such as Art-Net or sACN, enabling hybrid control setups. For example:
  - Main mode + STRIPs via DMX (lighting console)
  - Full pixel mapping via Art-Net (media server)

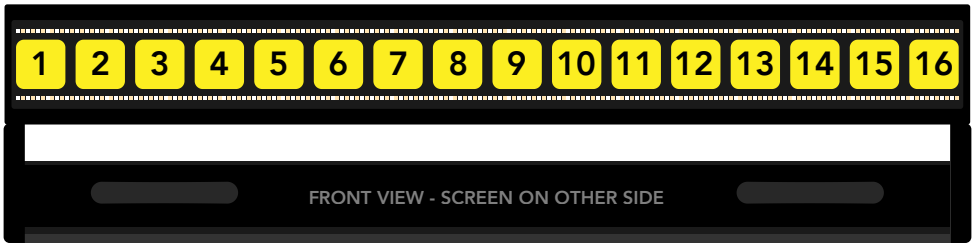
This flexibility allows seamless integration into advanced lighting designs requiring mixed control sources.

Available modes:

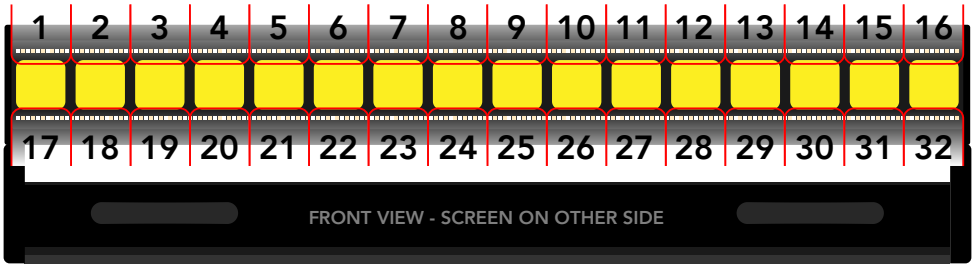
OFF	Full control remains with the main DMX mode. STRIPs and RGBW LEDs operate as defined by the selected STRIP MODE and base mode.
16 PIX	The central 16 RGBW pixels are managed by the Pixel Engine. STRIPs remain under main DMX control, even after crossfade.
STRIPs	Only the STRIPs are managed by the Pixel Engine. The 16 central RGBW pixels remain under main DMX control.
16 PIX + STRIPs	The Pixel Engine controls both the central RGBW pixels and the STRIPs. The main retains control only over global dimmer, strobe, and fixture-level functions.

Note:
When the Pixel Engine is active and configured to manage the STRIPs, any STRIP MODE channel extensions are automatically disabled. The control of brightness (dimmer) and white point (CCT) is then fully handed over to the Pixel Engine.

RGBW pixels order



STRIPS pixels order



PIXEL ENGINE					
PARAMETER		OFF	16 PIX	STRIPs	16 PIX + STRIPs
RGBW PIXELS	RED 1	-	1	-	1
	GREEN 1	-	2	-	2
	BLUE 1	-	3	-	3
	WARM WHITE 1	-	4	-	4
	RED 2	-	5	-	5
	GREEN 2	-	6	-	6
	BLUE 2	-	7	-	7
	WARM WHITE 2	-	8	-	8
	[...]	-	[...]	-	[...]
	RED 15	-	57	-	57
	GREEN 15	-	58	-	58
	BLUE 15	-	59	-	59
	WARM WHITE 15	-	60	-	60
	RED 16	-	61	-	61
	GREEN 16	-	62	-	62
	BLUE 16	-	63	-	63
	WARM WHITE 16	-	64	-	64
STRIP SECTORS	CCT 1	-	-	1	65
	CCT 2	-	-	2	66
	CCT 3	-	-	3	67
	CCT 4	-	-	4	68
	[...]	-	-	[...]	[...]
	CCT 29	-	-	29	93
	CCT 30	-	-	30	94
	CCT 31	-	-	31	95
	CCT 32	-	-	32	96

XFADE TO PIXEL ENGINE

To assign control from the Main layer to the Pixel Engine, use the XFADE TO PIXEL ENGINE channel:

- **0%** – Pixel Engine is inactive. Control remains entirely on the Main DMX layer.
- **100%** – Full control is transferred to the Pixel Engine. The main retains only fixture-level functions (e.g., strobe, global dimmer).
- **Intermediate values** allow smooth transition between Main and Pixel Engine control, useful for live transitions or cue blending.

Note: When Pixel Engine control is active, its configuration and data mapping override the corresponding RGBW or STRIP outputs from the Main.

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