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 **Mode** section of the control menu:

- **DMX**
  - Allows RGB control of all cells via DMX input. Using the **RES** (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.

- **MAX1**
  - Provides control of RGB mixing on all 18 cells and selection of the dual internal chase effects via DMX input. Requires 61 DMX channels.

- **MAX2**
  - 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.

- **MANU**
  - Provides RGB colour mixing independently of any external control. Use the internal control menu (**MANU** section) to select the required colour values.

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

- **EF Superseded by (and operates in a similar manner to) **MAX2**. RGB mixing and chase effects cannot be used at the same time. Requires 10 DMX channels.

- **EF Superseded by (and operates in a similar manner to) **MAX1**. 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](http://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). This fixture is usually set to slave mode.
- This fixture is shipped with the DMX address set to 001.
- The four digit display can be set to switch off when not in use. To restore, press Enter. To alter this mode use: PEP5 > DISP.

Chase effects
This section describes each of the 31 internal chase effects that are selectable either via the control menu (PRG5 > C1/C2 > EFEC) or using DMX values sent from an external source. To use the internal effects, set the EffEC option either to EF, 1 (to control effects via the menu) or EF, 1; HR:1 or HR:2 (to control effects externally via DMX).

DMX channel and cell layouts
This section shows the different ways, when using dH:1 mode, that the 18 cells can be mapped to varying numbers of DMX channels using the PEP5 > RES option.

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

Display indications
The right hand decimal point (Data dot) is used to indicate the master/slave settings and also the presence of a DMX input signal:

- When set to master mode, the fixture will scroll MASTER in place of a DMX address (when not within the menu).
- If the display has been set to auto off (UPSP > RAVF), the data dot will remain active but at a lower brightness.

Using the menu
- When not in the menu, the four digit display shows the current DMX address e.g. 1111. Some of the display’s decimal points are used to indicate status (see below).
- Press Enter to enter the menu. The four digit display will show ADDP.
- Use Up and Down to move between menu options (or to change a value within an option).
- Press Enter 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 Enter to fix a value, operation will revert to the previously set mode at the next power on.
- Press Exit to exit from a menu option (and eventually exit the menu completely).

DMX channel and cell layouts
This section shows the different ways, when using dH:1 mode, that the 18 cells can be mapped to varying numbers of DMX channels using the PEP5 > RES option.

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

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 dH:1 does not use chase effects.

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

Display indications
The right hand decimal point (data dot) is used to indicate the master/slave settings and also the presence of a DMX input signal:

- When set to master mode, the fixture will scroll MASTER in place of a DMX address (when not within the menu).
- If the display has been set to auto off (UPSP > RAVF), the data dot will remain active but at a lower brightness.
**Control menu contents**

- **AddR**
  - **dMx**: 00 1
  - Sets the base DMX address from which the control channels will begin.

- **INFa**
  - **VER**: CPU 1 0 7
  - Shows the main processor software revision. No changes are possible within this option.
  
  - **DISP**: 1 0 0
  - Shows the display controller software revision. No changes are possible within this option.

- **PRoG**
  - **C1**: EFE 0 0
  - Selects the primary internal chase effect. See Chase effects for descriptions. Select ModE > EF M to show the selected chase.
  
  - **xFRd**: 0 0 0
  - Selects the cross fade speed between the steps of the selected C1 chase effect.
  
  - **SPEd**: 0 0 0
  - Selects the speed of the selected C1 chase effect.

  - **C2**: EFE 0 0
  - Selects the secondary internal chase effect. See Chase effects for descriptions. Select ModE > EF M to show the selected chase.
  
  - **xFRd**: 0 0 0
  - Selects the cross fade speed between the steps of the selected C2 chase effect.
  
  - **SPEd**: 0 0 0
  - Selects the speed of the selected C2 chase effect.

- **LEVEL**
  - **255**: 255
  - Selects the master intensity level of chase effects C1 and C2.

- **MAN**
  - **RED**: 255
  - Selects the red intensity for all cells. Select ModE > MANU (manual) to show the result.

  - **GRN**: 255
  - Selects the green intensity for all cells. Select ModE > MANU (manual) to show the result.

  - **BLUE**: 255
  - Selects the blue intensity for all cells. Select ModE > MANU (manual) to show the result.

- **PERS**
  - **RES**: S4CH
  - **dATA**: SLAV
  - **MINT**: off
  - **RSET**: off
  - **dINT**: 1 5
  - **DISP**: aN
  - **dmx**: mode only. Selects number of DMX channels required to control RGB in all cells. Options range from 54 through 27, 18, 9, 6 and 3. Cell sizes are adjusted to suit.

- **Mode**
  - **dmx**: MANU
  - **EF d**: C1 Effect, Speed & Xfade,
  - **EF M**: C2 Effect, Speed & Xfade,
  - **EX 6 1**: C1 Effect, Speed & Xfade,
  - **MAX 1**: C2 Effect, Speed & Xfade,
  - **MAX 2**: Effects intensity.

  - **dINT**: when set to ON, this option scrolls through the primary colours at power on to demonstrate correct operation.

  - **dINT**: when set to AOFF, the control panel display will blank out 60 seconds after the menu is exited. The blue status indicators will remain active.

  - **dINT**: when set to AOFF, the control panel display will blank out 60 seconds after the menu is exited. The blue status indicators will remain active.

  - **DISP**: aN
  - **RES**: S4CH
  - **dATA**: SLAV
  - **MINT**: off
  - **RSET**: off
  - **dINT**: 1 5
  - **DISP**: aN

**DMX mode only.** Selects number of DMX channels required to control RGB in all cells. Options range from 54 through 27, 18, 9, 6 and 3. Cell sizes are adjusted to suit.

 Determines whether this fixture will act as a master controlling others.
 When controlled via DMX this fixture must be set to SLAV.

 **dINT**: and E<5 1 modes only. When set aN this enables the master intensity channel (ch55 for E<5 1, variable for dINT). This option must be set aN for E<6 1 mode.

 When set aN, this option scrolls through the primary colours at power on to demonstrate correct operation.

 **dINT**: when set to AOFF, the control panel display will blank out 60 seconds after the menu is exited. The blue status indicators will remain active.

 **dINT**: when set to AOFF, the control panel display will blank out 60 seconds after the menu is exited. The blue status indicators will remain active.

**Displays the resulting RGB levels (of all cells combined) that are set via the MAN section of the internal menu. External DMX control is not possible in this mode.**

**Displays the chase effect(s) determined within the PPrOg section. External DMX control is not possible in this mode.**

**DMX Ch1 to 3: **
- C1 Effect, Speed & Xfade, Ch4 to 6: C2 Effect, Speed & Xfade, Ch7: Master intensity, Ch8-10: RGB.

**Displays the chase effect(s) determined within the PPrOg section. External DMX control is not possible in this mode.**

**DMX Ch1 to 54: **
- RGB for indiv. cells, Ch55: RGB mast intensity, Ch56 to 58: C1 Effect, Speed & Xfade, Ch59 to 61: C2 Effect, Speed & Xfade, Ch62: Effects intensity.

**Displays the chase effect(s) determined within the PPrOg section. External DMX control is not possible in this mode.**

**DMX Ch1 to 54: **
- RGB for individual cells, Ch55 to 57: C1 Effect, Speed & Xfade, Ch58 to 60: C2 Effect, Speed & Xfade, Ch61: Master intensity.
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 (PEPS > dDATA > MAST) and ensure all others are set to slave (PEPS > dDATA > SLAV). Connect all fixtures via DMX daisy-chain.

2. Set each slave to MAdE > dMN:

3. Set each slave DMX address (using AddP > dMN) according to the following:
   - 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 PrAdG > C 1 and C 2.

Troubleshooting
Fixture remains at blackout when illumination expected
- If the display panel is not showing any indication, even after a button press, check the input power and fuse.
- If live DMX is connected, the right hand decimal point on the display should flash - 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 := G 1 and dMN modes, check the setting of PEPS > HINT. For E := G 1 mode, HINT must be set to N.
- Ensure that only one DMX device in the chain is set as master.
- Standalone chase effects: Effects programmed using PrAdG > C 1 and C 2 but the fixture is not in MAdE > EF 11 mode. Check also that PrAdG > LEV-L is not set at zero.
- Standalone RGB mixing: Colour values set within MAdE section but the fixture is not in MAdE > MAdE mode.

Unexpected cell illumination occurring
- When using dMN mode: Check the setting of PEPS > 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 screwdriver to twist the fuse holder anticlockwise until the carrier can be extracted to reveal the fuse.

Specifications
Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>84mm</td>
<td>3 5/8”</td>
<td></td>
</tr>
<tr>
<td>122mm</td>
<td>4 3/4”</td>
<td></td>
</tr>
<tr>
<td>108mm</td>
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<tr>
<td>449mm</td>
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<td></td>
</tr>
<tr>
<td>165mm</td>
<td>6 1/2”</td>
<td></td>
</tr>
</tbody>
</table>

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
- UL
- CE
- Listed

Miscellaneous
- Enclosure rating: IP20 (not protected against moisture ingress)
- Control input: USITT DMX512 (input connector pin out below)

Fuse type: 20mm 2A (T2AH) anti-surge, ceramic body