



## Best Boy® Wash DMX Mapping

Channel	Function	Description	8-Bit	16-Bit	
1	INTENSITY	Intensity Adjustment	home: 0		
		Out	0		
		Full	255		
2	PAN	Pan linear coarse adjustment	home: 127	32768	
		0°	0		
		615°	255		
3	Pan Fine	Pan fine adjustment	home: 0		
4	TILT	Tilt linear coarse adjustment	home: 127	32768	
		0°	0		
		260°	255		
5	Tilt Fine	Tilt fine adjustment	home: 0		
6	CYAN	Cyan Color Mix	home: 0		
		Mix	[Mode: Continuous]		0-255
			Open		0
			Full		255
		Wheel Spin	[Mode: Spin]		0-255
			<i>Clockwise</i>		0-126
			Fast		0
			Slow		126
			Stop		127-128
			<i>Counter-Clockwise</i>		129-255
			Slow		129
			Fast		255
7	YELLOW	Yellow Color Mix	home: 0		
		Mix	[Mode: Continuous]		0-255
			Open		0
			Full		255
		Wheel Spin	[Mode: Spin]		0-255
			<i>Clockwise</i>		0-126
			Fast		0
			Slow		126
			Stop		127-128
			<i>Counter-Clockwise</i>		129-255
			Slow		129
			Fast		255
8	MAGENTA	Magenta Color Mix	home: 0		
		Mix	[Mode: Continuous]		0-255
			Open		0
			Full		255
		Wheel Spin	[Mode: Spin]		0-255
			<i>Clockwise</i>		0-126
			Fast		0
			Slow		126

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Channel	Function	Description	8-Bit	16-Bit
		Stop	127-128	
		<i>Counter-Clockwise</i>	129-255	
		Slow	129	
		Fast	255	
<b>9</b>	<b>COLOR MIX CONTROL</b>	Sets color mix control mode	home: 0	
		Continuous	0-9	
		Spin Cyan	10-19	
		Spin Yellow	20-29	
		Spin Magenta	30-39	
		Spin ALL mixers	40-49	
		Reserved	50-255	
<b>10</b>	<b>COLOR TEMPERATURE</b>	Linear color temperature adjustment	home: 64	
		8000K	0	
		Open	64	
		4500K	128	
		3800K	191	
		2900K	255	
<b>11</b>	<b>COLOR</b>	Color Wheel Choice	home: 0	
	<b>Color Choice</b>	[Mode: Continuous, Discrete, Strobe]	0-255	
		Open	0	
		Open / Color 1	21	
		Color 1	43	
		Color 1 / Color 2	64	
		Color 2	86	
		Color 2 / Color 3	107	
		Color 3	129	
		Color 3 / Color 4	150	
		Color 4	172	
		Color 4 / Color 5	193	
		Color 5	215	
		Color 5 / Open	236	
		Open	255	
	<b>Wheel Spin</b>	[Mode: Spin]	0-255	
		<i>Clockwise</i>	0-126	
		Fast	0	
		Slow	126	
		Stop	127-128	
		<i>Counter-Clockwise</i>	129-255	
		Slow	129	
		Fast	255	



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Channel	Function	Description	8-Bit	16-Bit		
12	COLOR CONTROL	Sets Designer Wheel control mode	home: 0			
		Continuous	0-9			
		Discrete	10-19			
		Spin	20-39			
		Strobe Random - Slow	40-43			
		Strobe Random - Medium	44-46			
		Strobe Random - Fast	47-49			
		Linear Strobe Rate	50-255			
		Slow	50			
		Fast	255			
13	GOBO	Gobo Choice / Modifier	home: 0			
		<i>Discrete Choice</i>	0-49			
		Open	0-9			
		Gobo 1	10-19			
		Gobo 2	20-29			
		Gobo 3	30-39			
		Gobo 4	40-49			
		<i>Wheel Spin</i>	50-255			
		<i>Clockwise</i>	50-150			
		Fast	50			
		Slow	150			
		Stop	151-153			
		<i>Counter-Clockwise</i>	154-255			
		Slow	154			
		Fast	255			
		14	GOBO INDEX	Gobo Index Modifier	home: 96	24575
				<i>Index Position</i>	0-191	0-48896
0°	0			0		
180°	96			24575		
360°	191			49151		
<i>Index Rotation</i>	192-255			49152-65535		
<i>Clockwise</i>	192-223			49152-57343		
Fast	192			49152		
Slow	222			57087		
Stop	223-224			57088-57599		
<i>Counter-Clockwise</i>	225-255			57600-65535		
Slow	225			57600		
Fast	255			65535		
15	Gobo Index Fine			Gobo Index fine adjustment	home: 0	
16	ZOOM	Zoom coarse adjustment	home: 94	home: 24064		
		10° (narrow)	0	0		
		60° (wide)	255	65535		
17	Zoom Fine	Zoom fine adjustment	home: 0			
18	BEAM IRIS	Iris control	home: 255			
		Small	0			
		Large	255			



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Channel	Function	Description	8-Bit	16-Bit
19	STROBE	Strobe adjustment	home: 0	
		Open	0-9	
		Closed	10-19	
		<i>Pulse Clockwise</i>	20-39	
		Fast	20	
		Slow	39	
		<i>Pulse Counter-Clockwise</i>	40-59	
		Slow	40	
		Fast	59	
		<i>Ceiling Fan Clockwise</i>	60-79	
		Fast	60	
		Slow	79	
		<i>Ceiling Fan Counter-Clockwise</i>	80-99	
		Slow	80	
		Fast	99	
		Slow Random	100-102	
		Medium Random	103-106	
		Fast Random	107-109	
		<i>Speed</i>	110-255	
		Slow	110	
Fast	255			
20	MACRO	Macro Control	home: 0	
		None	0	
		Iris - square wave	1	
		Iris - sine wave	2	
		Iris - sawtooth	3	
		Iris - reverse sawtooth	4	
		Iris close	5	
		Iris open	6	
		Zoom/Iris close	7	
		Zoom/Iris open	8	
		Zoom Sine Wave	9	
		Zoom Sawtooth	10	
		Zoom Reverse Sawtooth	11	
21	MACRO SPEED	Macro Speed control	home: 0	
		<i>Speed Range</i>	0-246	
		Slow	0	
		Fast	246	
		Random Speed - Slow Rate	247-249	
		Random Speed - Medium Rate	250-252	
		Random Speed - Fast Rate	253-255	
22	FOCUS TIME	Refer to "Timing Channels" on page 34	home: 255	
23	COLOR TIME		home: 255	
24	IMAGE TIME		home: 255	
25	BEAM TIME		home: 255	

## Best Boy® Wash DMX Mapping

Channel	Function	Description	8-Bit	16-Bit
26	CONTROL	Control Channels	home: 0	
	All values must be held for a minimum of 3 seconds to take effect.	Idle	0	
		Recalibrate: All	10	
		Recalibrate: Mechanisms with Errors	11	
		Recalibrate: Zoom	12	
		Recalibrate: Color	14	
		Recalibrate: Gobos	16	
		Recalibrate: Dimmer/Strobe/Iris	18	
		Recalibrate: Pan/Tilt	19	
		Lamp: Douse	20	
		Lamp: Start	30	
		Lamp Power Limit: Full	40	
		Lamp Power Limit: Mid	45	
		Lamp Power Limit: Low	50	
		Edge: Near Focal Plane	78	
		Edge: Far Focal Plane	79	
		Gobo: Set Zero Position	80	
		Display: Turn Backlight On	90	
		Display: Turn Backlight Off	95	
		Pan/Tilt: Free Motion On	108	
		Pan/Tilt: Free Motion Off	112	
		No Fade Out	114	
		Fade Out After 30s	116	
		Fade Out After 60s	118	
		Clear Logs	120	
		Invert Pan On	122	
		Invert Pan Off	124	
		Invert Tilt On	126	
	Invert Tilt Off	128		
	Swap Pan/Tilt On	130		
	Swap Pan/Tilt Off	132		

### Special Notes

#### Macros

The Best Boy Wash Luminaire offers 27 pre-defined sequences, called Macros, which allow for quick and easy control of luminaire functions such as iris, zoom, framing, and more. Macro control overrides the DMX control for that parameter. For example, if an iris macro is running, then the DMX control for iris will not have any effect. Some macros also control multiple functions.

#### Gobo: Set Zero Position

Set Zero Position allows adjustment of the gobo wheel home position.

## Timing Channels

### Channel Functions

Timing channel control improves the timed moves of certain groups of parameters. Four timing channels are provided for this purpose: Focus, Color, Beam, and Image.

Timing channels support time values of up to six minutes.

#### Timing Channel Allocations

Channel Function	Timing Channel
Pan	Focus
Tilt	
Cyan	Color
Yellow	
Magenta	
Color Wheel	
Zoom	Beam
Iris	
Rotating Gobo Wheel	Image
Gobo Index	

### Timing Channel Mapping

Refer to the **Timing Channels Table** starting on the next page. The following guidelines apply:

- + A timing value of zero is full speed.
- + A time value of 100% (or 255 in DMX) causes the associated parameter(s) to follow cue fade time (console time) rather than the timing channel.
- + Timing channels can be set in either % or 0-255 (DMX) modes, with the values assigned - as shown in the tables.

**Timing Channels**

% Value	DMX	= Seconds
	0	Full Speed
	1	0.2
	2	0.4
1	3	0.6
	4	0.8
2	5	1
	6	1.2
	7	1.4
3	8	1.6
	9	1.8
4	10	2
	11	2.2
	12	2.4
5	13	2.6
	14	2.8
6	15	3
	16	3.2
	17	3.4
7	18	3.6
	19	3.8
8	20	4
	21	4.2
	22	4.4
9	23	4.6
	24	4.8
10	25	5
	26	5.2
	27	5.4
11	28	5.6
	29	5.8
	30	6
12	31	6.2
	32	6.4
13	33	6.6
	34	6.8
	35	7.0
14	36	7.2
	37	7.4
15	38	7.6
	39	7.8
	40	8
16	41	8.2
	42	8.4
17	43	8.6
	44	8.8
	45	9
18	46	9.2
	47	9.4
19	48	9.6
	49	9.8
	50	10
20	51	10.2
	52	10.4

**Timing Channels (Continued)**

% Value	DMX	= Seconds
	53	10.6
21	54	11
	55	11
22	56	12
	57	12
	58	13
23	59	13
	60	14
24	61	14
	62	14
	63	15
25	64	15
	65	16
26	66	16
	67	16
	68	17
27	69	17
	70	18
28	71	18
	72	18
	73	19
29	74	19
	75	20
30	76	20
	77	20
	78	21
31	79	21
	80	21
	81	22
32	82	22
	83	23
33	84	23
	85	23
	86	24
34	87	24
	88	25
35	89	25
	90	25
	91	26
36	92	26
	93	27
37	94	27
	95	27
	96	28
38	97	28
	98	29
39	99	29
	100	29
	101	30
40	102	30
	103	30
	104	31
41	105	31

**Timing Channels (Continued)**

% Value	DMX	= Seconds
	106	32
42	107	32
	108	32
	109	33
43	110	33
	111	34
44	112	34
	113	34
	114	35
45	115	35
	116	36
46	117	36
	118	36
	119	37
47	120	37
	121	38
48	122	38
	123	38
	124	39
49	125	39
	126	39
	127	40
50	128	40
	129	41
51	130	41
	131	41
	132	42
52	133	42
	134	43
53	135	43
	136	43
	137	44
54	138	44
	139	45
55	140	45
	141	45
	142	46
56	143	46
	144	47
57	145	47
	146	47
	147	48
58	148	48
	149	49
59	150	49
	151	49
	152	50
60	153	50
	154	50
	155	51
61	156	51
	157	52
62	158	52

**Timing Channels (Continued)**

% Value	DMX	= Seconds
	159	52
	160	53
63	161	53
	162	54
64	163	54
	164	54
	165	55
65	166	55
	167	56
66	168	56
	169	56
	170	57
67	171	57
	172	58
68	173	58
	174	58
	175	59
69	176	59
	177	59
	178	60
70	179	60
	180	65
71	181	65
	182	65
	183	70
72	184	70
	185	75
73	186	75
	187	75
	188	80
74	189	80
	190	85
75	191	85
	192	85
	193	90
76	194	90
	195	95
77	196	95
	197	95
	198	100
78	199	100
	200	110
79	201	110
	202	110
	203	120
80	204	120
	205	120
81	206	130
	207	130
	208	140
82	209	140
	210	140
	211	150



**Timing Channels (Continued)**

<b>% Value</b>	<b>DMX</b>	<b>= Seconds</b>
83	212	150
	213	160
84	214	160
	215	160
	216	170
85	217	170
	218	180
86	219	180
	220	180
	221	190
87	222	190
	223	200
88	224	200
	225	200
	226	210
89	227	210
	228	210
	229	220
90	230	220
	231	230
91	232	230
	233	230
	234	240
92	235	240
	236	250
93	237	250
	238	250
	239	260
94	240	260
	241	270
95	242	270
	243	270
	244	280
96	245	280
	246	290
97	247	290
	248	290
	249	300
98	250	300
	251	310
99	252	310
	253	310
	254	310
100	255	Follows Cue Data



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