

## CHANNEL FUNCTION

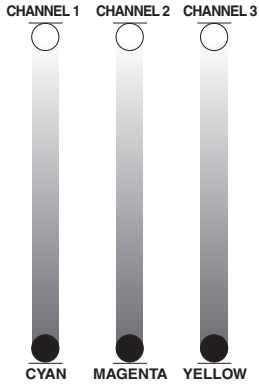
### ALPHA SPOT HPE 700

CHANNEL	CHANNEL MODE	
	STANDARD	VECTOR
1	CYAN	CYAN
2	MAGENTA	MAGENTA
3	YELLOW	YELLOW
4	UNIFORM FIELD LENS	UNIFORM FIELD LENS
5	COLOUR WHEEL	COLOUR WHEEL
6	STOP / STROBE	STOP / STROBE
7	DIMMER	DIMMER
8	DIMMER FINE	DIMMER FINE
9	IRIS	IRIS
10	STATIC GOBO CHANGE	STATIC GOBO CHANGE
11	ROTATING GOBO CHANGE	ROTATING GOBO CHANGE
12	GOBO ROTATION	GOBO ROTATION
13	GOBO FINE	GOBO FINE
14	PRISM INSERTION	PRISM INSERTION
15	PRISM ROTATION	PRISM ROTATION
16	FROST	FROST
17	FOCUS	FOCUS
18	ZOOM	ZOOM
19	PAN	PAN
20	PAN FINE	PAN FINE
21	TILT	TILT
22	TILT FINE	TILT FINE
23	FUNCTION	FUNCTION
24	RESET	RESET
25	LAMP CONTROL (with Option "Lamp Dmx" ON)	LAMP CONTROL (with Option "Lamp Dmx" ON)
26		PAN - TILT TIME
27		COLOUR TIME
28		BEAM TIME
29		GOBO TIME

**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%.**

• **COLOUR MIXING - channel 1 - 2 - 3**

Operation with option color mixing: RGB



BIT	%	EFFECT
255	100	COLOUR EXCLUDED
0	0.0	COLOUR INSERTED

**IMPORTANT:** The lamp dim to half power 1 second after all the 3 channels stay at 0% level. The lamp goes back to full power when the channels level is put higher than 0%.

Operation with option color mixing: CMY



BIT	%	EFFECT
255	100	COLOUR INSERTED
0	0.0	COLOUR EXCLUDED

**IMPORTANT:** The lamp dim to half power 1 second after all the 3 channels stay at 100% level. The lamp goes back to full power when the channels level is put lower than 100%.

• **UNIFORM FIELD LENS - channel 4**

BIT	%	EFFECT
255	100	LENS INSERTED
128	50.0	
127	49.7	
0	0.0	LENS EXCLUDED

• **COLOUR WHEEL - channel 5**



BIT	%	EFFECT
255	100	FAST ROTATION (160 rpm)
127	49.7	BLUE + WHITE
120	47.0	BLUE
112	44.0	ORANGE + BLUE
105	41.2	ORANGE
97	38.0	AQUAMARINE + ORANGE
90	35.0	AQUAMARINE
82	32.0	GREEN + AQUAMARINE
75	29.5	GREEN
67	26.2	CTO 3200 + GREEN
60	23.7	CTO 3200
52	20.5	CTO 2500 + CTO 3200
45	17.5	CTO 2500
37	14.2	HALF MINUS GREEN + CTO 2500
30	11.7	HALF MINUS GREEN
22	8.7	RED + HALF MINUS GREEN
15	6.0	RED
8	3.2	WHITE + RED
0	0.0	WHITE

• **STOPPER / STROBE - channel 6**



BIT	%	EFFECT
252 - 255	98.7 - 100	OPEN
239 - 251	93.7 - 98.2	RANDOM FAST STROBE
226 - 238	88.7 - 93.2	RANDOM MEDIUM STROBE
213 - 225	83.7 - 88.2	RANDOM SLOW STROBE
208 - 212	81.7 - 83.2	OPEN
207	81.2	FAST PULSATION
108	42.5	SLOW PULSATION
104 - 107	41.0 - 42.0	OPEN
103	40.5	FAST STROBE (12 flash/sec)
4	1.7	SLOW STROBE (1 flash/sec)
0 - 3	0.0 - 1.2	CLOSED

• **DIMMER - channel 7**



BIT	%	EFFECT
255	100	
0	0.0	

The lamp is linearly dimmed from full power to half power electronically and mechanically from half power to off.

• **DIMMER FINE - channel 8**



BIT	%	EFFECT
255	100	
0	0.0	

• **IRIS - channel 9**



BIT	%	EFFECT
252 - 255	98.7 - 100	MAXIMUM APERTURE
251	98.2	FAST PULSATION, FAST CLOSING
212	83.2	SLOW PULSATION, FAST CLOSING
211	83	FAST PULSATION, FAST OPENING
172	67.5	SLOW PULSATION, FAST OPENING
171	67	FAST PULSATION
132	51.7	SLOW PULSATION
128 - 131	50.0 - 51.2	MAXIMUM APERTURE
0	0.0	MINIMUM APERTURE

• STATIC GOBO CHANGE - channel 10

BIT	%	EFFECT
255	100	GOBO 7 SHAKE, FAST SPEED
240	94.0	GOBO 7 SHAKE, SLOW SPEED
239	93.7	GOBO 6 SHAKE, FAST SPEED
224	88.0	GOBO 6 SHAKE, SLOW SPEED
223	87.5	GOBO 5 SHAKE, FAST SPEED
208	81.7	GOBO 5 SHAKE, SLOW SPEED
207	81.2	GOBO 4 SHAKE, FAST SPEED
192	75.0	GOBO 4 SHAKE, SLOW SPEED
191	74.7	GOBO 3 SHAKE, FAST SPEED
176	69.0	GOBO 3 SHAKE, SLOW SPEED
175	68.7	GOBO 2 SHAKE, FAST SPEED
160	63.0	GOBO 2 SHAKE, SLOW SPEED
159	62.5	FAST ROTATION (100 rpm)
118	46.2	SLOW ROTATION (5 rpm)
114 - 117	44.7 - 46.0	STOP
113	44.2	SLOW ROTATION (5 rpm)
72	28.2	FAST ROTATION (100 rpm)
64 - 71	25.0 - 28.0	GOBO 8
56 - 63	22.0 - 24.7	GOBO 7
48 - 55	18.7 - 21.7	GOBO 6
40 - 47	15.5 - 18.2	GOBO 5
32 - 39	12.5 - 15.0	GOBO 4
24 - 31	9.5 - 12.0	GOBO 3
16 - 23	6.2 - 9.0	GOBO 2
8 - 15	3.2 - 6.0	GOBO 1
0 - 7	0 - 3.0	WHITE

• ROTATING GOBO CHANGE - channel 11

BIT	%	EFFECT
255	100	GOBO 7 SHAKE, FAST SPEED
238	93.2	GOBO 7 SHAKE, SLOW SPEED
237	93.0	GOBO 6 SHAKE, FAST SPEED
220	86.2	GOBO 6 SHAKE, SLOW SPEED
219	86.0	GOBO 5 SHAKE, FAST SPEED
202	79.0	GOBO 5 SHAKE, SLOW SPEED
201	78.7	GOBO 4 SHAKE, FAST SPEED
184	72.0	GOBO 4 SHAKE, SLOW SPEED
183	71.7	GOBO 3 SHAKE, FAST SPEED
166	65.0	GOBO 3 SHAKE, SLOW SPEED
165	64.7	GOBO 2 SHAKE, FAST SPEED
148	58.0	GOBO 2 SHAKE, SLOW SPEED
147	57.5	GOBO 1 SHAKE, FAST SPEED
130	51.0	GOBO 1 SHAKE, SLOW SPEED
114-129	44.7-50.5	GOBO 7
98-113	38.2-44.2	GOBO 6
82-97	32.0-38.0	GOBO 5
65-81	25.5-31.7	GOBO 4
49-64	19.0-25.0	GOBO 3
33-48	13.0-18.7	GOBO 2
17-32	6.7-12.5	GOBO 1
0-16	0.0-6.2	WHITE

• GOBO ROTATION - channel 12

BIT	%	EFFECT
255	100	FAST ROTATION (180 rpm)
193	75.5	SLOW ROTATION (2,2 rph)
191 - 192	74.7 - 75.0	STOP
190	74.2	SLOW ROTATION (2,2 rph)
128	50.0	FAST ROTATION (180 rpm)
127	49.7	540° POSITION
105	41.7	450° POSITION
84	33.0	360° POSITION
63	24.7	270° POSITION
42	16.2	180° POSITION
21	8.2	90° POSITION
0	0.0	0° POSITION

• GOBO FINE - channel 13

BIT	%
255	100
127	50.0
0	0.0

• PRISM INSERTION - channel 14

BIT	%	EFFECT
255	100	PRISM INSERTED
128	50.0	
127	49.7	PRISM EXCLUDED
0	0.0	

• PRISM ROTATION - channel 15

BIT	%	EFFECT
255	100	FAST ROTATION (120 rpm)
193	75.5	SLOW ROTATION (3 rph)
191 - 192	74.7 - 75.0	STOP
190	74.2	SLOW ROTATION (3 rph)
128	50.0	FAST ROTATION (120 rpm)
127	49.7	POSITION 540°
105	41.7	POSITION 450°
84	33.0	POSITION 360°
63	24.7	POSITION 270°
42	16.2	POSITION 180°
21	8.2	POSITION 90°
0	0.0	POSITION 0°

• FROST - channel 16

BIT	%	EFFECT
255	100	FROST INSERTED
128 127	50.0 49.7	FROST EXCLUDED
0	0.0	

• FOCUS - channel 17



BIT	%	EFFECT
255	100	NEAR
0	0.0	DISTANT

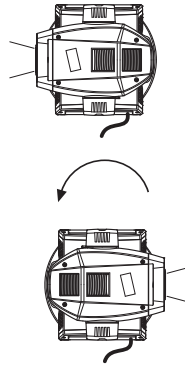
• ZOOM - channel 18



BIT	%	EFFECT
255	100	NARROW BEAM
0	0.0	WIDE BEAM

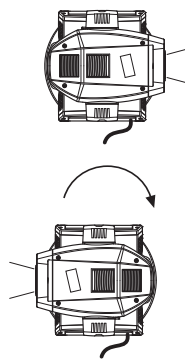
• PAN - channel 19

Operation with option InvertPan  $\diamond$  Off  
(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)



BIT	%
255	100
0	0.0

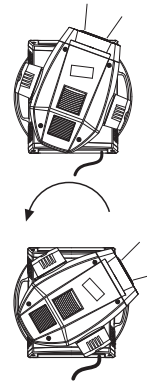
Operation with option InvertPan  $\diamond$  On  
(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)



BIT	%
255	100
0	0.0

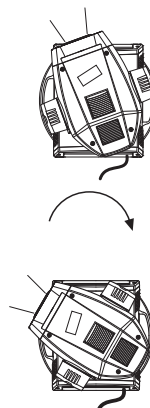
• PAN FINE - channel 20

Operation with option InvertPan  $\diamond$  Off  
(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)



BIT	%
255	100
0	0.0

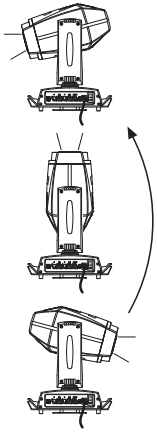
Operation with option InvertPan  $\diamond$  On  
(Tilt conventionally represented at 14% and option Invert Tilt  $\diamond$  Off)



BIT	%
255	100
0	0.0

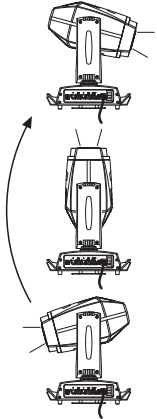
• **TILT - channel 21**

Operation with option Invert Tilt  $\diamond$  Off  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)



BIT	%
255	100
128	50.0
0	0.0

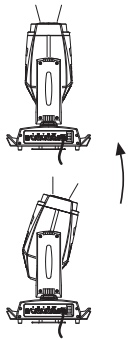
Operation with option Invert Tilt  $\diamond$  On  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)



BIT	%
255	100
128	50.0
0	0.0

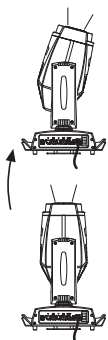
• **TILT FINE - channel 22**

Operation with option Invert Tilt  $\diamond$  Off  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)



BIT	%
255	100
0	0.0

Operation with option Invert Tilt  $\diamond$  On  
(Pan conventionally represented at 0% and option Invert Pan  $\diamond$  Off)



BIT	%
255	100
0	0.0

• **FUNCTION - channel: 23**

BIT	%	EFFECT	
255	100	UNUSED RANGE	
52	20.5		
51	20.0		LINEAR (DEFAULT) — DIMMER CURVE FUNCTION
39	15.0		
26	10.0		NORMAL SPEED — PAN-TILT FUNCTION
13	5.0	FAST SPEED (DEFAULT) — PAN-TILT FUNCTION	
0-12	0.0-4.7	UNUSED RANGE	

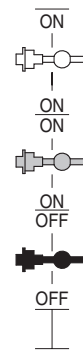
The functions are activated passing through the unused range and staying 5 seconds in necessary level

• **RESET - channel: 24**

BIT	%	EFFECT
243 – 255	95.0 – 100	COMPLETE RESET Complete reset is activated passing through the unused range and staying 5 seconds in complete reset levels.
240 – 242	94.0 – 94.7	Rotating Gobo OFFSET 13
237 – 239	93.0 – 93.7	Rotating Gobo OFFSET 12
234 – 236	91.7 – 92.5	Rotating Gobo OFFSET 11
231 – 233	90.5 – 91.2	Rotating Gobo OFFSET 10
228 – 230	89.5 – 90.0	Rotating Gobo OFFSET 9
225 – 227	88.2 – 89.0	Rotating Gobo OFFSET 8
222 – 224	87.0 – 88.0	Rotating Gobo OFFSET 7
219 – 221	86.0 – 86.7	Rotating Gobo OFFSET 6
216 – 218	84.7 – 85.5	Rotating Gobo OFFSET 5
213 – 215	83.7 – 84.2	Rotating Gobo OFFSET 4
210 – 212	82.5 – 83.2	Rotating Gobo OFFSET 3
207 – 209	81.2 – 82.0	Rotating Gobo OFFSET 2
204 – 206	80.0 – 81.0	Rotating Gobo OFFSET 1
128 – 203	50 – 79.5	COMPLETE RESET Complete reset is activated passing through the unused range and staying 5 seconds in complete reset levels.
77 – 127	30 – 49.7	PAN/TILT RESET Pan/Tilt reset is activated passing through the unused range and staying 5 seconds in Pan/Tilt reset levels.
26 – 76	10 – 29.7	EFFECTS RESET Effects reset is activated passing through the unused range and staying 5 seconds in Effects reset levels.
0 – 25	0.0 – 9.7	Unused range

• **LAMP CONTROL (only with option LAMP DMX On) - channel: 25**

IMPORTANT: Alpha Spot HPE 700 is not provided with hot restrike igniter



BIT	%	EFFECT
255	100	LAMP ON (FULL POWER) Lamp ignition after 5 s in full power levels. Immediate transition from half to full power.
180	70.5	LAMP ON (FULL POWER)
179	70.0	LAMP ON (HALF POWER) Immediate transition from full to half power. Lamp ignition not allowed in half power.
101	39.5	LAMP ON (HALF POWER)
100	39.0	LAMP OFF Lamp switch off passing through the unused range and staying 5 s in Lamp OFF levels.
26	10.0	LAMP OFF
25	9.7	UNUSED RANGE
0	0.0	

## TIMING CHANNELS

	Timing Channel	Channel function
26	Pan - Tilt time	Pan - Tilt - (Pan fine - Tilt fine)
27	Colour time	CMY - Colour wheel
28	Beam time	Dimmer - Frost - Iris - Focus - Zoom - Prism
29	Gobo time	Static Gobo - Rotating Gobo Change

## TIME TABLE

BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds
0	Full	43	8.6	86		129		172		216	
1	0.2	44	8.8	87	24	130	41	173	58	217	170
2	0.4	45	9	88		131		174		218	
3	0.6	46	9.2	89	25	132	42	175		219	180
4	0.8	47	9.4	90		133		176	59	220	
5	1	48	9.6	91	26	134	43	177		221	190
6	1.2	49	9.8	92		135		178	60	222	
7	1.4	50	10	93	27	136	44	179		223	190
8	1.6	51	10.2	94		137		180	65	224	200
9	1.8	52	10.4	95	28	138	45	181		225	
10	2	53	10.6	96		139		182	70	226	210
11	2.2	54	11	97	29	140	46	183		227	
12	2.4	55	12	98		141		184	75	228	210
13	2.6	56	13	99	30	142	47	185		229	220
14	2.8	57	14	100		143		186	80	230	
15	3	58	15	101	31	144	48	187		231	230
16	3.2	59	16	102		145		188	85	232	230
17	3.4	60	17	103	32	146	49	189		233	
18	3.6	61	18	104		147		190	90	234	240
19	3.8	62	19	105	33	148	50	191		235	240
20	4	63	20	106		149		192	95	236	
21	4.2	64	21	107	34	150	51	193		237	250
22	4.4	65	22	108		151		194	100	238	
23	4.6	66	23	109	35	152	52	195		239	260
24	4.8	67	24	110		153		196	110	240	260
25	5	68	25	111	36	154	53	197		241	
26	5.2	69	26	112		155		198	120	242	270
27	5.4	70	27	113	37	156	54	199		243	
28	5.6	71	28	114		157		200	130	244	280
29	5.8	72	29	115	38	158	55	201		245	
30	6	73	30	116		159		202	140	246	280
31	6.2	74	31	117	39	160	56	203		247	290
32	6.4	75	32	118		161		204	150	248	
33	6.6	76	33	119	40	162	57	205		249	300
34	6.8	77	34	120		163		206	160	250	300
35	7	78	35	121	41	164	58	207		251	
36	7.2	79	36	122		165		208	170	252	310
37	7.4	80	37	123	42	166	59	209		253	
38	7.6	81	38	124		167		210	180	254	
39	7.8	82	39	125	43	168	60	211		255	Follow cue Data
40	8	83	40	126		169		212	190		
41	8.2	84	41	127	44	170	61	213			
42	8.4	85	42	128		171		214	200		
								215	210		