EVENT LIGHTING

DMXRT

DMX Trigger Recorder

USER MANUAL

REC / PLAY

SD ACTIVITY

DMX IN / TRIGGER

POWER

MENU ▲ ▼ ENTER

DMXRT
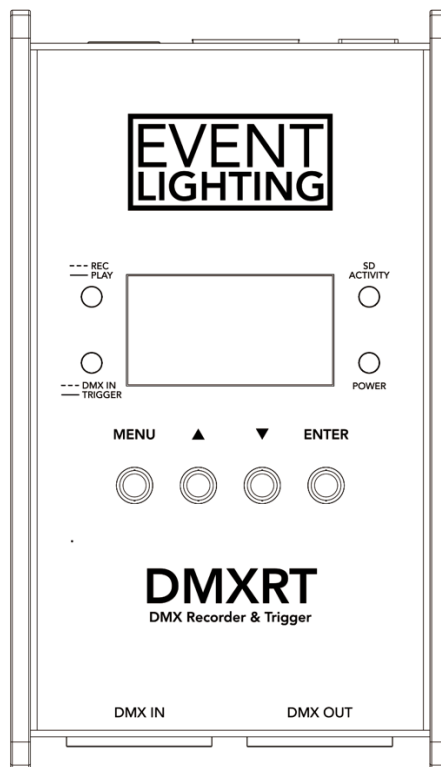**DMX Recorder & Trigger**

DMX IN   DMX OUT

For your safety, please read this user manual carefully before use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.
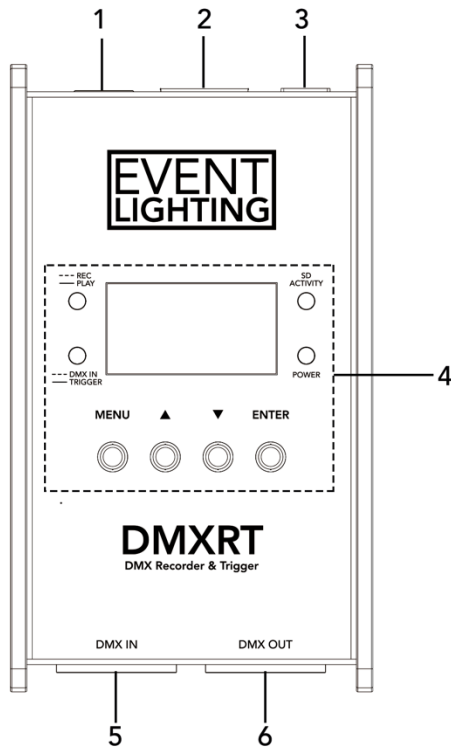
Safety Instructions

Warning

- Do not open this device, there are no user serviceable parts inside. Risk of electric shock.
- Do not operate this device outdoors where excessive dust, heat, water, or humidity may affect it.
- Do not operate this device if the housing, lenses, or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- Do not operate this device at temperatures higher than 40°C (104°F).
- Stop using this device immediately if a serious operating problem becomes apparent.
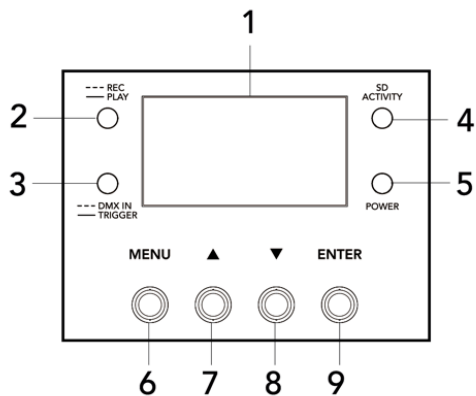
Product Overview

DMXRT is a DMX recorder and trigger which can be used to store and playback any show or scene from a micro SD card. They can be played by 6 external triggers or the built-in internal trigger. DMXRT can play shows or scenes a single time, or continuously in a loop, and can also implement advanced features such as a delay, giving you complete control of the playback.
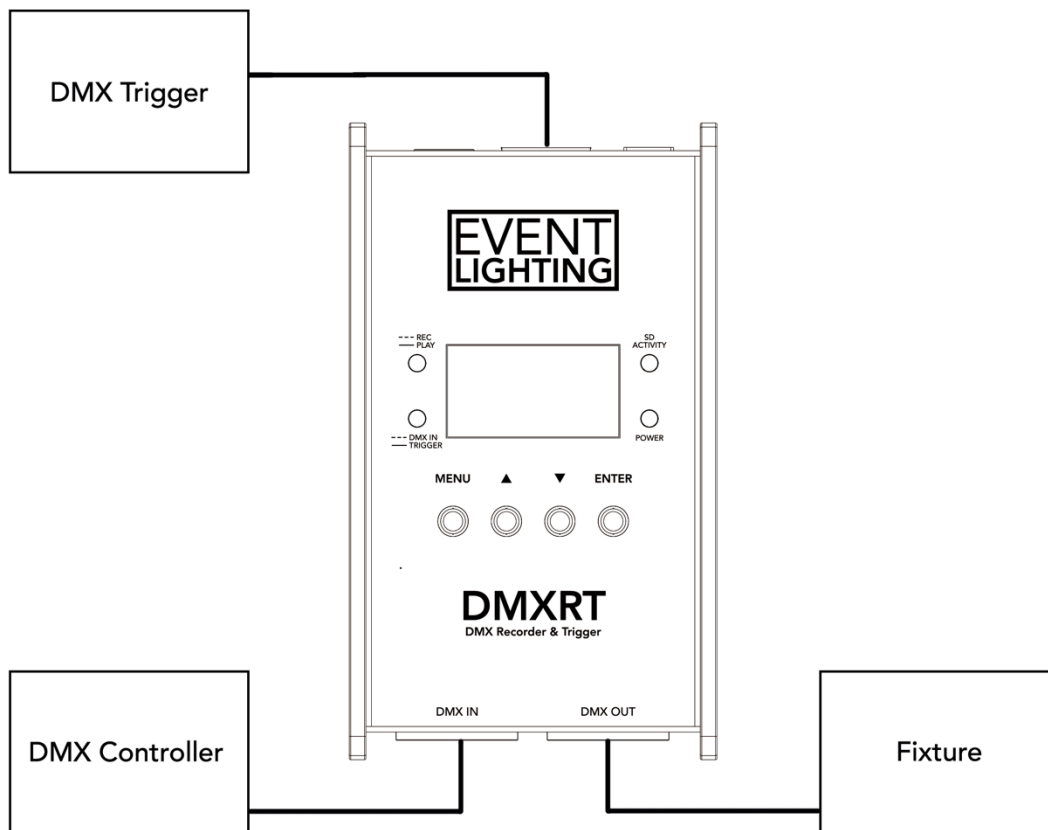
1: Micro SD Card slot.
2: Trigger Connector RJ45 in.
3: 12V Power in.
4: Display and Control Panel. See below for details.
5: 3-pin DMX in.
6: 3-pin DMX out.

Control Panel

1: LCD Display.
2: Record/Play LED Indicator.
3: DMX In/Triger LED Indicator.
4: SD Activity LED Indicator.
5: Power LED Indicator.
6: Menu Button.
7: Up Button.
8: Down Button.
9: Enter Button.

Product Operation

Connect the following cables to DMXRT before connecting to power:
- Connect a DMX Trigger device using a RJ45 cable.
- Connect a DMX Controller using a 3-pin DMX cable.
- Connect a DMX-enabled fixture using a 3-pin DMX cable.

To prevent signal interference, ensure the cables are high quality.

Menu

After start-up, press **Menu** to enter the Main Menu. Press **Up** or **Down** to cycle through menu items and **Enter** to confirm. Below is a list of menu options.

Note: The menu will return to the start screen after a short period of inactivity. This timeout can be configured in **Display Options**.

Play Show

Preview a previously recorded show (the show should be stored on the sd card?).
- Select a show by pressing **Enter** while **Show** is highlighted, then use **Up** and **Down** to select a file from the list. Press **Enter** to confirm the selection.
- Select a playback mode by pressing **Enter** while **Mode** is highlighted, then use **Up** or **Down** to select between **One Play** and **Loop Play**.

- Start playback by pressing **Enter** while **Start Play** is highlighted. Press **Enter** again to stop playback. Playback will also stop automatically after the show is over if **One Play** mode is selected.

Only one show can be played at a time. While playing, external triggers and other active triggered shows will be disabled.

Important: Remove the DMX input cable while in this mode to avoid data collision.
Note: At least one show must be recorded before this function is available. See **Record Show** below for details.

Record Show
Record a show using a DMX controller.

Name the show by pressing **Enter** while **Name** is highlighted. To change the name, use the **Enter** key to select a character, and **Up** and **Down** to change that character. Once the desired character is displayed, press **Enter** to confirm. The name can be up to 11 characters.
- Once the name is inputted, press **Enter** to save it.

Select a recording mode by pressing **Enter** while **Mode** is highlighted. Press **Up** or **Down** to select between the following options:
- Manual: Start and stop the recording manually.
- Semi-Auto: The recording will automatically start when the value of any DMX channel is non-zero and Blackout is not active on the DMX controller. The recording must be manually stopped.
- Auto: The recording will automatically start when the value of any DMX channel is non-zero. The recording will automatically stop when the value of all DMX channels are zero, or Blackout is activated on the DMX controller.

Press **Enter** on **Start Record** to start the recording. If the status displays **Waiting Start**, press **Enter** again to start the recording.
Press **Enter** on **Stop Record** to stop the recording. After it is stopped, it will be saved automatically.

Delete Show
Delete a previously recorded show.

Select the name of the show you want to delete using **Up** and **Down**, then press **Enter.** The **Delete Show** button will now be highlighted, press **Enter** again to confirm the deletion or **Menu** to cancel.

Important: Once a show is deleted, it cannot be recovered.

Trigger Event
Change trigger event settings.

Press **Up** or **Down** to select between available triggers. Press **Enter** to view and edit the parameters of the selected trigger. The following parameters are available:
1. Status. Enable or Disable the trigger. Press **Up/Down** to switch between the options.
2. Rename. Rename the trigger. Press **Up/Down** to select a character, **Enter** to select that character, and **Up/Down** to change that character. Once the desired character is displayed, press **Enter** to confirm.
3. Show. Assign a selected show to start when the trigger is activated. Press **Up/Down** to select between the available shows, and press **Enter** to confirm.

4. Mode. Set the trigger mode. Press **Up/Down** to select between the available modes, and press **Enter** to confirm. The available modes are:
   a. NO_TR: Normally Open. The trigger will be activated when the circuit is closed. The show will be played in a loop until the circuit is opened again, upon which it will stop when the current playback is complete.
   b. NC_TR: Normally Closed. The trigger will be activated when the circuit is opened. The show will be played in a loop until the circuit is closed again, upon which it will stop when the current playback is complete.
   c. NCBK_TR: Same as NC_TR, but when the trigger is activated, it will prevent button input and other triggers from being activated until the playback is complete.
   d. NOBK_TR: Same as NO_TR, but when the trigger is activated, it will prevent button input and other triggers from being activated until the playback is complete.
   e. TOGGLE_TR: The first trigger activation will start the show and play it in a loop. A second trigger activation will stop the show, and a subsequent trigger activation will start the show again.
   f. Auto_TR: The trigger will be activated automatically when the device is started.
5. Delay. Set the delay time before the event starts after the trigger is activated. Press **Up/Down** to select the delay time, between 0 and 120 seconds.

After configuring the parameters, use **Up/Down** to scroll to the bottom and select **Confirm and Save** to save the configuration or **Cancel and Return** to discard changes.

Stop TR Event
Activate or deactivate trigger events.

Press **Up/Down** to select a trigger and press **Enter** to activate or deactivate the selected trigger.

Device Settings
View and edit device settings. Press **Up/Down** to select between the following settings and press **Enter** to edit it.
Device Label. The visible name of the device. Press **Up/Down** key to select a character, **Enter** to select that character, and **Up/Down** to change that character. Once the desired character is displayed, press **Enter** to confirm. Once the desired name is inputted, select **Enter** and press **Enter** to save.
- DMX Port Option. Press **Up/Down** to select between the following options:
  - Single: Only the last triggered show will be displayed.
  - HTP (Highest takes precedence): all triggered shows are played simultaneously. The DMX value of each channel is merged into the DMX output, which contains the highest value of each DMX channel.

  Press **Enter** to confirm.
- Display Option. Press **Up/Down** to select between the following options, and press **Enter** to modify the selected option:
  - Mode:
    - Normal: Display is in it's normal configuration.
    - Inverse: Display is flipped vertically. The order of **Menu/Up/Down/Enter** will also become reversed.
  - GoBack(s): The time in seconds after which the display will return to the start screen if no button input is received. Range: 5-60 seconds, in increments of 5 seconds, or Never.
  - Backlight(s): The time in seconds after which the display will turn off if no button input is received. Range: 5-60 seconds, in increments of 5 seconds, or ON (the display will always remain on).

Press **Up/Down** to modify the setting then press **Enter** to confirm.
- Version: Display the installed software version.

Save Configuration
Save the current settings to file, which can be loaded at a later time.

Press **Enter** while **Name** is highlighted to modify the file name. Press **Up/Down** to select a character, **Enter** to select that character, and **Up/Down** to change that character. Once the desired character is displayed, press **Enter** to confirm. Once the desired name is inputted, select **Enter** and press **Enter** to save.

Press **Enter** while **Backup Data** is highlighted to begin the backup process. Once it is complete, the screen will display **Backup Data Succeed**. Press **Enter** to return to the main menu.

Load Configuration
Load a previously saved configuration file.

Press **Up/Down** to select between available configuration files, then press **Enter** to confirm the selection. Press **Enter** while **Restore** is highlighted to load the selected configuration file or press **Menu** to cancel. Press **Enter** while **Del** is highlighted to delete the selected configuration file

Default Setting
Restore DMXRT to factory settings. This will return all options to factory defaults. Saved shows and configuration files will not be deleted.

Press **Up/Down** to select from the available options, and press **Enter** to confirm:
- Yes: proceed with factory reset.
- No: return to the main menu.

Technical Specifications

Power
- Input Voltage: 100-240V AC, 50/60Hz.
- Power Supply: 12V DC, 1500mA.

Control
- Control Protocol: DMX512.
- Connections: 3-pin XLR in and out, micro SD slot, RJ45 in.
- RJ45 for up to 6 external triggers.
- Storage: Micro SD card.

Housing
- Material: Aluminium.
- IP Rating: IP20.
- Dimensions: 115x67x45 mm.
- Weight: 0.4 kg.

Optional Accessories
- DMXRT Wallpanel.

Warranty

Please refer to your local dealer or contact Event Lighting.