

Connections

Important

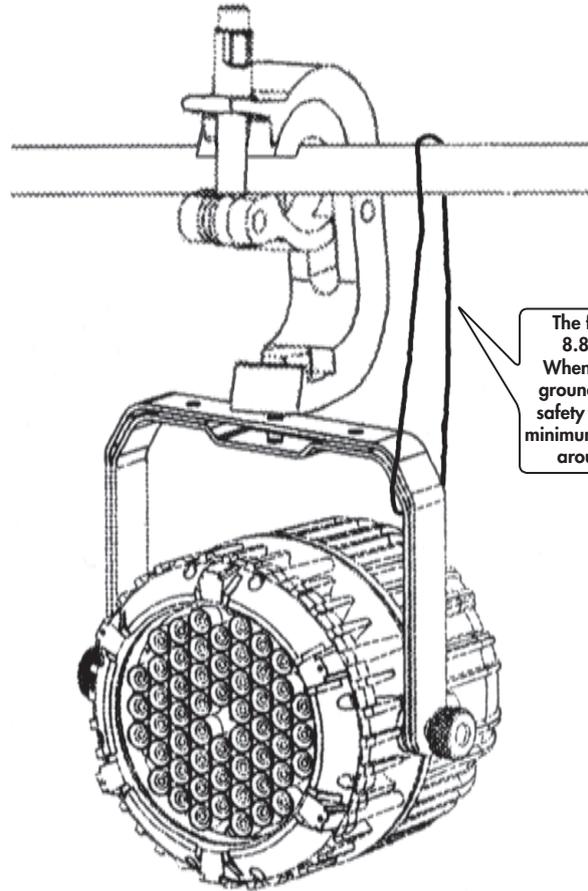
- The fixture weighs 8.8kg (19.4lbs), ensure that the intended suspension points and any hardware used are able to support the weight with suitable safety margins.
- When suspended off ground, always use a safety bond rated to a minimum of 44kg (97lbs) around the yoke.

- 1 Where external control is to be used, connect a DMX lead (XLR 5-pin female) to the male input socket of the fixture (located on one of the trailing leads).
- 2 Where other fixtures are to be used in a control daisy-chain, connect a DMX lead (XLR 5-pin male) to the female output socket of the fixture.
- 3 Connect power to the power input lead. The fixture also includes a power output lead for daisy-chaining purposes.
- 4 Use the control panel to access the internal menu and choose the appropriate operation mode and related settings (see over).

DMX links and termination

This section provides useful advice for gaining reliable operation from your DMX installation:

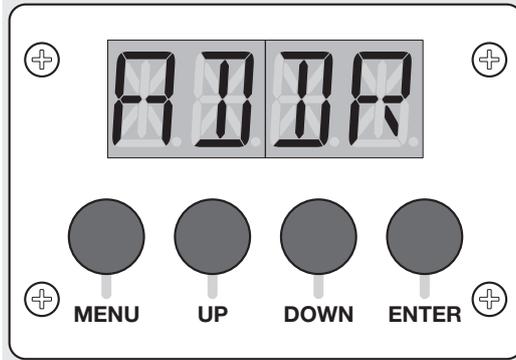
- Use good quality flexible twisted pair cable that has a nominal characteristic impedance of 120 ohms. Microphone cables have a lower impedance and a higher capacitance, which can lead to data errors.
- Use a daisy-chain arrangement to link fixtures together, so that the output of one fixture is connected to the input of the next.
- Connect no more than 32 devices to a single DMX run. If further fixtures are needed, then use a DMX booster to allow up to 32 more fixtures to be attached.
- Never split a DMX cable to form two branches (a Y-split). If separate branches are required, use a powered DMX splitter.
- Ensure that the devices at each end of the daisy-chain are both terminated using a 120 ohm resistor (usually contained within a separate XLR connector that has no cable - the resistor forms a link between pins 2 and 3). Control desks are often internally terminated.



The fixture weighs 8.8kg (19.4lbs). When suspended off ground, always use a safety bond rated to a minimum of 44kg (97lbs) around the yoke.

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.
- The four digit display can be set to switch off when not in use. To restore, press the MENU button. To alter this mode use: PERS > DISP.



Using the menu

- When not in the menu, the four digit display will (depending on settings) either show current DMX address, a mode name or will be blank.
- Press the MENU button to enter the menu. The four digit display will show ADDR.
- Use the UP and DOWN buttons to move between menu options (or to change a value within an option).
- Press the ENTER button to enter an option or to fix a changed value within an option. *Note: If you do not press ENTER to fix a value, operation will revert to the previously set mode.*
- The menu will exit roughly 18 seconds after the last button press.

Channel layouts within DMX mode

The table below shows how the various control functions are mapped to DMX channels when the fixture is set to MODE > DMX. To change the number of control channels, use PERS > CHAN to select either: 6CH or 7CH, as appropriate. In all cases, the first channel of the fixture occurs at the DMX address selected using ADDR and successive channels for the fixture follow from there.

Channel	6 CH	7CH
1	Red	Red
2	Green	Green
3	Blue	Blue
4	White	White
5	Dimmer	Macro*
6	Strobe	Dimmer
7	-	Strobe

* The Macro input (7CH mode only) allows you to select any of the internally programmed colour chase mixes using DMX input values.

Operation modes

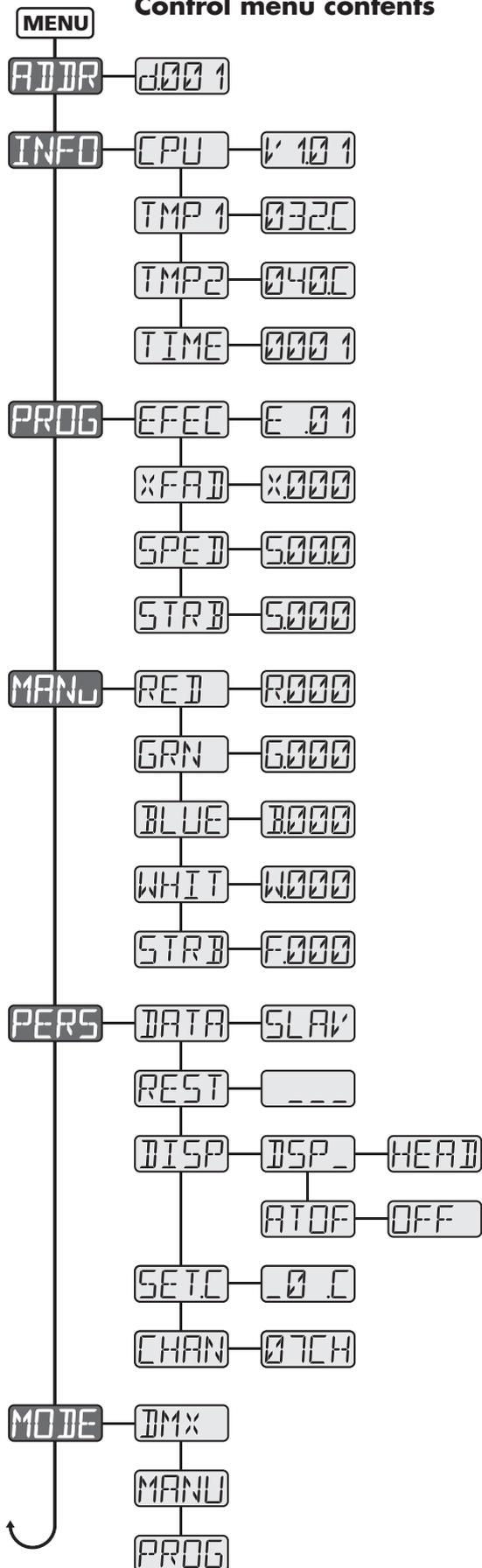
The Pix60 provides three operation modes. These are selected using the MODE section of the control menu:

DMX Allows RGBW colour mixing and strobe control via DMX input. Internal chase effects are selectable using the Macro input (only in PERS > CHAN = 07 mode).

MANU Provides RGBW colour mixing and strobe independently of any external control. Use the internal control menu (MANU section) to select the required colour and strobe settings.

PROG Allows the display of internally programmed colour and strobe mixes, independently of any external control. Use the internal control menu (PROG section) to select the required chase effect, speed, cross fade and strobe.

Control menu contents



Sets the base DMX address from which the control channels will begin.

Shows the main processor software revision. No changes are possible within this option.

Shows the current temperature of the emitter heatsink circuit board. No changes are possible within this option.

Shows the current temperature of the emitter power driver circuit board. No changes are possible within this option.

Shows the overall run time of the unit in hours. No changes are possible within this option.

Select an internal chase mode, from E.01 to E.09. See *Chase effects* for descriptions. Select MODE > MANU to play the selected chase.

Selects the cross fade speed between the steps of the selected chase effect, from X.000 (slowest) to X.255 (fastest).

Selects the speed of the selected chase effect, from S.000 (slowest) to S.255 (fastest).

Selects the strobe speed for the selected chase effect, from S.002 (slowest) to S.249 (fastest).

Sets the red intensity. Select MODE > MANU (manual) to show the result.

Sets the green intensity. Select MODE > MANU (manual) to show the result.

Sets the blue intensity. Select MODE > MANU (manual) to show the result.

Sets the white intensity. Select MODE > MANU (manual) to show the result.

Sets the strobe speed. Select MODE > MANU (manual) to show the result.

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

Reset to factory default settings. Press the ENTER button to initiate the reset.

Allows you to invert the display characters. Select HEAD for normal orientation or REVE for inverted (reversed) orientation.

When set to OFF, the control panel display will blank out roughly 18 seconds after the last button is pressed. When set to ON, the display will not blank out.

Allows you to reduce the temperature at which current protection begins to be applied by the fixture. Select -0 to -6 to subtract from the 90°C normal starting level.

Selects the number of channels to use in DMX mode: 6 or 7. See right for details about channel functions within the different modes.

Selects DMX mode for use with an external DMX control input. The channel functions depend upon the setting of PERS > CHAN.

Displays the RGBW and Strobe levels that are set via the MANU section of the internal menu. External DMX control is not possible in this mode.

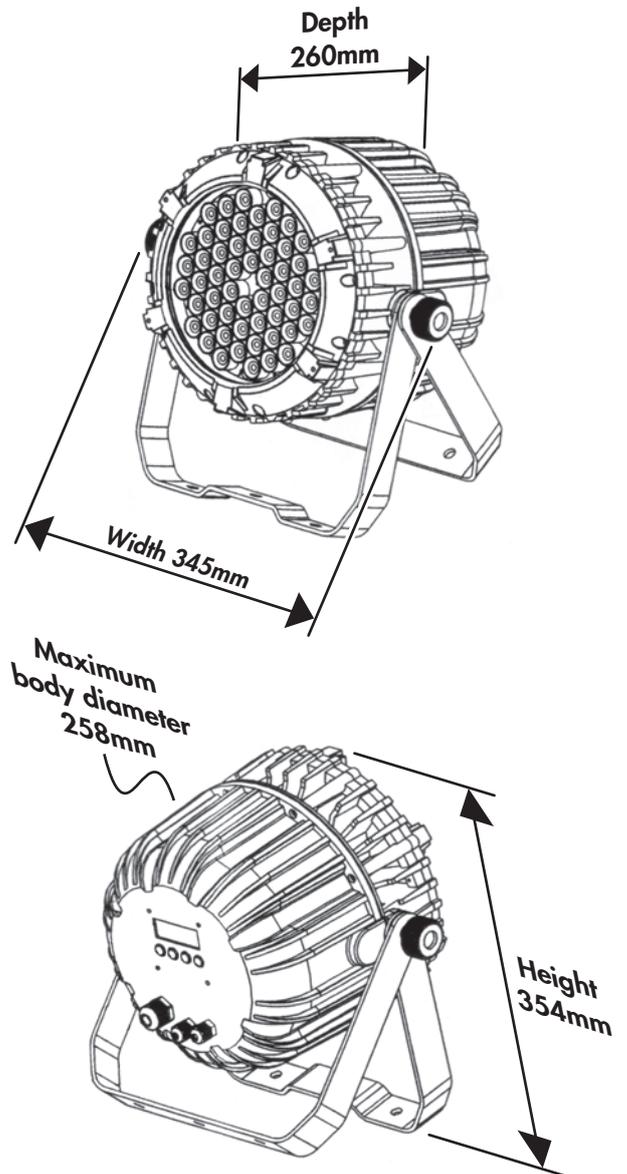
Displays the chase effects that are set via the PROG section of the internal menu.

Troubleshooting

- **Display panel is blank:** Press a control panel button, if the display still does not show, check the input power.
- **No response during DMX control:** Ensure that, in addition to R, G, B and/or W values being present on channels 1 to 4, the Dimmer input value is set above 003. The Dimmer is located on channel 5 for PERS>CHAN = 6CH and on channel 6 for PERS>CHAN = 7CH.
- **Erratic operation during DMX control:** Check that the final fixture within the DMX daisy chain is correctly terminated with a 120 ohm terminator plug (within the terminator plug, the 120 ohm resistor must be linked between pins 2 and 3).
- **Erratic operation during DMX control:** Check that the correct personality for the fixture is being used on the control desk.
- **Erratic operation during DMX control:** Ensure that only one DMX device in the daisy chain is set as master.
- **Standalone RGB mixing not working:** Check that one or more colour values have been set within the MANU section and also that the MODE > MANU is selected.

Specifications

Dimensions



Weight

Fixture: 8.8Kg (19.4 lbs)

Power

Input voltage: 90 to 250V AC, 47 to 63Hz autosensing
Connectors: Supplied with cable only: live, neutral & earth
Maximum power: 194W

Miscellaneous

Enclosure rating: IP65 (protected against dust and moisture ingress, not submersible)
Control input: USITT DMX512 (5pin)