

# THRILL Mini Profile



## Safety and Installation Guide



### WARNING!

Read the safety precautions in this guide before installing or using this product.

## Introduction

The THRILL Mini Profile is a compact moving-head lighting fixture with an 18 watt long-life LED light source. It provides 8 pattern gobos, 8 glass color filters, full-range dimming, strobe effects, and manually adjustable focus. The rugged, lightweight construction makes it ideal for mobile DJs and small venues.

It is supplied with this guide, a user guide, power cables, and bracket for attachment of a suitable, user-supplied rigging clamp.

### Before installing and using the fixture:

1. Read the safety information.
2. Unpack the fixture and ensure that there is no transportation damage. Do not attempt to operate a damaged fixture.
3. Ensure that your AC voltage and frequency match the power requirements of the fixture.
4. Check the Martin Professional website at [www.martin.com](http://www.martin.com) for the most recent product documentation and technical information. Martin document revisions are identified by the revision letter below the legal notices.

## Safety information

The following symbols identify important safety information:



Warning! Safety hazard. Risk of severe injury or death.



Warning! Powerful light emission. Risk of eye injury.



Warning! See user manual for important safety information.



Warning! Hazardous voltage. Risk of lethal electric shock.



Warning! Hot surfaces.



Warning! Fire hazard.



Warning! Risk Group 2 product according to EN 62471. Possibly hazardous radiation emitted from this product. May be harmful to the eyes.

Do not stare at operating lamp and do not view the light output with optical instruments or any device that may concentrate the beam.

This lighting fixture presents risks of severe injury or death due to fire hazards, electric shock and falls. It produces a powerful, concentrated beam of light that can create a fire hazard or a risk of eye injury if the safety precautions are not followed.

Install, operate and service this product only as directed, or you may create a safety hazard or cause damage that is not covered by product warranties.



Follow the safety precautions below and observe all warnings on the product. Follow the instructions and observe all warnings in the product's user guide. Keep this information for future reference.

For the latest user documentation and other information about this and all Martin products, visit the Martin website at <http://www.martin.com>.

Respect all locally applicable laws, codes and regulations when installing, operating or servicing the product.

### Protection from electric shock



Do not expose the product to water or moisture. Disconnect the product from AC power before carrying out installation or maintenance and when the product is not in use.

Ensure that the product is electrically connected to ground (earth).

Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.

Socket outlets or external power switches used to supply the product with power must be located near the product and easily accessible so that it can easily be disconnected from power.

Replace blown fuses with ones of the specified type and rating.

Isolate the product from power immediately if the power plug or any seal, cover, cable, or other component is damaged, defective, deformed, wet or showing signs of overheating. Do not reapply power until the problem is corrected.

Before connecting the product to power, check that all power distribution equipment and cables are undamaged and rated for the electrical requirements of all connected products.

### Protection from burns and fire



Do not operate the fixture if the ambient temperature ( $T_a$ ) exceeds 40° C (104° F).



The surface of the product casing can reach up to 45° C (113° F) after 5 minutes of operation and during a steady on state. Avoid contact by persons and materials. Allow the fixture to cool for at least 10 minutes before handling.

Keep flammable materials well away from the fixture. Keep all combustible materials (e.g. fabric, wood, paper) at least 100 mm (4 in.) away from the fixture head.

Ensure that there is free and unobstructed airflow around the fixture. Provide a minimum clearance of 100 mm (4 in.) around fans and air vents.

Do not illuminate surfaces within 200 mm (8 in.) of the fixture.

Do not attempt to bypass thermostatic switches or fuses.

Do not stick filters, masks or other materials onto any optical component.

The fixture's lenses can focus the sun's rays inside the fixture, creating a risk of fire and damage. Do not expose the front of the fixture to sunlight or any other bright light source.

### Protection from eye injury



Lighting fixtures emit possibly hazardous radiation. Do not look at an operating lamp. Eye injury may result.

To minimize the risk of eye injury or irritation, disconnect lighting fixtures from power at all times when not in

use, and provide well-lit conditions to reduce the pupil diameter of anyone working on or near them.

Do not look at output from lighting fixtures with magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light.

Ensure that persons are not looking directly into a lighting fixture when it lights up suddenly. This can happen when power is applied, when the fixture receives a remote control signal, or when certain control menu items are selected.

### Protection from injury



Do not attempt to repair a defective product or modify the product in any way. LEDs are not user-replaceable. Refer all service to your Martin dealer or contact Martin directly for technical support through [www.martin.com/contact-support](http://www.martin.com/contact-support).

Fasten the fixture securely to a fixed surface or structure when in use. The fixture is not portable when installed.

Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices they support and complies with locally applicable regulations.

If suspending from a rigging structure, fasten the fixture to a rigging clamp. Do not use safety cables as the primary means of support.

If the product is installed in a location where it may cause injury or damage if it falls, install as directed a secondary attachment such as a safety cable that will hold the machine if a primary attachment fails. The secondary attachment must be approved by an official body such as TÜV as a safety attachment for the weight that it secures, must comply with EN 60598-2-17 Section 17.6.6 or BGV C1 / DGUV 17, and must be capable of bearing a static suspended load at least six times the weight of the fixture (or more if required by locally applicable regulations).

Allow enough clearance around the head to ensure that it cannot collide with an object or another fixture when it moves. Check that all external covers and rigging hardware are securely fastened.

Block access below the work area and work from a stable platform whenever installing, servicing or moving the fixture. Do not operate the fixture with missing or damaged covers, shields or any optical component.

Do not lift or carry the fixture by its head. Support the fixture by its base only.

In the event of an operating problem, stop using the fixture immediately and disconnect it from power. Do not attempt to use a fixture that is obviously damaged.

Do not modify the fixture in any way not described in this manual or install other than genuine Martin parts.

Refer any service operation not described in this manual to a qualified technician.

Flashing light can trigger epileptic seizures in flicker-sensitive persons. Provide notice when strobe lighting is in use at the entrance(s) to the venue. Mount flashing lights as high above head height as practicable and avoid extended periods of continuous flashing, particularly at 10 to 20 flashes per second. Stop lights from flashing immediately if a person has an epileptic seizure.

Note that whenever power is applied to the fixture, it will reset moving parts to their home (neutral) positions. Be prepared for the head to move. A reset usually takes around 20 seconds.

Refer any service operation not described in this manual to a qualified technician.

### Physical installation



The THRILL Mini Profile is designed for indoor use only and must be used in a dry location with adequate ventilation. Ensure that none of the fixture's ventilation slots are blocked and all minimum distances are observed.

The fixture must be oriented vertically, either upright on the floor or other horizontal surface, or suspended upside-down from a suitable structure.

Fasten the THRILL Mini Profile to a secure structure or surface. Do not stand it on a surface or leave it where it can be moved or fall over. If you install the fixture in a location where it may cause injury or damage if it falls, secure it as directed using a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

### Fastening the fixture to a flat surface

The fixture can be fastened to a hard, fixed, flat surface. Ensure that the surface and all fasteners used can support at least 10 times the weight of all fixtures and equipment they support and comply with locally applicable regulations.

Fasten the fixture securely. Do not stand it on a surface or leave it where it can be moved or fall over. If you install the THRILL Mini Profile in a location where it may cause injury or damage if it falls, secure it as directed with a securely anchored safety cable that will hold the fixture if the primary fastening method fails and complies with locally applicable regulations.

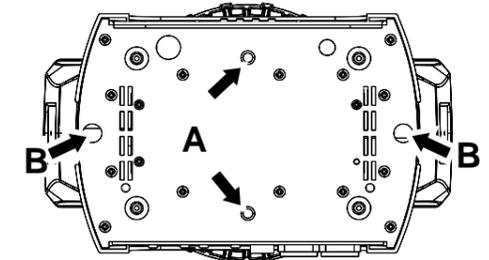
### Mounting the fixture on a truss

The fixture can be clamped to a truss or similar rigging structure. It must be suspended vertically, hanging downwards only. Use a suitable rigging clamp such as a half-coupler clamp (shown to right) fastened to the included clamp attachment bracket.



To clamp the fixture to a truss:

1. Check that the rigging structure can support at least 10 times the weight of all fixtures and equipment to be installed on it and complies with locally applicable regulations.
2. Block access under the work area.
3. Fasten a rigging clamp securely to the supplied clamp attachment bracket. The bolt used must be M12, grade 8.8 steel minimum, and fastened with a self-locking nut or wing-nut/self-locking washer combination. Comply with instructions provided from the manufacturer of the clamp being used.



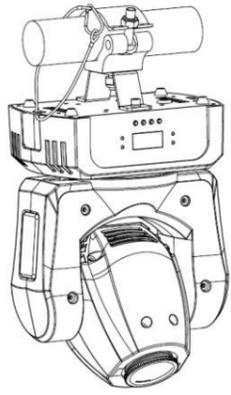
4. Fasten the hanging bracket to the fixture by screwing the two hex type socket cap screws provided fully into holes A in the base (see above) using the lock washers provided.
5. Working from a stable platform, hang the fixture vertically on the truss and fasten the rigging clamp onto the truss.
6. Secure the fixture with a safety cable as directed.
7. Check that the head will not collide with other objects.

*Note – Use only the socket cap screws provided to fasten the bracket to the fixture. Using a screw longer than 12 mm (0.5 in.) may damage the fixture. If screws are missing or damaged, contact Martin® service and support for assistance.*

### Securing with a safety cable

Secure the THRILL Mini Profile with a safety cable or other secondary attachment that is approved for the weight of the fixture so that the safety cable will prevent it from falling if the primary attachment fails. Loop the safety cable through one of the two attachment points B in the base (see illustration above) and around a secure anchoring point.

If a safety cable attachment point becomes damaged or deformed, do not suspend the fixture.



## AC power



For protection from electric shock, the fixture must be grounded (earthed). The power distribution circuit must be equipped with a fuse or circuit breaker and ground-fault (earth-fault) protection.



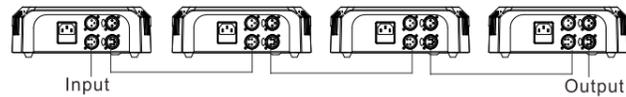
Socket outlets or external power switches used to supply power must be located near the fixture and easily accessible so that it can easily be disconnected from power.

Do not use an external dimming system to supply power to the THRILL Mini Profile, as this may cause damage to the fixture that is not covered by the product warranty.

The fixture has an auto-ranging power supply that accepts AC mains power at 100-240 V at 50/60 Hz. Do not apply AC mains power at any other voltage or frequency.

## Control data link

If using a DMX controller for fixture control, connect them to the controller's output. The THRILL Mini Profile has 3-pin and 5-pin XLR connectors for DMX-standard data input and output. The pin-out on all connectors is pin 1 = shield, pin 2 = cold (-), and pin 3 = hot (+). Pins 4 and 5 are not used by the fixture but allow for throughput to devices that may use them.



Up to 32 DMX devices can be linked together on a single daisy chain. The total number of devices connected to a 512 channel controller output is limited by the number of DMX channels required by the devices. Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft.). Heavier gauge cable and/or an amplifier is recommended for longer runs.

Terminate the data link by installing a termination plug in the output of the last fixture. The termination plug "soaks up" the control signal so it does not reflect and cause interference. If a splitter is used, terminate each branch of the link.

## Maintenance



The user may carry out the maintenance operations described in this manual. Do not open the housing, there are no user serviceable parts inside the fixture, and do not try to repair a defective fixture.

Disconnect the fixture from mains power before performing maintenance.

Service fixtures in an area where there is no risk of injury from falling parts, tools or other materials.

## Cleaning

Excessive dust, effects fluid, and particle buildup degrades performance, causes overheating and will damage the fixture. Damage caused by inadequate cleaning or maintenance is not covered by the product warranty.

The cleaning of external optical lenses must be carried out periodically to optimize light output. Cleaning schedules for lighting fixtures vary greatly depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental factors that may result in a need for frequent cleaning include:

- Use of effect machines.
- High airflow rates (near air conditioning vents, for example).
- Presence of cigarette smoke.
- Airborne dust.

If one or more of these factors is present, inspect fixtures 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.

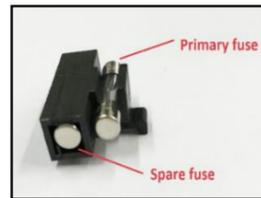
Use gentle pressure only when cleaning, and work in a clean, well-lit area. Do not use any fixture that contains solvents or abrasives, as these can cause surface damage.

To clean the fixture:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Vacuum or gently blow away dust and loose particles from the outside of the fixture and the air vents at the back and sides of the head and in the base with low-pressure compressed air.
3. Clean surfaces by wiping gently with a soft, clean lint-free cloth moistened with a weak detergent solution. Do not rub glass surfaces hard: lift particles off with a soft repeated press. Dry with a soft, clean, lint-free cloth or low-pressure compressed air. Remove stuck particles with an unscented tissue or cotton swab moistened with glass cleaner or distilled water.

## 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.



## Troubleshooting

This section describes some typical problems and how to solve them.

Symptom	Potential Causes	Remedies
No light from fixture, or fans not working.	Power supply issue such as blown fuse, faulty connector or damaged cable.	Ensure that the mains supply is connected and supplying power to the fixture. Check all power connections and cables. Check and if necessary replace the fuse.
Fixture does not respond to DMX control.	Fault in the DMX network due to connector or cable damage, incorrect DMX addressing, or potential interference from proximity to a high voltage installation.	Ensure that fixture's DMX address matches address set on DMX control device. Check that DMX LED is on, and if not, check all DMX cables and connections. Ensure that DMX link is terminated. Check that all components on DMX link use standard DMX polarity. Attempt to control the fixture with another DMX control device. Move or shield link if it is close to an unshielded high-voltage installation.

## Specifications

### Physical

Dimensions (L x W x H) .....237 x 155 x 338 mm (9.3 x 6.1 x 13.3 in.)  
Weight .....4.3 kg (9.5 lbs.)

### Dynamic Effects

Color wheel.....8 colors plus open, variable and random rotation  
Static gobo wheel .....8 gobos plus open, variable and random rotation  
Strobe .....Variable 3 - 20 Hz, pulse effects and random strobe  
Electronic dimming.....0 - 100%, four dimming curve options  
Pan .....540°  
Tilt.....230°

### Control and Programming

Control options .....DMX, 4 stand-alone shows, master/client  
DMX channels .....10  
Stand-alone trigger.....Sound-trigger, auto-run  
User Interface.....Control panel with backlit LCD display  
DMX compliance .....USITT DMX512-A

### Optics

Light source .....18 W white LED engine  
Minimum LED lifetime .....50 000 hours (to >70% luminous output)\*  
Beam angle .....14°  
Focus .....Manual

\*Figure obtained under manufacturer's test conditions

### Construction

Color .....Black  
Housing ...High-impact flame-retardant thermoplastic on metal chassis  
IP rating .....IP 20

### Installation

Orientation .....Standing or hanging  
Mounting points .....Bracket for single rigging clamp, M12 or 1/2"  
Location .....Dry location only  
Minimum distance to illuminated surfaces .....200 mm (8 in.)  
Minimum distance to combustible materials.....100 mm (4 in.)  
Minimum clearance around fans and vents .....100 mm (4 in.)

### Connections

AC power input.....IEC male inlet, C14  
DMX data in/out.....3-pin & 5-pin locking XLR

### Electrical

AC power.....100-240 V nominal, 50/60 Hz  
Fuse.....T 2.0 A, 250 V

### Typical power and current

120 V, 60 Hz.....52 W, 0.9 A  
230 V, 50 Hz.....50 W, 0.4 A  
Typical half-cycle RMS inrush current .....6.4 A  
*Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.*

### Thermal

Cooling .....Forced air (temperature-regulated, low noise)  
Maximum ambient temperature (T<sub>a</sub> max.) .....40° C (104° F)  
Minimum ambient temperature (T<sub>a</sub> min) .....0°C (32° F)  
Total heat dissipation\* .....180 BTU/hr.  
*\*Calculated, +/- 10%, at full intensity, full white*

### Approvals

EU safety .....EN 60598-2-17, EN 61000-3-3, EN 62471, EN 62493  
EU EMC .....EN 55015, EN 55032, EN 55103-2, EN 61000-3-2, EN 61547  
US safety .....UL 1573  
US EMC.....CFR Title 47, Part 15, Class A  
Canadian safety .....CSA C22.2 No. 166  
Canadian EMC .....ICES-003 Class A  
Australia/NZ (pending) .....RCM



### Included Items

Power Cable, EU, IEC C13 female, molded Schuko, 1.9 m (6.3 ft.)  
Power Cable, US, IEC C13 female, molded NEMA 5-15, 1.9 m (6.3 ft.)  
Bracket and hardware for rigging clamp attachment

### Accessories

Super-lightweight half-coupler clamp, black .....PN: 91602018

Safety Cable, SWL 60 kg (132 lb.),  
BGV C1/DGUV 17, black ..... PN: 91604006

### Related Items

RUSH® Software Uploader ..... PN: 91611399  
Martin® M-Touch ..... PN: 90737040  
Martin® M-Play ..... PN: 90737030

### Ordering Information

THRILL Mini Profile ..... PN: 90240090

*Specifications subject to change without notice. For latest product specifications, see [www.martin.com](http://www.martin.com)*

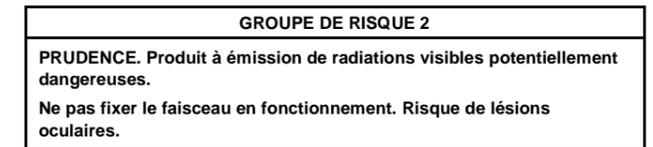
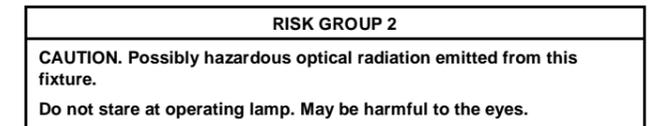
### Disposing of this product



THRILL by Martin® products are supplied in compliance with Directive 2012/19/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), where applicable. Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of THRILL by Martin® products

### Photo Biological Safety Warning

The warning shown below is displayed on this fixture. If it becomes difficult or impossible to read, it must be replaced using the illustration below to reproduce a new label sized 45 x 18 mm, in black on a yellow background.



### FCC Compliance

This device complies with Part 15, Class B, of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Canadian Interference-Causing Equipment Régulations - Règlement sur le Matériel Brouilleur du Canada

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.  
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.

**Information subject to change without notice. HARMAN Professional Denmark ApS disclaims liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document.**

©2017 HARMAN Professional Denmark ApS. All rights reserved. Martin® is a trademark of HARMAN Professional Denmark ApS registered in the United States and/or other countries. Features, specifications and appearance are subject to change without notice.

HARMAN Professional Denmark ApS  
Olof Palmes Allé 18 • 8200 Aarhus N • Denmark  
[www.martin.com](http://www.martin.com)

Document revision: A