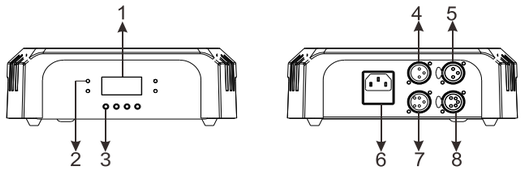
THRILL Mini Profile

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.
- SLAVE: Fixture operating as a stand-alone slave.
- 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. See also „**Error! Reference source not found.**".

To set the DMX address:

Press MENU to enter the control menu.

Press the UP or DOWN buttons to scroll to DMX ADDRESS. Press ENTER to confirm.

The address will blink in the display. Use the UP and DOWN buttons to scroll to any desired address from 1 to 503.

Press ENTER to save your selection.

Behavior without DMX (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

To operate the fixture in stand-alone mode, set DMX STATE to SHOW MODE (see above), or select SHOW MODE in the control panel. Note that if present, DMX control takes precedence over stand-alone control.

Stand-alone show selection (Show Mode)

Four pre-programmed stand-alone shows are available.
To select the show:

1. Press MENU to enter the control menu.
2. Scroll to SHOW MODE and press ENTER.
3. The currently selected show will blink in the display. Scroll to the desired show.
4. Press ENTER to save your selection.

Master/slave operation

THRILL Mini Profiles in Show Mode can be linked in a chain and set to master/slave operation, where one Mini Profile (the master) controls the behavior of other Mini Profiles (the slaves). Two slave modes are available:

- In SLAVE 1 mode, slaves fully copy the master.
- In SLAVE 2 mode, slaves synchronize with the master but have slight variations in behavior.

There must be no more than one master. Configure all other connected fixtures as slaves.

To operate fixtures in master/slave mode:

1. Before connecting the fixtures, select one to be the master.
   - Enter the selected fixture`s control menu and scroll to MASTER SLAVE. Press ENTER.
   - Scroll to MASTER and press ENTER.
   - Select one of the four stand-alone shows as described above.
   - Set DMX STATE to SHOW MODE as described above.
2. Set up each of the slaves.
   - Enter each slave`s control menu and scroll to MASTER SLAVE. Press ENTER.
   - Select SLAVE 1 or SLAVE 2 and press ENTER.
   - Set DMX STATE to SHOW MODE
3. Link THRILL Mini Profiles in a chain, using 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.
4. Apply power to the fixtures. If they do not run a stand-alone routine, make sure that they are not connected to the output of a DMX controller.

Sound activation in show mode

The built-in microphone triggers scene changes in sync with a music beat when SOUND MODE is enabled (ON).

To enable sound activation:

1. Press MENU to enter the control menu.
2. Select SOUND MODE and press ENTER.
3. Scroll to ON or OFF (sound activation disabled).
4. Press ENTER to save your selection.

To adjust microphone sensitivity for the volume of the music:

1. Turn on the music source and set it to the desired volume.
2. Select SOUND SENSE and press ENTER.
3. Press UP or DOWN buttons to change the sensitivity level.
4. When the fixture responds to the beat as desired, press ENTER.

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:

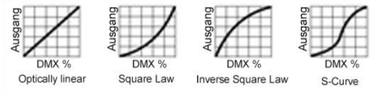
4. Select TILT INVERSE and press ENTER.
5. Scroll to select YES (tilt inversion) or NO (normal) mode.
6. Press ENTER to save your selection.

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.

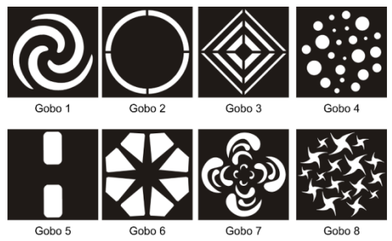
Colors

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		**Strobe**
	0-7	Off (blackout)
	8-15	Open (steady on)
	16-131	Strobe, slow to fast
	132-167	Pulse, fast close / slow open
	168-203	Pulse, fast open / slow close
	204-239	Pulse open and close
	240-247	Random strobe
	248-255	Open (steady on)
4		**Color Wheel**
	0	White (no filter)
	1-14	White → Red
	15	Red
	16-29	Red → Orange
	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
		Stepped Scroll
	161-163	Red
	164-166	Orange
	167-169	Yellow
	170-172	Light Green
	173-175	Dark Blue
	176-178	Magenta
	179-181	Light Blue
	182-184	Pink
	185-192	White
		Continuous Rotation
	193-214	CW, Fast → Slow
	215-221	Stop
	222-243	CCW, Slow → Fast
	244-247	Random Colors, Fast
	248-281	Random Colors, Medium
	252-255	Random Colors ,Slow
5		Gobo Wheel
	0	Open
	1-14	Open → Gobo 1
	15	Gobo 1
	16-29	Gobo 1 → Gobo 2
	30	Gobo 2
	31-44	Gobo 2 → Gobo 3
	45	Gobo 3
	46-59	Gobo 3 → Gobo 4
	60	Gobo 4
	61-74	Gobo 4 → Gobo 5
	75	Gobo 5
	76-89	Gobo 5 → Gobo 6
	90	Gobo 6
	91-104	Gobo 6 → Gobo 7
	105	Gobo 7
	106-119	Gobo 7 → Gobo 8
	120	Gobo 8
	121-134	Gobo 8 → Open
	135-160	Open
		Stepped Scroll
	161-163	Gobo 1
	164-166	Gobo 2
	167-169	Gobo 3
	170-172	Gobo 4
	173-175	Gobo 5
	176-178	Gobo 6
	179-181	Gobo 7
	182-184	Gobo 8
	185-192	Open
		Continuous Rotation
	193-214	CW, Fast → Slow
	215-221	Stop
	222-243	CCW, Slow → Fast
	244-247	Random gobos, fast
	248-251	Random gobos, medium
	252-255	Random gobos, slow
6	0-255	**Pan**: 0°→ 540°
7	0-255	**Pan (fine)**
8	0-255	**Tilt**: 0°→ 230°
9	0-255	**Tilt (fine)**
10		**Control Settings**
	0-9	No function (disables calibration)
	10-14	Reset fixture
	15-19	No function
	20-24	Reset color
	25-29	No function
	30-34	Reset pan and tilt
	35-54	No function
	55-59	Enable calibration
	60-64	Linear dimmer curve
	65-69	Square law dimmer curve
	70-74	Inverse square law dimmer curve
	75-79	S-curve dimmer curve
	80-84	Pan and tilt speed = Normal
	85-89	Pan and tilt speed = Fast (default)
	90-94	Pan and tilt speed = Slow
	95-99	Parameter shortcuts = ON (default)
	100-104	Parameter shortcuts = OFF
	105-144	No function
	145-149	Auto-blackout = On
	150-154	Auto-blackout = Off (default)
	155-159	Illuminate display
	160-164	Turn off display
	165-169	Store pan & tilt calibration
	170-209	No function
	210-214	Store gobo wheel calibration
	215-234	No function
	235-239	Store pan calibration
	240-244	Store tilt calibration
	245-249	Reset all calibrations to factory default
	250-255	No function

Control menu

Default settings shown in **bold**.

Menu	Sub-menu	Explanation
DMX Address	1–512	Set DMX address
Show Mode	**Show 1**… Show 4	Select stand-alone program
Master Slave	Master	Master-slave mode control fixture
	Slave 1	Copies master
	Slave 2	Copies master with small variations
Sound Mode	**On**	Toggle music trigger for stand-alone operation
	Off	
Sound Sense	0…100 (**90**)	Set trigger sensitivity
DMX State	Show Mode	Select behavior if no DMX signal
	Blackout	
	Hold	
Dimmer Curve	Mode 1	Select optically linear dimming
	Mode 2	Select finer control at low levels than high levels
	Mode 3	Select finer control at high levels than low levels
	Mode 4	Select finer control at high and low levels than medium levels
Dimmer Speed	Fade	Select smoother dimming
	Snap	Select faster dimming
Dimmer Calibrate	50-**100**	Reduce output to match other fixtures
Back light	On	Toggle display panel backlight
	Off	
Pan Inverse	Yes	Reverse pan motion
	No	Select normal pan motion
Tilt Inverse	Yes	Reverse tilt motion
	No	Select normal tilt motion
Auto test		Run test routine
Manual Test	Pan	Manual control of all effects
	Tilt	
	Color	
	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

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