Pixelline 110 Version 1.02 firmware Original control panel User Manual



General set up

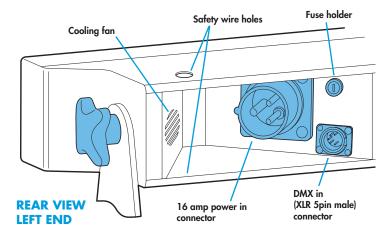
1 Mount the fixture in the required position using the supplied combi yoke or optional floor plate set (p/n: SSFLP).

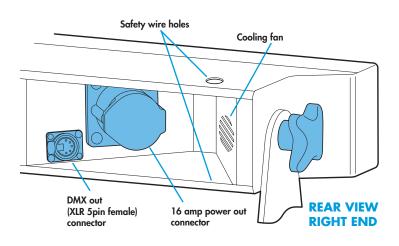
Important

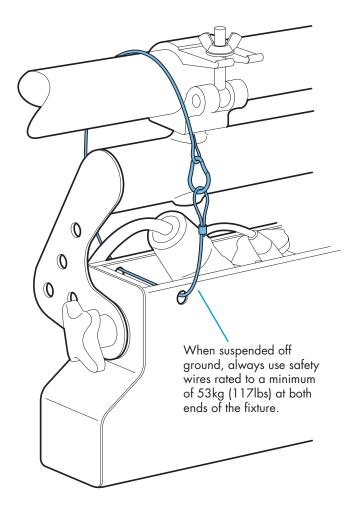
- When suspended off ground, always use safety wires rated to a minimum of 53kg (117lbs) at both ends of the fixture through the safety wire holes.
- Do not position the fixture close to fog machines. The fog
 oil mist will be drawn in by the cooling fans and will short
 out important components. The warranty will be void for all
 fixtures returned in such a condition.
- 2 Connect the power in and DMX in connectors at the left end of the fixture.
- 3 Where multiple fixtures are to be daisy-chained, connect power out and DMX cables at the right end of the fixture.

Important

- When daisy-chaining fixtures, do not exceed a total load of 3kW in a single daisy chain (subject to supply and cabling restrictions). Each PixelLine 110 fixture has a maximum power requirement of 300 watts.
- 4 When all fixtures are connected, apply power.
- **5** Use the control panel to access the internal menu and choose the appropriate operation mode and related settings (see over).
 - To optionally clear all previous settings: At the rear panel, press the middle two buttons (and) while the DMX address is displayed (e.g. ADD 1, ADD2, etc). The four digit display will show FRET then SET to indicate that the fixture has been returned to its default condition.







Operation modes

The PixelLine 110 provides a range of operation modes. These are selected using the MadE section of the control menu:

Allows RGBA control of all cells via DMX input. Using the RE5 (resolution) option you can determine the number of DMX channels required, from 20 channels down to just 3 (the cell sizes and colour permutations are adjusted accordingly). Internal chase effects are not available within this mode.

Provides RGBA colour mixing independently of any external control. Use the internal control menu (MAN) section) to select the required colour values.

Allows the display of the dual internal chase effects, independently of any external control. Use the internal control menu (PRob section) to select the required chase effects, speeds and cross fades.

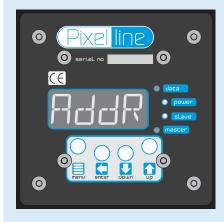
Provides control of RGBA mixing on all 5 cells and selection of the dual internal chase effects via DMX input. Requires 27 DMX channels.

Provides control of RGBA mixing (the whole fixture acts as a single cell) and selection of the dual internal chase effects via DMX input. Requires 11 DMX channels.

PixelLine 110 personalities are available for a variety of controllers. Please see **www.pixelrange.com** for details.

General notes

- Ensure that only one DMX device in the chain is set as master (e.g. the lighting desk). The fixture is usually set to slave mode
- The fixture is shipped with the DMX address set to **III** 1.
- If the fixture is used as a master, DMX transmission will only occur when the DMX address is displayed (e.g. PDD 1, PDD2, etc).
- The four digit display can be set to fade out after 60 seconds, press
 to resume. To alter this mode: PERS > dISP.



Using the control menu

- When not in the menu, the four digit display shows the current DMX address e.g. FDD 1
- Use \(\mathbb{Q}\) and \(\mathbb{\lambda}\) to move between menu options (or to change a value within an option).
- Press to enter an option (or to fix a changed value within an option and return to the previous option level).
 Note: If you do not press to fix a value, operation will revert to the previously set mode at the next power on.
- Press 🗎 to exit from a menu option (and eventually exit the menu completely).

Chase effects

This section describes each of the 31 internal chase effects that are selectable either via the control menu (PRaB > E 1/E2 > EFEE) or using DMX values sent from an external source. To use the internal effects, set the MadE option either to EF M (to control effects via the menu) or 4+E or 2D+E (to control effects externally via DMX).

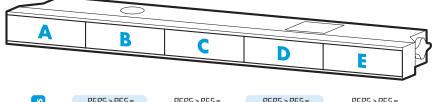
DMX EFEC Chase effect description value value

value	valu	e .
0-7		Off
8-15	1	Rainbow chase forward
16-23	02	Rainbow chase reverse
24-31	83	White single cell chase forward
32-39	۵H	White single cell chase reverse
40-47	85	Double bouncing cells - centre to edge
48-55	88	50/50 duty cycle strobe white
56-63	07	50/50 duty cycle strobe red
64-71	88	50/50 duty cycle strobe blue
72-79	89	50/50 duty cycle strobe yellow
80-87	10	50/50 duty cycle strobe green
88-95	11	Pulse strobe white
96-103	12	Pulse strobe blue
104-111	13	Pulse strobe rainbow
112-119	14	Pulse strobe red/green/blue
120-127	15	Primary/secondary chase
128-135	15	Rainbow chase
136-143	17	Yellow/blue chase
144-151	18	Red/green/blue wipe
152-159	19	Yellow/blue alternate cell chase
160-167	20	Red/blue alternate cell chase
168-1 <i>75</i>	21	Red/green chase
176-183	22	Red wipe
184-191	23	Green wipe
192-199	24	Blue wipe
200-207	25	Static orange
208-215	26	Static yellow
216-223	27	Static light blue
224-231	28	Static purple
232-239		Static red
240-247		Static green
248-255	31	Static blue

DMX channel and cell layouts

This section shows the different ways, when using df1% mode, that the 5 cells can be mapped to varying numbers of DMX channels using the PERS > RES option.

The first channel of the fixture occurs at the DMX address selected using RddR and successive channels for the fixture follow from there.



Cells	F	295:	> RE <u>9</u>			PERS>RES= 15CH			PER5>RE5=				PERS>RES=				
	R	G	В	A	R	+A	G	В		R	G	В	A	ı	R+A	G	В
A	1	2	3	4		1	2	3		1							
В	5	6	7	8		4	5	6									
C	9	10	11	12		7	8	9		-1	2	3	4		- 1	2	3
D	13	14	15	16	1	0	11	12									
E	17	18	19	20	1	3	14	15									
Master intensity*	21				1	6				5					4		

(* Mode dM% only, when PERS > MINT is set to aN)

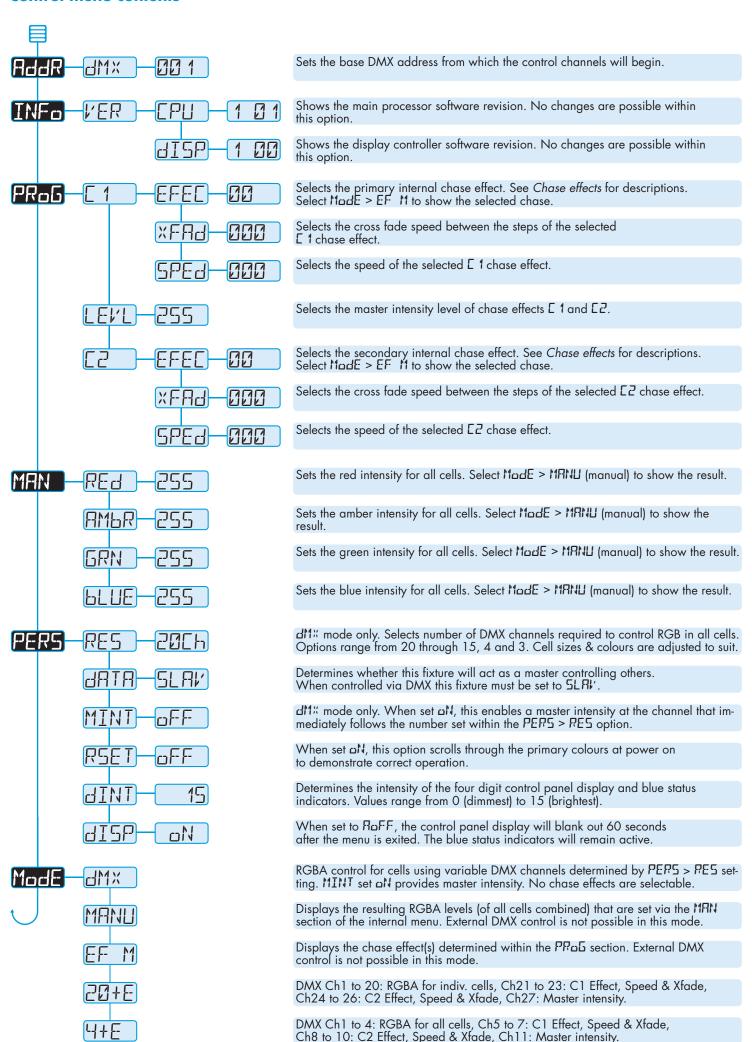
Mode 20+E uses the same RGBA mapping as the 20Eh layout and mode 4+E uses the same RGBA mapping as the 4Eh layout, however, the master intensity channels for these modes are different. The 20+E and 4+E modes also use additional channels for control of internal chase effects (see below).

Chase effects and master intensity channel layouts

The table below shows how the chase effects and master intensity controls are mapped to DMX channels for the 20+E and 4+E modes. Mode 411% does not use chase effects. The first channel of the fixture occurs at the DMX address selected using RddR and successive channels for the fixture follow from there.

Control	20+E	4+6
E 1 Effect	Ch21	Ch5
E 1 Speed	Ch22	Ch6
E 1 Xfade	Ch23	Ch7
C2 Effect	Ch24	Ch8
E2 Speed	Ch25	Ch9
E2 Xfade	Ch26	Ch10
Master intensity	Ch27	Ch11

Control menu contents



Using master mode to drive other units

This unit can control any number of other Pixel Range fixtures via DMX links, without the need for a control desk.

- Set this unit as master (PERS > dRTR > MRST) and ensure all others are set to slave (PERS > dRTR > 5LRI'). Connect all fixtures via DMX daisy-chain.
- 2 Set each slave to MadE > dMx.
- Set each slave DMX address (using RddR > dMX) according to the following:

18 cells are output in groups of 3 DMX channels to give RGB values per cell (54 channels in total). Set the address of each slave fixture according to which of the 18 cells you want them to appear within, or to begin with (for multi-cell fixtures): (ADD 1 for cell 1, ADD 4 for cell 2, ... RD52 for cell 18). Set RGBA slave fixtures to 3 channel mode (using PERS > RES > 3Eh).

Set the master to MadE > EF M (the master unit's DMX address is ignored). On the master, choose the required effects to display and send to the slave fixtures using PRaB > E 1 and E2.

Troubleshooting

Fixture remains at blackout when illumination expected

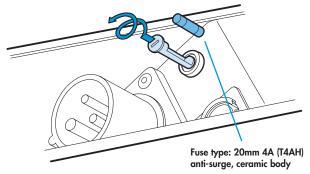
- The power indicator should be lit if not, check the input power and fuse (see below).
- If live DMX is connected, the occion indicator should be lit - if not, check the DMX cable and the desk output.
- Check that the selected MadE matches the desk personality being used.
- The master intensity channel for the current mode may be set at zero. For dill mode, check the setting of PEPS > MINT.
- Ensure that only one DMX device in the chain is set as
- Standalone chase effects: Effects programmed using PRDG > C 1 and C2 but the fixture is not in MDdE >EF 11 mode. Check also that PRo5 > LEV'L is not
- Standalone RGB mixing: Colour values set within MAN section but the fixture is not in MadE > MANU mode.

Unexpected cell illumination occurring

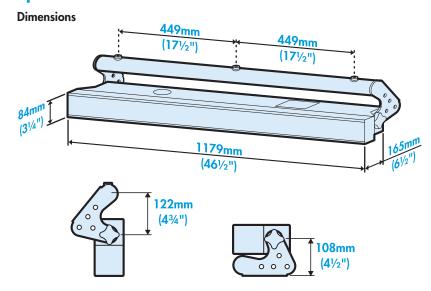
When using dit mode: Check the setting of PER5 > RES. See the section "DMX channel and cell layouts" on page 2 for an explanation of the various resolution modes.

Fuse access

The single fuse is located next to the power and DMX input connectors. Use a small flat blade screw driver to twist the fuse holder anticlockwise until the carrier can be extracted to reveal the fuse.



Specifications



Weight

Fixture alone: 10.5kg (23 lbs) 11.7kg (25.8 lbs) With combi yoke:

90 to 264V AC, 47 to 63Hz autosensing Input voltage:

Earth leakage 1.61mA

Connectors: 16 amp CEE Form 2Pole+Earth (input & output)

Power requirements: @ 230V/50Hz @ 115V/60Hz

20 watts 20 watts Standby Maximum (const.) 300 watts 300 watts Start up (peak*) 128 amps 64 amps

> * The peak value occurs only at first power up and lasts only for a period measured in microseconds. Adjustments may need to be made to supply circuit breakers when multiple fixtures are daisy-chained, causing them all to draw the peak simultaneously.

Approvals

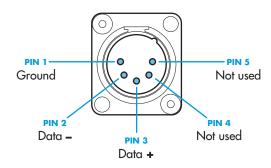
CE

Miscellaneous

Enclosure rating:

IP20 (not protected against moisture ingress) Control input:

USITT DMX512 (input connector pin out below)



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