

RR-R2 DMX Chart

The RR/R2 has 3 types of DMX Profiles

1. DMX Standard Profiles
2. DMX Profiles with DMX Control of Built in FX
3. DMX Profiles with Extended DMX Control of Built in FX

When the lamp is in multiple pixel mode, patch additional fixtures of the same profile.

Example: A Q25R2 set to 10 Pixels in Profile 1 (HSIC) would be 5 channels per pixel
 $5 \times 10 = 50$ Channels

DMX Standard Profiles

1. HSIC – 8bit,
2. HSIC - 16 bit
3. HSI - 8bit,
4. XFade with CC - 8bit,
5. XFade - 8 bit,
6. CCT & RGB - 8 bit
7. CCT & RGB - 16 bit
8. RGB - 8 bit
13. RGBTD - 8 Bit
14. RGBTD - 16 Bit

DMX FX Profiles

For Effects Profiles, the FX parameters are for the entire fixture and come after the Pixel Profiles.

Example: An RR50 set to 20 Pixels in Profile 9 (HSIC+FX) would be 5 channels per pixel Plus 3 FX Channels
 $5 \times 20 = 100$
+ 3 FX
103 Channels

DMX Profiles with DMX Control of Built in FX

9. HSIC + FX – 8bit,
10. HSIC + FX - 16 bit
11. CCT & RGB + FX - 8 bit
12. CCT & RGB + FX - 16 bit

DMX Profiles with Extended DMX Control of Built in FX

15. HSIC + FX Extended– 8bit,
16. HSIC + FX Extended - 16 bit

17. CCT & RGB + FX Extended - 8 bit
18. CCT & RGB + FX Extended - 16 bit

Other Tables

- +/- Green Table
- FX Table
- FX Size Table
- FX Emergency Light

DMX Standard Profiles

Profile 1					
<u>HSIC – 8 Bit</u>					
<u>5 DMX Channels Per Pixel</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
3	+/- Green			SEE GREEN TABLE	50% / 128
4	Hue	0-255	0 to 360	0° to 360°	0
5	Saturation	0-255	0-100	White Light to RGB	0
Profile 2					
<u>HSIC – 16 Bit</u>					
<u>8 DMX Channels per Pixel</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1/2	Intensity	0-65,535	0-100		0
3	Color Temp	0-255	0-100	2000K to 6000K	0
4	+/- Green			SEE GREEN TABLE	50% / 128
5/6	Hue	0-65,535	0 to 360	0° to 360°	0
7/8	Saturation	0-255	0-100	White Light to RGB	0
Profile 3					
<u>HSI 8 bit</u>					
<u>3 DMX Channels per Pixel</u>					
Channel	Function	Value	Percentage		Default % / DMX
1	Intensity	0-255	0-100		0
2	Hue	0-255	0 to 360	0° to 360°	0
3	Saturation	0-255	0-100	4000K to RGB	0
*The white light value in this mode is 4000K					

Profile 4					
<u>Crossfade & CC - 8 bit</u>					
<u>3 DMX Channels per Pixel</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
3	+/- Green			SEE GREEN TABLE	50% / 128
Profile 5					
<u>Crossfade - 8 bit</u>					
<u>2 DMX Channels per Pixel</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
Profile 6					
<u>CCT & RGB - 8 Bit</u>					
<u>7 DMX Channels per Pixel</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
3	+/- Green			SEE GREEN TABLE	50% / 128
4	Crossfade	0-255	0-100	White Light to RGB	0
5	Red	0-255	0-100		0
6	Green	0-255	0-100		0
7	Blue	0-255	0-100		0

Profile 7					
CCT & RGB – 16 Bit					
9 DMX Channels per Pixel					
Channel	Function	Value	Percentage	Description	Default % / DMX
1/2	Intensity	0-65.535	0-100		0
3	Color Temp	0-255	0-100	2000K to 6000K	0
4	+/- Green			SEE GREEN TABLE	50% / 128
5/6	Crossfade	0-65,535	0-100	White Light to RGB	0
7	Red	0-255	0-100		0
8	Green	0-255	0-100		0
9	Blue	0-255	0-100		0
Profile 8					
RGB 8 bit					
3 DMX Channels per Pixel					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Red	0-255	0-100		0
2	Green	0-255	0-100		0
3	Blue	0-255	0-100		0
*The white light value in this mode is 4000k					

Profile 13					
<u>RGBTD 8 bit</u>					
<u>5 DMX Channels per Pixel</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Red	0-255	0-100		0
2	Green	0-255	0-100		0
3	Blue	0-255	0-100		0
4	2000k	0-255	0-100		0
5	6000k	0-255	0-100		0

Profile 14					
<u>RGBTD 16 bit</u>					
<u>10 DMX Channels per Pixel</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1/2	Red	0-65,535	0-100		0
3/4	Green	0-65,535	0-100		0
5/6	Blue	0-65,535	0-100		0
7/8	2000k	0-65,535	0-100		0
9/10	6000k	0-65,535	0-100		0

DMX FX Profiles

FX Profile 9					
<u>HSIC+FX – 8 Bit</u>					
5 DMX Channels per Pixel + 3 FX Channels					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
3	+/- Green			SEE GREEN TABLE	50% / 128
4	Hue	0-255	0 to 360	0° to 360°	0
5	Saturation	0-255	0-100	White Light to RGB	0
6	FX			SEE FX TABLE	0
7	FX Rate			SEE FX RATE TABLE	100%/128
8	FX Size	0-255	0-100%		0

FX Profile 10					
<u>HSIC+FX – 16 Bit</u>					
8 DMX Channels per Pixel + 3 FX Channels					
Channel	Function	Value	Percentage	Description	Default % / DMX
1/2	Intensity	0-65,535	0-100		0
3	Color Temp	0-255	0-100	2000K to 6000K	0
4	+/- Green			SEE GREEN TABLE	50% / 128
5/6	Hue	0-65,535	0 to 360	0° to 360°	0
7/8	Saturation	0-65,535	0-100	White Light to RGB	0
9	FX			SEE FX TABLE	0
10	FX Rate			SEE FX RATE TABLE	100%/128
11	FX Size	0-255	0-100%		0

FX Profile 11					
<u>CCT & RGB+FX – 8 Bit</u>					
7 DMX Channels per Pixel + 3 FX Channels					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
3	+/- Green			SEE GREEN TABLE	50% / 128
4	Crossfade	0-255	0-100	White Light to RGB	0
5	Red	0-255	0-100		0
6	Green	0-255	0-100		0
7	Blue	0-255	0-100		0
8	FX			SEE FX TABLE	0
9	FX Rate			SEE FX RATE TABLE	100%/128
10	FX Size	0-255	0-100%		0

FX Profile 12					
<u>CCT & RGB + FX – 16 Bit</u>					
9 DMX Channels per Pixel + 3 FX Channels					
Channel	Function	Value	Percentage	Description	Default % / DMX
1/2	Intensity	0-65.535	0-100		0
3	Color Temp	0-255	0-100	2000K to 6000K	0
4	+/- Green			SEE GREEN TABLE	50% / 128
5/6	Crossfade	0-65.535	0-100	White Light to RGB	0
7	Red	0-255	0-100		0
8	Green	0-255	0-100		0
9	Blue	0-255	0-100		0
10	FX			SEE FX TABLE	0
11	FX Rate			SEE FX RATE TABLE	100%/128
12	FX Size	0-255	0-100%		0

DMX Extended FX Profiles

FX Profile 15					
HSIC+FX – Extended – 8 Bit					
5 DMX Channels per Pixel + 7 FX Channels					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
3	+/- Green	0-255		SEE GREEN TABLE	50% / 128
5	Saturation	0-255	0-100	White Light to RGB	0
6	FX			SEE FX TABLE	0
7	FX Rate	0-255	0-100	SEE RATE TABLE	100%/128
8	FX Size	0-255	0-100%		0
9	FX ColorTemp2	0-255	0-100	2000K to 6000K	0
10	FX +/- Green	See above		Plus and Minus Green	50% / 128
11	FX Hue 2	0-255	0 to 360	0° to 360°	0
12	FX Saturation 2	0-255	0-100	White Light to RGB	0

FX Profile 16					
HSIC+FX – Extended – 16 Bit					
9 DMX Channels per Pixel + 9 FX Channels					
Channel	Function	Value	Percentage	Description	Default % / DMX
1/2	Intensity	0-65,535	0-100		0
3/4	Color Temp	0-65,535	0-100	2000K to 6000K	0
5	+/- Green			SEE GREEN TABLE	50% / 128
6/7	Hue	0-65,535	0 to 360	0° to 360°	0
8/9	Saturation	0-65,535	0-100	White Light to RGB	0
10	FX			SEE FX TABLE	0
11	FX Rate	0-255	0-100	SEE RATE TABLE	100%/128
12	FX Size	0-255	0-100%		0

13	FX ColorTemp2	0-255	0-100	2000K to 6000K	0
14	FX +/- Green			SEE GREEN TABLE	50% / 128
15/16	FX Hue 2	0-65,535	0 to 360	0° to 360°	0
17/18	FX Saturation 2	0-65,535	0-100	White Light to RGB	0

FX Profile 17					
<u>CCT & RGB+FX - Extended – 8 Bit</u>					
<u>7 DMX Channels per Pixel + 9 FX Channels</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp	0-255	0-100	2000K to 6000K	0
3	+/- Green			SEE GREEN TABLE	50% / 128
4	Crossfade	0-255	0-100	White Light to RGB	0
5	Red	0-255	0-100		0
6	Green	0-255	0-100		0
7	Blue	0-255	0-100		0
8	FX			SEE FX TABLE	0
9	FX Rate	0-255	0-100	SEE RATE TABLE	100%/128
10	FX Size	0-255	0-100%		0
11	FX ColorTemp2	0-255	0-100	2000K to 6000K	0
12	FX +/- Green2			SEE GREEN TABLE	50% / 128
13	FX Crossfade 2	0-255	0-100	White Light to RGB	0
14	FX Red 2	0-255	0-100		0
15	FX Green 2	0-255	0-100		0
16	FX Blue 2	0-255	0-100		0

FX Profile 18					
<u>CCT & RGB + FX Extended – 16 Bit</u>					
<u>12 DMX Channels per Pixel + 13 FX Channels</u>					
Channel	Function	Value	Percentage	Description	Default % / DMX

1/2	Intensity	0-65.535	0-100		0
3	Color Temp	0-255	0-100	2000K to 6000K	0
4	+/- Green			SEE GREEN TABLE	50% / 128
5/6	Crossfade	0-65.535	0-100	White Light to RGB	0
7/8	Red	0-255	0-100		0
9/10	Green	0-255	0-100		0
11/12	Blue	0-255	0-100		0
13	FX			SEE FX TABLE	0
14	FX Rate	0-255	0-100	SEE RATE TABLE	100%/128
15	FX Size	0-255	0-100		0
16	FX ColorTemp2	0-255	0-100	2000K to 6000K	0
17	FX +/- Green2			SEE GREEN TABLE	50% / 128
18/19	FX Crossfade 2	0-255	0-100	White Light to RGB	0
20/21	FX Red 2	0-255	0-100		0
22/23	FX Green 2	0-255	0-100		0
24/25	FX Blue 2	0-255	0-100		0

+/- Green Table					
Channel	Function	Value	Percentage	Description	Default % / DMX
Channel #	+/- Green			Plus and Minus Green	50% / 128
		0-10	0-4	No Effect	
		11-20	5-8	Full Minus Green	
		21-119	8-46	-99% to -1%	
		120-145	47-57	Neutral	
		146-244	57-96	1% to 99%	
		245-255	96-100	Full Plus Green	

FX Table					
Channel	Function	Value	Percentage	Description	Default % / DMX
Channel #	FX	0 - 27	0 - 10	OFF	
		28 - 39	11 - 15	Rainbow	
		40 - 51	16 - 20	Short Circuit	
		52 - 64	21 - 25	Paparazzi	
		65 - 77	26 - 30	Strobe	
		78 - 90	31 - 35	Fire	
		91 - 102	36 - 40	Emergency Light	
Future					
		103 - 115	41 - 45	TV	
		116 - 128	46 - 50	Bouncer	
		129 - 141	51 - 55	Sprinkles	
		142 - 153	56 - 60	Zoom	
		154 - 166	61 - 65	Science	
		167 - 255	66 - 100	Chase	
				Demo	

FX Rate Table					
Channel	Function	Value	Percentage	Description	Default % / DMX

11	FX Rate	0-255	0-100		100%/128
		0-10	0-4	No Effect	
		11-20	5-8	0%	
		21-119	8-46	1% to 99%	
		120-145	47-57	100% Default	
		146-244	57-96	101% to 199%	
		245-255	96-100	200%	

EMERGENCY LIGHT HUE PRESET TABLE						
Channel	Function	Value	Hue Angle	Percentage	Description	Default % / DMX
x	Hue	0-25	0-35	0-10	Red & Blue	100%/128
		26-50	36-70	11-19	Blue & Blue	
		50-74	71-105	20-29	Red & Orange	
		97-99	106-140	30-39	Red & White (3200)	
		129-159	141-175	40-62	Red & White (5600)	
		125-149	176-210	63-58	Blue & White (3200)	
		150-174	211-245	59-68	Blue & White (5600)	
		174-199	246-280	69-78	Blue & Red & White (3200)	
		199-223	281-315	79-88	Blue & Red & White (5600)	
		224-255	316-360	89-100	No Effect / Future Use	

FX EMERGENCY LIGHT PATTERNS**Profiles 9,10,11,12**

Channel	Function	Value	Percentage	Description	Default % / DMX
X	FX Size	0-255	0-100		0/0
		0-51	0-20	Single	
		27-102	21-40	Single/Off	
		65-153	41-60	Double	
		103-204	61-80	Triple	
		141-255	81-100	Quad	