



lyyt 153.777UK 12-24V RGB DMX Controller User Manual

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Introduction

This DMX decoder is designed to convert the universal standard DMX512/1990 into analogue signal to control either 12V or 24V RGB LED tape. This model can drive 8A/channel and it simply assigns a colour per DMX channel. DC power input and colour channel outputs are connected via screw terminals. DMX input and through connection are also via screw terminals with the start address set by side mounted DIP switches. Powered by a

12V or 24V power supply, this decoder enables 3 channel DMX control of Red, Green and Blue output.

Features

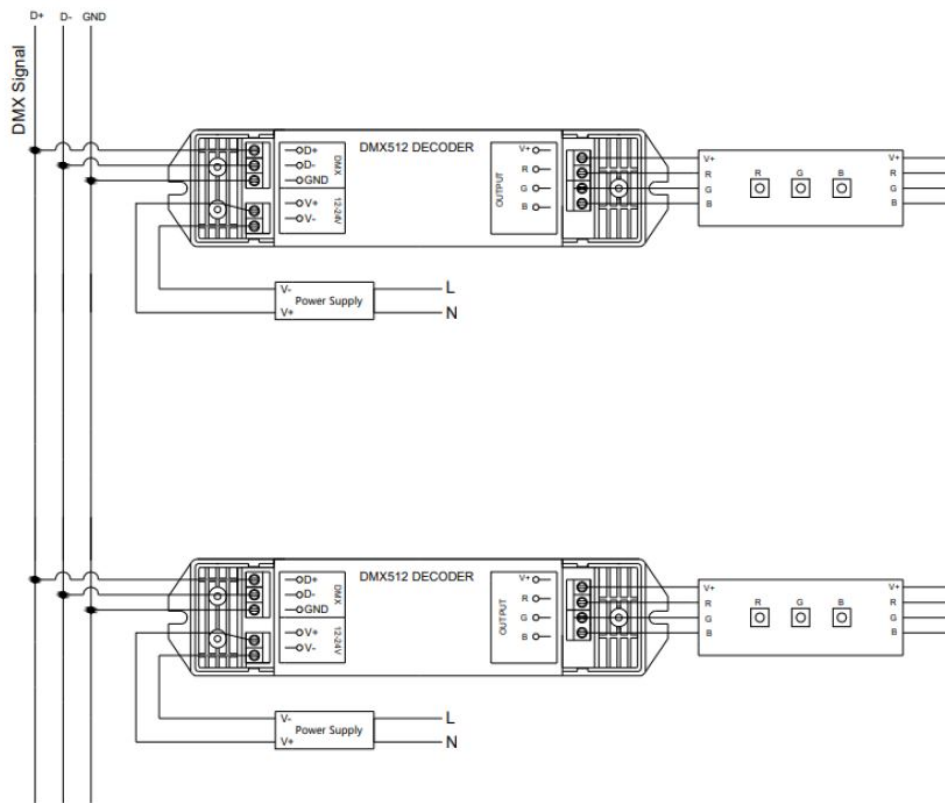
- 3 channel DMX control for RGB colour mixing
- 256 levels of brightness
- Up to 8A output per channel
- 12V or 24V operation
- Screw terminal DMX input

Specification

Item	Value
Power supply	12-24Vdc
Power max.:	$\leq 288\text{W}/12\text{V}$ $\leq 576\text{W}/24\text{V}$
Current consumption	24A max.
DMX channels	3
Output current	3 x 8A max.
Power connection	Screw terminals
Output	Blue, Red, Green, V+
Working temperature	-20 50°C
IP rating	IP20
Dimensions	170 x 30 x 40mm
Weight	92g

Wiring Diagram

This product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.



AVSL (Europe) Ltd, Unit 3D North Point House, North Point Bus. Park, New Mallow Road, Cork, Ireland.

DIP SW IrTC H	DMX AD Df;	DIP SW IrTC H	DMX AD DF	DIP S WI, TCH ,OMX ADD		DIP SW ITCH pMX ADDF	
1 23456789	INIUMBE IR	123456789	NUMBER	11 23-4:567 8 9	NUMBER	123456789 INIUMB!E!R	
100000000	001	001 101000	044	111010100	087	010000010	130
01 0 0 00000	002	101101000	045	0001101 00	088	110000010	11 3 1
110000000	003	011101000	046	100110100	089	001000010	11 3 2
001000000	004	111101000	047	01011 10 1 00	090	101000010	133
1010 00000	005	000011000	048	110 1101 00	091	011000010	134
011000000	006	100011000	049	00 1110100	092	111000010	1135
111000000	007	0100 1 1 000	05{J	10 1111 0 10 0	0, 93	000100010	136
000100000	008	110011000	051	011 1101 00	094	10 0100010	1137
100100000	00, 9	001011000	052	111110100	095	010100010	113 8
0 10100000	010	1 0101 11 0 00	053	000001100	096	110100010	139
110100000	011	011011000	054	100001100	097	001 1 00 010	11 4 0
0 01100000	012	1110 11000	055	010001100	098	101100010	11 4 1

101100000	013	000 11 1 0 0 0	056	110001100	099	011100010	142
011100000	014	100111000	057	001001100	100	111 1 00 010	143
111100000	015	0101 11000	058	101001100	rn1	000010010	1144
000010000	016	110 11 1 000	05g,	0 11001100	rn2	100010010	14 5
1000 10000	017	001111000	060	111001100	103	0 10010010	11 4 6
010010000	018	1011 11000	061	000 1 0 1100	104	110010010	114 7
1100 10000	019	011 1111 0 00	062	100101100	105	001010010	148
001010000	020	1111111 0 00	063	010 1011 00	106	1010 1 0010	149
101010000	021	000000100	064	110101100	107	011010010	11 5 0
0 110 10000	022	100000100	065	00 1110 1100	ms	111010010	151
111010000	023	010000100	066	101 1011 00	109	00 0110010	115 2
000110000	024	110000100	067	0 11101100	u o	10 0110010	11 53
100110000	025	001000100	068	111101100	U 1	010110010	154
010 110000	026	101000100	069'	000011100	112	1 10110010	11 55
110 110000	027	011000100	070	10 0011100	113	001110010	11 56
0011 10000	028	111000100	07 11	010011100	114	101110010	157
101110000	02, 9	000100100	072	110011100	115	011 11 0010	158
011110000	030	100100100	073	00 1011100	U 6	111110010	1159
1111 10000	031	010100100	074	101011100	U 7	000001010	160
0000, 011 00 0	032	110100100	075	011011100	118	100001010	116 1
1000011 000	033	001100100	076	111011100	U 9	010001010	11 6 2
010001000	034	101100100	077	000111100	120	110001010	16 3
1100 011 00 0	035	011100100	078	1001111 00	121	00100 1 0 10	11 6 4
0010011 000	036	111100100	079	010111100	122	101001010	11 65
101001000	037	0000 1 0 1 0 0	080	110111100	123	01100 1010	166
0110 01000	038	100010100	081	0011111 00	124	11100 1010	167
1110011000	03 , 9	0 10010100	082	10 1111 1100	125	000101010	116 8
00010 1000	040	110010100	083	011111100	126	10010 1010	169
100101 1 00 0	04 1	00101 1 0 1 00	084	111 1111 00	127	0 10101010	11 7 0

01010 11 000	042	1010 10100	085	00 0000010	128	110101010	11 7 1
11010 1000	043	011011 0 1 00	086	100000010	129	001101010	172

DIP SWtrTC H	OMX ADDf;	DIP SWITCH	DMX AD DI	DIP SWITCH	DMX AD Df;	D IP S WITC H	DMiX AD Df;
123456789	NUIM BE IR	123456789	NU MBE	11 2 345 6 7 89	NUM IB E R	123456789	NU MIBE R
101101010	173	000110110	216	110000001	259	0 11 10 1001	302
0-11 101010	174	1001 10110	217	00 1000001	260	11-11 0 1001	303
111101010	175	010110110	218	101000001	261	000011001	304
000011010	176	110111 0 11 0	219	011000001	262	1 00011001	305
100011010	177	001110110	220	111000001	263	010011001	306
010011010	178	1 0 1 1 11 0 110	2211	000 1 00 00 1	264	110011001	307
111 00 110 10	17, 9	011110110	222	100100001	265	0011 0 1100 1	308
001011010	180	1111 10110	223	010 1 00 001	266	101011001	309
101011010	181	000001110	224	110100001	267	011011 001	310
011011010	182	100001110	225	001100001	268	1 111 0 11001	311
11110 11010	183	010001110	226	10 1100001	269	000111001	312
000111010	184	1 1 0 001110	227	01110000 1	270	100111001	313
100 111010	185	001001110	228	111100001	271	0 1 0 111001	314
011 0 11101 0	186	101001110	229	00 0 010001	272	110111001	315
110111010	187	011001110	230	100010001	273	001111 001	316
001111010	188	111001110	2311	010010001	274	1 0 -11 11001	317
101111010	189'	000101110	232	110010001	275	011111001	318
011111010	190	1 00 1 0 1110	233	001010001	276	111111 001	319
111 1111010	191	010101110	234	101010001	277	0000 00101	320
000000110	192	110101110	235	011010001	278	10000 0101	32 1
100000110	193	001101110	236	111010001	279	010000101	322
0100 00 110	194	101101110	237	000110001	280	1 10 00 01 01	323

11 00 0 0110	195	011101110	238	100110001	281	001000101	324
001000110	196	1 11 1 0 1110	239	010110001	282	101000101	325
1010 0 0110	197	000011110	240	110110001	283	0 11 0 00 101	326
011 10 0 0 110	198	100011110	24 1	00 1110001	284	1111 00 0 101	32 7
111000110	199	010011 1110	242	101110001	285	000100101	328
000100110	200	1100111 110	243	011110001	286	1 0010 0101	329
1001001 10	201	001011110	244	111110001	287	010100101	330
010100110	202	1010111 110	245	000001001	288	110100101	331
1 11 010 0110	203	0110111 110	246	100001001	289	00 1100101	332
001100110	204	1110 11110	247	01000 1001	290	10111 0 0 10 1	333
101100110	205	000111 1110	248	110001001	291	011100101	334
011 1100110	206	100111 1110	249	001001001	292	1 1 11 10 0 1 01	33 5
1 111 10 011 0	207	0101 11110	250	101001001	293	000010101	336
000010110	208	110111110	251	011001001	294	100010101	337
1000 10110	20, 9	001111110	252	111001001	295	0 10 010101	338
011 00 101 10	210	1011 11110	253	000101001	296	110010101	339
110010110	211	011111110	254	100101001	297	001010101	340
001010110	212	111111 1110	255	010101001	298	1 011 010101	3 4 1
101010110	213	000000001	256	110101001	299	0111 010 1 01	3 4 2
0 1101 0110	214	1 00 0000011	257	001101001	300	111010101	343
111010110	215	010000001	258	101101001	301	00 0110101	344

DIP SWIrTC M	DMX ADDFi	DIP SWIrTC M	P M X AD D5	DI P S WI, J CH	M X ADD F	D IP S WITC H	PM!X A D D F
123456789	NUMBER	123456789	NUMBE	11 2345 6789	NUM BE R	123456789	INU M BE R
10011 0101	345	001000011	388	111101011 1	431	01011011 11	474
010110101	346	1010 000111	3 89	0 0 0 011011	432	11 0110 111	475

110110101	347	011000011	390		100011011	433	00 1 11 01 1 1	476
001110101	348	111000011	391		010 011011	434	101110111	477
101110101	349	0001000111	392		110011011	435	011110 111	478
01 1110101	350	100100011	3, 93		0010110 11	436	111110111	479
111110101	351	0101 00011	394		10 1011011 1	437	00000111 11	480
000001101	352	110100011	395		011011011	438	100001111	481
1000 01101	353	0011000111	396		111 0110 11	439	0 10001111	482
010001101	354	1011 00011	397		000 1 11 01 1	440	1100011111	483
110001101	355	011100011	39<	8	100 1 11 01 1	441	001001 111	484
001001101	356	11 11100011 1	399		0101110 11	442	101001 11 1 1	485
101001101	357	00001001 1	400		110111011 1	443	0110011111	486
011001101	358	1000 1 0011	4°1		00 1111011	444	111 001111	487
11 1001101	35g,	0100100111	402		1011110 11	445	000 1011111	488
000101101	360	11001001 1	403		0 11111011	446	1001011111	489
100101101	361	001010011	4!04		111111011	447	010101 111	490
01010 1 101	362	1010100111	4 °05		000000111	448	11010111 11	491
110101101	363	01101001 1	406		100 000111	449	001101111	492
001101101	364	1110100111	4'07		0100001 11 1	450	101101 111	493
10 1101101	365	0001100111	408		110000111	451	011 1 0 1111 1	494
011101101	366	10011001 1	409		00 10001111	452	1111011111	495
111101101	367	010110011	410		1010001111	453	000011111	496
00 0011101	368	1110 110011 1	4 U		011 000111	454	1000111111	497
100011101	35, 9	00111001 1	4 12		111000111 1	455	01001111 11	498
010011101	370	1 0 1110011 1	4 113		000 1 00111 1	456	11 0011 111	499
110011101	371	0111100111	414		1001001 11	457	0010 111111	500
D01011101	372	11111001 1	4 15		010 1 00 111 1	458	1010111111	501
101011101	373	000 0 01011 1	416		110100111 1	459	011011 111	502

