ColorKey

LED Par 64
10mm

LED PAR 64 USER MANUAL

Thank you for choosing the ColorKey DMX LED Par64. This lamp's ultra bright RGB LED's can mix and combine to create more than 16.7 million soft color effects which can be applied in various professional lighting applications from Stages, Dance Halls, and Clubs, to Houses of Worship.

Operation Instructions

Master/Slave

The Master/Slave mode will allow you to link up as many units as you want in a daisy chain fashion. In this mode, the first unit in the daisy chain will control the following units.

1) Connect all units in a daisy chain with DMX signal 3pin cables.

2) For master unit in Auto mode: Set all dip switches **1-10** to **OFF** after power up.

3) For Slave mode: set dip switches **1 & 10** to **ON** and all others to **OFF,** then the Slave units will run after the Master unit simultaneously.

Stand-Alone Mode (Color change --- Color fade)

You can run the fixtures in an automatic stand-alone mode by simply setting all fixtures to run as master units. In stand-alone mode, it runs from color change to color fade. Set dip switches **1-10** to **OFF** and it will run in low speed, to run in medium speed set dip switch **7** to **ON**, for fast speed set dip switches **7 & 8** to **ON**.

- **Slow:** **1-10** to **OFF**
- **Medium:** **7** to **ON**
- **Fast:** **7 & 8** to **ON**

Daisy Chain Connection

1) Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.

2) Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Proceed to connect from the output as stated above to the input of the following fixture and so on.

Color Selection

You can have any combination of switches **1, 2, & 3** set to **ON** to obtain static color mixing.

- **Red:** **1** to **ON**
- **Green:** **2** to **ON**
- **Blue:** **3** to **ON**

Sound Activation

For the master unit to be in Sound Activation mode, set dip switch **9** to **ON** and all others to **OFF.**

Flashing Mode

Once you have selected a static color you can make it flash by using dip switches **4, 5, & 6**. Set dip switch **4** to **ON** for a slow flash rate. Set dip switches **4 & 5** to **ON** for a medium flash rate and set dip switches **4, 5, & 6** to **ON** for a fast flash rate. For example if you wish to obtain a purple wash with a medium speed flash you would set dip switches **1** and **3** (red & blue) to **ON** to obtain purple, and then dip switches **4 & 5** to **ON** to obtain a medium speed flash. Set all the dip switches to **OFF** to activate an internal slow color mixing, change and fade program.

- **Slow:**   **4** to **ON**
- **Medium:**   **4 & 5** to **ON**
- **Fast:**   **4, 5, & 6** to **ON**

Blackout Mode

Set only dipswitch **10** to **ON** for blackout.

DMX Control Mode

Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customizing or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently. The LED Par 64 uses 4 channels of control. Enable the DMX control by setting dipswitch **10** to the **ON** position. Use dip switches **1 - 9** to address each fixture accordingly.

DMX Value/Function

Channel	Value	Function
1	0-255	Red *0% → 100%*
2	0-255	Green *0% → 100%*
3	0-255	Blue *0% → 100%*
CH4	000-000	BLACKOUT
	001-189	DIMMER
	190-250	FLASH
	251-255	FULL ON

Setting the DMX address

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "starting address" from 1- 511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the starting address. For example, a fixture that occupies or uses 4 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: **100** (CH1), **101** (CH2), **102** (CH3), and **103** (CH4). For the next fixture, choose a starting address so that the channels used do not overlap, the next unit in the chain would then start at 104.

DMX Dip Switch Quick Reference Chart

DMX DIP SWITCH SET
0=OFF
1=ON

					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
					#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			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0		6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0		7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0		8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0		9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0	1	0	1	0		10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1	1	0	1	0		11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0	0	1	1	0		12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
1	0	1	1	0		13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
0	1	1	1	0		14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
1	1	1	1	0		15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0	0	0	0	1		16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
1	0	0	0	1		17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0	1	0	0	1		18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
1	1	0	0	1		19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	0	1	0	1		20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
1	0	1	0	1		21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
0	1	1	0	1		22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
1	1	1	0	1		23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
0	0	0	1	1		24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
1	0	0	1	1		25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
0	1	0	1	1		26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
1	1	0	1	1		27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	0	1	1	1		28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
1	0	1	1	1		29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1		30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1		31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

Specifications

Specifications	
# LED's	183 (60 Red, 60 Green, 63 Blue)
Beam Angle	30°
Colors	16.7 Million
Foot Candles	18.5
Lux	199
LED Life Hours	100,000 Hours
Signal Protocol	DMX-512
DMX Channels	4
Programming Modes	Auto mode, DMX mode, Master / Slave mode, Sound Activation mode
Sound Activated	Yes
Built in Programs	Strobing and Color Fading with Fading Speed Variations
DMX Address Interface	Dip Switch
Power Consumption	28 Watts
Power	AC110V-250V. 60Hz-50Hz
Amps	Can run 25 units on a 20 Amp Circuit
Weight	7 lbs
Dimensions of Unit	29 x 23 x 22cm (11.4 x 9.1 x 8.7 Inches)
Housing	Black or Silver