Overview

A DMX controller uses 7 DMX channels to control the THRILL Vertical Fogger. The DMX address is the first channel used. If the Vertical Fogger’s DMX address is set to 25, then the controller sends DMX commands on channels 25 - 31. DMX channel 25 on the controller corresponds to DMX channel 1 on the THRILL Vertical Fogger. For independent control, each Vertical Fogger must have its own unique control channels. Two or more Vertical Foggers may be set to the same address and share control channels for diagnostic purposes or if symmetric control is desired.

To set the DMX address:
1. Press MENU to enter the control menu.
2. Press A or V to scroll to DMX. Press ENTER.
3. Scroll to an address from 1 to 506.
4. Press ENTER to save the address setting.

Manual settings
The THRILL Fogger has a pushbutton that releases fog and activates the LEDs with the settings programmed for remote control channel 1. The button can be disabled to prevent unintended firing.

To enable or disable the manual pushbutton:
1. Press MENU to enter the control menu.
2. Press A or V to scroll to Push. Press ENTER.
3. Select on to enable the button, or off to disable it.
4. Press ENTER to save the setting.

The LEDs can also be controlled from the control panel. The settings are retained until the machine is operated by remote control or DMX, or is turned off.

To set the LEDs manually:
1. Press MENU to enter the control menu.
2. Press A or V to scroll to Push. Press ENTER.
3. Select an effect to use: strobe (0-255), dimmer (0-100), red (-255), green (0-255), blue (0-255), dimmer (0-255), or premixed colors (0-255), Press ENTER.
4. Referring to the DMX commands below, scroll to the value from 0 to 255 that gives the desired effect.
5. Press ENTER to save the setting.
6. Repeat steps 3-5 for each desired effect.

Remote control settings
Pressing a button on the remote control releases fog and lights the LEDs with a programmed or random color. The pushbutton uses the program color button for 1.5 seconds.

To program a color for each button:
1. Press MENU to enter the control menu.
2. Scroll to Col. Press ENTER.
3. Scroll to CH 1. Press ENTER.
4. Select a channel number from 1 to 255 to select a programmed color, or or off for a random color.
5. Press ENTER to save the options for button 1.
6. Repeat steps 3-5 to program buttons 2, 3, and 4.

Display setting
The I button setting under P5 flips the display for easier reading.

Note: The display automatically enters sleep mode after a short period if no buttons are pressed. Pressing any button reactivates the display.

DMX operation
DMX operation provides access to the full range of features provided by the THRILL Vertical Fogger. The effect machine can be operated using any DMX compliant controller. Both 3-pin and 5-pin sockets are provided for data connection.

DMX control features
Fog
Fog output is controlled on channel 1. Output is either on or off. To prevent damage to the pump, monitor fluid level. Do not run the pump without fluid.

Strobe effects
A variable strobe effect is available on channel 2 along with pulse effects and random flash. Select one of the “open” values for steady light. At values from 0-7, the LEDs are off.

Dimming
The intensity of the light is controlled on channel 3 and increases with fader level.

Custom color mixing
The LEDs are individually controllable on channels 4, 5, and 6, allowing you to mix them in any combination. The amount of each color in the mix increases with fader level. To use custom color mixing, the premixed color function on channel 7 must be off.

Premixed colors
Channel 7 provides a “color wheel” effect with 36 premixed colors. You can also scroll continuously up or down through the colors or select random colors at slow, medium, or fast speeds. When selected, premixed colors override custom colors.

DMX commands

<table>
<thead>
<tr>
<th>Ch.</th>
<th>Value</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0-127</td>
<td>Fog</td>
</tr>
<tr>
<td></td>
<td>0-127</td>
<td>Fog output</td>
</tr>
<tr>
<td></td>
<td>128-255</td>
<td>Fog output on</td>
</tr>
<tr>
<td>2</td>
<td>0-7</td>
<td>Strobe Effects</td>
</tr>
<tr>
<td></td>
<td>0-7</td>
<td>Light off (blackout)</td>
</tr>
<tr>
<td></td>
<td>8-15</td>
<td>Light on (no flash)</td>
</tr>
<tr>
<td></td>
<td>16-131</td>
<td>Strobe, slow to fast</td>
</tr>
<tr>
<td></td>
<td>132-139</td>
<td>Light on</td>
</tr>
<tr>
<td></td>
<td>140-181</td>
<td>Pulse effect, fast close/slow open</td>
</tr>
<tr>
<td></td>
<td>182-189</td>
<td>Light on</td>
</tr>
<tr>
<td></td>
<td>190-231</td>
<td>Pulse effect, fast open/slow close</td>
</tr>
<tr>
<td></td>
<td>232-239</td>
<td>Light on</td>
</tr>
<tr>
<td></td>
<td>240-247</td>
<td>Random strobe</td>
</tr>
<tr>
<td></td>
<td>248-255</td>
<td>Open</td>
</tr>
<tr>
<td>3</td>
<td>0-255</td>
<td>Dimmer</td>
</tr>
<tr>
<td></td>
<td>Dimmer intensity, 0-100%</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0-255</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>Red intensity, 0-100%</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0-255</td>
<td>Green</td>
</tr>
<tr>
<td></td>
<td>Green intensity, 0-100%</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0-255</td>
<td>Blue</td>
</tr>
<tr>
<td></td>
<td>Blue intensity, 0-100%</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>0-255</td>
<td>Premixed Colors</td>
</tr>
<tr>
<td></td>
<td>0-10</td>
<td>No premixed color</td>
</tr>
<tr>
<td></td>
<td>11-190</td>
<td>Stopped scroll, colors 1-36</td>
</tr>
<tr>
<td></td>
<td>191-192</td>
<td>No premixed color</td>
</tr>
<tr>
<td></td>
<td>193-214</td>
<td>Continuous scroll, increasing, fast to slow</td>
</tr>
<tr>
<td></td>
<td>215-221</td>
<td>Scroll stop</td>
</tr>
<tr>
<td></td>
<td>222-243</td>
<td>Continuous scroll, decreasing, slow to fast</td>
</tr>
<tr>
<td></td>
<td>244-247</td>
<td>Random color, fast</td>
</tr>
<tr>
<td></td>
<td>248-251</td>
<td>Random color, medium</td>
</tr>
<tr>
<td></td>
<td>252-255</td>
<td>Random color, slow</td>
</tr>
</tbody>
</table>

Getting started
1. Connect the Vertical Fogger effect machine to the controller as described in the Safety and Installation Guide.
2. At the controller, assign a DMX address to the machine.
3. Use the machine’s control panel to set the same DMX address on the machine (see User Settings’).
4. Check that the machine has fluid, is ready (Axio is displayed on control panel), and can safely be triggered.
5. Trigger the machine’s effects from the controller.
6. Monitor the fluid level. Refill the tank when low to avoid running the pump dry. A flashing display indicates an empty fluid tank. Do not release fog until you have refilled the tank.
7. When finished, turn off the machine and allow it to cool before handling. The nozzle remains hot for three hours.
Remote control operation
The THRILL Vertical Fogger comes with a 4-button wireless remote control and a range of 30 meters (100 feet). The 4 buttons can be used to trigger different combinations of fog and light. There are two parts: a transmitter and a receiver. Some transmitters may require a plastic insulator to be removed from the battery prior to use.

Transmitter
Receiver

The receiver connects to the remote control socket on the machine and has a magnet on the back for attachment. The receiver’s red LED indicates the machine is heating; when it goes off, the machine is ready to use.

- Remote control operation is disabled when the effect machine is controlled by DMX.
- The green LED and DIP switch on the receiver are not used.
- The remote control system looks similar to system used for the Martin RUSH SM 650 and RUSH SM 850, but components are not compatible. Unexpected results will occur if used in proximity to each other.

Getting started
1. Fill the fluid tank as directed above.
2. Connect the remote control receiver to the machine as described in the Safety and Installation Guide and apply power.
3. Install a battery in the transmitter as described below.
4. Use the control panel to program the remote control buttons as described under ‘User Settings’.
5. Check that the machine has fluid and is ready (Red is displayed on control panel and the red LED on the receiver is off). Also check that the machine can safely be triggered.
6. Press any button on the remote control transmitter until fog is released. Once the system has been primed, fog will be released instantly.
7. Press buttons on the remote control to trigger different looks.
8. Monitor the fluid level. Refill the tank when low to avoid running the pump dry. A flashing display indicates an empty fluid tank. Do not release fog until you have refilled the tank.
9. When finished, turn off the machine and allow it to cool before handling. The nozzle remains hot for three hours.

Installing the wireless remote control battery
The remote control transmitter uses a single 12-volt A23 (MN27) alkaline battery. To install or replace the battery:
1. Remove the screws from the back cover of the remote control. Remove the back cover.
2. If replacing, remove the old battery.
3. Insert fresh battery with negative terminal towards the spring.
4. Align the covers and replace the screw to close.

Manual operation
The effect machine can be operated manually simply by pressing the pushbutton. The color can be selected by programming remote control button 1. In addition, the LEDs can be manually programmed to light with the options in the ‘User’ menu. See ‘Manual Settings’ for options.

Before releasing fog, verify that the machine has fluid, is ready (Red is displayed on control panel), and can safely be triggered. Monitor the fluid level. Refill the tank when low to avoid running the pump dry. A flashing display indicates an empty fluid tank. Do not release fog until you have refilled the tank.

When finished, turn off the machine and allow it to cool before handling. The nozzle remains hot for three hours.

Maintenance

Do not open the housing, there are no user serviceable parts inside the fixture.

Disconnect the fixture from mains power before performing maintenance.

The user may carry out the maintenance operations described below. Do not attempt to repair a defective fixture. Refer all service to your Martin dealer or contact Martin directly for technical support through www.martin.com/contact-support.

Allow the fog output nozzle to cool completely before cleaning or servicing the effect machine. The nozzle remains hot for up to 3 hours after use.

Service the machine in a well-ventilated area where there is no risk of injury from failing parts, tools or other materials.

Cleaning
Excessive dust, fog fluid, and particle buildup degrades performance, causes overheating and will damage the effect machine. Damage caused by inadequate cleaning or maintenance is not covered by the product warranty. Inspect effect machines within their first 100 hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation.

Use gentle pressure only when cleaning, and work in a clean, well-ventilated area. Do not use any product that contains solvents or abrasives, as these can cause surface damage.

To clean the effect machine, vacuum or gently blow away dust and loose particles from the outside of the effect machine with low-pressure compressed air. Clean the surfaces by wiping gently with a soft, lint-free cloth moistened with a weak detergent solution. Check that the effect machine is dry before reapplying power.

Fluid system maintenance
Specially designed for optimum performance while providing longevity of the fluid system and heat exchanger, Martin Pro-Clean and Storage Fluid is the ultimate cleaning solution for Martin atmospheric effect machines. Using Martin Pro-Clean and Storage Fluid in the THRILL Vertical Fogger on a regular basis reduces clogging and extends its life.

Use Martin Pro-Clean and Storage Fluid at least once every 90 days. For best results, use it every 30 days or 200 hours of operation, whichever comes first.

Perform fluid system maintenance in a well-ventilated area as follows:
1. If there is fluid in the tank, run the machine until the fluid tank is nearly empty, but not completely dry.
2. Turn off the machine, allow it to cool, and disconnect from AC power.
3. Fill the fluid tank with Martin Pro-Clean and Storage Fluid as directed.
4. Reapply power and allow the machine to heat up.
5. Run the fluid through the system by operating the machine until the fluid tank is nearly empty, but not completely dry.

6. Refill the fluid tank with an approved fog fluid prior to use.

Preparing for storage
If storing the machine for an extended period of 30 days or more, clean the fluid system as described above. Do not refill the fluid tank until you are ready to use the machine again.

Replacing the primary fuse
If the fixture is completely dead, the primary fuse may have blown and it may be necessary to install a new fuse. Replace with a fuse of the same size and specified rating only. A spare fuse is located in the fuse holder, located directly below the AC input.

Troubleshooting
This section describes remedies for some possible problems.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Potential cause</th>
<th>Remedies</th>
</tr>
</thead>
<tbody>
<tr>
<td>No light output</td>
<td>Machine not ready</td>
<td>Allow machine several minutes to heat up</td>
</tr>
<tr>
<td></td>
<td>Fluid level low</td>
<td>Add fluid</td>
</tr>
<tr>
<td></td>
<td>Hose too high</td>
<td>Check that fluid hose reaches bottom of fluid tank</td>
</tr>
<tr>
<td></td>
<td>No light output</td>
<td>Wireless remote control out of range</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wireless remote control battery exhausted</td>
</tr>
<tr>
<td>No light output</td>
<td>Wireless remote control</td>
<td>Increase dimming level on control panel</td>
</tr>
<tr>
<td></td>
<td>battery failed</td>
<td>Verify DMX address matches address set on DMX control device</td>
</tr>
<tr>
<td>No light output</td>
<td>Fault in the DMX network</td>
<td>Check DMX cables and connections</td>
</tr>
<tr>
<td></td>
<td>due to connector or cable damage, incorrect DMX addressing, or potential interference from low voltage</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ensure that DMX link is terminated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>More or shield link if it is close to an unshielded high-voltage installation</td>
</tr>
</tbody>
</table>

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