



12-24V RGB DMX Decoder 3x8A

User Manual

Contents [[hide](#)]

[1 Introduction](#)

[2 Installation](#)

[3 Documents / Resources](#)

[3.1 References](#)

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 per 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

Power Supply	12-24Vdc
Power (Max)	288W/12V or 576W/24V
Current Consumption	24A Max
DMX Channels	3
Output Current	3 x 8A Max
Power Connectors	Screw Terminals
IP Rating	IP20

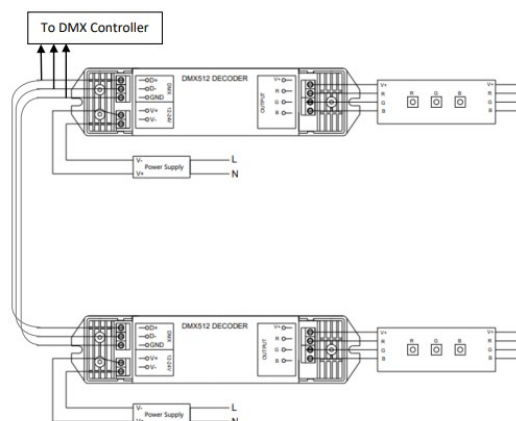
Installation

When installing multiple DMX Decoders, you can 'daisy chain' them together linking the positive to positive, negative to negative and ground to ground terminals.

-Please note it is highly recommended to use shielded twisted pair cables for this task.

If you want the DMX Controller Sliders to operate the three RGB Channels simultaneously, then you need to make sure all the DIP Switches are set to 1000000000 (DMX Address 001)

If you want to operate the next strip of LED tape independently on the next set of sliders on your DMX Controller, then you would have the first DMX Decoder DIP Switches set to 1000000000 (DMX Address 001) and the next one to 0010000000 (DMX Address 004) and so on. (Please see the highlighted DMX addresses below)



DMX Address	DIP Switch Position
001	1000000000
002	0100000000
003	1100000000
004	0010000000
005	1010000000
006	0110000000
007	1110000000
008	0001000000
009	1001000000
010	0101000000
011	1101000000
012	0011000000
013	1011000000
014	0111000000
015	1111000000
016	0000100000
017	1000100000
018	0100100000
019	1100100000
020	0010100000

021	1010100000
022	0110100000
023	1110100000
024	0001100000
025	1001100000
026	0101100000
027	1101100000
028	0011100000

029	1011100000
030	0111100000
031	1111100000
032	0000010000
033	1000010000
034	0100010000
035	1100010000
036	0010010000
037	1010010000
038	0110010000
039	1110010000
040	0001010000

041	1001010000
042	0101010000
043	1101010000
044	0011010000
045	1011010000
046	0111010000
047	1111010000
048	0000110000
049	1000110000
050	0100110000
051	1100110000
052	0010110000
053	1010110000
054	0110110000
055	1110110000
056	0001110000
057	1001110000
058	0101110000
059	1101110000

060	0011110000
-----	------------

061	1011110000
062	0111110000
063	1111110000
064	0000001000
065	1000001000
066	0100001000
067	1100001000
068	0010001000
069	1010001000
070	0110001000
071	1110001000
072	0001001000
073	1001001000
074	0101001000
075	1101001000
076	0011001000
077	1011001000
078	0111001000
079	1111001000
080	0000101000
081	1000101000

082	0100101000
083	1100101000
084	0010101000
085	1010101000
086	0110101000
087	1110101000
088	0001101000
089	1001101000
090	0101101000

091	1101101000
092	0011101000
093	1011101000
094	0111101000
095	1111101000
096	0000011000
097	1000011000
098	0100011000
099	1100011000
100	0010011000
101	1010011000

102	0110011000
103	1110011000
104	0001011000
105	1001011000
106	0101011000
107	1101011000
108	0011011000
109	1011011000
110	0111011000
111	1111011000
112	0000111000
113	1000111000
114	0100111000
115	1100111000
116	0010111000
117	1010111000
118	0110111000
119	1110111000
120	0001111000
121	1001111000

122	0101111000
123	1101111000
124	0011111000
125	1011111000
126	0111111000
127	1111111000
128	0000000100
129	1000000100
130	0100000100
131	1100000100
132	0010000100
133	1010000100
134	0110000100
135	1110000100
136	0001000100
137	1001000100
138	0101000100
139	1101000100
140	0011000100
141	1011000100
142	0111000100

143	1111000100
144	0000100100
145	1000100100
146	0100100100
147	1100100100
148	0010100100
149	1010100100
150	0110100100
151	1110100100
152	0001100100

153	1001100100
154	0101100100
155	1101100100
156	0011100100
157	1011100100
158	0111100100
159	1111100100
160	0000010100
161	1000010100
162	0100010100

163	1100010100
164	0010010100
165	1010010100
166	0110010100
167	1110010100
168	0001010100
169	1001010100
170	0101010100
171	1101010100
172	0011010100
173	1011010100
174	0111010100
175	1111010100
176	0000110100
177	1000110100
178	0100110100
179	1100110100
180	0010110100
181	1010110100
182	0110110100
183	1110110100

184	0001110100
185	1001110100
186	0101110100
187	1101110100
188	0011110100
189	1011110100
190	0111110100
191	1111110100
192	0000001100
193	1000001100
194	0100001100
195	1100001100
196	0010001100
197	1010001100
198	0110001100
199	1110001100
200	0001001100
201	1001001100
202	0101001100
203	1101001100
204	0011001100

205	1011001100
206	0111001100
207	1111001100
208	0000101100
209	1000101100
210	0100101100
211	1100101100
212	0010101100
213	1010101100
214	0110101100

215	1110101100
216	0001101100
217	1001101100
218	0101101100
219	1101101100
220	0011101100
221	1011101100
222	0111101100
223	1111101100
224	0000011100

225	1000011100
226	0100011100
227	1100011100
228	0010011100
229	1010011100
230	0110011100
231	1110011100
232	0001011100
233	1001011100
234	0101011100
235	1101011100
236	0011011100
237	1011011100
238	0111011100
239	1111011100
240	0000111100
241	1000111100
242	0100111100
243	1100111100
244	0010111100
245	1010111100

246	0110111100
247	1110111100
248	0001111100
249	1001111100
250	0101111100
251	1101111100
252	0011111100
253	1011111100
254	0111111100
255	1111111100
256	0000000010
257	1000000010
258	0100000010
259	1100000010
260	0010000010
261	1010000010
262	0110000010
263	1110000010
264	0001000010
265	1001000010
266	0101000010

267	1101000010
268	0011000010
269	1011000010
270	0111000010
271	1111000010
272	0000100010
273	1000100010
274	0100100010
275	1100100010
276	0010100010

277	1010100010
278	0110100010
279	1110100010
280	0001100010
281	1001100010
282	0101100010
283	1101100010
284	0011100010
285	1011100010
286	0111100010

287	1111100010
288	0000010010
289	1000010010
290	0100010010
291	1100010010
292	0010010010
293	1010010010
294	0110010010
295	1110010010
296	0001010010
297	1001010010
298	0101010010
299	1101010010
300	0011010010
301	1011010010
302	0111010010
303	1111010010
304	0000110010
305	1000110010
306	0100110010
307	1100110010

308	0010110010
309	1010110010
310	0110110010
311	1110110010
312	0001110010
313	1001110010
314	0101110010
315	1101110010
316	0011110010
317	1011110010
318	0111110010
319	1111110010
320	0000001010
321	1000001010
322	0100001010
323	1100001010
324	0010001010
325	1010001010
326	0110001010
327	1110001010
328	0001001010

329	1001001010
330	0101001010
331	1101001010
332	0011001010
333	1011001010
334	0111001010
335	1111001010
336	0000101010
337	1000101010
338	0100101010

339	1100101010
340	0010101010
341	1010101010
342	0110101010
343	1110101010
344	0001101010
345	1001101010
346	0101101010
347	1101101010
348	0011101010

349	1011101010
350	0111101010
351	1111101010
352	0000011010
353	1000011010
354	0100011010
355	1100011010
356	0010011010
357	1010011010
358	0110011010
359	1110011010
360	0001011010
361	1001011010
362	0101011010
363	1101011010
364	0011011010
365	1011011010
366	0111011010
367	1111011010
368	0000111010
369	1000111010

370	0100111010
371	1100111010
372	0010111010
373	1010111010
374	0110111010
375	1110111010
376	0001111010
377	1001111010
378	0101111010
379	1101111010
380	0011111010
381	1011111010
382	0111111010
383	1111111010
384	0000000110
385	1000000110
386	0100000110
387	1100000110
388	0010000110
389	1010000110
390	0110000110

391	1110000110
392	0001000110
393	1001000110
394	0101000110
395	1101000110
396	0011000110
397	1011000110
398	0111000110
399	1111000110
400	0000100110

401	1000100110
402	0100100110
403	1100100110
404	0010100110
405	1010100110
406	0110100110
407	1110100110
408	0001100110
409	1001100110
410	0101100110

411	1101100110
412	0011100110
413	1011100110
414	0111100110
415	1111100110
416	0000010110
417	1000010110
418	0100010110
419	1100010110
420	0010010110
421	1010010110
422	0110010110
423	1110010110
424	0001010110
425	1001010110
426	0101010110
427	1101010110
428	0011010110
429	1011010110
430	0111010110
431	1111010110

432	0000110110
433	1000110110
434	0100110110
435	1100110110
436	0010110110
437	1010110110
438	0110110110
439	1110110110
440	0001110110
441	1001110110
442	0101110110
443	1101110110
444	0011110110
445	1011110110
446	0111110110
447	1111110110
448	0000001110
449	1000001110
450	0100001110
451	1100001110
452	0010001110

453	1010001110
454	0110001110
455	1110001110
456	0001001110
457	1001001110
458	0101001110
459	1101001110
460	0011001110
461	1011001110
462	0111001110

463	1111001110
464	0000101110
465	1000101110
466	0100101110
467	1100101110
468	0010101110
469	1010101110
470	0110101110
471	1110101110
472	0001101110

473	1001101110
474	0101101110
475	1101101110
476	0011101110
477	1011101110
478	0111101110
479	1111101110
480	0000011110
481	1000011110
482	0100011110
483	1100011110
484	0010011110
485	1010011110
486	0110011110
487	1110011110
488	0001011110
489	1001011110
490	0101011110
491	1101011110
492	0011011110
493	1011011110

494	0111011110
495	1111011110
496	0000111110
497	1000111110
498	0100111110
499	1100111110
500	0010111110
501	1010111110
502	0110111110
503	1110111110
504	0001111110
505	1001111110
506	0101111110
507	1101111110
508	0011111110
509	1011111110
510	0111111110
511	1111111110

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.



Errors and omissions excepted.

Copyright© 2025 AVSL Group Ltd, Unit 2 Bridgewater Park,
Taylor Road, Trafford Park, Manchester. M41 7JQ.

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

www.avsl.com



Documents / Resources

	AVSL 3x8A 12-24V RGB DMX Decoder [pdf] User Manual 3x8A, 3x8A 12-24V RGB DMX Decoder, 3x8A, 12-24V RGB DMX Decoder, RGB DMX Decoder, DMX Decoder, Decoder
--	---

References

- [User Manual](#)

AVSL

12-24V RGB DMX Decoder, 3x8A, 3x8A 12-24V RGB DMX Decoder, AVSL, DECODER, DMX Decoder, RGB DMX Decoder

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

e.g. whirlpool wrf535swhz

Search

[Manuals+](#) | [Upload](#) | [Deep Search](#) | [Privacy Policy](#) | [@manuals.plus](#) | [YouTube](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.