# PixelLine 1044 Version 1.07 firmwase Original control panel User Manual

## General set up

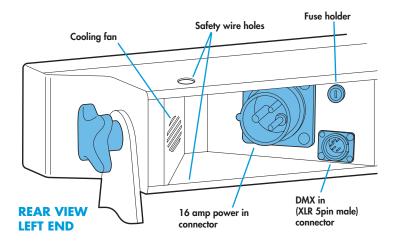
1 Mount the fixture in the required position using the supplied combi yoke or optional floor plate set (p/n: SSFLP).

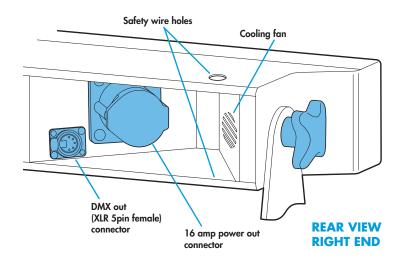
#### Important

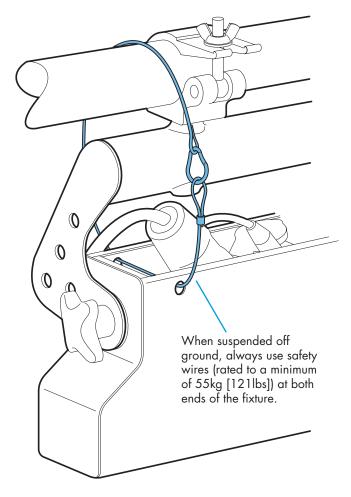
- When suspended off ground, always use safety wires rated to a minimum of 55kg (121lbs) at both ends of the fixture through the safety wire holes.
- Do not position the fixture close to fog machines. The fog
  oil mist will be drawn in by the cooling fans and will short
  out important components. The warranty will be void for all
  fixtures returned in such a condition.
- 2 Connect the power in and DMX in leads at the left end of the fixture.
- 3 Where multiple fixtures are to be daisy-chained, connect power out and DMX leads 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 1044 fixture has a maximum power requirement of 140 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).







# **Operation modes**

The PixelLine 1044 provides a range of operation modes. These are selected using the MadE section of the control menu:

Allows RGB control of all cells via DMX input. Using the RE5 (resolution) option you can determine the number of DMX channels required, from 54 channels down to just 3 (the cell sizes are adjusted accordingly). Internal chase effects are not available within this mode.

Provides control of RGB mixing on all 18 cells and selection of the dual internal chase effects via DMX input. Requires 61 DMX channels.

Provides control of RGB mixing (the whole fixture acts as a single cell) and selection of the dual internal chase effects via DMX input. Requires 10 DMX channels.

Provides RGB 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.

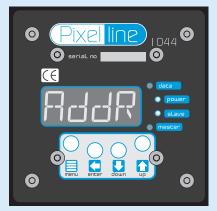
Superseded by (and operates in a similar manner to)
MF:2. RGB mixing and chase effects cannot be used at
the same time. Requires 10 DMX channels.

E :: 5 1 Superseded by (and operates in a similar manner to)
11A:: 1. RGB mixing and chase effects cannot be used at the same time. Requires 62 DMX channels.

PixelLine 1044 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 Colore
- If the fixture is used as a master, DMX transmission will only occur when the DMX address is displayed (e.g. ADD 1, ADD2, etc).
- The four digit display can be set to fade out after 60 seconds, press to resume. To alter this mode: PERS > dISP.



Cc

Da Db 25 26 27

28 29 30

31 32 33

13 14 15

# Using the control menu

- · When not in the menu, the four digit display shows the current DMX address e.g. PDD 1
- Press to enter the menu. The four digit display will show RddR.
- Use 🛂 and 🚹 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 et 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 (PRoG > 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 EF d, EXE 1, MRX 1 or MRX2 (to control effects externally via DMX).

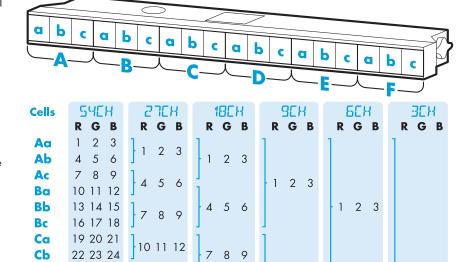
### **DMX EFEC Chase effect description**

value	value				
0-7		Off			
8-15	<b>1</b>	Rainbow chase forward - 6 cell split			
16-23	02	Rainbow chase reverse - 6 cell split			
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	8	50/50 duty cycle strobe white			
56-63	07	50/50 duty cycle strobe red			
64-71	8	50/50 duty cycle strobe blue			
72-79	8	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	Rainbow chase - 2 cell split			
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			
1 <i>7</i> 6-183	22	Rainbow chase - 6 cell split			
184-191	23	Rainbow chase - 3 cell split			
192-199	24	Red/green/blue chase - 3 cell split			
200-207	25	Static orange			
208-215	26	Static yellow			
216-223	27	Static light blue			
224-231	28	Static purple			
232-239	29	Static red			
240-247	30	Static green			

## **DMX** channel and cell layouts

This section shows the different ways, when using diff; mode, that the 18 cells can be mapped to varying numbers of DMX channels using the PER5 > RE5 option.

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



16 17 18 34 35 36 Dc Ea 37 38 39 19 20 21 Eb 40 41 42 13 14 15 4 5 43 44 45 Ec 22 23 24 7 8 9 46 47 48 Fa 49 50 51 Fb 16 17 18 25 26 27 52 53 54 Fc Mast int\* 55 10

10 11 12

5

1 2 3

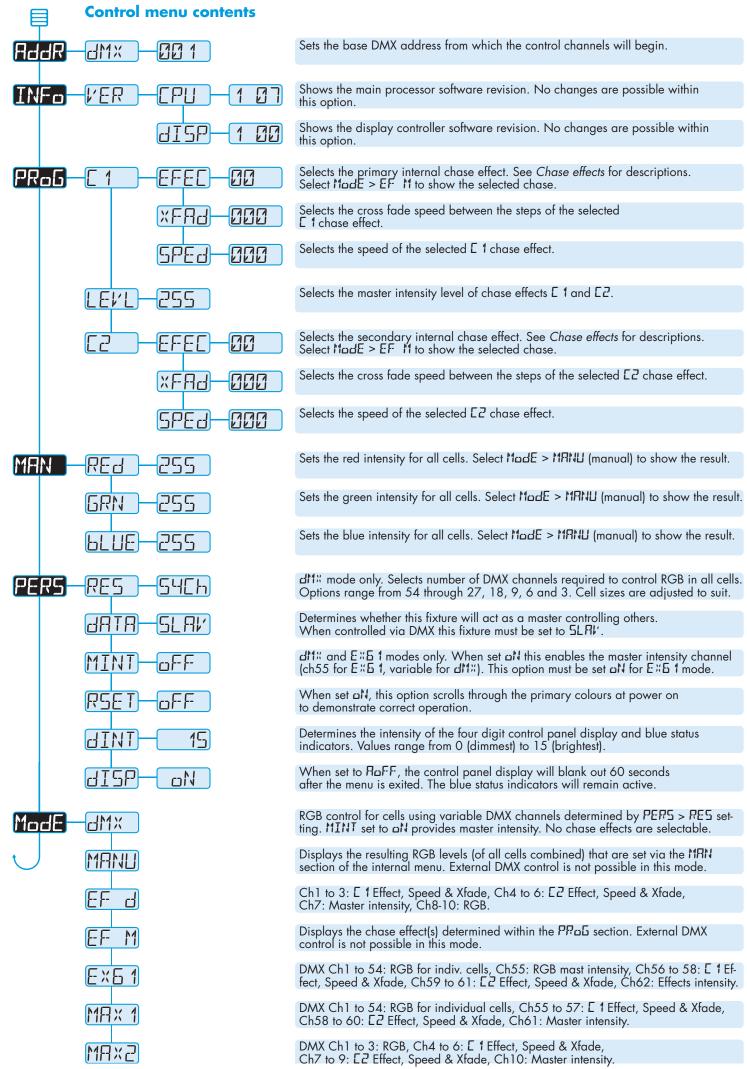
Modes EXE 1 and MRX 1 use a 54 channel layout. Modes MRX2 and EF d use a 3 channel layout (Mode EF d uses channels 8, 9 and 10 for RGB control).

# 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 each mode. Mode dli does not use chase effects. The first channel of the fixture occurs at the DMX address selected using FladF? and successive channels for the fixture follow from there.

Control E 1 Effect E 1 Speed E 1 Xfade E 2 Effect E 2 Speed E 2 Xfade RGB master intensity	MR: 1 Ch55 Ch56 Ch57 Ch58 Ch59 Ch60 None	Ch4 Ch5 Ch6 Ch7 Ch8 Ch9 None	Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 None	E :: 6 1 Ch56 Ch57 Ch58 Ch59 Ch60 Ch61 Ch55
RGB master intensity	None	None	None	Ch55
Effects master intensity	None	None	None	Ch62
Combined master intensity	Ch61	Ch10	Ch7	None

248-255 31 Static blue



# 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.

- 1 Set this unit as **master** (PERS > dRTR > MRST) and ensure all others are set to **slave** (PERS > dRTR > SLRI'). Connect all fixtures via DMX daisy-chain.
- 2 Set each slave to MadE > dMx.
- 3 Set each slave DMX address (using ਸੋਹੇਰੀ? > ਰੀ1ਂ:/) 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, ... ADS 2 for cell 18). Set RGBA slave fixtures to 3 channel mode (using PERS > RES > 3Eh).

4 Set the master to MadE > EF 11 (the master unit's DMX address is ignored). On the master, choose the required effects to display and send to the slave fixtures using PRa5 > E 1 and E2.

# **Troubleshooting**

## Fixture remains at blackout when illumination expected

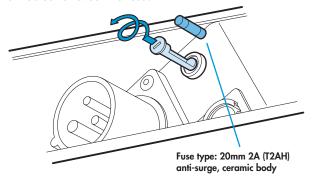
- The **power** indicator should be lit if not, check the input power and fuse (see below).
- If live DMX is connected, the lit if not, check the DMX cable and the desk output.
- Check that the selected MadE matches the desk personality being used.
- The master intensity channel for the current mode may be set at zero. For E " 5 1 and d11" modes, check the setting of PERS > MINT. For E " 5 1 mode, MINT must be set a N.
- Ensure that only one DMX device in the chain is set as master.
- Standalone chase effects: Effects programmed using PRD5 > L 1 and L2 but the fixture is not in MadE > EF M mode. Check also that PRD5 > LEVL is not set at zero.
- Standalone RGB mixing: Colour values set within MAN section but the fixture is not in MadE > MANU mode.

## Unexpected cell illumination occurring

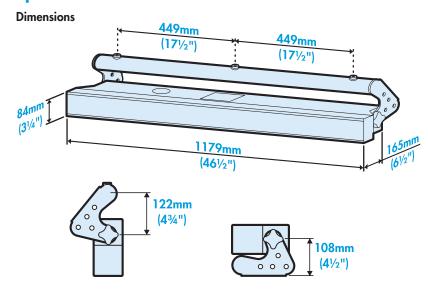
When using dff; mode: Check the setting of PERS > RES. See the section "DMX channel and cell layouts" on page 2 for an explanation of the various resolution modes.

#### **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: 11kg (24 lbs)

With combi yoke: 12.2kg (26.9 lbs)

#### Power

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

Earth leakage 0.22mA

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

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

Standby 20 watts 20 watts

Maximum (const.) 140 watts 140 watts

Start up (peak\*) 32 amps 16 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**





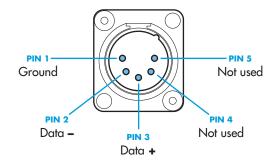
## Miscellaneous

Enclosure rating:

Control input:

IP20 (not protected against moisture ingress)

USITT DMX512 (input connector pin out below)



Documentation by **Corporate Text & Design** (www.ctxd.com) Release 1.07b (original panel)

