

ShowNET Laser Mainboard - Professional Mode DMX Chart

Firmware version: 2021010602

Important information:

The Professional Mode can be switched to a **Setup layer** that allows for setting up safety zones, color balancing and geometric corrections just right from the DMX console - and the settings made can be hard-stored back on to the ShowNET Laser mainboard with DMX! See channel 24 and 25 specifications to understand how to activate the Setup mode.

The Setup-Layer is marked in orange in this chart!

Channel	Value	Function
1 Intensity	0	Laser off
	1 - 255	Increase intensity (full intensity = 255)
2 Pattern Selection	0	Blackout (000.ild must not exist)
	1 - 255	Display patterns from SD card: 1 = 001.ild 2 = 002.ild ... and so on If no pattern is assigned to a number = blackout
3 Pattern Speed (Framerate)	128	Standard speed 50 fps
	0 - 127	Increasing speed from 0 fps to 50 fps
	129 - 255	Increasing speed from 50 fps to 100 fps
4 Position X-Axis Coarse	0 - 255	From left (0) to right (255); center = 128
4 Setup: Position X-Axis	0 - 255	From left (0) to right (255); center = 128
5 Position X-Axis Fine	0 - 255	
6 Position Y-Axis Coarse	0 - 255	From bottom (0) to top (255); center = 128
6 Setup: Position Y-Axis	0 - 255	From bottom (0) to top (255); center = 128
7 Position Y-Axis Fine	0 - 255	
8 Rotation Coarse	0 - 255	Rotate; 0° = 128
8 Setup: Rotation Coarse	0 - 255	Rotate; 0° = 128
9 Rotation Fine	0 - 255	
9 Setup: Rotation Fine	0 - 255	
10 Size X-Axis	0 - 255	From maximum (0) to minimum (255)
10 Setup: Size X-Axis	0 - 255	From maximum (0) to minimum (255)
11 Size Y-Axis	0 - 255	From maximum (0) to minimum (255)
11 Setup: Size Y-Axis	0 - 255	From maximum (0) to minimum (255)
12 Inversion	0 - 63	None
	64 - 127	Invert X-axis
	128 - 191	Invert Y-axis
	192 - 255	Invert X + Y-axis
12 Setup: Inversion	0 - 63	None
	64 - 127	Invert X-axis
	128 - 191	Invert Y-axis
	192 - 255	Invert X + Y-axis
13 Color Selection	0 - 15	Original pattern colors
	16 - 207	Color selection from red (16) through yellow (48), green (80), cyan (112) and blue (144) up to purple (176) with color mixtures in between.
	208 - 223	White with half intensity for each color channel
	224 - 239	White with full intensity for each color channel
	240 - 255	Enables channels 14 -16 to select a specific hue
14 Red	0 - 255	Increase intensity red; Only active if the value of channel 13 is 240 - 255
15 Green	0 - 255	Increase intensity green; Only active if the value of channel 13 is 240 - 255
16 Blue	0 - 255	Increase intensity blue; Only active if the value of channel 13 is 240 - 255
17 Strobe	0 - 15	None
	16 - 255	Increasing strobe effect
18 Scan Speed	0 - 15	Default
	16 - 255	Increasing scan speed (from 5 kpps to 40 kpps)
19 Safety zone size	0 - 63	Size of horizontal safety zone; Safety zone is the bottom part
	64 - 127	Size of horizontal safety zone; Safety zone is the upper part
	128 - 191	Size of vertical safety zone; Safety zone is the left part
	192 - 255	Size of the vertical safety zone; Safety zone is the right part
19 Setup: Safety zone size	0 - 63	Size of horizontal safety zone; Safety zone is the bottom part
	64 - 127	Size of horizontal safety zone; Safety zone is the upper part

	128 - 191	Size of vertical safety zone; Safety zone is the left part
	192 - 255	Size of the vertical safety zone; Safety zone is the right part
20 Safety Zone Intensity	0 - 255	From max intensity (0) to no intensity (255)
20 Setup: Safety Zone Intensity	0 - 255	From max intensity (0) to no intensity (255)
21 Color Balancing Red (for white balance)	0 - 255	From max intensity (0) to no intensity (255); Master to channel 14!
21 Setup: Color Balancing Red	0 - 255	From max intensity (0) to no intensity (255)
22 Color Balancing Green (for white balance)	0 - 255	From max intensity (0) to no intensity (255); Master to channel 15!
22 Setup: Color Balancing Green	0 - 255	From max intensity (0) to no intensity (255)
23 Color Balancing Blue (for white balance)	0 - 255	From max intensity (0) to no intensity (255); Master to channel 16!
23 Setup: Color Balancing Blue	0 - 255	From max intensity (0) to no intensity (255)
24 Setup: Mode Select	134 - 135	Setup Mode (only in combination with channel 25)
	204 - 205	Save Settings (only in combination with channel 25)
	211 - 212	Reset Settings (only in combination with channel 25)
	0 - 133	Show Mode
	136 - 203	
	206 - 210	
25 Setup: Mode Select	213 - 255	
	94 - 95	Setup Mode (only in combination with channel 24)
	168 - 169	Save Settings (only in combination with channel 24)
	32 - 33	Reset Settings (only in combination with channel 24)
	0 - 31	Show Mode
	34 - 93	
26 Setup: Geo Correction Trapezoid X-Axis	96 - 167	
	170 - 255	
27 Setup: Geo Correction Trapezoid Y-Axis	0 - 255	
28 Setup: Geo Correction Barrel Distortion X-Axis	0 - 255	
29 Setup: Geo Correction Barrel Distortion Y-Axis	0 - 255	

IMPORTANT: Channels 30 - 34 are reserved for future features and must not be assigned