

# CONTROLLER MODE – DMX OPERATION

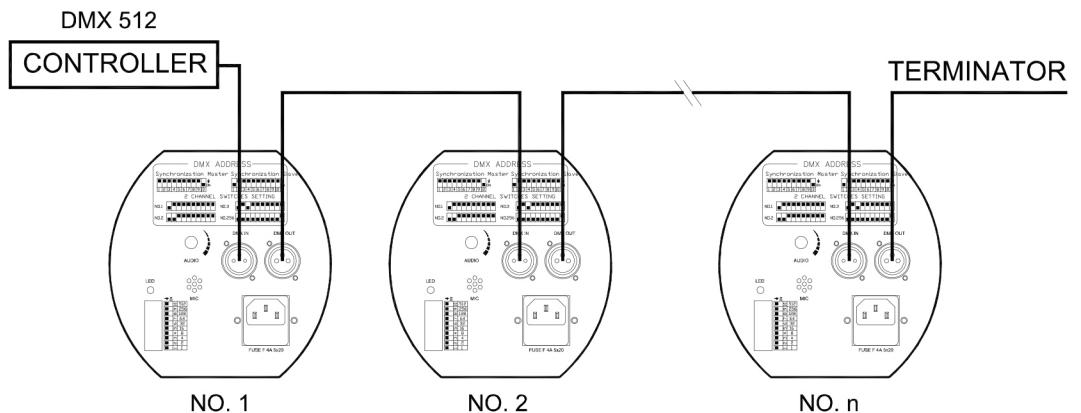
## DMX512 CONTROL CHANNEL FUNCTIONS

CHAMELEON has 2 channels and uses DMX 512 control protocol. They are listed in the following table.

CHANNEL	DMX 512 VALUE	DESCRIPTION
1 COLOUR	0 - 16	Black-out
	17 - 33	Strobe
	34 - 50	White
	51 - 67	Cyan
	68 - 84	Yellow
	85 - 101	Green
	102 - 118	Purple
	119 - 135	Orange
	136 - 152	Red
	153 - 169	Pink
	170 - 179	Blue
	180 - 255	Colour wheel rotates in clockwise or anti-clockwise direction from slow to fast
2 DIMMER	0 - 255	Lamp brightness adjust from dark to bright

## CONTROLLER AND PROJECTOR CONNECTION

Connect the controller's output to the first projector's input, and connect the first projector's output to the second projector's input. The rest may be deduced by analogy. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.



The red LED blinking means the projector is receiving DMX 512 signal normally.

# TABLE FOR SETTING ADDRESS OF DIP SWITCHES

The following table lists the setting codes of the address of the DIP switches, and the luminaires are from No.1 to No. 256. Each DIP switch has 10 switches with the number of #1, #2, #3, #4, #5, #6, #7, #8, #9 and #10. (For the CHAMELEON, set all #10 switches on the “OFF”.)

In the table, “0” means the switch is on the “OFF”, and “1” on the “ON”.

For example, if you want to look up the address setting of the No 50 luminaire, you will find the NO 50 luminaire row (#1, #2, #3, #4, #5) with the codes of “1”, “1”, “0”, “0”, “0” and column (#6, #7, #8, #9) with the codes of “1”, “1”, “0”, “0”. So set the #1, #2, #6 and #7 switches on the “ON”, and set the #3, #4, #5, #8, #9, and #10 switches on the “OFF”.

Setting Table of DIP Switches					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
0=OFF 1=ON					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5																	
0	0	0	0	0																	
1	0	0	0	0		1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
0	1	0	0	0																	
1	1	0	0	0		2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
0	0	1	0	0																	
1	0	1	0	0		3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
0	1	1	0	0																	
1	1	1	0	0		4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
0	0	0	1	0																	
1	0	0	1	0		5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
0	1	0	1	0																	
1	1	0	1	0		6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
0	0	1	1	0																	
1	0	1	1	0		7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
0	1	1	1	0																	
1	1	1	1	0		8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
0	0	0	0	1																	
1	0	0	0	1		9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
0	1	0	0	1																	
1	1	0	0	1		10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
0	0	1	0	1																	
1	0	1	0	1		11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
0	1	1	0	1																	
1	1	1	0	1		12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
0	0	0	1	1																	
1	0	0	1	1		13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
0	1	0	1	1																	
1	1	0	1	1		14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
0	0	1	1	1																	
1	0	1	1	1		15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255
0	1	1	1	1																	
1	1	1	1	1		16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256