ETHERMASTER

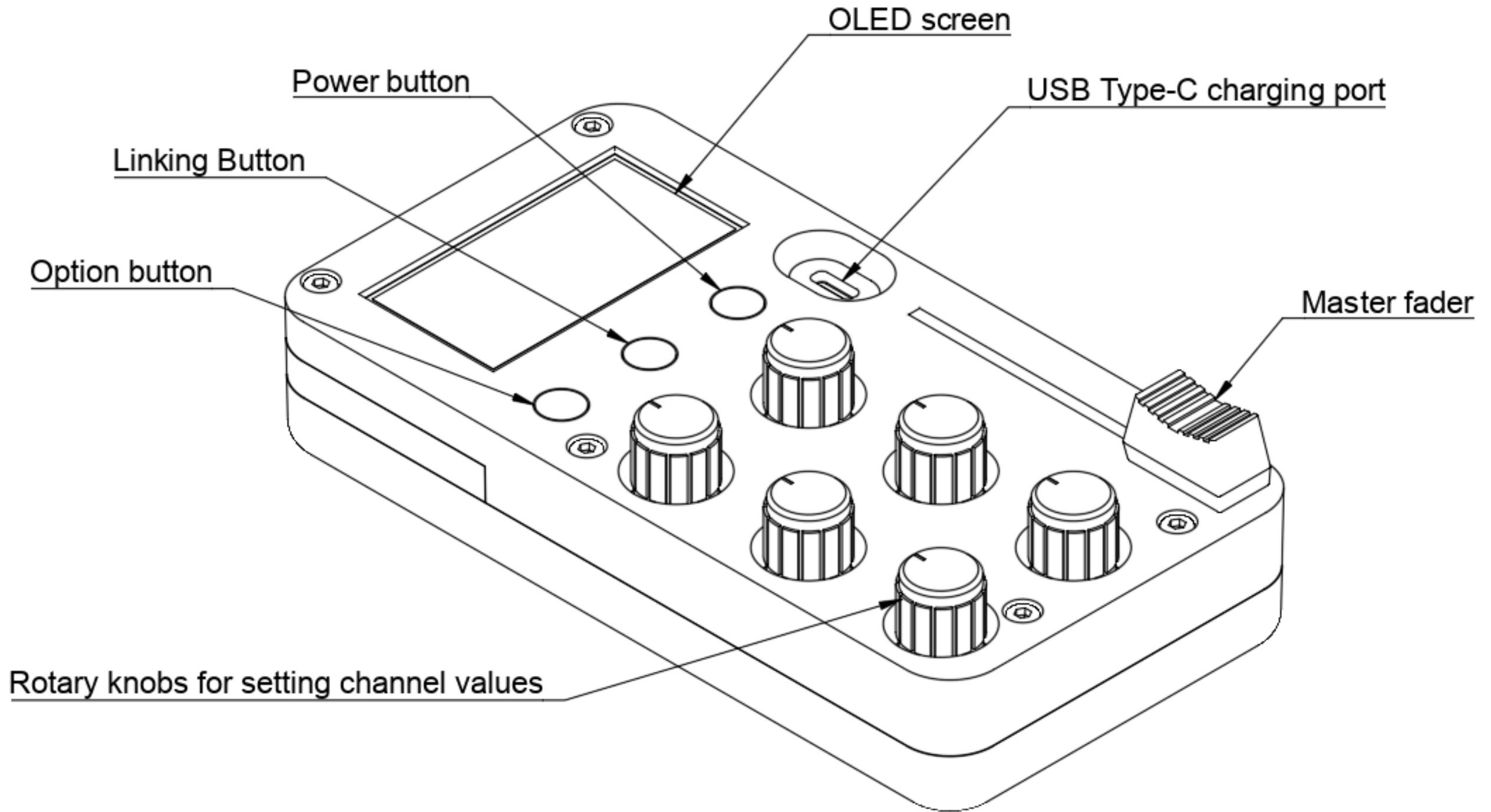**User Manual**   **firmware 1.0**

Ethermaster is a DMX controller with a built-in Lumenradio CRMX transmitter, capable of transmitting one full DMX universe.
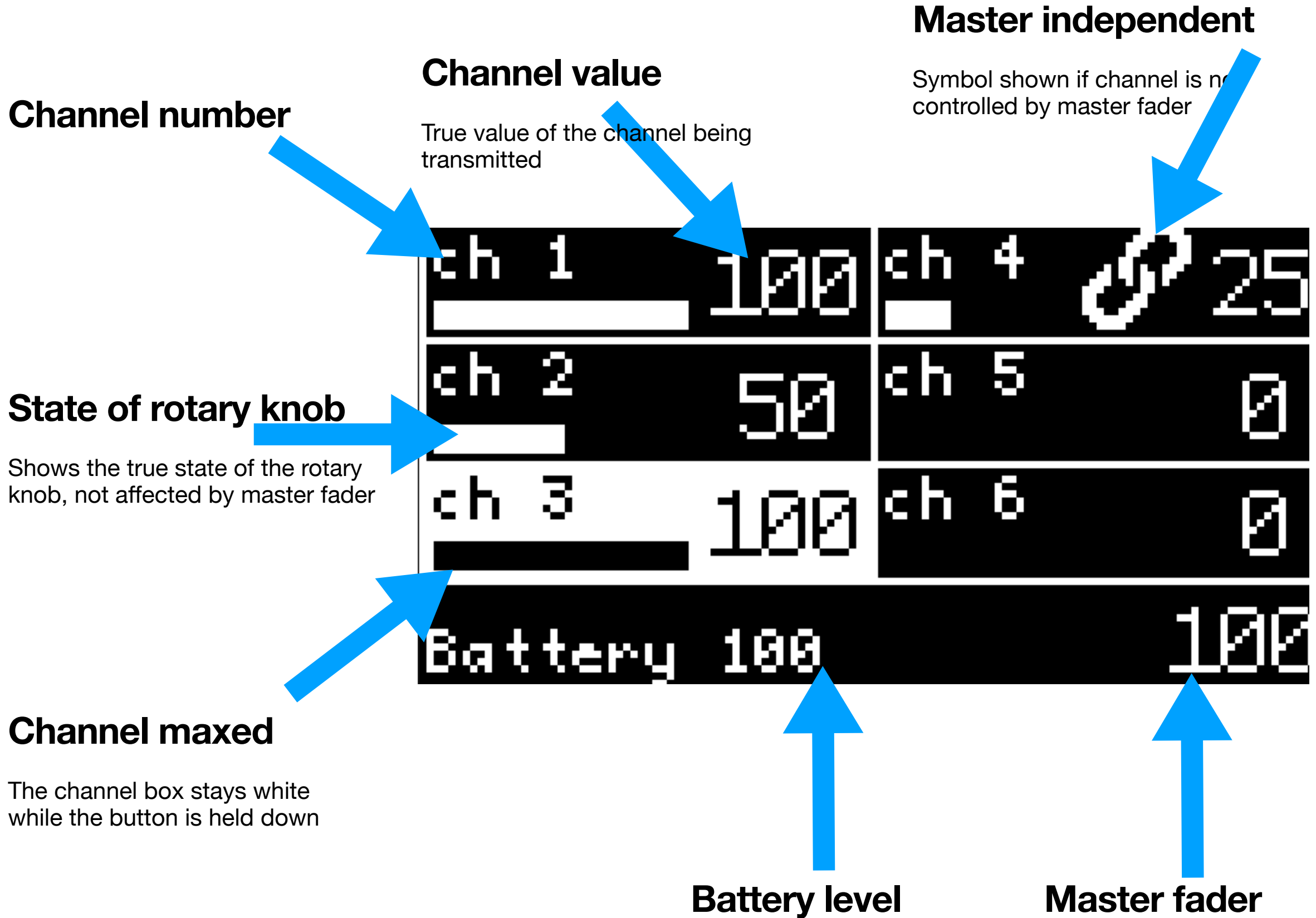
Main features:

- Rugged case
- Built-in Li-ion battery - working time on full charge over 20h (depends on external temperature).
- 6 controllable DMX channels
- Each channel is controlled using a rotary knob
- Output is shown on OLED screen
- Master fader can be set to control only limited channels

OLED screen

Power button

USB Type-C charging port

Linking Button

Option button

Master fader

Rotary knobs for setting channel values

Channel number

Channel value

True value of the channel being transmitted

Master independent

Symbol shown if channel is n[ot] controlled by master fader

ch 1   100

ch 4   🔗 25

State of rotary knob

Shows the true state of the rotary knob, not affected by master fader

ch 2   50

ch 5   0

ch 3   100

ch 6   0

Channel maxed

The channel box stays white while the button is held down

Battery 100   100

Battery level

Master fader

Turning ON/OFF

To power the device on, press the power button. To turn the device off, hold down the power button until a message appears on the screen, then release the button.

Charging

To charge the device, connect it to a 5V USB power source capable of supplying at least 500mA using a Type-C USB cable.

When the device is connected to a power source, the power button lights up white. If the battery is charging and the device is turned on, the power button also shows red. Once the battery is fully charged, the red light turns off when the device is powered on..

It is recommended to charge the battery only when the ambient temperature is above 0°C, as charging at lower temperatures can dramatically reduce the battery's lifespan.

If storing the device for long periods (more than 6 months), it is recommended to periodically charge the battery.

Linking

To link to receivers, hold down the Linking button for 3 seconds. The linking procedure will start, and all unlinked CRMX or W-DMX receivers in range will be linked to this transmitter. During the procedure, the Linking button blinks, and a message reading "Linking" appears on the screen. The linking process lasts approximately 8 seconds. During this time, no DMX data is transmitted to already linked receivers.

Once linked, the transmitter and receiver will remain linked for at least 20 years.
The unlinking procedure depends on the receiver. For example, on Look smoke machine receivers, hold down the receiver's button for 5 seconds to unlink it and make it ready for pairing with another transmitter.

Controlling DMX channels

1. Each rotary knob controls its corresponding channel. The value being transmitted is shown on the screen as a percentage.

2. The master fader controls all channels unless they are set as independent. For example, if the master fader is at 50%, the maximum value of any non-independent channel is 50%. When the master fader is at 50%, turning the channel knob has no effect on those channels.

3. To make a channel independent of the master fader, hold down the option button and click the corresponding channel knob. A symbol appears next to the channel number to indicate that the channel is now independent of the master fader. Adjustments to the master fader no longer affect the value of this channel. To link the channel back to the master fader, hold down the option button and click the channel knob again.

4. To temporarily set a channel to its maximum value, hold down the corresponding channel knob. The channel box on the screen will turn white to indicate that the channel is temporarily maxed out. Once released, the channel returns to its previous value. The master fader does not affect this temporary setting.

05 | Notes on Bluetooth.

1. The Lumenradio radio in the device is Bluetooth-enabled. Using the **CRMX Toolbox** app by Lumenradio, it is possible to change the transmitter's settings if needed. Note that some settings will revert to their default values when the device is restarted.

2. It is also possible to control the DMX channels via Bluetooth using a specialized application, such as Luminair.
As of firmware version 1.0, the device itself does not provide any indication when DMX channels are being controlled via Bluetooth.

1. The device is not waterproof when the case is open.

2. It is recommended to charge the battery only when the ambient temperature is above 0°C, as charging at lower temperatures can dramatically reduce the battery's lifespan.

3. The battery is composed of two 18650 form-factor Li-ion cells.

4. If storing the device for long periods (more than 6 months), it is recommended to periodically charge the battery.

5. Firmware upgrade process:

   1. Make sure the device is switched off and charging cable is unplugged

   2. Hold down the options button while connecting the device to a computer USB port (note: the USB-C cable must be data-capable. Once the cable has been connected push the power button and keep holding it for the entire firmware upgrade time.

   3. A new external disk should appear on the computer.

   4. Drag and drop the new firmware file on the external disk. Once the file has been copied you can let go of the power button. Note: the firmware version is displayed on the start-up screen

ETHERMASTER is assembled in EU from components made in EU and China.

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