

# THRILL Mini Profile



## User Guide

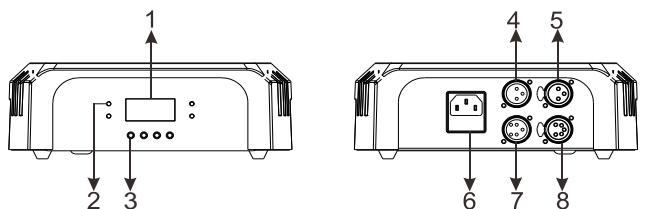


### Fixture overview



#### WARNING!

Read the *Safety and Installation Guide* supplied with this product before installing or using this product.



#### 1 – Display

#### 2 – LEDs

- DMX: Valid DMX signal present.
- : Fixture operating as a stand-alone.
- MASTER: Fixture operating as the stand-alone master.
- SOUND: Audio signal triggering stand-alone sequence.

#### 3 – Control buttons

- MENU: Press to activate the menu. Within the menu, press to escape and return to the previous level. Press and hold to exit the menu.
- DOWN: Press to scroll down through menu options.
- UP: Press to scroll up through menu options.
- ENTER: Press to confirm and save the menu selection.

#### 4, 5 – 3-pin XLR DMX input/output

#### 6 – AC mains power socket and primary fuse holder

#### 7, 8 – 5-pin DMX input/output

### Fixture settings

#### Using the control menu

To access the control menu, press MENU. Scroll through the menu options using the DOWN and UP buttons. Press ENTER

to select an option. To return to a higher level in the menu without making a change, press MENU. To exit the control menu, press and hold MENU.

#### DMX addressing

A DMX controller uses ten (10) DMX channels to control the THRILL Mini Profile. The DMX address is the first channel used. If the first Mini Profile's DMX address is set to 1, then it receives instructions on DMX channels 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The next Mini Profile could then be set to a DMX address of 11. For independent control, each fixture must have its own unique control channels. Two or more THRILL Mini Profiles 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 the UP or DOWN buttons to scroll to DMX ADDRESS. Press ENTER to confirm.
3. The address will blink in the display. Use the UP and DOWN buttons to scroll to any desired address from 1 to 503.
4. Press ENTER to save your selection.

#### DMX State

The DMX STATE setting determines how the Mini Profile responds when there is no DMX signal. The fixture can enter Show Mode (SHOW MODE), black out (BLACKOUT), or hold the effect it was displaying when the DMX signal stopped (HOLD). BLACKOUT is the default setting. For stand-alone operation without a controller, set DMX STATE to SHOW MODE.

To set the fixture's behavior when there is no DMX:

1. Press MENU to enter the control menu.
2. Scroll to DMX STATE and press ENTER.
3. The currently set option will blink in the display. Scroll to the desired option.
4. Press ENTER to save your selection.

#### Stand-alone operation mode

To operate the fixture in a stand-alone operation mode using one of the four pre-programmed shows utilizing either the "Auto-Run" or "Sound Trigger" methods follow the instructions below.

*Note: When a fixture is set in any stand-alone operation mode the settings are recorded and will default after a power cycle.*

#### Stand-alone operation, "Auto-Run" show

The "Auto-Run" show mode will cycle the fixture thru a pre-programmed lighting show. To enable the fixture in the "Auto-Run" mode using one of the four pre-programmed stand-alone shows.

1. Press MENU to enter the control menu and scroll to DMX STATE, press ENTER. The currently set option will blink in the display. Scroll to SHOW MODE and press ENTER to save the selection.
2. In the control menu scroll to MASTER CLIENT, press ENTER. The currently set option will blink, scroll to MASTER and select ENTER to save your selection.
3. In the control menu scroll to SHOW MODE and press ENTER. The currently selected show will blink in the display. Scroll to the desired show 1-4, and press ENTER to save your selection.

#### Stand-alone operation, "Sound Trigger" show

To enable the fixture in the "Sound Trigger" mode using one of the four pre-programmed shows in combination with a music synchronization follow the instructions below.

*Note: The built-in microphone triggers scene changes in sync with a music beat when SOUND MODE is enabled (ON). An ambient sound source is required.*

1. Press MENU to enter the control menu and scroll to DMX STATE, press ENTER. The currently set option will blink in

the display. Scroll to SHOW MODE and press ENTER to save the selection.

2. In the control menu scroll to MASTER CLIENT, press ENTER. The currently set option will blink, scroll to MASTER and select ENTER to save your selection.
3. In the control menu scroll to SHOW MODE and press ENTER. The currently selected show will blink in the display. Scroll to the desired show 1-4, and press ENTER to save your selection.
4. In the control menu scroll to SOUND MODE. The currently selected option will blink. Scroll to ON and select enter to save your selection.
5. Turn on the music or sound trigger source and set it to the desired volume. *Note: Higher amplitude low frequencies yield the best results.*
6. Adjust microphone sensitivity for the volume of the music in relation to the synchronization of the fixture cue changes. Select SOUND SENSE and press ENTER. Press UP or DOWN buttons to change the sensitivity level. When the fixture responds to the beat as desired, press ENTER.

#### Stand-alone operation, "Master/client"

Mini Profiles in any stand-alone operation mode can be linked in a daisy chain using 3- or 5-pin DMX cables and set to master/FOLHQW operation. One Mini Profile (the master) controls the behavior of other Mini Profiles (the clients). This is especially useful when there is no dedicated control source. Two FOLHQW modes are available:

- In &/(17 1 mode, FOLHQWV fully copy the master.
- In &/(17 2 mode, FOLHQWV fully copy the master.

*Note: There must never be more than one master. Always configure all other connected fixtures as FOLHQWV.*

To operate fixtures in master/FOLHQW mode:

Before connecting the fixtures together select and configure only **one** of the fixtures to be the "master" fixture. Choose one of the stand-alone control methods ("Auto Run" or "Sound Trigger") described earlier and engage that functionality as desired using the instructions above; ensuring the **MASTER** option is selected in the **MASTER** menu.

Set up each of the FOLHQWV fixtures to be a "client" fixture. Configure each "client" fixture press MENU to enter the control menu and scroll to MASTER &/(17. Press ENTER. Select CLIENT 1 or &/(17 2 and press ENTER to save this selection.

Link the Mini Profiles in a data chain starting from the "master" fixture, using 3- or 5-pin DMX cable to connect one fixture's DMX OUT socket to the next fixture's DMX IN socket as described in the Safety and Installation Guide.

#### Pan/tilt inversion

The PAN INVERSE and TILT INVERSE settings can be used to reverse the direction of pan and tilt. These settings are useful for symmetrical effects with multiple Mini Profiles, or when coordinating the movement of Mini Profiles that are floor mounted and rigged upside down.

To reverse pan direction:

1. Select PAN INVERSE from the control menu and press ENTER.
2. Scroll to select YES (tilt inversion) or NO (normal) mode.
3. Press ENTER to save your selection.

To reverse tilt direction:

4. Select TILT INVERSE and press ENTER.
5. Scroll to select YES (tilt inversion) or NO (normal) mode.
6. Press ENTER to save your selection.

#### Dimmer settings

##### Dimming curve

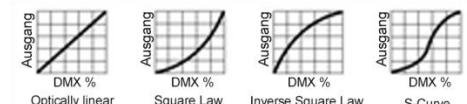
There are four dimming control modes:

- MODE 1 LINEAR: dimming control is even at all light levels.

MODE 2 SQUARE LAW: dimming control is finer at low light levels and coarser at high levels.

MODE 3 INVERSE SQUARE LAW: dimming control is coarser at low light levels and finer at high levels.

MODE 4 S-CURVE: dimming control is finer at low and high light levels and coarser at medium levels.



The default setting is MODE 2. To change dimming control:

1. Press MENU to enter the control menu.
2. Select DIMMER CURVE and press ENTER.
3. Scroll to the desired mode.
4. Press ENTER to save your selection.

#### Dimmer speed

There are two dimmer speed options:

- SNAP is the default setting. It sets the dimmer to exactly follow changes in dimming level sent from the controller. This gives the fastest response.
- FADE adds an approximate two second smooth fade to changes in dimming level sent from the controller. This gives the smoothest fading.

To set the dimmer speed:

1. Press MENU to enter the control menu.
2. Select DIMMER SPEED and press ENTER.
3. Press DOWN or UP to select SNAP or FADE.
4. Press ENTER to save your selection.

#### Reset

The Mini Profile resets each time it powers on, but it can also be reset from the control panel or remotely by DMX. To carry out a reset from the control panel, scroll to RESET and press ENTER (or press MENU to exit without resetting). A reset takes approx. 20 seconds. After this, the Mini Profile returns to its state before the reset.

#### Home position adjustment (offsets menu)

If the head, gobo wheel, or color wheel does not return to its home position, even after a reset, you can adjust the home position from the control panel as follows:

1. Reset the Mini Profile as described above.
2. Press and hold ENTER for at least 3 seconds to enter Offset mode.
3. Use the DOWN and UP buttons up to choose a function to adjust: PAN, TILT, GOBO, or COLOR. Press ENTER
4. Use the DOWN and UP buttons to adjust the effect's home or open position.

### Effects

#### Pan and tilt

The Mini Profile's head pans through 540° and tilts through 230°. Coarse and fine control channels allow precise positioning. Direction can be reversed using the PAN INVERSE and TILT INVERSE menu settings.

The light can be blacked out automatically when the head moves using the "Auto blackout = ON" command. To turn this feature off, use the "Auto-blackout = OFF" command. Pan and tilt speed can also be set to slow, medium, or fast. See channel 10 of the DMX protocol for command values.

The pan and tilt home position, as well as the open gobo position, can be adjusted from the controller. To make adjustments via DMX:

1. Select the Mini Profile on the controller.
2. Enable calibration on the fixture's Fixture Control Settings channel (channel 10) with a DMX value of 55-59.
3. Adjust the effect's position from the controller.
4. Store the effect's calibration value on DMX channel 10. Store both pan and tilt calibration with DMX value 165-169,

gobo wheel calibration with DMX value 210-214, pan calibration only with DMX value 235-249, or tilt calibration only with DMX value 240-244.

5. When finished calibrating effects, set channel 10 to "No function" to resume normal DMX control.

### Strobe effects

The Mini Profile electronically provides instant open and blackout, variable speed flash from 3 to 20 flashes per second, random strobe effects, and pulsing effects.

### Electronic dimming

Overall intensity can be precisely adjusted from 0 to 100% using 2-channel coarse and fine dimming control.

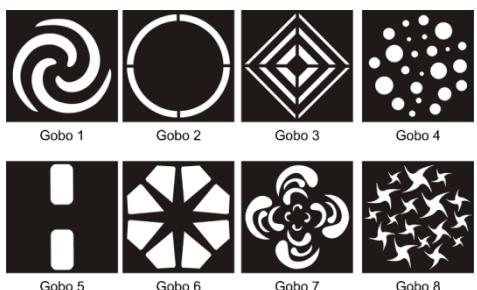
Four dimming control modes are available (see „Dimmer settings“). The dimming mode can be selected from the control menu or by DMX commands on channel 10.

### Colors

The color wheel provides eight colors plus an open white position. Colors can be individually selected or scrolled to give split colors. The wheel can be rotated at varying speeds, both clockwise and counter-clockwise, or set to display random colors at slow, medium and fast speeds.

### Gobos

The gobo wheel provides eight gobo patterns, shown below, plus an open position. Gobos can be stepped, or continuously scrolled to give split gobo patterns. The wheel can be rotated at varying speeds, both clockwise and counter-clockwise, or set to display random gobos at slow, medium and fast speeds. Adjust the focus lens manually to project the sharpest image.



To avoid passing the open position when changing colors and gobos, use the "Parameter shortcuts = OFF" DMX command on channel 10. For faster color and gobo changes, use Parameter shortcuts = ON".

*Note: The gobo wheel is made of a single stamped piece of aluminum; therefore, gobos are not field replaceable. It is possible to replace the entire wheel with a custom wheel from a custom gobo supplier. For more information, contact Martin service.*

### DMX protocol

Ch.	Value	Function
1	0-255	Dimmer, coarse control, full off to full on
2	0-255	Dimmer, fine control
3	0-7	<b>Strobe</b>
	8-15	Off (blackout)
	16-131	Open (steady on)
	132-167	Strobe, slow to fast
	168-203	Pulse, fast close / slow open
	204-239	Pulse, fast open / slow close
	240-247	Pulse open and close
	248-255	Random strobe
	Open (steady on)	
4	0	<b>Color Wheel</b>
	1-14	White (no filter)
	15	White → Red
	16-29	Red → Orange

Ch.	Value	Function
	30	Orange
	31-44	Orange → Yellow
	45	Yellow
	46-59	Yellow → Light Green
	60	Light Green
	61-74	Light Green → Dark Blue
	75	Dark Blue
	76-89	Dark Blue → Magenta
	90	Magenta
	91-104	Magenta → Light Blue
	105	Light Blue
	106-119	Light Blue → Pink
	120	Pink
	121-134	Pink → White
	135-160	White
	161-163	<i>Stepped Scroll</i>
	164-166	Red
	167-169	Orange
	170-172	Yellow
	173-175	Light Green
	176-178	Dark Blue
	179-181	Magenta
	182-184	Light Blue
	185-192	Pink
	193-214	White
	215-221	<i>Continuous Rotation</i>
	222-243	CW, Fast → Slow
	244-247	Stop
	248-281	CCW, Slow → Fast
	252-255	Random Colors, Fast
		Random Colors, Medium
		Random Colors, Slow

Ch.	Value	Function
1	0-255	Dimmer, coarse control, full off to full on
2	0-255	Dimmer, fine control
3	0-7	<b>Strobe</b>
	8-15	Off (blackout)
	16-131	Open (steady on)
	132-167	Strobe, slow to fast
	168-203	Pulse, fast close / slow open
	204-239	Pulse, fast open / slow close
	240-247	Pulse open and close
	248-255	Random strobe
	Open (steady on)	
4	0	<b>Color Wheel</b>
	1-14	White (no filter)
	15	White → Red
	16-29	Red → Orange
5	0	Gobo Wheel
	1-14	Open
	15	Open → Gobo 1
	16-29	Gobo 1
	30	Gobo 1 → Gobo 2
	31-44	Gobo 2
	45	Gobo 2 → Gobo 3
	46-59	Gobo 3
5	60	Gobo 3 → Gobo 4
	61-74	Gobo 4
	75	Gobo 4 → Gobo 5
	76-89	Gobo 5
	90	Gobo 5 → Gobo 6
	91-104	Gobo 6
	105	Gobo 6 → Gobo 7
	106-119	Gobo 7
	120	Gobo 7 → Gobo 8
	121-134	Gobo 8
5	135-160	Open
	161-163	<i>Stepped Scroll</i>
	164-166	Gobo 1
	167-169	Gobo 2
	170-172	Gobo 3
	173-175	Gobo 4
	176-178	Gobo 5
	179-181	Gobo 6
	182-184	Gobo 7
	185-192	Gobo 8
5	193-214	<i>Continuous Rotation</i>
	215-221	CW, Fast → Slow
	222-243	Stop
	244-247	CCW, Slow → Fast
	248-281	Random gobos, fast
	282-294	Random gobos, medium
	295-307	Random gobos, slow
	308-320	

Ch.	Value	Function
9	0-255	<b>Tilt (fine)</b>
	0-9	<b>Control Settings</b>
	10-14	No function (disables calibration)
	15-19	Reset fixture
	20-24	No function
	25-29	Reset color
	30-34	No function
	35-54	Reset pan and tilt
	55-59	No function
	60-64	Enable calibration
	65-69	Linear dimmer curve
	70-74	Square law dimmer curve
	75-79	Inverse square law dimmer curve
	80-84	S-curve dimmer curve
	85-89	Pan and tilt speed = Normal
	90-94	Pan and tilt speed = Fast (default)
	95-99	Pan and tilt speed = Slow
	100-104	Parameter shortcuts = ON (default)
	105-144	Parameter shortcuts = OFF
	145-149	No function
	150-154	Auto-blackout = On
	155-159	Auto-blackout = Off (default)
	160-164	Illuminate display
	165-169	Turn off display
	170-209	Store pan & tilt calibration
	210-214	No function
	215-234	Store gobo wheel calibration
	235-239	No function
	240-244	Store pan calibration
	245-249	Store tilt calibration
	250-255	Reset all calibrations to factory default
		No function

Menu	Sub-menu	Explanation
Auto test	Pan	Run test routine
Manual Test	Tilt	
	Color	Manual control of all effects
	Gobo	
	Shutter	
	Dimmer	
LED Temp.		Temperature readout
Fan Mode	Auto	Fan speed varies as needed for cooling. Light output is constant.
	Low	Light output reduced if needed for cooling. Fan speed is constant.
Firmware Version		Installed firmware version
Fixture Time		Fixture operating hours
PRO Defaults	Yes	Restore factory default settings
	No	Exit
Reset	Yes	Force a fixture reset
	No	Exit without reset

To access the Offset menu, press MENU to enter the menu and then press and hold ENTER for three seconds

Menu	Submenu	Setting	Explanation
Offset Menu	Pan	-127→127	Pan offset
	Tilt	-127→127	Tilt offset
	Gobo	-127→127	Gobo offset
	Color	-127→127	Color offset

### Control menu

Default settings shown in **bold**.

Menu	Sub-menu	Explanation
DMX Address	1-512	Set DMX address
Show Mode	<b>Show 1...</b> Show 4	Select stand-alone program
Master Client	Master	Master-client mode control fixture
	<b>Client 1</b>	Copies master
	Client 2	Copies master with small variations
Sound Mode	On	Toggle music trigger for stand-alone operation
	Off	
Sound Sense	0...100 ( <b>90</b> )	Set trigger sensitivity
DMX State	Show Mode	Select behavior if no DMX signal
	Blackout	
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