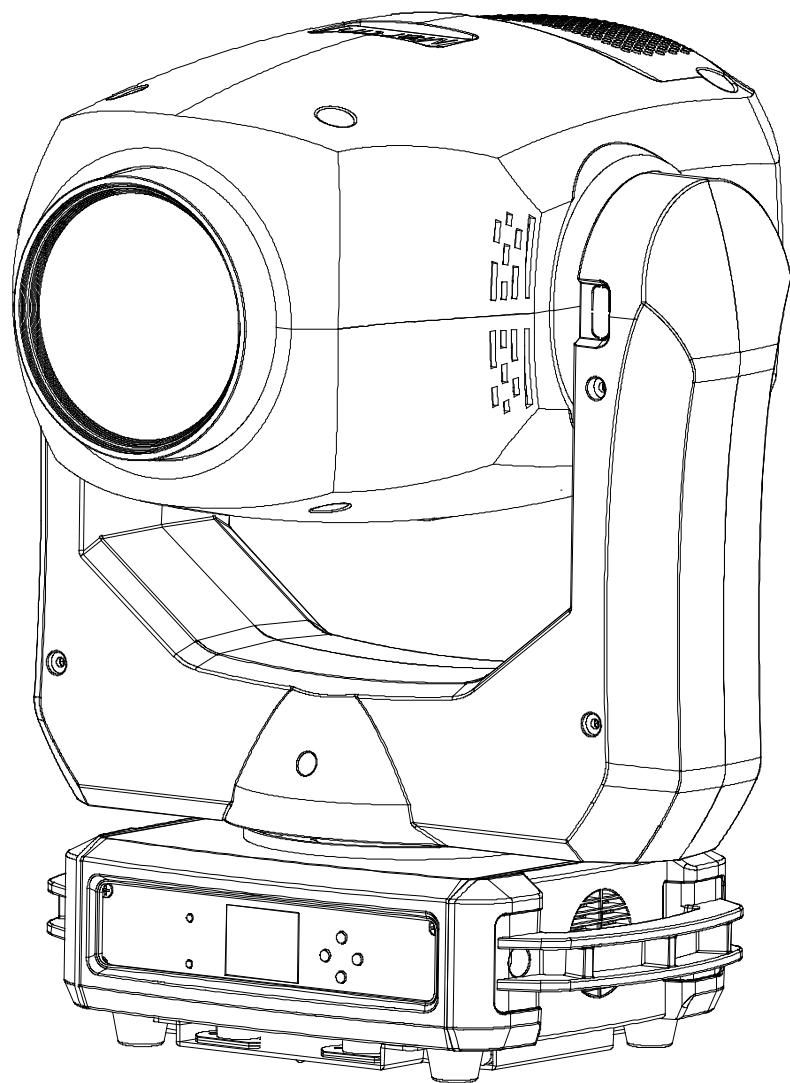


# ERA 300 Profile

## User Guide

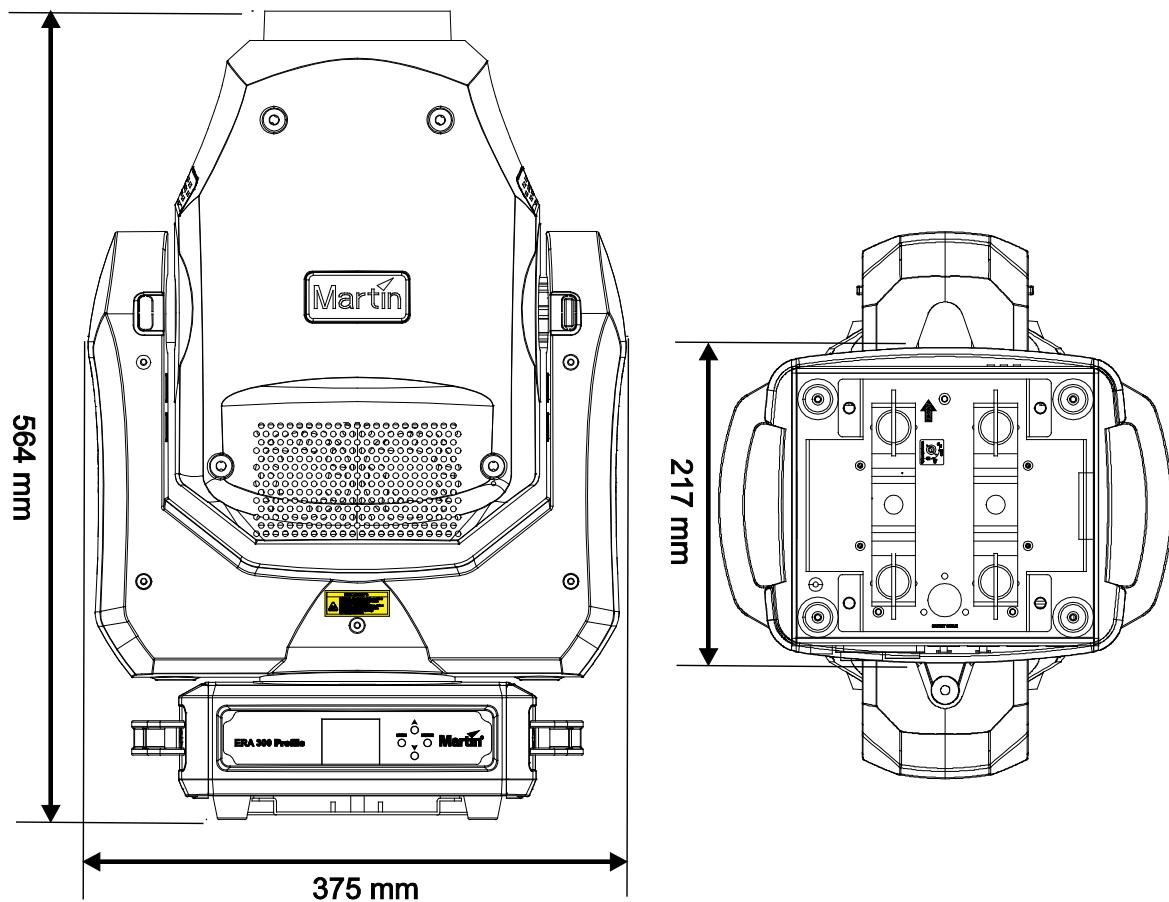


**Martin**<sup>®</sup>  
by HARMAN

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# Dimensions



All dimensions are given in millimeters

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# Safety information



## WARNING!

Read the safety precautions in this manual before installing, operating or servicing this product.

The following symbols are used to identify important safety information on the product and in this manual:



### 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 or severe electric shock.**



### Warning!

**Fire hazard.**



### Warning!

**Hot surfaces.**



Warning! Risk Group 3 (high risk) product according to EN62471. 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 is for professional use only and must be installed by a qualified technician. It is not for household use. It presents risks of severe injury or death due to fire hazards, electric shock and falls. It can create a fire hazard or a risk of eye injury if the safety precautions below are not followed.



Install, operate and service Martin® products only as directed in their user manuals, or you may create a safety hazard or cause damage that is not covered by product warranties. Follow the safety precautions listed below and observe all warnings in this manual and printed on the product. Keep this user manual for future use.

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

If you have any questions about how to install, operate or service the fixture safely, please contact your Martin® distributor (see [www.martin.com/distributors](http://www.martin.com/distributors) for details) or in the USA on 1-844-776-4899.

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



### Protection from electric shock

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

Disconnect the fixture from AC power when not in use.

Do not open the fixture or remove any cover. Refer any service operation not described in this manual to an authorized Martin Service partner.

Shut down power to the entire installation at the main power distribution board and lock out power before carrying out any installation or maintenance work.

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.

Isolate the fixture from power immediately if any seal, cover, cable, or other component is damaged, defective, deformed or showing signs of overheating. Do not reapply power until repairs have been completed.

Before using the fixture, check that all power distribution equipment and cables are in perfect condition and are of suitable type for the location (including water, pollution, temperature and UV resistance).

Do not immerse the fixture in water or any other fluid, or install it in a location where flooding may occur.



### **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 fixture can reach up to 70° C (158° F) if the fixture is operated at the maximum permitted ambient temperature. Allow the fixture to cool for at least 40 minutes before handling.

Install the fixture on a non-combustible surface (brick, concrete, plaster etc.) only.

Do not aim the fixture towards combustible materials (fabric, wood, paper etc.) that are within 20 cm (4 in.) of the fixture.

Keep the fixture well away from flammable materials (volatile liquids etc.). Keep all combustible materials (e.g. fabric, wood, paper) at least 200 mm (8 in.) away from the fixture head.

Ensure that there is free and unobstructed airflow around the fixture. Provide a minimum clearance of 200 mm (8 in.) around fans and air vents.

Do not illuminate surfaces within 500 mm (19.7 ins.) of the fixture.

Do not attempt to bypass thermostatic switches or fuses.

Do not modify the fixture in any way not described in this manual or install other than genuine Martin® parts. Do not stick filters, masks or other materials onto any lens or other optical component.



### **Protection from eye injury**

Warning! Risk Group 3 (high risk) product according to EN 62471 and IEC/TR 62778.

Do not look directly into the product's light output.

Do not look at operating lamp. Eye injury may result.

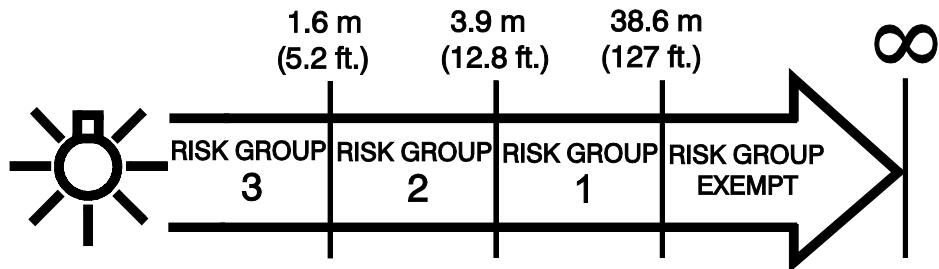
Do not expose persons to the product's light output from a distance of less than 1.6 m (5.2 ft.).

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

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

To minimize the risk of eye irritation or injury, disconnect the fixture from power at all times when the fixture is not in use and provide well-lit conditions to reduce the pupil diameter of anyone working on or near the fixture.

The ERA 300 fixture fixtures fall into the following risk groups according to EN 62471 and IEC/TR 62778 at the distances indicated below.



The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 3.9 m is not expected.



#### **Protection from injury**

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.

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 fixture is installed in a location where it may cause injury or damage if it falls, install as directed in this manual a secondary attachment such as a safety cable that will hold the fixture 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 and must be capable of bearing a static suspended load that is ten times the weight of the fixture and all installed accessories.

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.

Do not operate the fixture with missing or damaged covers, shields or any optical component.

Block access below the work area and work from a stable platform whenever installing, servicing or moving the fixture.

Do not lift or carry the fixture by its head. Always ensure that the fixture is supported by its base.

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 or install other than genuine Martin parts.

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

# Introduction

The ERA 300 Profile from Martin® is a compact fully featured profile fixture with a 260W white LED engine that produces a sharp gobo projection with a flat field.

The fixture provides 540° of pan movement, 260° of tilt movement, motorized 1:2 zoom, motorized focus lens, smooth full-range dimming, strobing shutter and pulse effects, full CMY color mixing system, 9 color filters, 7 user-replaceable rotating gobos, 9 static gobos, a rotating prism, iris making the fixture ideal for live shows, TV events, stage, concerts, and nightclubs.

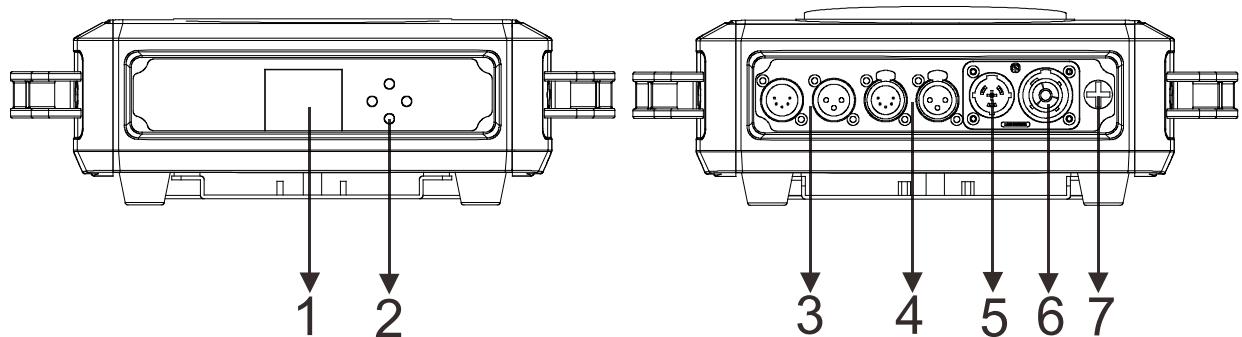
The Martin® ERA 300 Profile can be controlled using any DMX-compliant controller and may be remotely configured by RDM. It is supplied with this user manual, a 1.5 m (4.9 ft.) power cable ready for a local power plug (not included), and two mounting brackets for attachment of suitable, user supplied rigging clamps.

## Before using the product for the first time

1. Read 'Safety information' on page 3 before installing, operating or servicing the fixture.
2. Unpack and ensure that there is no transportation damage before using the fixture. Do not attempt to operate a damaged fixture.
3. Before operating, ensure that the voltage and frequency of the power supply match the power requirements of the fixture.
4. If the fixture is not going to be hard-wired to a mains supply, install a local power plug (not supplied) on the end of the supplied power cable.
5. If fixtures are exposed to a sudden temperature change, give them time to warm or cool to the ambient temperature before applying power. This will help avoid damage due to condensation.
6. Check the support pages on the Martin® website at [www.martin.com](http://www.martin.com) for the most recent user documentation and technical information about the fixture. Martin® user manual revisions are identified by the revision letter at the bottom of the inside cover.

Note that whenever AC power is applied to the fixture, it will reset all effects and functions to their home positions and the fixture head will move. This process usually takes around 20 seconds.

# Fixture overview



## 1 - Display

The display shows the fixture status and user setup menu. When DMX is not detected, the display backlight will flash on and off.

## 2 - Buttons

MENU: Activate the menu mode, or return to the previous level of the menu structure.

DOWN: Decrease a parameter setting, or go down a menu branch.

UP: Increase a parameter setting, or go up a menu branch.

ENTER: Confirm the selected function.

Press and hold the MENU button to exit the menu mode.

## 3 - DMX XLR input plugs

3 and 5-pin XLR plugs are provided for the DMX input.

## 4- DMX XLR output sockets

3 and 5-pin XLR sockets are provided for the DMX output, to link through to the next fixture.

## 5 - Mains power input

A Neutrik powerCON TRUE1 input connector is provided to connect the fixture to mains power.

## 6 - Mains power output

A Neutrik powerCON TRUE1 output connector is provided which can be used to supply power to other fixtures. Please ensure you keep within the power limits listed in "Linking fixtures to power in a chain" on page 11.

## 7 - Fuse

The T 6.3 A fixture fuse is located in a fuseholder next to the power input/output connectors.

# Physical installation



**Warning!** Read 'Safety information' on page 3 before installing the fixture.

**Warning!** The safety and suitability of lifting equipment, installation location, anchoring method, mounting hardware and electrical installation are the responsibility of the installer. All local safety regulations and legal requirements must be observed when installing and connecting the ERA 300 fixture. Installation must be carried out by qualified professionals only.

Contact your Martin supplier for assistance if you have any questions about how to install this product safely.

## Fixture location

The ERA 300 fixture is intended for interior use only. Do not install outside or in damp or humid locations. The fixture requires free and unobstructed airflow around it to ensure adequate cooling.

Observe the following limitations in selecting a location:

- Respect the limitations listed under Safety information on page 3.
- Do not locate the fixture in an unventilated space.

## Mounting the fixture



**Warning!** All fasteners used to mount ERA 300 fixtures must be strong enough to hold the fixture safely. Install a washer directly under the head of each fastener when anchoring the mounting bracket to the installation surface.

### Fastening the fixture to a flat surface

The fixture can be fastened to a hard, fixed, flat surface in any orientation. Ensure that the surface and all fasteners used can support at least 10 times the weight of all fixtures and equipment they will support.

Fasten the fixture securely or stand it securely on a level surface. If you install the fixture in a location where it may cause injury or damage if it falls, secure it as directed below with a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

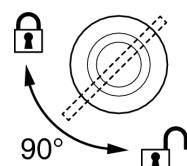
### Mounting the fixture on a truss

The fixture can be clamped to a truss or similar rigging structure in any orientation. Use a suitable rigging clamps such as a G-clamp or a half-coupler clamp (see illustration on right) fastened to the included omega brackets.

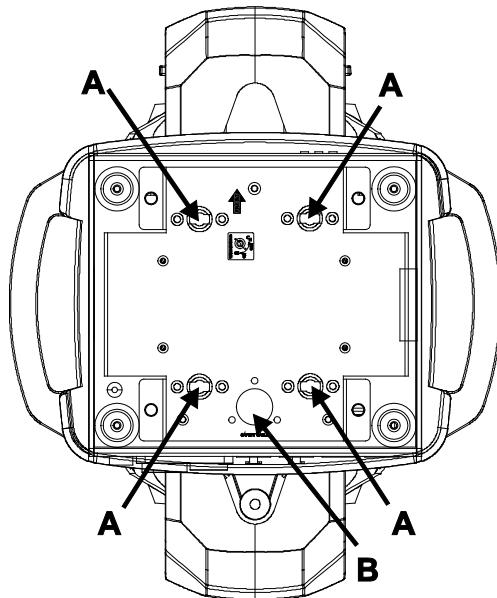
To clamp the fixture to a truss:



1. Check that the rigging structure can support at least 10 times the weight of all fixtures and equipment to be installed on it.
2. Block access under the work area.
3. The fixture is supplied with a pair of omega-type brackets to which rigging clamps can be attached. Bolt a rigging clamp securely to each bracket. The bolts used must be M12, grade 8.8 steel minimum, and fastened with a self-locking nut.



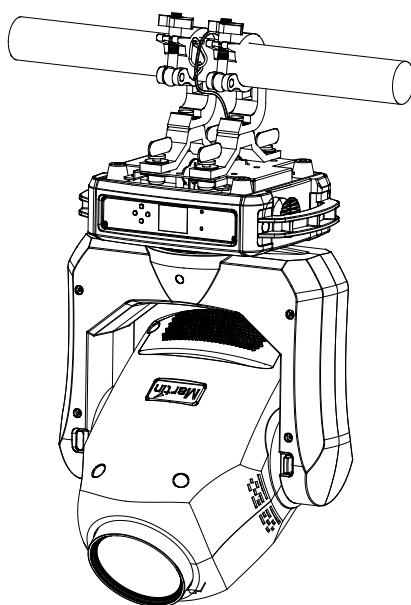
4. Fasten the omega brackets to mounting holes **A** on the base of the fixture using the bracket's quarter-turn fasteners. Turn quarter-turn fasteners a full 90° to lock them (see illustration on right).
5. Working from a stable platform, hang the fixture vertically on the truss and fasten the rigging clamps onto the truss.
6. Secure the fixture with a safety cable through attachment point **B** as directed below.
7. Check that the head will not collide with other fixtures or objects.



### **Securing with a safety cable**

Secure the fixture with a safety cable (or other secondary attachment) that is approved for the weight of the fixture so that the safety cable will hold the fixture if the primary attachment fails. Loop the safety cable through the attachment point **B** in the base of the fixture base (see illustrations above and to right) and around a secure anchoring point.

If a safety cable attachment point becomes damaged or deformed, do not use the fixture. Return it to a Martin Service Centre for repair.



# AC power connection



**Warning!** Read ‘Safety information’ on page 3 before installing the fixture.

**Warning! The mains power input cable supplied with the fixture is rated 6 A and can supply only one fixture with mains power. Do not connect any device to the fixture’s MAINS OUT socket when using this input cable. If you want to connect other fixtures to the MAINS OUT socket, see ‘Linking fixtures to power in a chain’ on page 11.**

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.

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

The fixture can be hard-wired to a building electrical installation if you want to install it permanently, or a power plug (not supplied) that is suitable for the local power outlets can be installed on the power cable. Socket outlets or external power switches used to supply the fixture with power must be located near the fixture and easily accessible so that the fixture can easily be disconnected from power.

If you install a power plug on the supplied power cable, install a grounding type (earthed) plug with integral cable grip that is suitable for your local mains voltage at a current of 6 A. Follow the plug manufacturer’s instructions and connect the wires in the power cable as shown in this table:

	Live or L	Neutral or N	Earth, Ground or $\ominus$
<b>US system</b>	Black	White	Green
<b>EU system</b>	Brown	Blue	Yellow/green

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 to the fixture.

## Linking fixtures to power in a chain

The mains power input cable supplied with the fixture is rated at 6 A and can only supply enough power for one fixture. If you want to use the MAINS OUT socket on the fixture to link power to the next fixture in a daisy-chain, you need to obtain the larger power input cables and power link cables available as an accessory from Martin, see ‘Specifications’ on page 33.

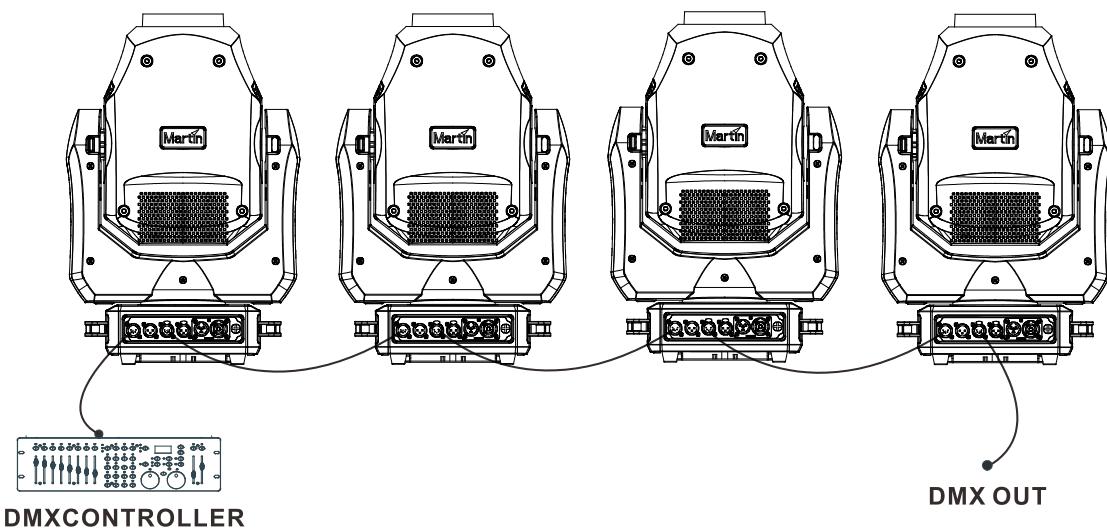
Using the 14 AWG or 1.5mm<sup>2</sup> cables from Martin™, you can link:

- Maximum three (3) ERA 300 fixtures in total at 100-120 V, or
- Maximum five (5) ERA 300 fixtures in total at 200-240 V.

If you install a power plug on the 14 AWG / 1.5 mm<sup>2</sup> power input cable, install a grounding type (earthed) plug with integral cable grip that is rated minimum 16 A at the correct voltage rating for your local power supply.

## Data network requirements

A DMX 512 data link is required in order to control the fixture via DMX. The fixture has 3-pin and 5-pin XLR connectors for DMX data input and output.



Up to 32 devices can be linked together on a single daisy chain. The total number of fixtures in one 512-channel DMX universe is limited by the number of DMX channels required by the fixtures.

Note that if independent control of a fixture is required, it must have its own DMX channels.

Fixtures that are required to behave identically can share the same DMX address and channels.

To add more fixtures or groups of fixtures when the above limits are reached, add another DMX universe or split the daisy-chained link into branches using a powered DMX splitter.

## Tips for reliable data transmission

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 a DMX buffer is recommended for longer runs. The pin-out on all connectors is:

- pin 1 = shield
- pin 2 = cold (-)
- pin 3 = hot (+)

Pins 4 and 5 in the 5-pin XLR connectors are not used in the fixture but are available for possible additional data signals as required by the DMX512-A standard. Standard pin-out is pin 4 = data 2 cold (-) and pin 5 = data 2 hot (+).

To split the link into branches, use an opto-isolated splitter such as the Martin™ DMX 5.3 Splitter. Do not split the link by connecting to both the 3-pin and 5-pin output sockets as this may cause data errors. Terminate the link by installing a termination plug in the output socket of the last fixture. The termination plug, which is a male XLR plug with a 120 Ohm, 0.25 W resistor soldered between pins 2 and 3, "soaks up" the control signal so it does not reflect and cause interference. If a splitter is used, terminate each branch of the link.

## Connecting the data link

To connect the fixture to data:

Connect the DMX data output from the controller to the closest fixture's male XLR DMX input connector.

- Connect the first fixture's DMX output to the DMX input of the next fixture and continue connecting fixtures output to input. Terminate the last fixture on the link with a DMX termination plug.

# Fixture Setup

This section explains the fixture characteristics you can set that determine how it can be controlled and will behave. You choose the settings using the menus available from the control panel, and they are retained even when the fixture is powered off.

Options can also be set over the DMX line using RDM from a suitable controller, see “Setting options by RDM” on page 18.

A complete map of the control menu structure and brief explanations of their purposes can be found on page 28. Only the most-used functions are described in this section.

## Using the control menus

To access the control menus, press the MENU button.

Navigate the menu structure using the ENTER, DOWN and UP buttons.

To select a menu option or to confirm a selection, press the ENTER button.

To return to a higher level in the menu structure without making a change, press the MENU button.

To exit the control menus completely, press and hold the MENU button.

## Setting DMX address

Each fixture must be assigned a DMX address. The DMX address, also known as the start channel, is the first channel used to receive instructions from a DMX controller. The fixture is controlled using 21 DMX channels. If a fixture has a DMX address of 1, then it uses channels 1 to 21 inclusive. The following fixture in the DMX chain can then be set to a DMX address of 22.

For independent control, each fixture must be assigned its own control channels. Two fixtures of the same type may share the same address if identical behavior is desired. Address sharing can be useful for diagnostic purposes and symmetric control, particularly when combined with the inverse pan and tilt options.

To set the fixture’s DMX address:

1. Enter the control menu and select DMX SETUP. Press ENTER.
2. Select DMX ADDRESS and press ENTER.
3. Use the UP and DOWN buttons to select the desired address setting.
4. Press ENTER to confirm your selection (or to return to the top level menu without changing the settings, press the MENU button).

## Personality settings

Personality settings include Pan inverse, Tilt inverse, Dimmer Curve, Dimmer Speed, No Data Mode, Cooling Mode and Display.

### Pan/tilt inversion

The Pan inverse and Tilt inverse menus can be used to reverse the direction of pan and tilt. These settings are useful for symmetrical effects with multiple fixtures, or when coordinating the movement of fixtures that are floor mounted and rigged upside down.

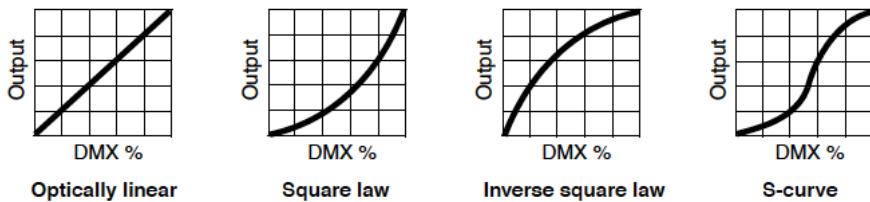
To adjust the pan or tilt inversion settings:

1. Enter the control menu and select PERSONALITY. Press ENTER.
2. Select PAN INVERSE or TILT INVERSE and press ENTER.
3. The current setting will blink on the display. Use the UP and DOWN buttons to select YES (inversion) or NO (normal) mode.
4. Press ENTER to confirm your selection.

## Dimming curves

Four dimming modes are available:

- |            |   |
|------------|---|
| LINEAR     | The increase in light intensity appears to be linear as DMX value is increased.                 |
| SQUARE LAW | Light intensity control is finer at low levels and coarser at high levels.                      |
| INV SQ LAW | (Inverse square law) Light intensity control is coarser at low levels and finer at high levels. |
| S-CURVE    | Light intensity control is finer at low levels and high levels and coarser at medium levels.    |



To set the fixture's dimmer curve, select DIMMER CURVE from the PERSONALITY menu and press ENTER to confirm. Use the UP and DOWN buttons to select the desired mode. Press ENTER to save your selection.

## Dimmer Speed

You can set a fade speed on the dimmer to simulate a tungsten fixture.

To set dimmer fade speed, select DIMMER SPEED from the PERSONALITY menu and press ENTER. Use the UP and DOWN buttons to select FAST or SLOW. Press ENTER to confirm your selection.

## No Data Mode

This option sets what will happen when DMX data is not present.

To set No Data Mode, select NO DATA MODE from the PERSONALITY menu and press ENTER to confirm. Use the UP and DOWN buttons to select:

BLACKOUT – If data connection is lost, fixture will blackout

HOLD – If data connection is lost, fixture holds latest received data value at all channels

Press ENTER to confirm.

## Cooling Mode

This option sets whether the cooling fans run at full speed all the time, or will be controlled by fixture output power.

To set cooling mode, select COOLING MODE from the PERSONALITY menu and press ENTER to confirm. Use the UP and DOWN buttons to select:

REGULATED FAN – Fan speed will be controlled by heat demand in the fixture.

FULL – Fans set to full constant speed.

Press ENTER to confirm.

## Display

This option allows you to set some parameters for the display screen.

Select DISPLAY from the PERSONALITY menu and press ENTER to confirm.

Use the UP and DOWN buttons to select:

- DISPLAY ROTATION – Use the UP and DOWN buttons to select Normal (Display orientation normal) or ROTATE 180 (Display orientation rotated 180°)
- DISPLAY INTENSITY – Use the UP and DOWN buttons to adjust display intensity from 10%-100% (default = 100%)
- TEMPERATURE UNIT – Use the UP and DOWN buttons to select ° C or ° F

Press ENTER to confirm.

### **Set all settings to factory default**

To return all settings to factory default, select DEFAULT SETTINGS and press ENTER to confirm, FACTORY DEFAULT will show on the display.

Use the UP and DOWN buttons to select NO (cancel) or YES (return all settings except calibrations to factory defaults).

Press ENTER to confirm (or press MENU to exit without making a change).

### **Fixture Test**

This menu allows you to run self test sequences on the fixture. The test sequences are:

TEST ALL – runs a test sequence through all functions.

TEST DIMMER – just the LED array is tested.

TEST EFFECTS – tests all effects functions within the head.

TEST PAN/TILT – tests the pan/tilt functions..

### **Fixture Information**

This menu allows you to call up the following fixture information in the display.

POWER ON TIME – displays number of hour's fixture has been powered on since manufacture (not user-resettable).

LED HOURS - displays number of hours fixture LED's have been powered on since manufacture (not user-resettable).

SW VERSION - displays the currently installed firmware (fixture software) version.

FIXTURE ID – user selectable fixture ID number (default is 0000).

RDM UID – displays the fixtures factory-set unique ID for identification in RDM systems.

TEMPERATURES – provides separate PCB temperature readouts.

### **Viewing live DMX values**

This menu allows you to view the current DMX values for any function.

Select the DMX LIVE menu and press ENTER.

Use the UP and DOWN buttons to select the function you wish to view.

You can select Strobe, Dimmer, Dimmer Fine, Cyan, Magenta, Yellow, Color, Gobo1, RGobo1, Gobo2, Prism, R-Prism, Iris, Zoom, Focus, Pan, Pan Fine, Tilt, Tilt Fine, Pan/Tilt Speed and Function.

### **Setting control values manually**

You can manually set control values. This may be useful when testing, or to use the fixture in a static setting without a DMX controller.

This menu also allows you to reset all functions in case something is out of position.

#### **Reset**

To reset functions, go to the MANUAL CONTROL menu and press ENTER. Use the UP and DOWN buttons to select RESET and press ENTER again.

Use the UP and DOWN buttons to select:

ALL (resets all functions in fixture)

PAN/TILT (resets just the pan/tilt motors)

EFFECTS (resets the effects in the head)

Once you have selected one of the above, press ENTER, then use UP and DOWN to select YES, then press ENTER to activate.

## **Setting values**

Go to the MANUAL CONTROL menu and press ENTER. Use the UP and DOWN buttons to select the function you wish to control.

You can select Strobe, Dimmer, Dimmer Fine, Cyan, Magenta, Yellow, Color, Gobo1, RGobo1, Gobo2, Prism, R-Prism, Iris, Zoom, Focus, Pan, Pan Fine, Tilt, Tilt Fine, Pan/Tilt Speed and Function.

Once you have selected a function, press ENTER, then use the UP and DOWN buttons to select a value from 0 to 255.

Press MENU to go back up and select a different function to control.

## **Pan/tilt correction when knocked**

Normally if the fixture is knocked or pushed while set to a position it will automatically return to the correct position. You can turn this feature off.

Go to the SERVICE menu and press ENTER.

Select P/T FEEDBACK and press ENTER.

Use the UP and DOWN buttons to select NO (sensors enabled, unit will correct) or YES (sensors disabled, unit will not correct).

Press ENTER to store the setting.

## **Calibration**

Martin® fixtures are adjusted and calibrated at the factory, and further calibration will normally only be necessary if fixtures have been subjected to abnormal shocks during transport, if normal wear and tear has affected alignment after an extended period of use. You can also use calibration to fine-tune fixtures for a particular location or application.

The Calibration menu lets you define offsets in the fixture software to adjust the positions of pan, tilt etc. relative to the DMX values the fixture receives. This allows you to fine-tune fixtures and achieve uniform behavior in different fixture.

### **Loading and storing default calibration offsets**

Go the SERVICE menu and press ENTER

Select CALIBRATION and press ENTER

Use UP and DOWN button to select function that requires calibration and press ENTER

Adjust value to desired level and press ENTER

### **Note**

LOAD DEFAULTS lets you erase the calibration offsets that you have defined and reload the default calibration offsets that are stored in memory.

SAVE DEFAULTS lets you overwrite the factory default calibration offsets that are stored in memory with any new offsets that you have defined. Overwriting is permanent, so once you have saved new default offsets, LOAD DEFAULTS will now load the new defaults, not the original factory defaults.

# Setting options by RDM

You can remotely configure the fixture over the DMX line using RDM. Martin® offers a range of suitable RDM-compatible controllers.

Martin® M-PC is a Windows-based application available from Martin® that lets you set up, manage and control a lighting installation from a PC that is connected to the installation via a DMX data link. To use Martin® M-PC, connect a PC running the application to the data link via a USB-to-DMX interface box such as the Martin® M-DMX.

A full list of the RDM functions that the fixture supports is given at the end of this chapter. These functions are generally referred to using the more specific term 'PIDs' or 'Parameter IDs'.

## Scanning for RDM devices on the data link

Before you can communicate with fixtures using RDM, you must send a scan command (also called a device discovery command) to all the devices on the data link so that the RDM controller can identify them. It does this by retrieving each device's factory-set unique identifier (UID). This process can take some time depending on the number of devices on the link.

To identify the fixtures on the link:

Check that the fixtures are correctly connected to the RDM controller on the data link and that power is applied to all fixtures.

1. In Martin® M-PC, go to RDM CONTROLLER → DISCOVER DEVICES.
2. Give the controller time to identify the devices on the link and prepare for communication with the devices.

## Getting status and setting options by RDM

The status and options listed in the table below can be read and set by RDM.

You can set an option on one fixture by sending a unicast RDM command to that one fixture only, or you can set the same option on all the fixtures on the data link by sending a broadcast RDM command to all the devices on the link.

For status reading, you can only use unicast RDM to read information from an individual fixture.

## RDM

As a minimum, the ERA 300 Profile fixture supports the following RDM functions:

### Device discovery

DISC_UNIQUE_BRANCH
DISC_MUTE
DISC_UN_MUTE

### Device management

	GET	SET
COMMS_STATUS	✓	
QUEUED_MESSAGE	✓	
STATUS_MESSAGES	✓	
STATUS_ID_DESCRIPTION	✓	
CLEAR_STATUS_ID		✓
SUPPORTED_PARAMETERS	✓	
DEVICE_INFO	✓	
DEVICE_MODEL_DESCRIPTION	✓	
MANUFACTURER_LABEL	✓	
DEVICE_LABEL	✓	✓
SOFTWARE_VERSION_LABEL	✓	
BOOT_SOFTWARE_VERSION_ID	✓	
DMX_PERSONALITY	✓	✓
DMX_PERSONALITY_DESCRIPTION	✓	
DMX_START_ADDRESS	✓	✓
SENSOR_DEFINITION	✓	
SENSOR_VALUE	✓	
DEVICE_HOURS	✓	
PAN_INVERT	✓	✓
TILT_INVERT	✓	✓
IDENTIFY_DEVICE	✓	✓
RESET_DEVICE		✓
LAST_STATE		✓
DIMMER_CURVE		✓

# Effects

This section describes the effects provided by the ERA 300 profile fixture. See ‘DMX protocol’ on page 25 for a full list of the DMX channels and values required to control the different effects.

## Dimming

Overall intensity can be precisely adjusted from 0 to 100% using 16-bit coarse and fine control.

## Strobe effects

An electronic shutter provides instant open and blackout, random and variable speed flash from 1 to 12 flashes per second, and pulse effects.

## Pan and tilt

The fixture’s head can be panned through 540° and tilted through 260° with 16-bit coarse and fine control. Using the control menus it is possible to invert pan or tilt movement. A position feedback circuit provides automatic position correction if the fixture is knocked out of position.

Light output can be set to black out when the head moves using the “Blackout Pan/Tilt move Enable” command on DMX channel 21.

## Colors

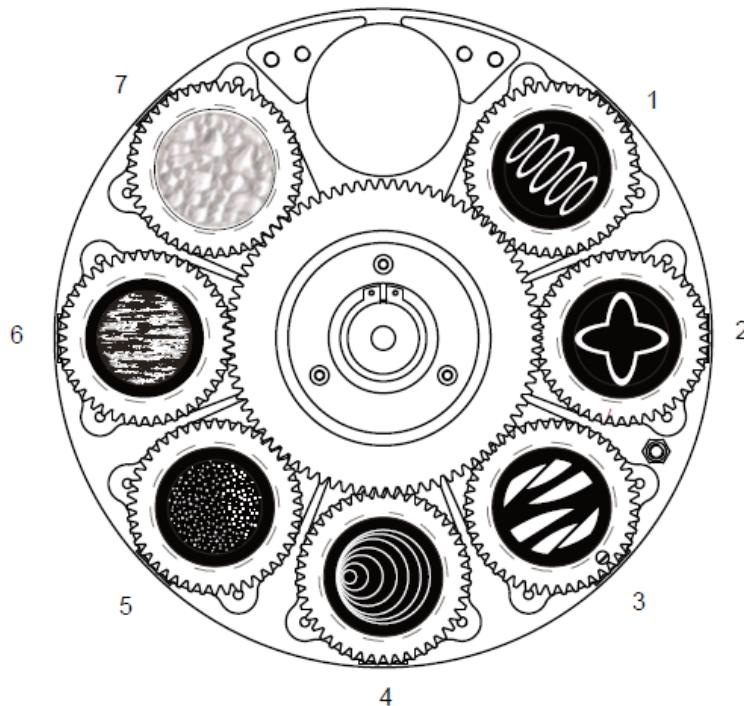
The fixture has fully variable CMY color mixing.

In addition, a color wheel provides the 9 colors listed below plus an open position. Colors can be selected in full position steps or continuously scrolled to give split colors. The wheel can be rotated at varying speeds, both clockwise and counter-clockwise.

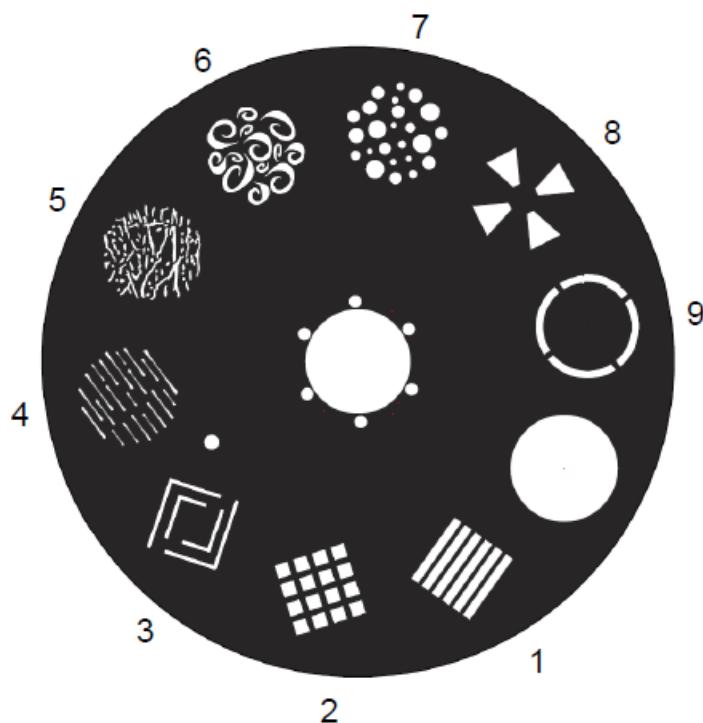
Slot 1: Open	Slot 6: Light Green
Slot 2: Light Blue	Slot 7: Magenta
Slot 3: Dark Green	Slot 8: Light Yellow
Slot 4: Pink	Slot 9: Dark Blue
Slot 5: Orange	Slot 10: Dark Red

## Gobos

The fixture contains two gobo wheels with gobo positions as shown below:



Gobo wheel 1 (rotating/indexing gobos)



Gobo Wheel 2 (static gobos)

On Gobo Wheel 1, individual gobos can be set to indexed positions, and rotated clockwise and counter-clockwise. Gobo shake is also available on both wheels.

When option “Blackout Color Move” or “Blackout Gobo Move” are set to Enable using DMX channel 21, the fixture blacks out during color and/or gobo changes.

## **Focus**

A motorized focus lens provides adjustment of gobo image sharpness.

## **Zoom**

A motorized zoom function allows you to adjust the beam angle of the output beam.

## **Prism**

The fixture incorporates a three-facet circular prism which can be inserted into the beam for split effects. The prism can be set to an indexed position or rotated clockwise or counter-clockwise.

## **Iris**

A motorized iris allows you to close down the beam.

# Maintenance



Read Safety information on page 6 before maintaining the fixture. Always comply with the safety instructions.

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

Excessive dust, smoke 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.

Disconnect mains power before cleaning or servicing the fixture.

Fixtures must be serviced in an area where there is no risk of anyone being injured by failing parts, tools or other materials.

## Cleaning

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 smoke or fog machines.
- High airflow rates (near air conditioning vents, for example).
- Presence of cigarette smoke.
- Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

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. If in doubt, consult your Martin dealer about a suitable maintenance schedule.

Use gentle pressure only when cleaning, and work in a clean, well-lit area. Do not use any product 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 the lens by wiping gently with a soft, clean lint-free cloth moistened with a weak detergent solution. Do not rub the surface 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.
4. Check that the fixture is dry before reapplying power.

## Fuse replacement

If you need to replace a fuse:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Unscrew the cap of the fuseholder (see Fixture overview on page 8) and remove the fuse. Replace with a fuse of the same size and rating only.
3. Reinstall the fuseholder cap before reapplying power.

## **Service and repairs**

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

Never try to repair the fixture by yourself as this may result in damage, malfunction and it may potentially void your product warranty. The equipment must only be serviced or repaired by an authorized Martin service technician.

Installation, on-site service and maintenance can be provided worldwide by the Martin Professional Global Service organization and its approved agents, giving owners access to Martin's expertise and product knowledge in a partnership that will ensure the highest level of performance throughout the product's lifetime. Please contact your Martin supplier for details.

# DMX protocol

Chan.	Value	Function
1		Shutter
	000-019	Blackout
	020-024	Open
	025-064	Strobe 1: fast -> slow
	065-069	Open
	070-084	Strobe 2: opening pulse, fast -> slow
	085-89	Open
	90-104	Strobe 3: closing pulse, fast -> slow
	105-109	Open
	110-124	Strobe 4: random strobe, fast -> slow
	125-129	Open
	130-144	Strobe 5:random opening pulse, fast -> slow
	145-255	Open
2	0-255	Dimmer 0-100%
3	0-255	Dimmer Fine 0-100%
4	000-255	Cyan 0-100%
5	000-255	Magenta 0-100%
6	000-255	Yellow 0-100%
7		Color
	000-006	Open
	007-012 (64)	Slot 1: Light Blue
	013-018 (71)	Slot 2: Dark Green
	019-025 (78)	Slot 3: Pink
	026-031 (92)	Slot 4: Orange
	032-037 (99)	Slot 5: Light Green
	038-044 (106)	Slot 6: Magenta
	045-050 (113)	Slot 7: Light Yellow
	051-056 (120)	Slot 8: Dark Blue
	057-063 (127)	Slot 9: Dark Red
	064-127 (*)	Color Index
	128-190	CW Fast->Slow
	191-192	Stop
	193--255	CCW Slow->Fast
8		Gobo 1 (rotating)
	000-007	Open
	008-015	Gobo1
	016-023	Gobo2

<i>Chan.</i>	Value	Function
	024-031	Gobo3
	032-039	Gobo4
	040-047	Gobo5
	048-055	Gobo6
	056-063	Gobo7
	064-072	Gobo1 Shaking Slow->Fast
	073-081	Gobo2 Shaking Slow->Fast
	082-090	Gobo3 Shaking Slow->Fast
	091-099	Gobo4 Shaking Slow->Fast
	100-108	Gobo5 Shaking Slow->Fast
	109-117	Gobo6 Shaking Slow->Fast
	118-127	Gobo7 Shaking Slow->Fast
	128-190	CW Fast->Slow
	191-192	Stop
	193-255	CCW Slow->Fast
9		Rotate Gobo 1
	000-127	Index 0 -> 360
	128-190	CW Fast->Slow
	191-192	Stop
	193-255	CCW Slow->Fast
10		Gobo 2
	000-006	Open
	007-012	Gobo1
	013-018	Gobo2
	019-025	Gobo3
	026-031	Gobo4
	032-037	Gobo5
	038-044	Gobo6
	045-050	Gobo7
	051-056	Gobo8
	057-063	Gobo9
	064-070	Gobo1 Shaking Slow->Fast
	071-077	Gobo2 Shaking Slow->Fast
	078-084	Gobo3 Shaking Slow->Fast
	085-091	Gobo4 Shaking Slow->Fast
	092-098	Gobo5 Shaking Slow->Fast
	099-105	Gobo6 Shaking Slow->Fast
	106-112	Gobo7 Shaking Slow->Fast
	113-119	Gobo8 Shaking Slow->Fast
	120-127	Gobo9 Shaking Slow->Fast

<i>Chan.</i>	Value	Function
11		
	128-190	CCW Fast->Slow
	191-192	Stop
	193-255	CW Slow->Fast
12		Prism
	000-010	No Effect
	011-127	Prism On
	128-255	Prism1 Macro1 – Macro32
13		Prism rotation
	000-127	Index 0 -> 360
	128-190	CW Fast->Slow
	191-192	stop
	193-255	CCW Slow->Fast
14	000-255	Iris Open->Close
15	000-255	Zoom Narrow->Wide
16	000-255	Focus Far->Near
17	000-255	Pan 0~100%
18	000-255	Tilt 0~100%
19	000-255	Tilt Fine 0~100%
20	000-255	Pan/Tilt Speed
21		Special Function
	000-069	No Effect
	070-079	BlackOut Pan/Tilt Move Enable
	080-089	BlackOut Pan/Tilt Move Disable
	090-099	BlackOut Color Move Enable
	100-109	BlackOut Color Move Disable
	110-119	BlackOut Gobo Move Enable
	120-129	BlackOut Gobo Move Disable
	130-199	No function
	200-209	Reset All
	210-219	Reset Effect
	220-229	Reset Pan/Tilt
	230-255	No Effect

# Control menus

To access the control menus, press the MENU button. Use the UP and DOWN buttons to navigate the menus. Select any required menu option using the ENTER button. For more information, see “Using the control menus” on page 14.

Default fixture settings are shown in **bold**.

Menu	Second-level menu	Sub-menu	Explanation
DMX Setup	DMX Address	1-491	Fixture DMX address setting
Personality	Pan Inverse	<b>No</b>	
		Yes	Invert DMX pan control: right → left
	Tilt Inverse	<b>No</b>	
		Yes	Invert DMX tilt control: down → up
	Dimmer Curve	Linear	Optically linear dimming curve
		<b>Square Law</b>	Square law dimming curve
		Inv SQ Law	Inverse square law dimming curve
		S-Curve	S-curve (fixture emulates incandescent lamp voltage linear RMS dimming curve)
	Dimmer Speed	<b>Fast</b>	Snap dimming (fast dimmer speed)
		Slow	Fade dimming (slow dimmer speed)
	No Data Mode	Blackout	If data connection is lost, fixture will blackout
		<b>Hold</b>	If data connection is lost, fixture holds latest received data value at all channels
	Cooling Mode	<b>Regulated fan</b>	Fan optimized for light intensity (temperature controlled by regulating fan speed, light output unaffected)
		Full	Fans set to full constant speed
	Display	Display Rotation <b>(Normal/Rotate 180)</b>	Display orientation normal/rotated 180°
		Display Intensity ('10-100)	Set display intensity in % (default = 100)
		Temperature unit( ° C / ° F)	All temperature readouts in C°/ F°
Default Settings	Factory Default	<b>No</b>	
		Yes	Return all settings (except calibrations) to factory defaults
Fixture Test	Test All		Run test sequence of all functions. To test a specific function, use Up/Down buttons to scroll through functions and pause. Press Enter to restart test sequence. Press Menu button to exit test.
	Test Dimmer		Run test sequence of LEDs only. To test a specific LED group, use Up/Down buttons

Menu	Second-level menu	Sub-menu	Explanation
Information			to scroll through groups and pause. Press Enter to restart test sequence. Press Menu button to exit test.
	Test Effects		Run test sequence of effects. To test a specific effect, use Up/Down buttons to scroll through effects and pause. Press Enter to restart test sequence. Press Menu button to exit test.
	Test Pan/Tilt	Pan	Run test sequence of pan functions. Press Menu button to stop test
		Tilt	Run test sequence of tilt functions. Press Menu button to stop test
	Power On Time		Display hours fixture has been powered on since manufacture (not user-resettable)
	LED hours		Display number of hours fixture LEDs have been powered on since manufacture (not user-resettable)
	SW Version		Displays currently active software version
	Fixture ID	0-9999	User-settable fixture ID number
	RDM UID		Displays fixture's unique RDM ID
	Temperatures	LED/CPU TEMP	Displays temperature in °C of LED / PCBs
DMX Live	Strobe	0-255	Scroll to see values being received on each DMX channel
	Dimmer		
	Dimmer Fine		
	Cyan		
	Magenta		
	Yellow		
	Color		
	Gobo1		
	RGobo1		
	Gobo2		
	Prism		
	R-Prism		
	Iris		
	Zoom		
	Focus		
	Pan		
	Pan Fine		
	Tilt		
	Tilt Fine		
	Pan/Tilt Speed		
Manual Control		All (No/Yes)	Reset fixture
		Pan/Tilt	Reset pan and tilt movement

Menu	Second-level menu	Sub-menu	Explanation
Main	Reset	(No/Yes)	
		Effects (No/Yes)	Individual reset of all effects
		Strobe	0-255
		Dimmer	
		Dimmer Fine	
		Cyan	
		Magenta	
		Yellow	
		Color	
		Gobo1	
		RGobo1	
		Gobo2	
		Prism	
		R-Prism	
		Iris	
		Zoom	
		Focus	
		Pan	
		Pan Fine	
		Tilt	
		Tilt Fine	
		Pan/Tilt Speed	
Service	P/T Feedback	On	Enable pan/tilt feedback sensors
		Off	Disable pan/tilt feedback sensors
	Calibration	Pan	
		Tilt	
		Cyan	
		Magenta	
		Yellow	
		Color	
		Gobo1	
		RGobo1	
		Gobo2	
		Prism	
		R_Prism	
		Iris	
		Zoom	
		Focus	
		Load Defaults	Load factory default calibration settings

Menu	Second-level menu	Sub-menu	Explanation
		Save Setting	Replace factory default calibration settings with current calibration settings

# Troubleshooting

This section describes a few common problems that may occur during operation and provides some suggestions for easy troubleshooting:

Symptom	Potential cause	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. Replace the fixture fuse.
One of the control channels is unresponsive or only responds intermittently.	Damaged step motor or cable connection between the head and body.	Contact your Martin authorized distributor or service center for assistance.
Fixture does not respond to DMX control.	Fault in the DMX network due to connector or cable damaged, or incorrect DMX addressing, or potential interference from proximity to a high voltage installation.	Check that the fixture display is flashing to show that DMX is not being received, and if so, check all DMX cables and connections to ensure the integrity of the physical network. Ensure that the DMX network is terminated. Check that the components in the DMX network all use standard DMX polarity. Ensure that the fixture is set to the correct DMX address, one that matches that set on the DMX control device. Check the pins on the connectors from the previous fixture in the DMX network. Attempt to control the fixture with another DMX control device. Move the fixture if it is being operated very close to an unshielded high-voltage installation.

# Specifications

## Physical

Weight.....	17 kg (38lbs)
Dimensions .....	375 x 217 x 564 mm (15 x 8 x 22 in)

## Dynamic Effects

Color mixing.....	CMY, independently variable 0-100%
Color wheel.....	9 color filters plus open
Rotating gobo wheel.....	7 gobos plus open, wheel rotation, gobo rotation, indexing and shake
Static gobo wheel.....	9 gobos plus open, wheel indexing, rotation and shake
Beam effects.....	Rotating three-facet prism
Zoom.....	Motorized
Focus.....	Motorized
Iris.....	0-100%
Electronic 'shutter' effect .....	Strobe effect, pulse effects, instant open and blackout
Electronic dimming.....	0 - 100%, four dimming curve options
Pan .....	540°, coarse & fine control and speed
Tilt .....	260°, coarse & fine control and speed

## Control and Programming

Control options .....	DMX
RDM .....	Implemented
DMX channels.....	21ch
Setting and addressing .....	Control panel with backlit LCD display
DMX compliance.....	USITT DMX512/1990

## Optics and Photometrics

Light source.....	260W LED engine
Zoom range.....	13° - 28°
Fixture luminous output.....	9500 lumens
CRI .....	>70
CCT .....	6500 Kelvin
Minimum LED lifetime .....	20000 hours (to >70% luminous output)*

\*Manufacturer's figure obtained under manufacturer's test conditions

## Construction

Color.....	Black/White
Housing .....	High-impact flame-retardant thermoplastic
Protection rating .....	IP 20

## Installation

Mounting points.....	Two quarter-turn brackets for rigging clamps
Location.....	Indoor use only, must be fastened to surface or structure
Orientation.....	Any

## Connections

AC power input.....	Neutrik PowerCON TRUE1
AC power throughput.....	Neutrik PowerCON TRUE1
DMX data in/out .....	3-pin & 5-pin locking XLR

## Electrical

AC power .....	100-240V nominal, 50/60 Hz
Power supply unit.....	Auto-ranging electronic switch mode
Fuse .....	T 6.3A

### **Typical power and current**

120V, 60Hz.....	3.13A, 374W, PF 0.999
230V, 50Hz.....	1.62A, 362W, PF 0.993

*Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.*

### **Approvals**

EU safety.....	EN 60598-2-17 (EN 60598-1), EN 62471, EN 62493
EU EMC .....	EN 55015; EN 55032; EN 55103-2; EN 61000-3-2,-3; EN 61547
US safety.....	UL 1573
US EMC .....	FCC Part 15 Class B
Canadian safety .....	CSA C22.2 No. 166
Canadian EMC .....	ICES-003 Class B, ICES-005 Class B
Australia/NZ.....	RCM

### **Thermal**

Cooling .....	Forced air (temperature regulated, low noise)
Maximum ambient temperature ( $T_a$ max.) .....	40° C
Minimum ambient temperature ( $T_a$ min) .....	0° C

### **Included Items**

- Power cable, 1.5 m (4.9 ft.) 18AWG/0.75 mm<sup>2</sup> without mains plug
- Omega brackets for rigging clamp attachment

### **Accessories**

Power Input Cable, H07RN-F, 2.5 mm <sub>2</sub> , 14 AWG,	
Neutrik TRUE1 NAC3FX-W to bare ends, 1.5 m (4.9 ft.) .....	P/N 91611797
Power Input Cable, H07RN-F, 2.5 mm <sub>2</sub> , 14 AWG,	
Neutrik TRUE1 NAC3FX-W to bare ends, 5 m (16.4 ft.) .....	P/N 91611786
Power Input Cable, SJOOW, AWG 12,	
Neutrik TRUE1 NAC3FX-W to bare ends, 1.5 m (4.9 ft.) .....	P/N 91610173
Power Input Cable, SJOOW, AWG 12,	
Neutrik TRUE1 NAC3FX-W to bare ends, 5 m (16.4 ft.) .....	P/N 91610174

### **Relay cables, 16 A, for relaying power in chains**

Power Relay Cable, H07RN-F, 2.5 mm <sub>2</sub> ,	
Neutrik TRUE1 to TRUE1, 0.45 m (1.5 ft.).....	P/N 91611784
Power Relay Cable, H07RN-F, 2.5 mm <sub>2</sub> ,	
Neutrik TRUE1 to TRUE1 1.2 m (3.9 ft.).....	P/N 91611785
Power Relay Cable, H07RN-F, 2.5 mm <sub>2</sub> ,	
Neutrik TRUE1 to TRUE1 2.5 m (8.2 ft.).....	P/N 91611796
Power Relay Cable, SJOOW, AWG 12,	
Neutrik TRUE1 to TRUE1, 0.45 m (1.5 ft.).....	P/N 91610170
Power Relay Cable, SJOOW, AWG 12,	
Neutrik TRUE1 to TRUE1, 1.2 m (3.9 ft.).....	P/N 91610171
Power Relay Cable, SJOOW, AWG 12,	
Neutrik TRUE1 to TRUE1, 2.5 m (8.2 ft.).....	P/N 91610172

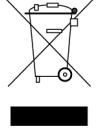
### **Power connectors:**

Neutrik PowerCON TRUE1 NAC3MX-W (male).....	P/N 91611788
Neutrik PowerCON TRUE1 NAC3FX-W (female).....	P/N 91611789

**Ordering Information**

Martin ERA 300 Profile in cardboard box: ..... P/N 9025109547  
Martin ERA 300 Profile White in cardboard box: ..... P/N 9025109886

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

	<b>Disposing of this product</b>
	<p>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 Martin products</p>

### **Photobiological Safety Warning**

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



### **Supplier's Declaration Of Conformity**

Declarations of conformities can be downloaded for the Martin ERA 300 Profile from [martin.com](http://martin.com)



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**www.martin.com · Harman Professional Solutions · 8500 Balboa Blvd · Northridge  
CA 91329 · United States**