

# LED DMX Inset 20W RGBW 111 IP20 - User Manual



Item No: LD-120-140

## 1. Brief Introduction

The LED DMX inset RGBW is a 4 in 1 LED downlight with 4 channels red, green, blue and white and can be controlled via DMX signal. A total of 512 different DMX addresses can be set by means of DIP switches on the back of the downlight. The DMX inset has a beam angle of 40° and can be installed in conjunction with the most common ceiling mounting rings of the QR111 series.

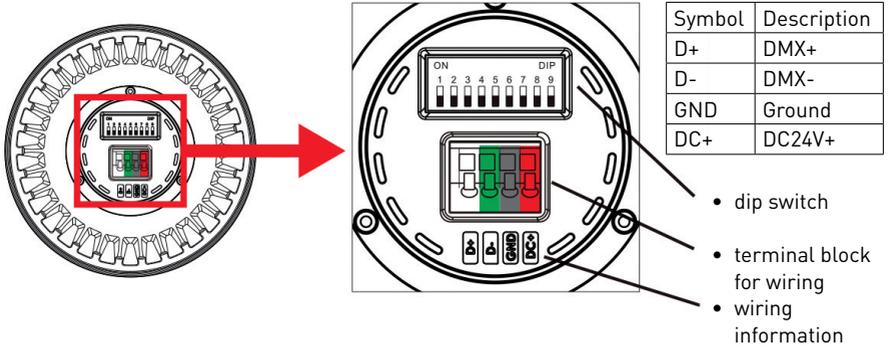
## 2. Specifications

Input Voltage	24VDC
Output Channels	4 channels (RGBW)
Max. Output Power	~ 20,2W
Input Signal	DMX
DMX Terminal	Terminal Block with max. 2,5mm <sup>2</sup>
Housing material	aluminium
Housing color	white
Dimension (L x W x H)	111mm Ø x 57mm
Weight	525g

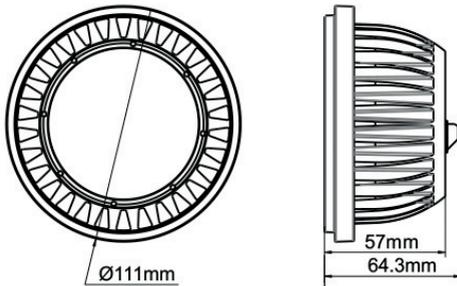
## 3. Basic Features

1. Input Voltage 24VDC
2. Standard Input Signal DMX 512
3. 4 DMX Channels Red, Green, Blue and Neutral White
4. 512 different DMX addresses with DIP switch adjustable
5. Installation by most common ceiling rings QR111 possible

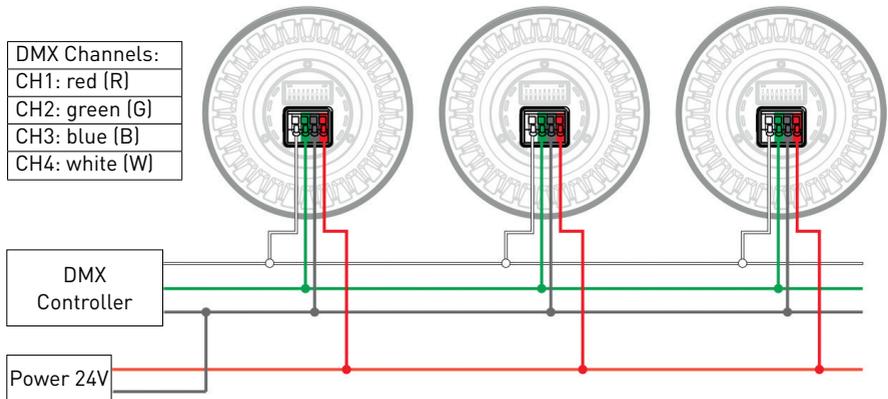
functional scheme:



#### 4. Dimensions

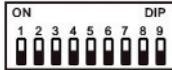


#### 5. Wiring Diagram



It is important that you always connect first the LED Downlight on the secondary side of the power supply before you supply the primary side with 230V and that the voltage supply of 24VDC will not be exceeded, otherwise the downlight can be damaged.

DMX address setting:



For DMX addressing, pls set the addresses with the DIP switch shown in the following table:

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

Ch# Dip Switch On	Ch# Dip Switch On	Ch# Dip Switch On	Ch# Dip Switch On	Ch# Dip Switch On
251 = 2, 4, 5, 6, 7, 8	311 = 2, 3, 5, 6, 9	371 = 2, 5, 6, 7, 9	431 = 2, 3, 4, 6, 8, 9	491 = 2, 4, 6, 7, 8, 9
252 = 1, 2, 4, 5, 6, 7, 8	312 = 1, 2, 3, 5, 6, 9	372 = 1, 2, 5, 6, 7, 9	432 = 1, 2, 3, 4, 6, 8, 9	492 = 1, 2, 4, 6, 7, 8, 9
253 = 3, 4, 5, 6, 7, 8	313 = 4, 5, 6, 9	373 = 3, 5, 6, 7, 9	433 = 5, 6, 8, 9	493 = 3, 4, 6, 7, 8, 9
254 = 1, 3, 4, 5, 6, 7, 8	314 = 1, 4, 5, 6, 9	374 = 1, 3, 5, 6, 7, 9	434 = 1, 5, 6, 8, 9	494 = 1, 3, 4, 6, 7, 8, 9
255 = 2, 3, 4, 5, 6, 7, 8	315 = 2, 4, 5, 6, 9	375 = 2, 3, 5, 6, 7, 9	435 = 2, 5, 6, 8, 9	495 = 2, 3, 4, 6, 7, 8, 9
256 = 1, 2, 3, 4, 5, 6, 7, 8	316 = 1, 2, 4, 5, 6, 9	376 = 1, 2, 3, 5, 6, 7, 9	436 = 1, 2, 5, 6, 8, 9	496 = 1, 2, 3, 4, 6, 7, 8, 9
257 = 9	317 = 3, 4, 5, 6, 9	377 = 4, 5, 6, 7, 9	437 = 3, 5, 6, 8, 9	497 = 5, 6, 7, 8, 9
258 = 1, 9	318 = 1, 3, 4, 5, 6, 9	378 = 1, 4, 5, 6, 7, 9	438 = 1, 3, 5, 6, 8, 9	498 = 1, 5, 6, 7, 8, 9
259 = 2, 9	319 = 2, 3, 4, 5, 6, 9	379 = 2, 4, 5, 6, 7, 9	439 = 2, 3, 5, 6, 8, 9	499 = 2, 5, 6, 7, 8, 9
260 = 1, 2, 9	320 = 1, 2, 3, 4, 5, 6, 9	380 = 1, 2, 4, 5, 6, 7, 9	440 = 1, 2, 3, 5, 6, 8, 9	500 = 1, 2, 5, 6, 7, 8, 9
261 = 3, 9	321 = 7, 9	381 = 3, 4, 5, 6, 7, 9	441 = 4, 5, 6, 8, 9	501 = 3, 5, 6, 7, 8, 9
262 = 1, 3, 9	322 = 1, 7, 9	382 = 1, 3, 4, 5, 6, 7, 9	442 = 1, 4, 5, 6, 8, 9	502 = 1, 3, 5, 6, 7, 8, 9
263 = 2, 3, 9	323 = 2, 7, 9	383 = 2, 3, 4, 5, 6, 7, 9	443 = 2, 4, 5, 6, 8, 9	503 = 2, 3, 5, 6, 7, 8, 9
264 = 1, 2, 3, 9	324 = 1, 2, 7, 9	384 = 1, 2, 3, 4, 5, 6, 7, 9	444 = 1, 2, 4, 5, 6, 8, 9	504 = 1, 2, 3, 5, 6, 7, 8, 9
265 = 4, 9	325 = 3, 7, 9	385 = 8, 9	445 = 3, 4, 5, 6, 8, 9	505 = 4, 5, 6, 7, 8, 9
266 = 1, 4, 9	326 = 1, 3, 7, 9	386 = 1, 8, 9	446 = 1, 3, 4, 5, 6, 8, 9	506 = 1, 4, 5, 6, 7, 8, 9
267 = 2, 4, 9	327 = 2, 3, 7, 9	387 = 2, 8, 9	447 = 2, 3, 4, 5, 6, 8, 9	507 = 2, 4, 5, 6, 7, 8, 9
268 = 1, 2, 4, 9	328 = 1, 2, 3, 7, 9	388 = 1, 2, 8, 9	448 = 1, 2, 3, 4, 5, 6, 8, 9	508 = 1, 2, 4, 5, 6, 7, 8, 9
269 = 3, 4, 9	329 = 4, 7, 9	389 = 3, 8, 9	449 = 7, 8, 9	509 = 3, 4, 5, 6, 7, 8, 9
270 = 1, 3, 4, 9	330 = 1, 4, 7, 9	390 = 1, 3, 8, 9	450 = 1, 7, 8, 9	510 = 1, 3, 4, 5, 6, 7, 8, 9
271 = 2, 3, 4, 9	331 = 2, 4, 7, 9	391 = 2, 3, 8, 9	451 = 2, 7, 8, 9	511 = 2, 3, 4, 5, 6, 7, 8, 9
272 = 1, 2, 3, 4, 9	332 = 1, 2, 4, 7, 9	392 = 1, 2, 3, 8, 9	452 = 1, 2, 7, 8, 9	512 = 1, 2, 3, 4, 5, 6, 7, 8, 9
273 = 5, 9	333 = 3, 4, 7, 9	393 = 4, 8, 9	453 = 3, 7, 8, 9	
274 = 1, 5, 9	334 = 1, 3, 4, 7, 9	394 = 1, 4, 8, 9	454 = 1, 3, 7, 8, 9	
275 = 2, 5, 9	335 = 2, 3, 4, 7, 9	395 = 2, 4, 8, 9	455 = 2, 3, 7, 8, 9	
276 = 1, 2, 5, 9	336 = 1, 2, 3, 4, 7, 9	396 = 1, 2, 4, 8, 9	456 = 1, 2, 3, 7, 8, 9	
277 = 3, 5, 9	337 = 5, 7, 9	397 = 3, 4, 8, 9	457 = 4, 7, 8, 9	
278 = 1, 3, 5, 9	338 = 1, 5, 7, 9	398 = 1, 3, 4, 8, 9	458 = 1, 4, 7, 8, 9	
279 = 2, 3, 5, 9	339 = 2, 5, 7, 9	399 = 2, 3, 4, 8, 9	459 = 2, 4, 7, 8, 9	
280 = 1, 2, 3, 5, 9	340 = 1, 2, 5, 7, 9	400 = 1, 2, 3, 4, 8, 9	460 = 1, 2, 4, 7, 8, 9	
281 = 4, 5, 9	341 = 3, 5, 7, 9	401 = 5, 8, 9	461 = 3, 4, 7, 8, 9	
282 = 1, 4, 5, 9	342 = 1, 3, 5, 7, 9	402 = 1, 5, 8, 9	462 = 1, 3, 4, 7, 8, 9	
283 = 2, 4, 5, 9	343 = 2, 3, 5, 7, 9	403 = 2, 5, 8, 9	463 = 2, 3, 4, 7, 8, 9	
284 = 1, 2, 4, 5, 9	344 = 1, 2, 3, 5, 7, 9	404 = 1, 2, 5, 8, 9	464 = 1, 2, 3, 4, 7, 8, 9	
285 = 3, 4, 5, 9	345 = 4, 5, 7, 9	405 = 3, 5, 8, 9	465 = 5, 7, 8, 9	
286 = 1, 3, 4, 5, 9	346 = 1, 4, 5, 7, 9	406 = 1, 3, 5, 8, 9	466 = 1, 5, 7, 8, 9	
287 = 2, 3, 4, 5, 9	347 = 2, 4, 5, 7, 9	407 = 2, 3, 5, 8, 9	467 = 2, 5, 7, 8, 9	
288 = 1, 2, 3, 4, 5, 9	348 = 1, 2, 4, 5, 7, 9	408 = 1, 2, 3, 5, 8, 9	468 = 1, 2, 5, 7, 8, 9	
289 = 6, 9	349 = 3, 4, 5, 7, 9	409 = 4, 5, 8, 9	469 = 3, 5, 7, 8, 9	
290 = 1, 6, 9	350 = 1, 3, 4, 5, 7, 9	410 = 1, 4, 5, 8, 9	470 = 1, 3, 5, 7, 8, 9	
291 = 2, 6, 9	351 = 2, 3, 4, 5, 7, 9	411 = 2, 4, 5, 8, 9	471 = 2, 3, 5, 7, 8, 9	
292 = 1, 2, 6, 9	352 = 1, 2, 3, 4, 5, 7, 9	412 = 1, 2, 4, 5, 8, 9	472 = 1, 2, 3, 5, 7, 8, 9	
293 = 3, 6, 9	353 = 6, 7, 9	413 = 3, 4, 5, 8, 9	473 = 4, 5, 7, 8, 9	
294 = 1, 3, 6, 9	354 = 1, 6, 7, 9	414 = 1, 3, 4, 5, 8, 9	474 = 1, 4, 5, 7, 8, 9	
295 = 2, 3, 6, 9	355 = 2, 6, 7, 9	415 = 2, 3, 4, 5, 8, 9	475 = 2, 4, 5, 7, 8, 9	
296 = 1, 2, 3, 6, 9	356 = 1, 2, 6, 7, 9	416 = 1, 2, 3, 4, 5, 8, 9	476 = 1, 2, 4, 5, 7, 8, 9	
297 = 4, 6, 9	357 = 3, 6, 7, 9	477 = 6, 8, 9	477 = 3, 4, 5, 7, 8, 9	
298 = 1, 4, 6, 9	358 = 1, 3, 6, 7, 9	418 = 1, 6, 8, 9	478 = 1, 3, 4, 5, 7, 8, 9	
299 = 2, 4, 6, 9	359 = 2, 3, 6, 7, 9	419 = 2, 6, 8, 9	479 = 2, 3, 4, 5, 7, 8, 9	
300 = 1, 2, 4, 6, 9	360 = 1, 2, 3, 6, 7, 9	420 = 1, 2, 6, 8, 9	480 = 1, 2, 3, 4, 5, 7, 8, 9	
301 = 3, 4, 6, 9	361 = 4, 6, 7, 9	421 = 3, 6, 8, 9	481 = 6, 7, 8, 9	
302 = 1, 3, 4, 6, 9	362 = 1, 4, 6, 7, 9	422 = 1, 3, 6, 8, 9	482 = 1, 6, 7, 8, 9	
303 = 2, 3, 4, 6, 9	363 = 2, 4, 6, 7, 9	423 = 2, 3, 6, 8, 9	483 = 2, 6, 7, 8, 9	
304 = 1, 2, 3, 4, 6, 9	364 = 1, 2, 4, 6, 7, 9	424 = 1, 2, 3, 6, 8, 9	484 = 1, 2, 6, 7, 8, 9	
305 = 5, 6, 9	365 = 3, 4, 6, 7, 9	425 = 4, 6, 8, 9	485 = 3, 6, 7, 8, 9	
306 = 1, 5, 6, 9	366 = 1, 3, 4, 6, 7, 9	426 = 1, 4, 6, 8, 9	486 = 1, 3, 6, 7, 8, 9	
307 = 2, 5, 6, 9	367 = 2, 3, 4, 6, 7, 9	427 = 2, 4, 6, 8, 9	487 = 2, 3, 6, 7, 8, 9	
308 = 1, 2, 5, 6, 9	368 = 1, 2, 3, 4, 6, 7, 9	428 = 1, 2, 4, 6, 8, 9	488 = 1, 2, 3, 6, 7, 8, 9	
309 = 3, 5, 6, 9	369 = 5, 6, 7, 9	429 = 3, 4, 6, 8, 9	489 = 4, 6, 7, 8, 9	
310 = 1, 3, 5, 6, 9	370 = 1, 5, 6, 7, 9	430 = 1, 3, 4, 6, 8, 9	490 = 1, 4, 6, 7, 8, 9	

## 6. Safety Warnings

Before using the downlight, check whether it is during transport was damaged.

If this has been damaged, it must not be installed.

Avoid prolonged time to look directly into the LED light and do not shine into the eyes of other people.

Never cover the downlight with other objects.

Do not connect the downlight to other heat sources.

Do not expose the product to high temperatures or high humidity.

The downlight must be installed in a well - ventilated environment and must not be installed in heat-insulated material.

When connecting, ensure that the cables are not twisted or kinked.

Only use power supplies and components that are suitable for the LED downlight.