

6.8. DMX Channels

6.8.1. DMX Channels Overview

Channel	Basic 26 CH	Advance 37 CH	DMX Value	Function	Default	Highlight
Pan	1	1	000–255	0°–540°	128	
Pan Fine 16-bit	2	2	000–255	Fine positioning		
Tilt	3	3	000–255	0°–260°	128	
Tilt Fine 16-bit	4	4	000–255	Fine positioning		
Pan/Tilt Speed		5	000–255	From fast to slow	0	
Dimmer	5	6	000–255	0–100 %	0	255
Dimmer Fine 16-bit		7	000–255	Fine adjustment		
Strobe	6	8	000–255	Check channel details	6	6
Color Wheel	7	9	000–255	Check channel details	0	0
Cyan	8	10	000–255	0–100 %	0	0
Cyan 16-bit		11	000–255	Fine adjustment		
Magenta	9	12	000–255	0–100 %	0	0
Magenta 16-bit		13	000–255	Fine adjustment		
Yellow	10	14	000–255	0–100 %	0	0
Yellow 16-bit		15	000–255	Fine adjustment		
CTO	11	16	000–255	0–100 %	0	0
CTO 16-bit		17	000–255	Fine adjustment		
CMY Macro	12	18	000–255	Check channel details	0	0
Rotating Gobo wheel 1	13	19	000–255	Check channel details	0	0
Gobo index/rotating 1	14	20	000–255	Check channel details	128	
Gobo index/rotating 1 16-bit		21	000–255	Fine adjustment		
Static Gobo wheel	15	22	000–255	Check channel details	0	0
Prism (5-facet Round)	16	23	000–255	Check channel details	0	0
Prism rotating	17	24	000–255	Check channel details	128	
Prism rotating 16-bit		25	000–255	Fine adjustment		
Zoom	18	26	000–255	Check channel details	128	
Zoom 16-bit		27	000–255	Check channel details		
Iris	19	28	000–255	Big to small	0	
Iris 16-bit		29	000–255	Fine adjustment		
Iris Macro	20	30	000–255	Check channel details	0	
Focus	21	31	000–255	Far to near	128	
Focus 16-bit		32	000–255	Fine adjustment		
Auto Focus	22	33	000–255	Check channel details	0	
Light Frost	23	34	000–255	0–100 %	0	
Animation Wheel	24	35	000–255	Check channel details	0	
Virtual Animation	25	36	000–255	Check channel details	128	
Control	26	37	000–255	Check channel details	0	

6.8.2. Basic (26 Channels), Advance (37 Channels)

Basic 26 CH	Advance 37 CH	Function	Value	Setting	Color	Control Type
1	1	Pan	000–255	Pan adjustment 0°–540°		
2	2	Pan Fine	000–255	Pan adjustment, 16-bit		
3	3	Tilt	000–255	Tilt adjustment 0°–260°		
4	4	Tilt Fine	000–255	Tilt adjustment, 16-bit		
	5	Pan/Tilt Speed	000–255	From fast to slow		
5	6	Dimmer	000–255	From low to high intensity (0–100 %)		
	7	Dimmer Fine	000–255	Fine adjustment		
6	8	Strobe	000–003	No function		
			004–006	Open		step
			007–066	Synchronized strobe, from low to high frequency		proportional
			067–127	Pulse strobe, from low to high frequency		proportional
			128–188	Ramp-down, from low to high frequency		proportional
			189–249	Random strobe, from low to high frequency		proportional
			250–255	Open		step
7	9	Color Wheel	000–006	White		
			007–013	Color 1 (RED)		step
			014–020	Color 2 (LIGHT PINK)		step
			021–027	Color 3 (AMBER)		step
			028–034	Color 4 (DARK LAVENDER)		step
			035–041	Color 5 (PRIMARY GREEN)		step
			042–048	Color 6 (AQUAMARINA)		step
			049–059	Color 7 (CONGO BLUE)		step
			060–075	White + color 1		proportional
			076–091	Color 1 + color 2		proportional
			092–107	Color 2 + color 3		proportional
			108–123	Color 3 + color 4		proportional
			124–139	Color 4 + color 5		proportional
			140–155	Color 5 + color 6		proportional
			156–171	Color 6 + color 7		proportional
			172–187	Color 7 + white		proportional
			188–219	Color scroll, fast to slow		proportional
			220–223	Stop		step
			224–255	Reverse color scroll, slow to fast		proportional
8	10	Cyan	000–255	0–100%		
	11	Cyan 16-bit	000–255	Fine adjustment		
9	12	Magenta	000–255	0–100%		
	13	Magenta 16-bit	000–255	Fine adjustment		
10	14	Yellow	000–255	0–100%		
	15	Yellow 16-bit	000–255	Fine adjustment		
11	16	CTO	000–255	0–100%		

	17	CTO-bit	000–255	Fine adjustment		
			000–009	No function		
12	18	CMY Macro	010–127	CMY preset		proportional
			128–255	CMY macro, fast to slow		proportional
			000–004	Open		step
			005–006	Gobo 1 (index) Astroids		step
			007–008	Gobo 2 (index) Psycho		step
			009–010	Gobo 3 (index) Brushed		step
			011–012	Gobo 4 (index) Triangles		step
			013–014	Gobo 5 (index) Baroque		step
			015–016	Gobo 6 (index) Spiral		step
			017–018	Gobo 7 (index) Stones		step
			019–024	Open		step
			025–026	Gobo 1 (rotating)		step
			027–028	Gobo 2 (rotating)		step
			029–030	Gobo 3 (rotating)		step
			031–032	Gobo 4 (rotating)		step
			033–034	Gobo 5 (rotating)		step
			035–036	Gobo 6 (rotating)		step
			037–038	Gobo 7 (rotating)		step
			039–044	Open		step
13	19	Rotating Gobo wheel 1	045–052	Gobo 1 shake, slow to fast (index)		proportional
			053–060	Gobo 2 shake, slow to fast (index)		proportional
			061–068	Gobo 3 shake, slow to fast (index)		proportional
			069–076	Gobo 4 shake, slow to fast (index)		proportional
			077–084	Gobo 5 shake, slow to fast (index)		proportional
			085–092	Gobo 6 shake, slow to fast (index)		proportional
			093–100	Gobo 7 shake, slow to fast (index)		proportional
			101–124	Open		step
			125–132	Gobo 1 shake, slow to fast (rotating)		proportional
			133–140	Gobo 2 shake, slow to fast (rotating)		proportional
			141–148	Gobo 3 shake, slow to fast (rotating)		proportional
			149–156	Gobo 4 shake, slow to fast (rotating)		proportional
			157–164	Gobo 5 shake, slow to fast (rotating)		proportional
			165–172	Gobo 6 shake, slow to fast (rotating)		proportional
			173–180	Gobo 7 shake, slow to fast (rotating)		proportional
			181–195	Open		step
			196–225	CW gobo scroll, fast to slow		proportional
			226–255	CCW gobo scroll, slow to fast		proportional
				gobo index selected - set by CH 13/19		
			000	No function		
			001–255	Gobo indexing from 0 to 360°		proportional
				gobo rotating selected - set by CH 13/19		
			000–014	No function		
14	20	Gobo wheel 1 index/rotate	015–127	CW gobo rotating, fast to slow		proportional

			128	Stop		step
			129–241	CCW gobo rotating, slow to fast		proportional
			242–255	Gobo swiveling, fast to slow		proportional
	21	Gobo wheel 1 index/ rotate 16-bit	000–255	Fine adjustment		
			000–005	Open		step
			006–011	Gobo 1 (Circle)		step
			012–017	Gobo 2 (Radial Lines)		step
			018–023	Gobo 3 (Spokes)		step
			024–029	Gobo 4 (Twist)		step
			030–035	Gobo 5 (Organic)		step
			036–041	Gobo 6 (Digi Blocks)		step
			042–047	Gobo 7 (Vector)		step
			048–053	Gobo 8 (Maze)		step
			054–059	Gobo 9 (Branches)		step
			060–063	Open		step
15	22	Static Gobo wheel	064–069	Gobo 1 shaking, slow to fast		proportional
			070–075	Gobo 2 shaking, slow to fast		proportional
			076–081	Gobo 3 shaking, slow to fast		proportional
			082–087	Gobo 4 shaking, slow to fast		proportional
			088–093	Gobo 5 shaking, slow to fast		proportional
			094–099	Gobo 6 shaking, slow to fast		proportional
			100–105	Gobo 7 shaking, slow to fast		proportional
			106–111	Gobo 8 shaking, slow to fast		proportional
			112–117	Gobo 9 shaking, slow to fast		proportional
			118–127	Open		step
			128–191	CW gobo scroll, fast to slow		proportional
			192–255	CCW gobo scroll, slow to fast		proportional
16	23	Prism (5-facet Round)	000–004	No function		
			005–127	Prism effect (index)		step
			128–255	Prism effect (rotating)		step
				prism index selected - set by CH 16/23		
			000	No function		
			001–255	Prism indexing from 0 to 360°		proportional
				prism rotating selected - set by CH 16/23		
17	24	Prism rotating	000–014	No function		
			015–127	CW prism rotating, fast to slow		proportional
			128	Stop		step
			129–241	CCW prism rotating, slow to fast		proportional
			242–255	Prism swiveling, fast to slow		proportional
	25	Prism rotating 16-bit	000–255	Fine adjustment		
18	26	Zoom	000–255	Wide to narrow		
	27	Zoom 16-bit	000–255	Fine adjustment		
19	28	Iris	000–255	Big to small		
	29	Iris 16-bit	000–255	Fine adjustment		

20	30	Iris macro	000–063	No function		
			064–127	Auto change, slow to fast		proportional
			128–191	Slow open fast close, slow to fast		proportional
			192–255	Slow close fast open, slow to fast		proportional
21	31	Focus	000–255	Far to near		
	32	Focus 16-bit	000–255	Fine adjustment		
22	33	Auto Focus	000	No function		
			001–011	0–5 m, auto focus gobo wheel 1		step
			012–022	6 m, auto focus gobo wheel 1		step
			023–033	7 m, auto focus gobo wheel 1		step
			034–044	8 m, auto focus gobo wheel 1		step
			045–055	9 m, auto focus gobo wheel 1		step
			056–066	10 m, auto focus gobo wheel 1		step
			067–077	12.5 m, auto focus gobo wheel 1		step
			078–088	15 m, auto focus gobo wheel 1		step
			089–099	17.5 m, auto focus gobo wheel 1		step
			100–110	20–60 m, auto focus gobo wheel 1		step
			111–127	Auto detect distance gobo wheel 1		step
			128–138	0–5 m, auto focus gobo wheel 2		step
			139–149	6 m, auto focus gobo wheel 2		step
			150–160	7 m, auto focus gobo wheel 2		step
			161–171	8 m, auto focus gobo wheel 2		step
			172–182	9 m, auto focus gobo wheel 2		step
			183–193	10 m, auto focus gobo wheel 2		step
			194–204	12.5 m, auto focus gobo wheel 2		step
			205–215	15 m, auto focus gobo wheel 2		step
			216–226	17.5 m, auto focus gobo wheel 2		step
			227–237	20–60 m, auto focus gobo wheel 2		step
			238–255	Auto detect distance gobo wheel 2		step
23	34	Light Frost	000–255	0–100% Light frost		
24	35	Animation Wheel	000–001	No function		
			002–125	Animation rotating, fast to slow		proportional
			126–131	Stop		proportional
			132–255	Reverse animation rotating, slow to fast		proportional
25	36	Virtual Animation	000–001	No function		
			002–125	Shaking effect, fast to slow		proportional
			126–131	Stop		proportional
			132–255	Fade effect, slow to fast		proportional
26	37	Control	000–004	No function		
			005–009	Pan reverse		step
			010–014	Pan normal		step
			015–019	Tilt reverse		step
			020–024	Tilt normal		step
			025–029	Auto pan invert OFF		step
			030–034	Auto pan invert ON		step

035–039	BO PT OFF	step
040–044	BO PT ON	step
045–049	BO Color OFF	step
050–054	BO Color ON	step
055–059	BO Gobo OFF	step
060–064	BO Gobo ON	step
065–084	Reserved	
085–089	Fans Auto	step
090–094	Fans Full	step
095–099	Fans Silent	step
100–104	Fans Studio (TV35)	step
105–109	DMX Fail: Hold	step
110–114	DMX Fail: Off	step
115–119	Dimmer mode FAST	step
120–124	Dimmer mode SMOOTH	step
125–129	Reserved	
130–134	Dimmer Linear	step
135–139	Dimmer Square	step
140–144	Dimmer Inv-Square	step
145–149	Dimmer S-curve	step
150–154	PWM 600 Hz	step
155–159	PWM 1200 Hz	step
160–164	PWM 2000 Hz	step
165–169	PWM 4000 Hz	step
170–174	PWM 6000 Hz	step
175–179	PWM 15000 Hz	step
180–199	Reserved	
200–204	Reset P/T	step
205–209	Reset Iris/Prism	step
210–214	Reset Color/CMY	step
215–219	Reset Gobo/Gobo rotate	step
220–224	Reset Zoom/Focus	step
225–229	Reserved	
230–234	Reset Frost/Animation	step
235–239	Reset All	step
240–244	Reserved	step
245–249	Reserved	step
250–255	No function	