

# GENNA

LIGHTING LABORATORY



## M4 DATA SHEET

## 1. Specifications:

<b>M4 - LED PANEL</b>	
<b>Parameter</b>	<b>Value</b>
Series	Masterpiece
LED configuration	Full RGB + W + W
Dimensions	1040*300*170mm
Weight	15 kg
Light aperture	1004 x 260 mm
Voltage input	48 Vdc +/- 5%
Power consumption	800W maximum
Unit power connection :	WEIPU 20 series 4 pin
Dimming	0% to 100% continuous
Flicker	flicker free 10% to 100%
Color temperature	1.500K – 20.000K
Control	Full on board touch screen/wired DMX/LumenRadio CRMX wireless
Beam angle	60° (half peak angle), 15° with optical lens
Color rendering	CRI average > 97
IP rating	IP20
Operation temperature-	Max. power: -20°C to + 30°C; 70% power: >+30°C

<b>M4 - POWER SUPPLY</b>	
<b>Parameter</b>	<b>Value</b>
Series	PS800
Dimension	400 x 190 x 110 mm
Weight	approx. 3,5 kg

Input range	100 to 240Vac, 50/60HZ, 800VA max
Output range	48 Vdc, 64A, 800VA max
Power input connection	NEUTRIK power CON 16A / Schuko (EU), 2meter
Power output connection	WEIPU 20 series 4pin
Operation temperature	-20°C to + 35°C

## 2. Photometrics

Measuring (lux)-with 60° lens (Device: Sekonic Spectromaster C-700)						
Distance	3200K	5600K	4600K	Red	Green	Blue
1m	53.300	57.400	55.500	4.850	8.140	2.260
3m	7.670	8.500	8.210	600	1110	309
5m	3.000	3.280	3.170	232	434	120
10m	754	840	814	57	106	30
30m	65	78	75	4	6	3
Measuring (lux)-with 15° lens (Device: Sekonic Spectromaster C-700)						
Distance	3200K	5600K	4600K	Red	Green	Blue
1m	81.700	89.700	87.000	11.900	15.900	4.220
3m	19.000	20.700	20.100	2.940	3.920	1.020
5m	8.210	8.960	8.700	1.380	1.800	461
10m	2.100	2.290	2.230	337	452	111
30m	212	235	228	31	40	10

## 3. DMX Channel Charts

CCT DMX Channels Chart

1 Segment Control	
Seg. 1	<ol style="list-style-type: none"> <li>1. Dimmer</li> <li>2. Color Temp.*</li> <li>3. Green/Magenta</li> <li>4. CCT/CCT+</li> </ol>

CCT/CCT+ color temperature DMX chart:

CCT DMX		
MIN	MAX	K
0	15	3000
16	23	3100
24	31	3200
32	39	3300
40	47	3400
48	55	3500
56	63	3600
64	71	3700
72	79	3800
80	87	3900
88	95	4000
96	103	4100
104	111	4200
112	119	4300
120	127	4400
128	135	4500
136	143	4600
144	151	4700
152	159	4800
160	167	4900
168	175	5000
176	183	5100
184	191	5200
192	199	5300
200	207	5400
208	215	5500
216	223	5600
224	231	5700
232	239	5800
240	247	5900
248	255	6000

CCT + DMX		
MIN	MAX	K
0	35	1500
36	36	1600
37	37	1700
38	38	1800
39	39	1900
40	40	2000
41	41	2100
42	42	2200
43	43	2300
44	44	2400
45	45	2500
46	46	2600
47	47	2700
48	48	2800
49	49	2900
50	50	3000
51	51	3100
52	52	3200
53	53	3300
54	54	3400
55	55	3500
56	56	3600
57	57	3700
58	58	3800
59	59	3900
60	60	4000
61	61	4100
62	62	4200
63	63	4300
64	64	4400
65	65	4500
66	66	4600
67	67	4700
68	68	4800
69	69	4900
70	70	5000
71	71	5100
72	72	5200
73	73	5300
74	74	5400
75	75	5500
76	76	5600
77	77	5700
78	78	5800

CCT + DMX		
MIN	MAX	K
79	79	5900
80	80	6000
81	81	6100
82	82	6200
83	83	6300
84	84	6400
85	85	6500
86	86	6600
87	87	6700
88	88	6800
89	89	6900
90	90	7000
91	91	7100
92	92	7200
93	93	7300
94	94	7400
95	95	7500
96	96	7600
97	97	7700
98	98	7800
99	99	7900
100	100	8000
101	101	8100
102	102	8200
103	103	8300
104	104	8400
105	105	8500
106	106	8600
107	107	8700
108	108	8800
109	109	8900
110	110	9000
111	111	9100
112	112	9200
113	113	9300
114	114	9400
115	115	9500
116	116	9600
117	117	9700
118	118	9800
119	119	9900
120	120	10000
121	121	10100
122	122	10200

CCT+ DMX		
MIN	MAX	K
123	123	10300
124	124	10400
125	125	10500
126	126	10600
127	127	10700
128	128	10800
129	129	10900
130	130	11000
131	131	11100
132	132	11200
133	133	11300
134	134	11400
135	135	11500
136	136	11600
137	137	11700
138	138	11800
139	139	11900
140	140	12000
141	141	12100
142	142	12200
143	143	12300
144	144	12400
145	145	12500
146	146	12600
147	147	12700
148	148	12800
149	149	12900
150	150	13000
151	151	13100
152	152	13200
153	153	13300
154	154	13400
155	155	13500
156	156	13600
157	157	13700
158	158	13800
159	159	13900
160	160	14000
161	161	14100
162	162	14200
163	163	14300
164	164	14400
165	165	14500
166	166	14600

CCT+ DMX		
MIN	MAX	K
167	167	14700
168	168	14800
169	169	14900
170	170	15000
171	171	15100
172	172	15200
173	173	15300
174	174	15400
175	175	15500
176	176	15600
177	177	15700
178	178	15800
179	179	15900
180	180	16000
181	181	16100
182	182	16200
183	183	16300
184	184	16400
185	185	16500
186	186	16600
187	187	16700
188	188	16800
189	189	16900
190	190	17000
191	191	17100
192	192	17200
193	193	17300
194	194	17400
195	195	17500
196	196	17600
197	197	17700
198	198	17800
199	199	17900
200	200	18000
201	201	18100
202	202	18200
203	203	18300
204	204	18400
205	205	18500
206	206	18600
207	207	18700
208	208	18800
209	209	18900
210	210	19000

CCT+ DMX		
MIN	MAX	K
211	211	19100
212	212	19200
213	213	19300
214	214	19400
215	215	19500
216	216	19600
217	217	19700
218	218	19800
219	219	19900
220	255	20000

RGBW DMX Channels Chart

1 Segment Control		2 Segments Control		4 Segments Control	
Seg. 1	1. Dimmer 2. RED dim. 3. GREEN dim. 4. BLUE dim. 5. WHITE dim. 6. W.WHYTE dim.	Seg. 1	1. <b>General Dim</b> 2. Dimmer 3. RED dim. 4. GREEN dim. 5. BLUE dim. 6. WHITE dim. 7. W.WHYTE dim.	Seg. 1	1. <b>General Dim</b> 2. Dimmer 3. RED dim. 4. GREEN dim. 5. BLUE dim. 6. WHITE dim. 7. W.WHYTE dim.
				Seg. 2	8. Dimmer 9. RED dim. 10. GREEN dim. 11. BLUE dim. 12. WHITE dim. 13. W.WHYTE dim.
		Seg. 2	8. Dimmer 9. RED dim. 10. GREEN dim. 11. BLUE dim. 12. WHITE dim. 13. W.WHYTE dim.	Seg. 3	14. Dimmer 15. RED dim. 16. GREEN dim. 17. BLUE dim. 18. WHITE dim. 19. W.WHYTE dim.
				Seg. 4	5. Dimmer 6. RED dim. 7. GREEN dim. 8. BLUE dim. 9. WHITE dim. 10. W.WHYTE dim.

### HSI DMX Channels Chart

1 Segment Control		2 Segments Control		4 Segments Control	
Seg. 1	1. Dimmer 2. Hue 3. Saturation	Seg. 1	1. <b>General Dim</b>	Seg. 1	1. <b>General Dim</b>
			2. Dimmer		2. Dimmer
		Seg. 2	3. Hue	Seg. 2	3. Hue
			4. Saturation		4. Saturation
Seg. 3	Seg. 2	5. Dimmer	Seg. 3	5. Dimmer	
		6. Hue		6. Hue	
Seg. 4	Seg. 2	7. Saturation	Seg. 4	7. Saturation	
				8. Dimmer	
					9. Hue
					10. Saturation
					11. Dimmer
					12. Hue
					13. Saturation

### GEL DMX Channels Chart

1 Segment control only
<ol style="list-style-type: none"> <li>1. Channel – Dimmer</li> <li>2. Channel – Color temperature base</li> <li>3. Channel – 1 group (Lee Color Correction)Gel selection –range 5-104</li> <li>4. Channel – 2 group (Lee Filter Color)Gel selection–range 5-94</li> <li>5. Channel – 3 group (Rosco Color)Gel selection – range 5-99</li> </ol>



## GEL Groups Charts

### Group 1 - Lee Color Correction

Gel range	Gel Name	Gel Number
5-9	Eighth 1/8 CTO	223
10-14	Quarter 1/4 CTO	206
15-19	Half 1/2 CTO	205
20-24	Three quarters 3/4CTO	285
25-29	Full 1/1 CTO	204
30-34	Double 2/1 CTO	287
35-39	Eighth 1/8 CTB	218
40-44	Quarter 1/4 CTB	203
45-49	Half 1/2 CTB	202
50-54	Three quarters 3/4 CTB	281
55-59	Full 1/1 CTB	201
60-64	Double 2/1 CTB	200
65-69	Plus Green 1/8	278
70-74	Plus Green 1/4	246
75-79	Plus Green 1/2	245
80-84	Plus Green 1/1	244
85-89	Minus Green 1/8	279
90-94	Minus Green 1/4	249
95-99	Minus Green 1/2	248
100-104	Minus Green 1/1	247
105-109	Fluorescent 5700K	241
110-104	Fluorescent 4300K	242

### Group 2- Lee Filters Color

Gel range	Gel Name	Gel Number
5-9	Rose Pink	2
10-14	Dark Magenta	46
15-19	Lavender	58

20-24	Pale Blue	63
25-29	Sky Blue	68
30-34	Evening Blue	75
35-39	Moss Green	89
40-44	Dark Yellow Green	90
45-49	Bright Pink	128
50-54	Deep Blue	120
55-59	Yellow	101
60-64	Golden Amber	134
65-69	Apricot	147
70-74	Fire	19
75-79	Cosmetic Peach	184
80-84	Industry Sodium	650
85-89	Sodium	651
90-94	Urban Sodium	652

Group 3- Rosco Color

Gel range	Gel Name	Gel Number
5-9	30 Magenta	4730
10-14	60 Magenta	4760
15-19	90 Magenta	4790
20-24	15 Cyan	4315
25-29	30 Cyan	4330
30-34	60 Cyan	4360
35-39	90 Cyan	4390
40-44	30 Green	4430
45-49	60 Green	4460
50-54	90 Green	4490
55-59	15 Yellow	4515
60-64	30 Yellow	4530
65-69	60 Yellow	4560
70-74	Salmon	R41

75-79	Deep Salmon	R42
80-84	Middle Rose	R44
85-89	Daylight Blue	R65
90-94	Green Blue	R77
95-99	Primary Blue	R80

DMX - Ultimate mode

Channel	Modes
1. Channel	<b>All modes - general dimmer</b>
2. Channel	<b>Mode selection:</b> <ul style="list-style-type: none"> <li>- CCT (Channel 1-9)</li> <li>- HSI (Channel 10-19)</li> <li>- RGBW (Channel 20-29)</li> <li>- GEL (Channel 30-39)</li> <li>- EFFECTS (Channel 40-49)</li> </ul>
3. Channel	<ul style="list-style-type: none"> <li>- For <b>CCT mode</b> – Color temperature</li> <li>- For <b>HSI mode</b> – HUE</li> <li>- For <b>RGBW</b> – RED dimmer</li> <li>- For <b>GEL</b> – Color Temp. base selection</li> <li>- For <b>Effect</b> – Effect Select* (0-140)</li> </ul>
4. Channel	<ul style="list-style-type: none"> <li>- For <b>CCT mode</b> –Green/Magenta</li> <li>- For <b>HSI mode</b> – Saturation</li> <li>- For <b>RGBW</b> – GREEN dimmer</li> <li>- For <b>GEL</b> – Gel selection (Group 1)</li> <li>- For <b>Effects</b> – Speed 0.5-1.5s (0-255)</li> </ul>
5. Channel	<ul style="list-style-type: none"> <li>- For <b>CCT</b> – CCT (0-127) CCT+ (128-225)</li> <li>- For <b>RGBW</b> – BLUE dimmer</li> <li>- For <b>GEL</b> – Gel selection (Group 2)</li> <li>- For <b>Effects</b> – <b>Fade 0-25.5m/s (0-225)</b></li> </ul>
6. Channel	<ul style="list-style-type: none"> <li>- For <b>RGBW</b> – WHITE dimmer</li> <li>- For <b>GEL</b> – Gel selection (Group 3)</li> <li>- For <b>EFFECTS</b> – Stop (0-100)/Go (101-255)</li> </ul>
7. Channel	<ul style="list-style-type: none"> <li>- For <b>RGBW</b> – WARM WHITE dimmer</li> </ul>

\*Effects Selection

Effect range	Effect Name
0-9	No effect
10-15	TV
16-20	Welding
21-25	Paparazzi
26-30	Kachusa
31-35	Fireworks
36-40	Explosion
41-45	Test
46-50	Lightning
51-55	Fire Single
56-60	Fire Multi
61-65	Candles
66-70	Clouds

Effect range	Effect Name
71-75	Comet
76-80	Sunrise
81-85	Sunset
86-90	Aurora
91-95	Police
96-100	Security
101-105	Warning
106-110	Fireman
111-115	Color Chase
116-120	Strobe
121-125	Disco Ball
126-130	Snake
131-135	Snake Reverse
136-140	Snake White