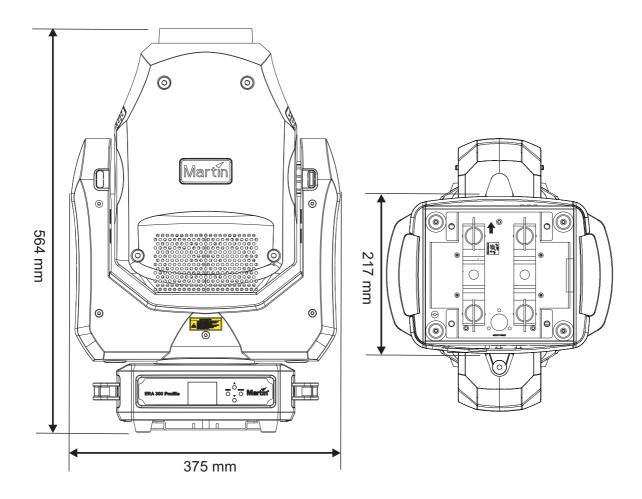
ERA 300 Profile

User manual





Dimensions



All dimensions are given in millimeters

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Table of contents

	2
Safety information	4
Introduction	8
Before using the product for the first time	8
Fixture overview	9
Physical installation	10
Fixture location	10
Mounting the fixture	10
Fastening the fixture to a flat surface	10
Mounting the fixture on a truss	10
AC power connection	
Linking fixtures to power in a chain	
Data network requirements	13
Tips for reliable data transmission	
Connecting the data link	
Fixture Setup	
Using the control menus	
Setting DMX address	
Personality settings	
Set all settings to factory default	
Fixture Test	
Fixture Information	
Setting options by RDM	
Scanning for RDM devices on the data link	
Getting status and setting options by RDM	
RDM	
Effects	
Dimming	21
<u> </u>	
Strobe effects	21
Strobe effects Pan and tilt	21 21
Strobe effects	21 21 21
Strobe effects	21 21 21
Strobe effects Pan and tilt Colors Gobos Focus	21 21 21 22
Strobe effects Pan and tilt Colors Gobos Focus Zoom	21 21 21 22 23
Strobe effects Pan and tilt Colors Gobos Focus Zoom Prism	21 21 22 22 23 23
Strobe effects. Pan and tilt. Colors. Gobos. Focus. Zoom. Prism.	21 21 22 23 23 23
Strobe effects Pan and tilt Colors Gobos Focus Zoom Prism Iris Maintenance	21 21 22 23 23 23 23
Strobe effects. Pan and tilt. Colors. Gobos. Focus. Zoom. Prism. Iris. Maintenance Cleaning.	2121222323232323
Strobe effects. Pan and tilt. Colors. Gobos. Focus. Zoom. Prism. Iris. Maintenance. Cleaning. Fuse replacement.	2121222323232324
Strobe effects Pan and tilt Colors Gobos Focus Zoom Prism Iris Maintenance Cleaning Fuse replacement Service and repairs	212122232323242424
Strobe effects Pan and tilt Colors Gobos Focus Zoom Prism Iris Maintenance Cleaning Fuse replacement Service and repairs. DMX protocol.	2121222323232424242425
Strobe effects Pan and tilt Colors Gobos Focus Zoom Prism Iris Maintenance Cleaning Fuse replacement Service and repairs	2121222323232424242526

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 (see 'Protection from eye injury' on page 6 for full details). This lighting fixture produces intense light output that may be hazardous if suitable precautions are not taken. Do not view the light output with optical instruments or any device that may concentrate the beam. Do not look at operating light source. Eye injury may result.

This fixture presents risks of severe injury or death due to burn and fire hazards, electric shock and falls if the safety precautions in this manual are not followed.

This lighting fixture is for professional use only and must be installed by a qualified technician. It is not for household use. Respect all locally applicable laws, codes and regulations when installing, operating or servicing the fixture.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.



Read this manual before installing, powering or servicing the fixture. Follow the safety precautions and observe all warnings in this manual and printed on the fixture.

The latest version of this manual is available for download from the ERA 300 area of the Martin® website at www.martin.com. Before you install, operate or service the ERA 300, check the Martin website and make sure that you have the latest user documentation for the fixture. Document revisions are indicated at the bottom of page 2.

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. Keep this user manual for future use.

If you have questions about how to install, service or operate the fixture safely, please contact Harman Professional Technical support:

- For support in N. America, please contact HProTechSupportUSA@harman.com Phone: (844) 776-4899
- For technical support outside North America, please contact your national distributor.



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.

If you supply the fixture with mains power at 100-120 V in countries outside North America, use a 2.5 mm² power input cable as listed under 'Accessories' on page 35.

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. Do not install the fixture in a location where flooding may occur.



Protection from burns and fire

Do not operate the fixture if the ambient temperature (Ta) 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.

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.

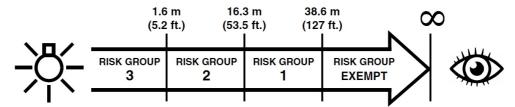
Do not attempt to bypass thermostatic switches or fuses.

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

This fixture corresponds to Risk Group 3 according to EN 62471 when all photobiological risks are considered and Risk Group 2 product according to IEC/TR 62778 for blue light only. It emits possibly hazardous optical radiation. It falls into the Risk Group categories shown below according to both EN 62471 and IEC/TR 62778 under worst-case conditions:



At a distance of less than 1.6 m (5.2 ft.) from the fixture, the light output can potentially cause eye or skin injury before an exposed person's natural aversion responses (blink reflex and reaction to skin discomfort) can protect them. At distances greater than 1.6 m (5.2 ft.), potential eye and skin injury hazards from the light output are normally prevented by natural aversion reflexes.

Position the fixture so that persons cannot be exposed to the fixture's light output at a distance of less than 1.6 m (5.2 ft.) from the fixture and so that prolonged staring into the light output at less than 16.3 m (53.5 ft.) from the fixture is not expected.

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

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.

Do not look at operating light source. Eye injury may result.

Disconnect the fixture from power at all times when the fixture is not in use.

Provide well-lit conditions to reduce the pupil diameter of anyone working on or near the fixture.



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 260 W 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 and a motorized iris, making the fixture ideal for live shows, TV events, stage, concerts, and nightclubs.

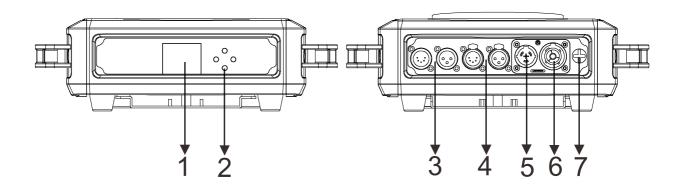
The ERA 300 Profile can be controlled using any DMX-compliant controller and can be remotely configured by RDM. It is supplied with this user manual, a 1.5 m (4.9 ft.) power cable ready for a local power plug (not included), and two mounting brackets for attachment of suitable user-supplied rigging clamps.

Before using the product for the first time

- 1. Read 'Safety information' on page 4 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 input 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.
- Check the support pages on the Martin website at 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 12.

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' starting on page 4 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 4.
- 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 suitable rigging clamps such as a G-clamp or a half-coupler clamp (see illustration on right) fastened to the included omega brackets.

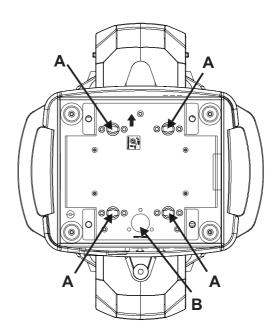
To clamp the fixture to a truss:

- 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.
- 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.





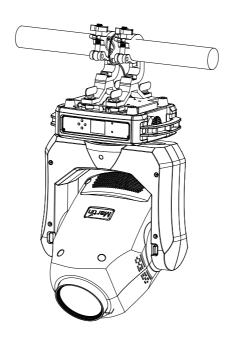
- Fasten the omega brackets to mounting holes A
 on the base of the fixture using the bracket's
 quarter-turn fasteners. Turn quarter-turn
 fasteners a full 90° to lock them (see illustration
 on right).
- 5. Working from a stable platform, hang the fixture vertically on the truss and fasten the rigging 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 below) 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' starting on page 4 before installing the fixture.



Warning! The power input cable supplied with the fixture is rated 6 A and can safely 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 devices to the MAINS OUT socket, see 'Linking fixtures to power in a chain' below.

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. Alternatively, you can install a power plug (not supplied) that is suitable for your local power outlets 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 🖶
US system	Black	White	Green
EU system	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 6 A and can safely supply power to one fixture only. If you want to use the MAINS OUT socket on the fixture to relay power to the next fixture in a daisy-chain, you must replace the supplied power input cable with a 16 A rated 12 AWG or 2.5 mm² power input cable available as an accessory from Martin (see 'Accessories' on page 35). To relay power between fixtures you must use 16 A rated power relay cables available as accessories from Martin (also listed under 'Accessories' on page 35).

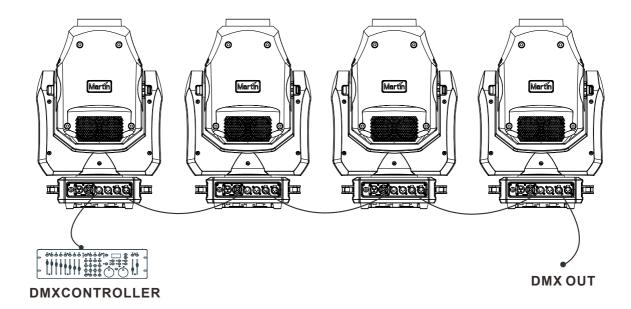
Using the 12 AWG or 2.5 mm² power input and power relay cables available as accessories from Martin, you can link:

- 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 a 12 AWG or 2.5 mm² power input cable, use a grounding type (earthed) plug with integral cable grip that is rated minimum 16 A and has 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 RDM-compatible 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 (+).

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.

To split the link into branches, use an opto-isolated RDM-compatible splitter such as the Martin RDM 5.5 Splitter. Do not split the link by connecting to both the 3-pin and 5-pin output sockets as this may cause data errors. If you use a splitter, terminate each branch of the link.

Connecting the data link

To connect the fixture to data:

- 1. Connect the DMX data output from the controller to the closest fixture's male XLR DMX input connector.
- 2. Connect the first fixture's DMX output to the DMX input of the next fixture and continue connecting fixtures output to input.
- 3. 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 19.

A complete map of the control menu structure and brief explanations of their purposes can be found on page 29. 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 001, then it uses channels 1 to 21 inclusive. The following fixture in the DMX chain can then be set to a DMX address of 013.

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 Light intensity control is finer at low levels and coarser at high

LAW levels

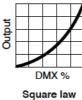
INV SQ LAW (Inverse square law) Light intensity control is coarser at low

levels and finer at high levels.

S-CURVE Light intensity control is finer at low levels and high levels and

coarser at medium levels.









Optically linear

Inverse square law

are law S-curve

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 FANS 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 meny 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 LEDS 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 time in hours that fixture has been powered on since manufacture (not user-resettable).
- LED HOURS displays time in hours that 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 fixture's 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 scroll through the effects and press ENTER to select the one you wish to view. You can select from 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.

- 1. Go to the SERVICE menu and press ENTER.
- 4. Select P/T FEEDBACK and press ENTER.
- 5. Use the UP and DOWN buttons to select NO (sensors enabled, unit will correct) or YES (sensors disabled, unit will not correct).
- 6. 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

To store a calibration offset:

- 1. Go the SERVICE menu and press ENTER
- 2. Select CALIBRATION and press ENTER
- 3. Use UP and DOWN button to select function that requires calibration and press ENTER
- 4. 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 an RDM-compatible DMX controller.

A full list of the RDM functions that the ERA 300 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.

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. See 'DMX protocol' on page 26 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

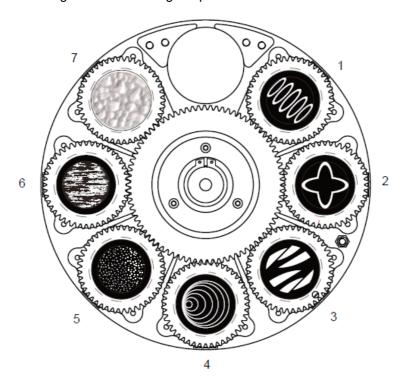
The fixture has fully variable CMY color mixing.

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.

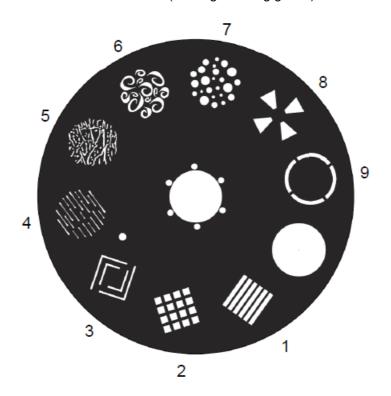
Slot 1: Open Slot 6: Light Green
Slot 2: Light Blue Slot 7: Magenta
Slot 3: Dark Green Slot 8: Light Yellow
Slot 4: Pink Slot 9: Dark Blue
Slot 5: Orange Slot 10: Dark Red

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



Warning! Read 'Safety information' starting on page 4 before carrying out maintenance work on the fixture.

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 9) 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.

Do not 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
		Shutter
	000-019	Blackout
	020-024	Open
	025-064	Strobe (fast → slow)
	065-069	Open
	070-084	Strobe random
	085-089	Strobe 2: opening pulse, fast → slow
1	090-104	Open
	105-109	Strobe 3: closing pulse, fast → slow
	110-124	Open
	125-129	Strobe 4: random strobe, fast → slow
	130-144	Open
	145-149	Strobe 5: random opening pulse, fast → slow
	150-255	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	Color 1: Light Blue
	013-018	Color 2: Dark Green
	019-025	Color 3: Pink
	026-031	Color 4: Orange
	032-037	Color 5: Light Green
	038-044	Color 6: Magenta
	045-050	Color 7: Light Yellow
	051-056	Color 8: Dark Blue
	057-063	Color 9: Dark Red
	064-127	Color Index
	128-190	Wheel rotation CW fast → slow
	191-192	Stop
	193255	Wheel rotation CCW slow → fast

8	Gobo Wheel 1: gobo selection		
	000-007	Open	
	008-015	Gobo 1	
	016-023	Gobo 2	
024-031		Gobo 3	
	032-039	Gobo 4	
	040-047	Gobo 5	
	048-055	Gobo 6	
	056-063	Gobo 7	
	064-072	Gobo 1 shake	
	073-081	Gobo 2 shake	
	082-090	Gobo 3 shake	
	091-099	Gobo 4 shake	
	100-108	Gobo 5 shake	
	109-117	Gobo 6 shake	
	118-127	Gobo 7 shake	
	128-190	Gobo wheel 1 rotation CW fast → slow	
	191-192	Stop	
	193-255	Gobo wheel 1 rotation CCW slow → fast	
9		Gobo Wheel 1: gobo indexing/rotation	
	000-127	Gobo indexing 0 → 360	
	128-190	Gobo rotation CCW fast → slow	
	191-192	Stop	
	193-255	Gobo rotation CW slow → Fast	
10		Gobo 2	
	000-006	Open	
	007-012	Gobo 1	
	013-018	Gobo 2	
	019-025	Gobo 3	
	026-031	Gobo 4	
	032-037	Gobo 5	
	038-044	Gobo 6	
	045-050	Gobo 7	
	051-056	Gobo 8	
	057-063	Gobo 9	
	064-070	Gobo 1 shake	
	071-077	Gobo 2 shake	
	078-084	Gobo 3 shake	
	085-091	Gobo 4 shake	

	092-098	Gobo 5 shake
	099-105	Gobo 6 shake
	106-112	Gobo 7 shake
	113-119	Gobo 8 shake
	120-127	Gobo 9 shake
	128-190	Gobo wheel 2 rotation CCW fast → slow
	191-192	Stop
	193-255	Gobo wheel 2 rotation CW slow → fast
11		Prism
	000-010	No effect
	011-127	Prism on
	128-255	Prism Macro 1 – Macro 32
12		Prism rotation
	000-127	Index 0 → 360
	128-190	CW fast → slow
	191-192	Stop
	193-255	CCW slow → fast
13	000-255	Iris open → close
14	000-255	Zoom
15	000-255	Focus
16	000-255	Pan 0~100%
17	000-255	Pan fine 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 function
	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 function

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 15.

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

Menu	Second-level menu	Sub-menu	Explanation
DMX Setup	DMX Address	1-491	Fixture DMX address setting
		No	
	Pan Inverse	Yes	Invert DMX pan control: right -left
	Tile lassacea	No	
	Tilt Inverse	Yes	Invert DMX tilt control: down -up
		Linear	Optically linear dimming curve
		Square Law	Square law dimming curve
	Dimmer Curve	Inv SQ Law	Inverse square law dimming curve
		S-Curve	S-curve (fixture emulates incandescent lamp voltage linear RMS dimming curve)
	5. 6 .	Fast	Snap dimming (fast dimmer speed)
	Dimmer Speed	Slow	Fade dimming (slow dimmer speed)
Personality		Blackout	If data connection is lost, fixture will blackout
1 Clouding	No Data Mode	Hold	If data connection is lost, fixture holds latest received data value at all channels
		Regulated fans	Fans optimized for light intensity (temperature controlled by regulating
	Cooling Mode		fan speed, light output unaffected)
		Full	Fans set to full constant speed
		Display Rotation	
		(Normal /Rotate 180)	Display orientation normal/rotated 180°
	Display	Display Intensity	Cat display intensity in 9/ (default 100)
		('10- 100)	Set display intensity in % (default = 100)
		Temperature unit	All temperature readoute in C°/ F°
		(°C / °F)	All temperature readouts in C°/ F°
Default		No	
Default Settings	Factory Default	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.

Menu	Second-level menu	Sub-menu	Explanation
	Test Dimmer		Run test sequence of LEDs only. To test a specific LED group, use Up/Down buttons 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.
	Tabl Day (Till	Pan	Run test sequence of pan functions. Press Menu button to stop test
	Test Pan/Tilt	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)
Information	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
	Strobe		
	Dimmer		
	Dimmer Fine		
	Cyan		
	Magenta		
	Yellow		
	Color		
	Gobo1		
	RGobo1		
DMX Live	Gobo2		
DIVIN LIVE	Prism		Soroll to soo values being received on
	R-Prism	0-255	Scroll to see values being received on each DMX channel
	Iris		
	Zoom		
	Focus		
	Pan		
	Pan Fine		
	Tilt	-	
	Tilt Fine		
	Pan/Tilt Speed		

		All (No/Yes)	Reset fixture
	Reset	Pan/Tilt (No /Yes)	Reset pan and tilt movement
		Effects (No/Yes)	Individual reset of all effects
	Strobe		
	Dimmer		
	Dimmer Fine		
	Cyan		
	Magenta		
	Yellow		
	Color		
Manual	Gobo1		
Control	RGobo1		
	Gobo2	0-255	Individual setting of values on each DMX
	Prism	0-255	channel
	R-Prism		
	Iris		
	Zoom		
	Focus		
	Pan		
	Pan Fine		
	Tilt		
	Tilt Fine		
	Pan/Tilt Speed		
	P/T Feedback	On	Enable pan/tilt feedback sensors
	F/I Feedback	Off	Disable pan/tilt feedback sensors
		Pan	
		Tilt	
		Cyan	
		Magenta	
		Yellow	
Service		Color	
Service	Calibration	Gobo1	
	Cambration	RGobo1	
		Gobo2	
		Prism	
		R Prism	
		Iris	
		Zoom	
		Focus	

Load Defaults	Load factory default calibration settings
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,	Ensure that the mains supply is connected and supplying power to the fixture.
	faulty connector or damaged cable.	Ensure that the fixture's Power On LED is lit.
		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's DMX LED is on, and if not, 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, and that the address matches what is 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	
	nent)217 mm (8.6 in.)
Height	564 mm (22.3 in.)
Dynamic Effects	
Color mixing	CMY, independently variable 0-100%
	us open, wheel rotation, gobo rotation, indexing and shake
	9 gobos plus open, wheel indexing, rotation and shake
	Rotating three-facet prism
	Motorized
	Motorized
	Strobe effect, pulse effects, instant open and blackout
T III	200 , coalse & line control and speed
Control and Programming	
	DMX, RDM
	21
	Control panel with backlit LCD display
DMX compliance	USITT DMX512/1990
Optics and Photometric Data	
Light source	260 W LED engine
	260 W LED engine13° - 28°
Zoom range	
Zoom range Fixture luminous output CRI	
Zoom range	
Zoom range	
Zoom range	
Zoom range Fixture luminous output CRI CCT Minimum LED lifetime	
Zoom range	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI CCT Minimum LED lifetime *Manufacturer's figure obtained unde Construction Color Housing Protection rating Installation Mounting points Location Orientation Connections	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output CRI	
Zoom range Fixture luminous output	

Typical power and current	
120V, 60Hz	
Measurements made at nominal voltage with all LEDs at full intensity. Allow for a devia	ation of +/- 10%.
Approvals Global CB Certification/IECEE IEC 60598-2-17 EU safety EN 60598-2-17 (EN 60598-1), EN 62 EU EMC EN 55015; EN 55032; EN 55103-1,-2; EN	471, EN 62493 N 61000-3-2,-3;
US safety	UL 1573 Part 15 Class B C22.2 No. 166 ES-003 Class A
Thermal	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	40° C
Included Items Power cable, 1.5 m (4.9 ft.), 6 A rated, 18 AWG / 0.75 mm², without mains plu 2 x omega brackets for rigging clamp attachment	ıg
Accessories	
Power input cables, 16 A, for connection to power in chains	
Power Input Cable, H07RN-F, 2.5 mm ² , bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.)	P/N 91611797
to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.)	P/N 91611786
to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.)	
to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.)	P/N 91610174
Power relay cables, 16 A, for relaying power in chains Power Relay Cable, H07RN-F, 2.5 mm2,	
Neutrik TRUE1 male to TRUE1 female, 0.45 m (1.5 ft.)	P/N 91611784
Power Relay Cable, H07RN-F, 2.5 mm2, Neutrik TRUE1 male to TRUE1 female, 1.2 m (3.9 ft.)	P/N 91611785
Power Relay Cable, H07RN-F, 2.5 mm2, Neutrik TRUE1 male to TRUE1 female, 2.5 m (8.2 ft.)	P/N 91611796
Power Relay Cable, SJOOW, AWG 12, Neutrik TRUE1 male to TRUE1 female, 0.45 m (1.5 ft.)	
Power Relay Cable, SJOOW, AWG 12, Neutrik TRUE1 male to TRUE1 female, 1.2 m (3.9 ft.)	
Power Relay Cable, SJOOW, AWG 12, Neutrik TRUE1 male to TRUE1 female, 2.5 m (8.2 ft.)	
Power connectors	
Neutrik PowerCON TRUE1 NAC3MX-W (male)	
Related items	
Martin Companion software suite (incl. uploader)Free download from w Martin Companion Cable USB/DMX hardware interface Martin RDM 5.5 Splitter	P/N 91616091

Ordering Information

Martin ERA 300 Profile in cardboard box	P/N 9025115156
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

FCC Compliance

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Supplier's Declaration of Conformity

Harman Professional, Inc. have issued an FCC Supplier's Declaration of Conformity for this product. The Declaration of Conformity is available for download from the ERA 300 area of the Martin website at www.martin.com

Recycling used electrical and electronic equipment



Disposing of this product

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

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 88 x 43 mm, in black on a yellow background.

RISK GROUP 2

(IEC/TR 62778)

Concerning blue light only.



RISK GROUP 3 (IEC/EN 62471)

CAUTION. Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

WARNING. Possibly hazardous optical radiation emitted from this product. Do not look at operating lamp. Eye injury may result.

GROUPE DE RISQUE 3 (IEC/EN 62471)

PRUDENCE. Produit à émission de radiations visibles potentiellement dangereuses. Ne pas fixer le faisceau en fonctionnement. Risque de lésions oculaires.

AVERTISSEMENT. Produit à émission de radiations visibles potentiellement dangereuses. Ne pas regarder le faisceau en fonctionnement. Risque de lésions oculaires.

