DM-X4

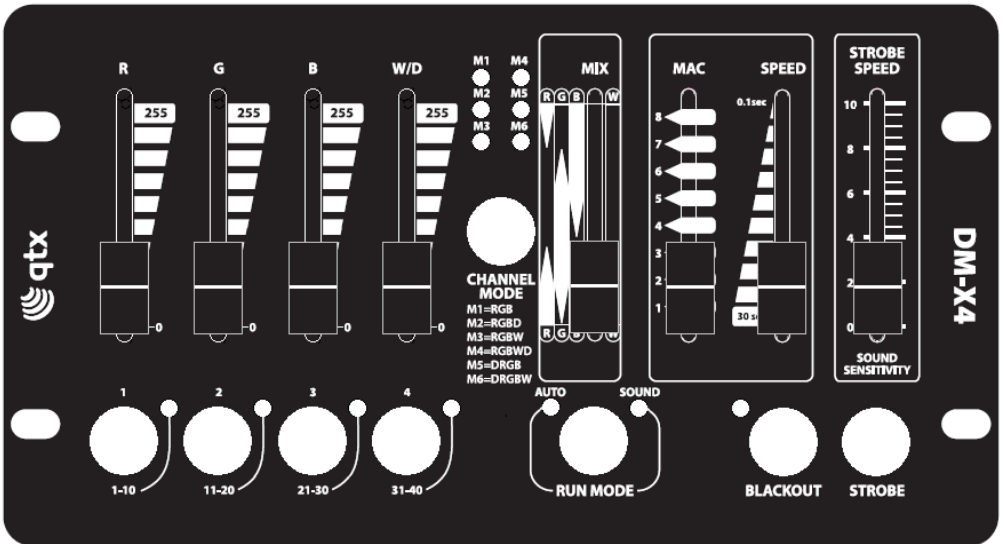## Mini DMX PAR Controller

Item ref: 154.096UK

User Manual

Introduction

Thank you for choosing the DM-X4 mini DMX PAR controller as part of your lighting control system.
This unit is designed to control DMX PAR fixtures with RGB or RGBW colour mixing.
Please read these instructions to gain the best results from this item and avoid damage through misuse.

Unpacking

Your DM-X4 should reach you in good condition and should be supplied with an appropriate mains adaptor.
If there are any signs of damage or items missing from the packaging, contact your dealer immediately.

Warning

To prevent risk of fire or electric shock, do not expose any components to rain or moisture.
Avoid any impact or extreme pressure to the housing or control surface.
No user serviceable parts inside - do not open the case. Refer all servicing to qualified service personnel.

Placement

The DM-X4 may be free standing on a stable surface or wall mounted by either hanging on screws with the rear punch-holes or flush-mounting with the 4 front mounting holes.
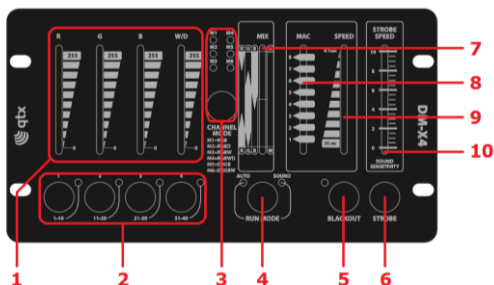
Safety

- Check for correct mains voltage before connecting the D.C. adaptor
- Ensure DMX leads are good condition with no short connections or damaged plugs

Cleaning

- Use a soft dry or slightly damp cloth to clean the casing. Do not use strong solvents
- Periodically clear any debris from fader slots with a soft brush

Panel Layouts

1. RGBW channel faders
2. Group buttons
3. Channel Mode button & indicators
4. Run Mode button
5. Blackout button
6. Strobe button
7. Mix fader
8. MAC slider
9. Speed control
10. Strobe Speed/Sound Sensitivity slider
11. DMX out XLR
12. D.C. input jack
13. Power switch

Setting up

Connect all PAR lights to be controlled in a chain from DMX outputs to DMX using a good quality DMX leads (XLRF-XLRM) and connect the DMX OUT connector (11) on the DM-X4 to the DMX input of the first PAR light in the chain. Various DMX PAR lights may have different channel allocations and the DM-X4 can be set to one of 6 modes to control these. The chart below shows the 6 modes with channel fader allocations.

Mode	F1	F2	F3	F4	For cans with type of DMX allocation
RGB	Red	Green	Blue	-	RGB cans
RGBD	Red	Green	Blue	Master	RGB cans with CH4 as Master Dimmer
RGBW	Red	Green	Blue	White	RGBW cans
RGBWD	Red	Green	Blue	Master	RGBW cans with CH5 as Master Dimmer
DRGB	Master	Red	Green	Blue	RGB cans with CH1 as Master Dimmer
DRGBW	Master	Red	Green	Blue	RGBW cans with CH1 as Master Dimmer

Note: for RGBW lights in 5-channel modes, Master dimmer and White are combined to a single fader.

Select the correct mode to match the type of PAR lights to be controlled. The above table gives examples of channel allocation when they are set to start address A001. Remember that there may be a choice of modes on each type of PAR light and it is best to set all cans to a similar DMX mode. Selecting a mode that does not match the DMX allocation of the fixture(s) may give unexpected and confusing results.

In addition, the DM-X4 can control 4 groups of lighting fixtures separately via the four Group buttons (2). Each group of PAR lights should be set with the relevant start address as shown below.

Group	DMX start address
1	1
2	11
3	21
4	31

Pressing the "1-10" Group button, engages Group 1
Pressing the "11-20" Group button, engages Group 2
Pressing the "21-30" Group button, engages Group 3
Pressing the "31-40" Group button, engages Group 4
Multiple groups can be selected together to control simultaneously

Groups that are selected are indicated by a blue flashing LED and any controls from the DM-X4 will affect the group(s) selected. This feature makes a multi-zone light show possible with selected groups operating from auto programs or sound-activated (see below) and others with manual control or static colour.

Operation

Connect the supplied mains adaptor to the DC input of the DM-X4 (12) and switch the power on (13)
For the selected group(s), moving the channel faders controls the amount of red, green, blue, and white light output of DMX PAR fixtures. When mixing RGB and RGBW fixtures together within a group, it is advised to set the DM-X4 to RGB mode so that each fixture produces the same shade.

In addition to the 4 channel faders, the DM-X4 has a MIX fader (7) which allows fast access to colour mixes in a single movement.

For strobe effects, pressing the strobe button will perform a white (RGB mix) flashing sequence with speed governed by the Strobe Speed/Sound Sensitivity slider (10). Releasing the button reverts lights back to the previous state.

Colour changing sequences are available by selecting "AUTO" on the Run Mode button (4) and moving the MAC slider (8) to one of the 8 internal programs (MAC1 – MAC8 shown below). The speed of the selected program is governed by the Speed Control slider (9) with step intervals from 0.1sec to 30sec.

MAC 1	Red / Green / Yellow scroll
MAC 2	Red / Blue / Purple scroll
MAC 3	Blue / Green scroll
MAC 4	Red / Green / Blue / White scroll
MAC 5	Red / Green jump
MAC 6	Red / Blue jump
MAC 7	Blue / Green jump
MAC 8	Red / Green / Blue / White jump

Alternatively, selecting "SOUND" on the Run Mode button will engage sound-activated mode, which makes colour jumps to a music beat detected by the internal microphone. The sensitivity of the internal microphone is controlled via the Strobe Speed/Sound Sensitivity slider (10).

To switch of all lights, a latching Blackout button (5) sets all DMX channels to zero value, indicated by a flashing LED.

When not in use for long periods, switch off power and disconnect the adaptor from the mains.

Specifications

Power supply	9-12Vdc, 300mA adaptor (supplied)
Controls	R, G, B, W/D, mix, MAC, speed, strobe/sensitivity
Mode(s)	RGB, RGBD, RGBW, RGBWD, DRGB, DRGBW
Output	DMX (XLRF)
Dimensions	200 x 109 x 55mm
Weight	780g

Troubleshooting

No power	Check mains voltage is correct and outlet is switched on
	Check mains adaptor is OK and connected properly
No DMX control	Check DMX leads are OK and connected correctly
	Check correct group button is selected (flashing LED)
	Check that light fixture is set to the correct DMX start address
DMX control not working as expected	Check that the correct mode is selected for the type of fixture
	Check that light fixture is set to the correct DMX mode
	Check that light fixture is set to the correct DMX start address

Errors and omissions excepted.