



DMX Profile

Table of Contents

DMX Configuration	03
DMX Configuration Compatibility Chart.....	04
DMX Loss Behavior	05
DMX Profiles	06
Profile 1: CCT Universal - 8Bit (3CH)	06
Profile 2: CCT - 8Bit (5CH)	07
Profile 3: RGB - 8Bit (5CH)	08
Profile 4: CCT&RGB - 8Bit (9CH)	09
Profile 5: HSI-8Bit (4CH)	10
Profile 6: HSIC+ -8Bit (7CH)	11

DMX Configuration

You can select from six different DMX configuration profiles for the fixture. The available options are listed in the table below.

Profile 1 – CCT Universal – 8Bit (3 Channels): Used when combining different amaran series fixtures without distinction. This profile limits the color temperature range to 2700K–6500K and disables green–magenta adjustment, making it compatible across all series.

Profile 2 – CCT – 8Bit (5 Channels): Used for controlling only the color temperature adjustment function of the fixture. It enables all CCT-related functions, including brightness adjustment, color temperature adjustment, extended CCT range, and green–magenta adjustment.

Profile 3 – RGB – 8Bit (5 Channels): Used for controlling the RGB color output of the fixture.

Profile 4 – CCT & RGB – 8Bit (9 Channels): Used for both color temperature and RGB color control, allowing smooth transitions between white light of different color temperatures and colored light.

Profile 5 – HSI – 8Bit (4 Channels): Used for HSI color control of the fixture.

Profile 6 – HSIC+ – 8Bit (7 Channels): Used for both CCT and HSI color control, allowing smooth transitions between white light of different color temperatures and colored light.

DMX Configuration Compatibility Chart

Product Model	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Profile 6
	CCT Universal -8Bit	CCT-8Bit	RGB-8Bit	CCT&RGB -8Bit	HSI-8Bit	HSIC+ -8Bit
	3 Channels	5 Channels	5 Channels	9 Channels	4 Channels	7 Channels
amaran Ray 360c	✓	✓	✓	✓	✓	✓
amaran Ray 660c	✓	✓	✓	✓	✓	✓

DMX Loss Behavior

Hold Last Settings: holds the last control levels after the DMX signal is lost;

Black Out: black out after the DMX signal is lost;

Fade to Black: fade to black over 60 seconds after the DMX signal is lost;

Hold 2 mins & Fade Out: hold the last control signal for 2 minutes and fade out over 60 seconds after the DMX signal is lost.

DMX Profiles

Profile 1: CCT Universal - 8Bit (3CH)					
Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0-255	0-100	0-100%	0% / 0
2	CCT	0-255	0-100	2700K-6500K	3200K / 34
Control Channels					
3	Strobe	0-255	0-100	Strobe On/Off	Off / 0
		0-13	0-5	Off	0 / 0
		14-128	6-50	Random (1Hz- >25Hz)	
		129-255	51-100	Constant (1Hz- >25Hz)	

Profile 2: CCT - 8Bit (5CH)					
Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0-255	0-100	0-100%	0% / 0
2	CCT	0-255	0-100	CCT+ Off 2300K-10000K	3200K / 30
				CCT+ On 2300K-10000K	3200K / 17
3	±Green	0-255	0-100	-G to 0G to +G	Neutral / 50% / 133
		0-10	0-4	No Effect*	
		11-20	5-8	-100 / Full Minus Green	
		21-119	9-46	-99% - -1%	
		120-145	47-57	0% /Neutral	
		146-244	58-96	1% - 99%	
		245-255	97-100	100% / Full Plus Green	
Control Channels					
8	Strobe	0-255	0-100	Strobe On/Off	Off / 0
		0-13	0-5	Off	0
		14-128	6-50	Random (1Hz- >25Hz)	
		129-255	51-100	Constant (1Hz- >25Hz)	
9	CCT+	0-255	0-100	CCT+ On/Off	Off / 0
		0-127	0-49	CCT+ Off	
		128-255	50-100	CCT+ On	
*Do not patch "No Effect" range into consoles					

Profile 3: RGB - 8Bit (5CH)					
Channel	Function	Value	Percent	Description	Default % / DMX
CCT is Locked at 6500K					
1	Intensity	0-255	0-100	0-100%	0% / 0
2	Red	0-255	0-100		100% / 255
3	Green	0-255	0-100		100% / 255
4	Blue	0-255	0-100		100% / 255
Control Channels					
4	Strobe	0-255	0-100	Strobe On/Off	Off/0
		0-13	0-5	Off	0
		14-128	6-50	Random (1Hz- >25Hz)	
		129-255	51-100	Constant (1Hz- >25Hz)	

Profile 4: CCT&RGB - 8Bit (9CH)					
Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0-255	0-100	0-100%	0% / 0
2	CCT	0-255	0-100	CCT+Off2300K-10000K	3200K / 30
				CCT+On1800K-20000K	3200K / 17
3	±Green	0-255	0-100	-G to 0G to +G	Neutral / 50% / 133
		0-10	0-4	No Effect*	
		11-20	5-8	-100 / Full Minus Green	
		21-119	9-46	-99% - -1%	
		120-145	47-57	0% / Neutral	
		146-244	58-96	1% - 99%	
		245-255	97-100	100% / Full Plus Green	
4	Crossfade	0-255	0-100	White Light to RGB	0% / 0
5	Red	0-255	0-100		100% / 255
6	Green	0-255	0-100		100% / 255
7	Blue	0-255	0-100		100% / 255
Control Channels					
8	Strobe	0-255	0-100	Strobe On/Off	Off/0
		0-13	0-5	Off	0
		14-128	6-50	Random (1Hz- >25Hz)	
		129-255	51-100	Constant (1Hz- >25Hz)	
9	CCT+	0-255	0-100	CCT+ On/Off	Off/0
		0-127	0-49	CCT+ Off	
		128-255	50-100	CCT+ On	
*Do not patch "No Effect" range into consoles					

Profile 5: HSI-8Bit (4CH)					
Channel	Function	Value	Percent	Description	Default % / DMX
CCT is Locked at 6500K					
1	Intensity	0-255	0-100	0-100%	0% / 0
2	Hue	0-255	1-360		0
3	Saturation	0-255	0-100	White Light to RGB	0%
Control Channels					
4	Strobe	0-255	0-100	Strobe On/Off	Off/0
		0-13	0-5	Off	0
		14-128	6-50	Random (1Hz- >25Hz)	
		129-255	51-100	Constant (1Hz- >25Hz)	

Profile 6: HSIC+ -8Bit (7CH)					
Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0-255	0-100	0-100%	0% / 0
2	CCT	0-255	0-100	CCT+Off2300K-10000K	3200K / 30
				CCT+On1800K-20000K	3200K / 17
3	±Green	0-255	0-100	-G to 0G to +G	Neutral / 50% / 133
		0-10	0-4	No Effect*	
		11-20	5-8	-100 / Full Minus Green	
		21-119	9-46	-99% - -1%	
		120-145	47-57	0% / Neutral	
		146-244	58-96	1% - 99%	
		245-255	97-100	100% / Full Plus Green	
4	Hue	0-255	1°-360°		0
5	Saturation	0-255	0-100	White Light to RGB	0%
Control Channels					
8	Strobe	0-255	0-100	Strobe On/Off	Off / 0
		0-13	0-5	Off	0
		14-128	6-50	Random (1Hz- >25Hz)	
		129-255	51-100	Constant (1Hz- >25Hz)	
9	CCT+	0-255	0-100	CCT+ On/Off	Off / 0
		0-127	0-49	CCT+ Off	
		128-255	50-100	CCT+ On	
*Do not patch "No Effect" range into consoles					