Mania **SCX600/700**

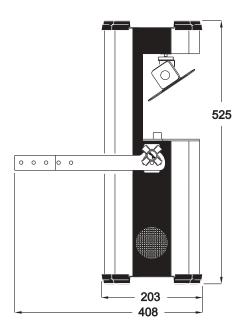
user manual

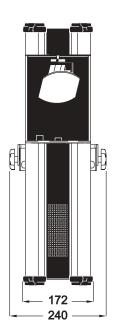




DIMENSIONS

All dimensions are in millimeters





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Mania SCX600/700 specifications



1. Introduction

Thank you for selecting a fixture from the Martin Mania SCX600/700 series. This series of automated moving-mirror projectors has the following features:

- · 9 full colors plus white
- 7 interchangeable rotating gobos including 2 glass gobos (SCX600) or 3 glass gobos (SCX700)
- · 198° pan and 72° tilt
- · Adjustable focus
- · DMX control with two DMX modes: DMX mode 2 gives extended functionality on additional channels
- · Auto triggering and music triggering modes
- · Stand-alone single fixture and synchronized (master/slave) modes
- Professionally designed pre-programmed effects macros
- Rotating gobo indexing (SCX700 only)
- Long-life 250 Watt halogen lamp (SCX600)
- Long-life 150 Watt discharge lamp (SCX700)

Unpacking

The packing material is carefully designed to protect the fixture during shipment - always use it to transport the fixture.

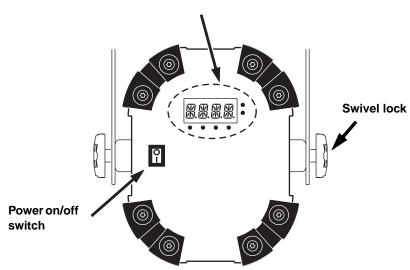
The Mania SCX600/700 is supplied with:

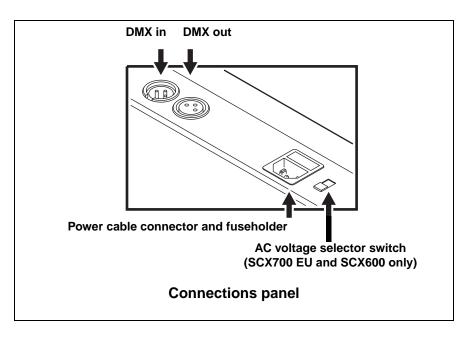
- Lamp (the SCX700 discharge lamp is supplied separately to avoid damage during shipping and must be installed before use – see "Installing the SCX700 lamp" on page 26)
- Power cable and 5 meter (16.4 ft.) RS-485 XLR cable for data link
- User manual
- Mounting U-bracket with fasteners
- Allen key

Important! The mirror assembly is secured for transport. Before applying power, remove all transport packaging, remove the protective film from the mirror and cut and remove all plastic tie-wraps holding the mirror!

Mania SCX600/700 overview

Control panel and display





Safety information

Warning!

This product is for professional use only. It is not for household use.

This product presents risks of lethal or severe injury due to fire and heat, electric shock, ultraviolet radiation, lamp explosion, and falls. **Read this manual** before installing or powering the fixture, follow the safety precautions listed below and observe all warnings in this manual and on the fixture. If you have any questions about how to operate the fixture safely, please contact your Martin dealer or call the Martin 24-hour service hotline.

Protecting yourself and others from electric shock and injury

- Disconnect the fixture from AC power before removing or installing the lamp, fuse, or any part, and when not in use.
- · Always ground (earth) the fixture electrically.
- Do not use the fixture with a damaged power cable or cord cap (mains plug).
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.
- · Do not expose the fixture to rain or moisture.
- Refer all service not described in this manual to a Martin service technician.
- · Never operate the fixture with missing or damaged lenses.
- Glass lenses must be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.
- Never operate the fixture if covers are open or if any component is missing, damaged or deformed: an unshielded discharge lamp emits dangerous UV radiation that can cause burns and eye damage.
- Protect your hands and eyes with gloves and safety glasses when changing the lamp.
- Do not stare directly into the light output. Never look at an exposed lamp while it is lit.
- · Replace the lamp if it becomes defective or worn out.

Protecting yourself and others from burns and fire

 Never attempt to bypass the thermostatic switch or fuses. Always replace defective fuses with ones of the specified type and rating.

- Keep all combustible materials (for example fabric, wood, paper) at least 0.1 meters (4 inches) away from the fixture. Keep flammable materials well away from the fixture.
- Do not illuminate surfaces within 1 meter (3.3 feet) of the fixture.
- Provide a minimum clearance of 0.1 meters (4 inches) around fans and air vents
- · Never place filters or other materials over the lens or mirror.
- Allow the fixture to cool before handling. Allow the fixture to cool for at least 20 minutes before opening the fixture or removing the lamp.
- Do not modify the fixture or install other than genuine Martin parts.
- Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).

Protecting yourself and others from injury due to falls

- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.
- Block access below the work area and work from a stable platform whenever installing or removing the fixture.

2. Installation

AC power

The Mania SCX600/700 is supplied set up to match local voltage and frequency settings. The factory setting is shown on the serial number label.

Warning!

For protection from fire and electric shock, the fixture must be grounded (earthed). The power supply must have overload and ground-fault (earth-fault) protection.

Check that power cables are undamaged and rated for the current requirements of all connected devices before use.

Ensure that the fixture's voltage setting matches your local AC power supply before applying power.

Important! Do not connect the fixture to a dimmer system, as this will cause damage that is not covered by the product warranty.

Mania SCX600 power settings

All Mania SCX600 models can be set to 115 V, 60 Hz or 230 V, 50 Hz AC power using the switch on the connections panel.

- Set the switch to 115 V if you have 110-120 V, 60 Hz AC power.
- Set the switch to 230 V if you have 220-240 V, 50 Hz AC power.

Mania SCX700 power settings

- Mania SCX700 EU models can be set to 230 or 240 V, 50 Hz AC power using the switch on the connections panel. Use the 230 V setting if you have 220-230 V power, and use the 240 V setting if you have 230-240 V.
- Mania SCX700 US models do not have a switch and are supplied set up for 110-120 V, 60 Hz AC power.

Installing a cord cap on the power cable

The power cable must be fitted with a grounding-type cord cap (earthed mains plug) that matches your AC power distribution system. Consult a qualified electrician if you have any doubts about proper installation.

If you need to fit a cord cap, follow the cord cap manufacturer's instructions, connecting the yellow and green wire to ground (earth), the brown wire to live, and the blue wire to neutral. The table below shows some pin identification schemes:

Wire	Pin	Marking	Screw color
brown	live	"L"	yellow or brass
blue	neutral	"N"	silver
yellow/green	ground	<u></u>	green

Table 1: Cord cap wiring

Rigging the fixture

The Mania SCX600/700 must be mounted by means of its adjustable U-bracket. Do not install the fixture by any other means, as this can cause the fixture to overheat.

The U-bracket can be either fastened to a flat surface or attached to a rigging clamp. Suitable rigging clamps are available from your Martin dealer.

Warning!

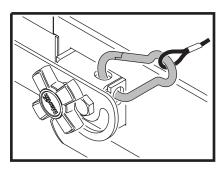
Block access below the work area and work from a stable platform when installing or servicing the fixture.

Do not operate the fixture without fastening it securely to a structure or surface.

Always use a secure means of secondary attachment that can hold at least 10 times the weight of the fixture.

1. The fixture must be located at least 1 meter (3.3 ft.) away from the surface to be illuminated and at least 0.1 meters (4 in.) from any combustible materials (wood, fabric, paper, etc.). Ensure that the clearance around the fan and air vents is at least 0.1 meters (4 in.). Ensure that there are no inflammable materials nearby.

- 2. If using a rigging clamp, ensure that the clamp is undamaged and can bear at least 10 times the fixture's weight. Bolt the clamp securely to the fixture's mounting bracket with a grade 8.8 (minimum) M12 bolt and lock nut through the 13 mm hole in the center of the mounting bracket. or as recommended by the clamp manufacturer.
- 3. If fastening the fixture directly to a mounting surface, ensure that any fasteners used and the mounting surface can bear at least 10 times the fixture's weight. The fixture may be fastened using any of the following:
 - · four 6.5mm holes in the sides of the U-bracket
 - two 8mm holes in the top of the U- bracket
 - one 13mm hole in the top of the U-bracket.
- 4. Ensure that the structure used to support the fixture can support at least 10 times the total weight of all installed fixtures, clamps, cables, auxiliary equipment, etc.
- 5. Install a safety wire that can hold at least 10 times the weight of the fixture through/over the support and through a safety wire attachment point next to one of the swivel locks on the fixture (see illustration).



Safety wire attachment point

Important! Do not simply attach the safety wire to the mounting bracket, as this will leave the fixture unsecured.

> 6. Loosen the swivel locks and tilt the fixture to the desired angle. Turn the swivel locks clockwise to tighten. Check that both swivel locks are tight and that the fixture is securely clamped in position.

Creating a data link for DMX or synchronized operation

You need a serial data link to:

- run light shows on one or more fixtures using a DMX controller, or
- · run synchronized light shows on two or more fixtures (master/slave operation).

Fixtures on a serial data link must be daisy-chained in one single line, max. 500 meters (1640 ft.) long, with max. 32 fixtures. If you wish to

Installation

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exceed 32 fixtures or 500 meters, or to add branches, use an optically isolated amplifier-splitter such as the Martin RS-485 Opto-Splitter (P/N 90758060).

Reliable data connection requires suitable cable. Standard microphone cable cannot transmit DMX data reliably over long runs. For best results, use cable with at least one twisted pair specifically designed for RS-485 applications. Your Martin dealer can supply suitable high quality cable in various lengths.

Connecting the serial data link

The fixture's data connections are XLR type, wired with pin 1 to ground, pin 2 to signal - (cold), and pin 3 to signal + (hot). This is the standard configuration for DMX devices.

One or more adaptor cables may be required to connect the Mania SCX600/700 to the controller and/or other types of fixture, because some devices may have 5-pin XLR connectors, and others may have reversed signal polarity (pin 2 hot and pin 3 cold). Connector polarity is normally specified on the device or in the device's user manual.

5-pin to 3-pin Adaptor	3-pin to 5-pin Adaptor	3-pin to 3-pin Phase-Reversing Adaptor	Male DMX Termination Plug	Female DMX Termination Plug
Male Female	Male Female	Male Female	Male XLR	Female XLR
11 22 33 4 5	11 22 33 4 5	1 1 2 2 3	1 2 3 120 Ohm	1 2 3 3 120 Ohm
P/N 11820005	P/N 11820004	P/N 11820006	P/N 91613017	P/N 91613018

DMX connectors and polarity

To connect the data link:

- Power all devices off.
- If you intend to use a DMX controller, run a data cable from the DMX controller's data output to the first fixture's data IN socket. If the controller has a 5-pin output, use a 5-pin male to 3-pin female adaptor cable (available from your Martin dealer: P/N 11820005).
- If you intend to run fixtures in master/slave operation, insert a female DMX termination plug (P/N 91613018) in the first fixture's data IN socket.

- 4. Plug a data cable into the OUT socket of the first fixture and the IN socket of the next one. Continue connecting up to 32 fixtures output-to-input.
- Terminate the link by inserting a male termination plug (P/N 91613017) into the data output of the last fixture. A termination plug is simply an XLR connector with a 120 Ohm, 0.25 W resistor soldered across pins 2 and 3.

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3. OPERATION

Note:

The Mania SCX600/700 is supplied in DMX mode with its DMX address set to 1. If want to operate the fixture without a DMX controller, you need to set the fixture to stand-alone music trig or auto trig mode before use (see "Selecting DMX, music trig or auto trig operating modes" on page 15).

Getting started

Powering on

Once the Mania SCX600/700 is correctly and safely installed, power on at the fixture's power on/off switch. The fixture will start up and reset. The display will show the following messages:

- 1. -OK-
- 2. Fixture name
- Software version number.
- 4. RST

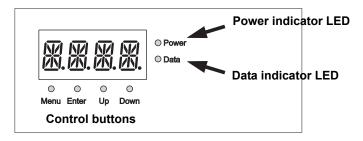
If the fixture resets successfully, it will display either its DMX address, 5R-M (stand-alone music trig mode) or 5R-R (stand-alone auto trig mode).

If any other message is displayed, the fixture has detected an error (see "Error messages" on page 32). If this occurs, switch off, wait a few seconds and switch on again. If the error message appears again, consult your Martin dealer.

Control panel and menus

You can set the Mania SCX600/700's DMX address, modify the fixture's personality and control effects manually using the menus in the control

panel. See also the overviews printed on the fixture and in "Control menus" on page 41.



To enter the menus, press the [Menu] button. Use the [Up] and [Down] buttons to scroll within a menu. To select a function or submenu, press the [Enter] button. To exit a function or menu, press the [Menu] button.

Music trig, auto trig and DMX modes

The Mania SCX600/700 has three main operating modes:

Stand-alone music trig mode: In this mode, lighting effects are triggered by music intensity. Multiple fixtures can be synchronized if one master fixture is set to stand-alone music trig mode and the other fixtures are set to DMX mode.

Stand-alone auto trig mode: In this mode, the fixture runs a factory-set dynamic light show that uses all the fixture's effects in a random program. Multiple fixtures can be synchronized if one master fixture is set to standalone auto trig mode and the other fixtures are set to DMX mode.

DMX mode: In DMX mode, fixtures receive control instructions via the serial data link. They will respond to control signals from a DMX controller (or from another fixture set as master).

Selecting DMX, music trig or auto trig operating modes

The Mania SCX600/700 is supplied set to DMX mode with its DMX address set to 1. If you intend to operate the fixture without a DMX controller, you need to set it to stand-alone music trig or auto trig mode.

To switch between DMX, auto trig and music trig modes:

- 1. Apply power to the fixture and wait until the R5T message disappears from the display. The fixture has now reset.
- 2. Press the [Menu] button once to enter the control menus.
- 3. Use the [Up] and [Down] buttons to scroll to Made. Press [Enter] once to enter the operating mode menu.
- 4. Use the [Up] and [Down] buttons to scroll between:
 - NORM (DMX mode)
 - 5A A (Stand-alone auto trig mode) and
 - 5A M (Stand-alone music trig mode)
- 5. Press [Enter]. The fixture enters the mode you have selected, and will return to this mode when powered off and on.

Synchronized music trig and auto trig operation

You can set multiple fixtures on a serial data link to respond together to a music trig or auto trig signal from one fixture. This feature allows synchronized operation without a DMX controller. The fixture sending the signal is the 'master' fixture and the fixtures that receive the signal are the 'slave' fixtures

Important! Set only 1 fixture on the link as master: damage can occur if 2 masters, or a master and a DMX controller, are linked.

Setting up synchronized operation

To set up Mania SCX600/700s for synchronized operation:

- Ensure that all slave fixtures are in DMX mode.
- 2. Select one fixture to be the master and set it to stand-alone auto trig or music trig mode (see "Selecting DMX, music trig or auto trig operating modes" on page 15)
- 3. When slave fixtures receive signals from the master, they will automatically begin operating in slave mode. The Data LED on their control panels will light to show that they are receiving control data.

Fixtures return to their DMX/auto trig/music trig settings when powered off and on, so you should only need to set fixtures as masters/slaves once.

DMX controller operation

Setting DMX mode 1 or 2

Two DMX modes are available: DMX mode 1 (normal) and DMX mode 2 (extended). Mode 2 uses four extra DMX channels. Two of these channels allow you to select pre-programmed pan, tilt and effects macros and two channels allow you to set the speed of pan, tilt and effects movement from the DMX controller.

The Mania SCX600/700 is supplied in DMX mode 2.

- The Mania SCX600 uses 7 channels in DMX mode 1, and 11 channels in DMX mode 2.
- The Mania SCX700 uses 6 channels in DMX mode 1, and 10 channels in DMX mode 2.

To toggle between DMX modes 1 and 2:

- 1. Apply power to the fixture and wait for the fixture to reset.
- In the control panel, press the [Menu] button. Then use the [Up] and [Down] buttons to scroll to P5ET (personality setting) and press [Enter].
- 3. Use the [Up] and [Down] buttons to scroll between MOd 1 and MOd2 and press [Enter] to save your setting.

Setting DMX addresses

If you use a DMX controller, you need to set the DMX address for each fixture on the fixture's control panel. The DMX address, or start channel, is the first channel used to receive instructions from the controller.

For individual control, each fixture must be assigned its own DMX address and control channels. For example, if an SCX600 is set to DMX mode 2 and you give it DMX address 101, it will use channels 101 - 111 inclusive. Channel 112 is available for the next fixture. An SCX700 in DMX mode 2 with address 101 will use channels 101 -110 inclusive. Channel 111 will be available for the next fixture.

Fixtures with the same DMX address will receive the same instructions and behave identically. Two fixtures with the same DMX address can be set up so that one pans as a mirror image of the other. To achieve this, use the settings in the control menu to invert the pan on one fixture (see "Movement" on page 21).

The default factory-set DMX address is '1'. To set a fixture's DMX address:

- Decide on suitable DMX addresses for all the fixtures on the data link.
 512 channels are available in one DMX universe.
- 2. Apply power to the fixture and wait while it resets.
- 3. Press [Menu] to enter the main menu.
- 4. Select AddR using the [Up] and [Down] buttons. Press [Enter].
- 5. Select an address using the [Up] and [Down] buttons. Press [Enter].
- 6. Press [Menu] to return to the main menu.

Fixtures remember their DMX address when they are powered off and on.

DMX control options

See the DMX protocols starting on page 35 for an overview of DMX commands and channels.

In DMX modes 1 and 2, the following functions can be controlled:

Reset: All effects can be reset to their index positions from the controller using channel 1. The reset command must be sent for 5 seconds before it takes effect. When a fixture is reset via DMX, R5T appears in its display.

Dimming and blackout: Both the SCX600 and SCX700 can be blacked out using the shutter on channel 1. The shutter can also be set to music triggered operation.

The Mania SCX600 can be dimmed from 0% (blackout) up to 100% intensity using channel 2.

Note that to douse the Mania SCX700's lamp, a DMX value from 240 to 247 must be sent on channel 1 for at least five seconds. If you douse the lamp, you must wait eight minutes before restriking.

Color wheel position and rotation: The color wheel features 9 full-color filters plus white (no filter). The wheel can be positioned to give full colors, scrolled to give split-color effects, rotated continuously in either direction with variable speed, or set to music triggered operation.

Gobo wheel position and rotation: The gobo wheel features 7 rotating gobos and an open position. Rotating gobos can be selected, shaken at different speeds and set to music triggered operation.

Rotating gobos: Speed and direction of gobo rotation can be controlled. Gobos can also be set to shake, or set to music triggered operation.

On the Mania SCX700, gobo angle can be indexed, i.e. set to a precise angle.

Pan: Pan, with approx. 198° available.

Tilt: Tilt, with approx. 72° available.

In DMX mode 2, the following additional functions can be controlled on four extra channels:

Macros: A range of factory-set macros are available, with macros that control pan/tilt and macros for the other effects on two separate channels. The macros are professionally designed programs that use all the fixture's effects to give complete light shows with minimal user programming required.

Pan/tilt speed and effects speed: The speed at which the fixtures's mirror pans and tilts, and the speed at which effects change, can be adjusted on two extra channels. Selecting a speed allows you to adjust fade times when using DMX controllers that do not feature fade time programming (a fade time is the time taken for effects to change from one scene to the next). If you select 'tracking' on these channels, the DMX controller defines fade times.

Unsure about speed and tracking?

As a rule, you should set the fixture to tracking if you are using programmed fade times or macros on your DMX controller. Select an effects speed if you are *not* using programmed fade times or macros on your DMX controller.

However, if you are using fade times on your controller and have set the fixture to tracking, but effects movement is rough and irregular, setting fade times on your controller to zero and selecting an effects speed may give smoother movement.

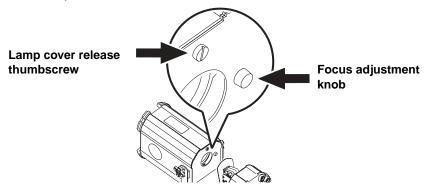
Effects movement is set to 'tracking' if the fixture is in DMX mode 1 and by default.

DMX signal indicator

When the Mania SCX600/700 receives a valid DMX signal, the Data LED will light to show that the fixture is receiving control data.

Focus adjustment

Never look directly into the light beam while adjusting the focus. The focus adjustment screw is next to the lens aperture. Do not confuse it with the lamp cover release thumbscrew.



Adjusting music level sensitivity

you can adjust response to a music beat while a fixture is in music trig mode by adjusting music level sensitivity:

- 1. With the fixture powered on and in music trig mode, play a typical music track at typical volume for your location.
- Press the [Menu] button once and use the [Up] and [Down] buttons to scroll to UTIL. Press [Enter] and scroll to MLEV. (music level menu). Press [Enter].
- 3. The fixture is supplied set to level 7. You can adjust the music sensitivity level using the [Up] and [Down] buttons to select a level from LE 1 to LE 16. Level 1 gives highest sensitivity. Press [Enter] to activate the selected level.
- 4. Repeat step 3 until you find a level that gives the best response to the music beat.
- 5. Press [Menu] to save your setting and exit the music level menu. The fixture will return to this setting when you power it off and on.

4. CONTROL PANEL

The following functions of the control panel are described earlier in this manual:

- selecting stand-alone music trig or auto trig operation (see page 15)
- switching between DMX modes 1 and 2 (see page 17)
- setting DMX addresses (see page 17)
- setting music sensitivity level for music trig operation (see page 20).

This chapter describes the other control panel options for setting up fixture behavior (see also "Control menus" on page 41 for a complete overview of control panel functions).

Movement

PRTI, the pan and tilt invert menu, allows you to invert pan movement (PINV), and invert tilt movement (TINV). These options can be useful in situations where you want some fixtures to mirror the performance of others with the same DMX address, or when you install fixtures in a different orientation after you have programmed a light show.

Information readouts

INF D, the information menu, gives information about hours of fixture and lamp operation, and software version.

Power-on hours

This readout can be used to track maintenance intervals.

There is a resettable counter in this menu. Read the number of hours the fixture has been powered on since the counter was reset in $INFD \rightarrow TIME \rightarrow HRS \rightarrow RSET$. Press [Enter] to display. Press [Up] for 5 seconds to reset the counter to zero.

Read the total number of hours the fixture has been powered on since fabrication in $INFD \rightarrow TIME \rightarrow HRS \rightarrow TDTL$. Press [Enter] to display.

Lamp hours

This readout can be used to monitor lamp life for replacement purposes. There is a resettable lamp hours counter in this menu. Read the number of hours the lamp has been powered on since the counter was reset in $INFD \rightarrow TIME \rightarrow L HR \rightarrow RSET$. Press [Enter] to display. Press [Up] for 5 seconds to reset the counter to zero each time you install a new lamp.

Read the total number of hours of lamp use since fabrication in $INFD \rightarrow TIME \rightarrow L HR \rightarrow TDTL$. Press [Enter] to display.

Start-up/lamp strike counter

INF $D \rightarrow TIME \rightarrow LST \rightarrow RSET$ is a resettable start-up counter. The SCX600 displays the number of times the fixture has been powered on since the counter was last reset. The SCX700 displays the number of times the lamp has been struck since the counter was last reset. Press [Enter] to display. Press [Up] for 5 seconds to reset the counter to zero each time you install a new lamp.

INF $\square \rightarrow T$ IME $\rightarrow L$ 5 $T \rightarrow T$ \square TL displays the total number of start-ups (SCX600) or lamp strikes (SCX700) since manufacture.

Software version

INF $\square \rightarrow VER$ displays the fixture software version number. The software version is also displayed briefly when the fixture is powered on.

Manual control

The manual control menu (MAN) provides commands for resetting the fixture (RST), as well as striking the lamp (L DN), and dousing the lamp (L DFF). It also permits you to position and move individual effects.

Effects test

The test sequence ($TSEQ \rightarrow RUN$) runs through all effects to provide a quick check of fixture performance.

Upload mode

The upload mode command ($UTIL \rightarrow UPL$) prepares the fixture for a software upload (see "Software uploads" on page 33).

5. SERVICE AND MAINTENANCE

The Mania SCX600/700 requires simple routine maintenance. The maintenance schedule depends heavily on the operating environment: please consult a Martin service technician for recommendations.

Any service procedure not described here should be referred to a qualified technician.

Warning!

Disconnect the fixture from power and allow it to cool for at least 20 minutes before removing any cover.

Wear safety glasses and gloves and allow the fixture to cool for at least 20 minutes before removing the lamp.

Important! Excessive dust, grease, and smoke fluid buildup degrades performance and causes overheating and damage to the fixture that is not covered by the warranty. Check and, if necessary, clean fixtures at regular intervals.

SCX600 lamp

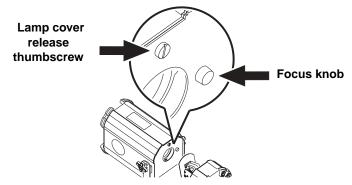
The Mania SCX600 uses a 24 V, 250 W halogen lamp with integral reflector.

Important! Use only this type of lamp. See "Accessories" on page 47 for details of replacement lamps. Installing any other lamp may damage the fixture.

Replacing the lamp

1. Disconnect the fixture from power and allow it to cool for at least 20 minutes.

Remove the lamp cover release thumbscrew and open the lamp cover on its hinge.



- Remove the old lamp and socket from the lampholder and, being careful not to strain any wires, gently pull the lamp off its ceramic socket.
- Hold the new lamp by its base (do not touch any other part of the lamp). Push the lamp pins squarely into the ceramic socket.
- 5. If you touched the bulb, the reflector or any optical components, clean them with a clean, lint-free cloth wetted with isopropyl alcohol. Alcohol is extremely inflammable, so take precautions to avoid fire risk.
- 6. Replace the lamp and socket in the lampholder. Close the cover, checking that no wires are trapped, and replace the thumbscrew.
- 7. Reset the lamp hours counter (see "Information readouts" on page 21).

SCX700 lamp

The Mania SCX700 uses a 150 W discharge lamp. Replace the lamp when it reaches the average life specified by the manufacturer.

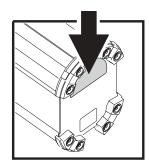
Important! Use only this type of lamp. See "Accessories" on page 47 for details of replacement lamps. Installing any other lamp may damage the fixture.

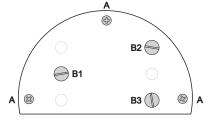
Installing the SCX700 lamp

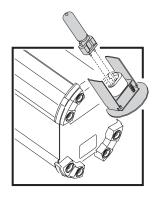
- Disconnect the fixture from power and allow it to cool for at least 20 minutes.
- 2. Remove the lampholder by removing screws A (see illustrations).
- If replacing an old lamp, remove it from its ceramic socket.
- Hold the new lamp by its base (do not touch any other part of the lamp). Push the lamp pins squarely into the socket in the lampholder (see illustration).
- If you touched the bulb, or any optical components, clean them with a clean, lint-free cloth wetted with isopropyl alcohol.
- Reinstall the lampholder in the fixture, checking that no wires are trapped before screwing on the cover.
- Reapply power and reset the lamp hours counter (see "Information readouts" on page 21).

Beam adjustment

1. If the brightest part of the beam is off-center:







- use screw B1 to adjust horizontal lamp alignment
- · use screw B2 and/or B3 to adjust vertical lamp alignment
- If there is an excessive hot-spot or dark area in the center of the beam, or if light output is low, turn all three screws B1, B2 and B3 by an equal amount in the direction that gives an improvement, until a satisfactory beam is obtained.

Cleaning

Cleaning optical components

Use care when cleaning optical components. The coated surfaces are fragile and even small scratches may be visible in the fixture's light output. Wear cotton gloves to avoid contaminating components with grease from your fingers.

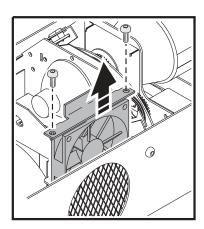
- Disconnect the fixture from power and allow it to cool for at least 20 minutes.
- Loosen the lamp cover release thumbscrew and open the lamp cover on its hinge.
- Blow or vacuum away loose dust. Remove residues from lenses and filters with a soft cloth or cotton swabs wetted with isopropyl alcohol. Regular glass cleaner may also be used, but no residues may remain.
- Rinse with distilled water. Mixing the water with a small amount of wetting agent such as Kodak Photoflo will help prevent streaking and spotting.
- Dry with a clean, soft and lint-free cloth or blow dry with compressed air.
- 6. Replace the lamp cover before reapplying power.

Cleaning the fan and air vents

To maintain adequate cooling, dust must be cleaned from the fan and air vents periodically. Cleaning intervals will depend on the operating environment. The presence of airborne dust, smoke, etc. will make frequent cleaning necessary. Check and, if necessary, clean fixtures regularly.

- Disconnect the fixture from power and allow to cool for at least 20 minutes.
- Loosen the lamp cover release thumbscrew and open the lamp cover on its hinge.

- Remove the two Philips head screws on the fan housing and lift out the fan for access (see illustration).
- Remove dust and dirt from the fan blades and vent grill using a soft brush or cotton swab and vacuum.
- 5. Replace the fan, making sure no wires are trapped.
- 6. Replace the lamp cover before reapplying power.



Replacing the main fuse

The Mania SCX600/700 uses a time-delay fuse for protection against current overload. An indication that the fuse may have blown is that when power is applied and the lamp is switched on, no light is produced.

If the fuse blows repeatedly, there is a fault with the unit that requires service by a Martin technician.

Never bypass the fuse or replace it with one of another type or rating.

- Disconnect the fixture from power and allow to cool for at least 20 minutes.
- Pry open the fuse holder (located next to the power cable entry) with a flathead screwdriver and remove the fuse.
- Replace the fuse with one of the same type. Fuse ratings are listed on serial number labels and under "Electrical" on page 46.
- 4. Replace the fuse holder.
- If fuses continue to blow, there is probably a fault. Disconnect the fixture from power and data and contact a Martin service technician.

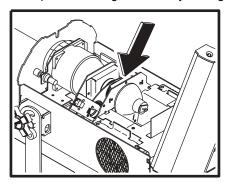


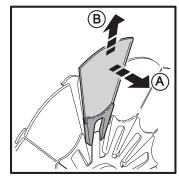
Fuse holder

Replacing a color filter

The color filters fitted to the Mania SCX600/700 are standard interchangeable items.

Wear cotton gloves when changing filters to avoid contaminating components with grease from your fingers.



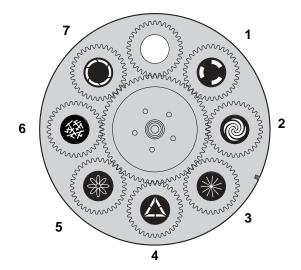


To replace a filter:

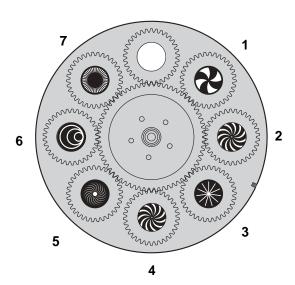
- 1. Disconnect the fixture from power and allow to cool for 20 minutes.
- 2. Loosen the lamp cover release thumbscrew and open the cover.
- 3. See illustrations above. The color wheel is in front of the lamp. Pull gently on the filter (A) and slide it up and out of the wheel (B).
- 4. Slide the new filter down onto its clip.
- Check that the new filter is held securely and replace the lamp cover before reapplying power.

Rotating gobos

The rotating gobos fitted to the Mania SCX600/700 are standard interchangeable items. A range of replacement gobos is available from your Martin dealer.



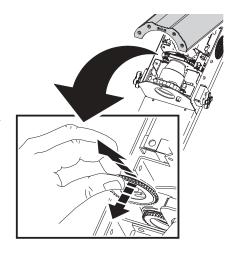
SCX600 gobos (viewed from lens side)



SCX700 gobos (viewed from lens side)

To replace a gobo:

- Disconnect the fixture from power and allow to cool for at least 20 minutes.
- Loosen the lamp cover release thumbscrew and open the cover on its hinge.
- See illustration on right. Pull the gobo gently away from the gobo wheel and slide it up and out of the wheel.
- Slide the new gobo in and push gently towards the wheel to clip it into place. Check that the gobo is held securely.

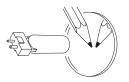


5. Replace the lamp cover securely before reapplying power.

Gobo orientation

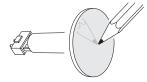
Focus is easiest to maintain if all coated gobos in a fixture are installed with their coatings as close as possible to the same plane of focus. The coated gobos in the Mania SCX600/700 are factory-installed with their coated side facing away from the lamp. If there is a risk of heat damage on a custom coated gobo, the first priority is normally to ensure that more reflective sides face towards the lamp. If in doubt, install custom coated gobos with the more reflective side towards the lamp, or consult your Martin dealer or gobo supplier.

More reflective side towards lamp



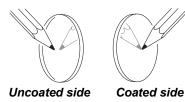
To minimize the risk of gobo overheating and damage, install a coated gobo with the more reflective side facing towards the lamp.

Less reflective side away from lamp



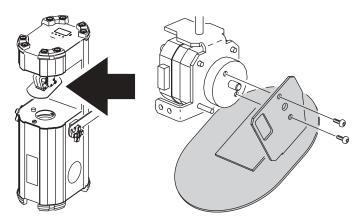
The less reflective side of a coated gobo will absorb less heat if it faces away from the lamp.

To determine which side of a gobo is coated, hold an object up to it. On the uncoated side, there is a space between the object and its reflection, and the edge of the gobo can be seen when looking through the glass.



Mirror removal

It is possible to remove the moving mirror without disturbing mirror calibration if you remove the two screws holding the mirror mounting plate and leave the alloy mounting disc on the motor shaft undisturbed (see illustration).



Error messages

In the event of an internal error, the following messages will appear in the digital display:

- [DER Color wheel timeout.
- ☐ ☐ E R Gobo wheel timeout.

On the Mania SCX700, an additional message will be displayed in the event of an error:

• REER- Rotating gobo timeout.

If one of the above error messages is displayed, try powering the fixture off and then on again to reset it. If the problem persists, contact your Martin dealer.

On the Mania SCX700, the message $H\square T$ will be displayed if you douse the lamp via DMX and then try to restrike it within eight minutes.

Software uploads

It is possible to upload new software to the Mania SCX600/700 via the DMX IN connector using, for example, an uploader such as the Martin MP-2 Uploader, or a PC using a Martin DABS interface device and a suitable application such as the Martin Software Uploader. The latest version of the Mania SCX600/700 software and the Martin Software Uploader are available from the Support area of the Martin website at http://www.martin.com

To prepare the Mania SCX600/700 to receive new software, select $UTIL \rightarrow UPL$ in the control panel, then follow the instructions in the uploader user manual or help files.

If the fixture will not accept a software upload as described above, it can be forced to accept an upload by setting it to hard boot mode. To do this, hold both the [Menu] and the [Enter] button pressed in while powering on the fixture. The data LED will blink when the Mania SCX600/700 is in hard boot mode.

If you have difficulty carrying out uploads, your Martin dealer will be able to give advice or carry out the upload for you.

6. TROUBLESHOOTING

Problem	Probable cause(s)	Remedy
One or more fixtures is completely dead.	No power to fixture.	Check that power is switched on and cables are plugged in.
	Main fuse blown.	Replace fuse.
Fixtures reset correctly but all	Controller not connected.	Connect controller.
respond erratically or not at all to controller.	XLR pin-out of controller does not match pin-out of first fixture on link (i.e. polarity is reversed).	Install a phase-reversing cable between controller and first fixture on link.
Fixtures reset correctly but some respond erratically or not at all to controller.	Bad data link connection.	Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	Insert termination plug in output of last fixture on link.
	Incorrect fixture addressing.	Check DMX addresses.
	One of the fixtures is transmitting as a master.	Check all fixture settings.
	One of the fixtures is defective.	Bypass one fixture at a time (unplug both DMX connectors and connect them directly together) until normal operation is regained. Have defective fixture serviced by a Martin technician.
A number appears in display and fixture will not run a stand-alone light show.	Fixture is set to DMX mode and is displaying its DMX address.	Use control panel to change fixture from DMX to standalone auto trig or music trig.
An effect fails to reset correctly.	The effect may require mechanical adjustment.	Contact Martin technician for service.
Lamp cuts out intermittently or burns out too quickly.	Fixture is too hot.	Allow fixture to cool.
		Check that there is free airflow around the fixture.
		Check, and if necessary clean, fan and grills.
Fixture does not respond correctly to music beat in music trig mode.	Music level sensitivity is incorrectly adjusted.	Use control panel to adjust sensitivity until fixture responds satisfactorily.
SCX700: Impossible to restrike lamp after dousing via DMX.	8-minute restrike protection delay activated.	Wait 8 minutes before restriking a hot discharge lamp.

7. SCX600 DMX PROTOCOL

Channel	Value	Percent	Function
1			Shutter, strobe effect, music triggered shutter, reset
	0-7 8-15 16-95 96-103 104-151 152-159 160-199 200-207 208-247 248-251 252-255	0-2 3-5 4-37 38-40 41-59 60-62 63-78 79-81 82-96 97-98 99-100	Shutter closed Shutter open Strobe slow → fast Shutter open Random strobe slow → fast Shutter open Music triggered shutter Shutter open Music trigger intensity Shutter open Reset (hold for 5 seconds to blackout and reset)
2	0-255	0-100	Dimmer 0-100%
3	0 12 24 36 48 60 72 84 96 108 120-128 129-135 136-142 143-149 150-156 157-163 164-170 171-177 178-184 185-191 192-215 216-239 240-245 246-250 251-255	0 4 9 14 18 23 28 33 37 42 47-50 51-52 53-55 56-58 59-61 62-64 65-69 70-72 73-74 75-84 85-93 94-96 97-98 99-100	Color wheel positions, music triggered color chase Continuously scrolling color wheel positions White Color 1 Blue B04 Color 2 Red B14 Color 3 Yellow B02 Color 4 Magenta B12M Color 5 Cyan B05 Color 6 Green B08 Color 7 Orange B09 Color 8 Congo B13 Color 9 Pink B16 Indexed color wheel positions White Color 1 Blue B04 Color 2 Red B14 Color 3 Yellow B02 Color 4 Magenta B12M Color 5 Cyan B05 Color 6 Green B08 Color 7 Orange B09 Color 8 Congo B13 Color 9 Pink B16 Color 5 Cyan B05 Color 6 Green B08 Color 7 Orange B09 Color 8 Congo B13 Color 9 Pink B16 Continuous color wheel rotation CW fast → slow CCW slow → fast Music triggered color chase Fast Medium Slow

Channel	Value	Percent	Function
4			Gobo selection, gobo shake, music trig gobo chase
•	0-15 16-31 32-47 48-63 64-79 80-95 96-111 112-127	0 - 5 6-11 12-18 19-24 25-30 31-37 38-43 44-49	Select gobo (set rotation type on channel 5) Open Gobo 1: Segments Gobo 2: Vortex Gobo 3: Cartwheel Gobo 4: Deltawindow Gobo 5: Red Petals Gobo 6: Straws Gobo 7: Flying disc Gobo shake
	128-143 144-159 160-175 176-191 192-207 208-223 224-239	50-55 56-62 63-68 69-74 75-81 82-87 88-93	Gobo 1, shake fast → slow Gobo 2, shake fast → slow Gobo 3, shake fast → slow Gobo 4, shake fast → slow Gobo 5, shake fast → slow Gobo 6, shake fast → slow Gobo 7, shake fast → slow Music triggered gobo chase
	240-245 246-250 251-255	94-96 97-98 99-100	Fast Medium Slow
5	0-7 8-77 78-147 148-153 154-223 224-239 240-245 246-250 251-255	0 - 2 3-29 30-57 58-59 60-87 88-93 94-96 97-98 99-100	Gobo rotation type, music trig gobo rotation speed Gobo rotation type (select gobo on channel 4) Stop Rotation CW slow → fast Rotation CCW fast→slow Stop Rotation CW slow → fast Rotation CW slow → fast Rotation shake Music triggered rotation Fast Medium Slow
6	0 - 255	0 - 100	Pan Left → right (128 = neutral)
7	0 - 255	0 - 100	Tilt Down → up (128 = neutral)
8*	0 - 15 16 - 31 32 - 47 48 - 63 64 - 79 80 - 95 96 - 111 112 - 127 128 - 143 144 - 159 160 - 175 176 - 191 192 - 207 208 - 255	0 - 5 6 - 11 12 - 18 19 - 24 25 - 30 31 - 37 38 - 43 44 - 49 50 - 55 56 - 62 63 - 68 69 - 74 75 - 81 82 - 100	Pan & tilt macros (DMX mode 2 only) No Macro Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Reserved. No function

Channel	Value	Percent	Function
9*	0 - 15 16 - 31 32 - 47 48 - 63 64 - 79 80 - 95 96 - 111 112 - 127 128 - 143 144 - 159 160 - 175 176 - 191 192 - 207 208 - 255	0 - 5 6 - 11 12 - 18 19 - 24 25 - 30 31 - 37 38 - 43 44 - 49 50 - 55 56 - 62 63 - 68 69 - 74 75 - 81 82 - 100	Effects macros (DMX mode 2 only) No Macro Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Reserved. No function
10*	0-7 8-240 241-245 246-250 251-255	0-2 3-94 95-96 97-98 99-100	Pan & tilt speed (DMX mode 2 only) Tracking (default) Fast → slow Blackout during color and gobo changes Blackout during pan and tilt changes Blackout during color, gobo, pan and tilt changes
11*	0-7 8-255	0-2 3-100	Effects speed (DMX mode 2 only) Tracking (default) Fast → slow

^{*} Channels 8 - 11 are available in DMX mode 2 only. In DMX mode 1, pan & tilt speed and effects speed are set to tracking.

8. SCX700 DMX PROTOCOL

Channel	Value	Percent	Function
1	0-7 8-15 16-95 96-103 104-151 152-159 160-199 200-207 208-219 220-239 240-247	0-2 3-5 4-37 38-40 41-59 60-62 63-78 79-81 82-85 86-93 94-96	Shutter, strobe effect, reset Shutter closed Shutter open Strobe slow → fast Shutter open Random strobe slow → fast Shutter open Music triggered shutter Shutter open Lamp on Shutter open Lamp off (must be held for 5 seconds. 8 min. delay before lamp can be restruck) Shutter open
	252-255	99-100	Reset (must be held for 5 seconds to blackout and reset) Color wheel positions and rotation, music trig color
2	0 12 24 36 48 60 72 84 96 108 120-128 129-135 136-142 143-149 150-156 157-163 164-170 171-177 178-184 185-191 192-215 216-239 240-245 246-250 251-255	0 4 9 14 18 23 28 33 37 42 47-50 51-52 53-55 56-58 59-61 62-64 65-66 67-69 70-72 73-74 75-84 85-93 94-96 97-98 99-100	Chase Continuously scrolling color wheel positions White Color 1 Blue B04 Color 2 Red B14 Color 3 Yellow B02 Color 4 Magenta B12M Color 5 Cyan B05 Color 6 Green B08 Color 7 Orange B09 Color 8 Congo B13 Color 9 Pink B16 Indexed color wheel positions White Color 1 Blue B04 Color 2 Red B14 Color 3 Yellow B02 Color 4 Magenta B12M Color 5 Cyan B05 Color 6 Green B08 Color 7 Orange B09 Color 8 Congo B13 Color 9 Pink B16 Continuous color wheel rotation CW fast → slow CCW slow → fast Music triggered color chase Fast Medium Slow

Channel	Value	Percent	Function
3	0-7	0 - 2	Gobo selection, gobo shake, music trig gobo chase Gobo indexing: select gobo (set indexing angle on channel 4) Open
	8-15 16-23 24-31 32-39 40-47 48-55	3-5 6-8 9-11 12-14 15-18 19-21	Gobo 1: Parasol twist Gobo 2: Plaid dream, cyan B20, Gobo 3: Cartwheel Gobo 4: Plaid dream, think pink B12M Gobo 5: Spiral galaxy Gobo 6: Moons, blue 04
	56-63	22-24	Gobo 7: Radial burst Gobo rotation: select gobo
	64-71 72-79 80-87 88-95 96-103 104-111 112-127	25-27 28-30 31-33 34-37 38-40 41-43 44-49	(set movement on channel 4) Gobo 1: Parasol twist Gobo 2: Plaid dream, cyan B20, Gobo 3: Cartwheel Gobo 4: Plaid dream, think pink B12M Gobo 5: Spiral galaxy Gobo 6: Moons, blue 04 Gobo 7: Radial burst
	128-143 144-159 160-175 176-191 192-207 208-223 224-239	50-55 56-62 63-68 69-74 75-81 82-87 88-93	Gobo shake Gobo 1, shake fast → slow Gobo 2, shake fast → slow Gobo 3, shake fast → slow Gobo 4, shake fast → slow Gobo 5, shake fast → slow Gobo 6, shake fast → slow Gobo 7, shake fast → slow
	240-245 246-250 251-255	94-96 97-98 99-100	Music triggered gobo chase Fast Med Slow
4			Gobo indexing angle, gobo rotation movement, music trig gobo rotation
	0-255	0-100	Gobo indexing angle (select gobo on channel 3) Indexing 0-395° Gobo rotation: set movement
	0-7 8-77 78-147 148-153 154-223 224-239	0 -2 3-29 30-57 58-59 60-87 88-93	(select gobo on channel 3) Stop Rotation CW slow → fast Rotation CCW fast→slow stop Rotation CW slow → fast Rotation shake
	240-245 246-250 251-255	94-96 97-98 99-100	Music triggered rotation Fast Med Slow
5	0 - 255	0 - 100	Pan Left → right (128 = neutral)
6	0 - 255	0 - 100	Tilt Down → up (128 = neutral)

Channel	Value	Percent	Function
7*	0 - 15 16 - 31 32 - 47 48 - 63 64 - 79 80 - 95 96 - 111 112 - 127 128 - 143 144 - 159 160 - 175 176 - 191	0 - 5 6 - 11 12 - 18 19 - 24 25 - 30 31 - 37 38 - 43 44 - 49 50 - 55 56 - 62 63 - 68 69 - 74	Pan & tilt macros (DMX mode 2 only) No Macro Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11
	192 - 207 208 - 255	75 - 81 82 - 100	Macro 12 Reserved. No function
8*	0 - 15 16 - 31 32 - 47 48 - 63 64 - 79 80 - 95 96 - 111 112 - 127 128 - 143 144 - 159 160 - 175 176 - 191 192 - 207 208 - 255	0 - 5 6 - 11 12 - 18 19 - 24 25 - 30 31 - 37 38 - 43 44 - 49 50 - 55 56 - 62 63 - 68 69 - 74 75 - 81 82 - 100	Effects macros (DMX mode 2 only) No Macro Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Reserved. No function
9*	0-7 8-240 241-245 246-250 251-255	0-2 3-94 95-96 97-98 99-100	Pan & tilt speed (Mode 2 only) Tracking (default) Fast → slow Blackout during color and gobo changes Blackout during pan and tilt changes Blackout during color, gobo, pan and tilt changes
10*	0-7 8-255	0-2 3-100	Effect speed (Mode 2 only) Tracking (default) Fast → slow

^{*} Channels 7- 10 are available in DMX mode 2 only. In DMX mode 1, pan & tilt speed and effects speed are set to 'tracking'.

9. CONTROL MENUS

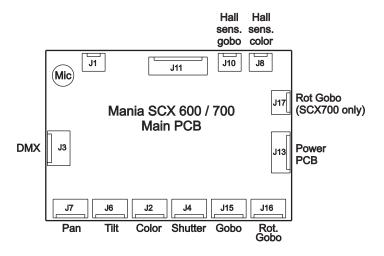
Factory default settings are shown in bold type.

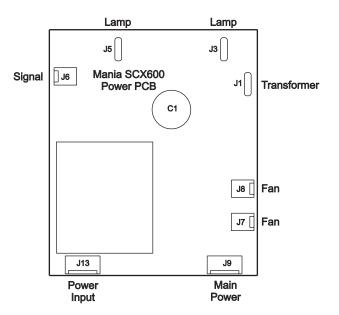
Menu	Item	Options	Options Notes (default settings in bold print)		
APPB	1-5 12		DMX address (default address = 1)		
PATT		PINV	Pan invert		
FHII		TINV	Tilt invert		
PSET		MOd 1	DMX mode 1 (normal)		
r 3 c i		M042	DMX mode 2 (extended)		
	NORM		DMX-controlled operation / slave fixture		
MOde	5A-A		Stand-alone auto trig operation / auto trig master fixture		
	5A-M		Stand-alone music trig operation / music trig master fixture		
	TIME	HR5	T D T L = total hours of operation since manufacture.		
			RSET = resettable counter. Press [Enter] to display hours of operation since counter reset. To reset to zero, press [Up] for 5 seconds.		
			TDTL = total hours of lamp operation.		
INFO		L HR	RSET = resettable counter. Press [Enter] to display hours of lamp operation since counter reset. To reset to zero, press [Up] for 5 seconds.		
		L ST	SCX600: TDTL = total number of startups (power-ons).		
			SCX700: TDTL = total number of lamp strikes.		
			RSET = resettable counter. Press [Enter] to display number of startups/lamp strikes since counter reset. To reset to zero, press [Up] for 5 seconds.		
	VER	X.X.X	CPU software version number		
		Table 2:	Control menu		

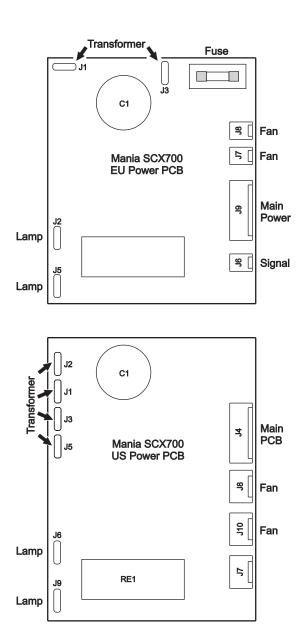
-	1	RST	Reset fixture	
	L ON			
			Lamp on	
	Loff		Lamp off	
		OPEN	Open shutter	
		CLOS	Close shutter	
	SHUT	STRF	Shutter strobe fast	
		STRM	Shutter strobe medium	
		STRS	Shutter strobe slow	
	dIМ	0-522	Dimmer	
		OPEN	Color wheel in open position	
		[1 →[9	Color wheel positions 1 → 9	
MAN		CW F	Clockwise rotation - fast	
	COL	CCWF	Counter-clockwise rotation - fast	
		EN M	Clockwise rotation - medium	
		CEMM	Counter-clockwise rotation - medium	
		CM 5	Clockwise rotation - slow	
		CCM2	Counter-clockwise rotation - slow	
	00.0	Ø → 7	Gobo selection $0 \rightarrow 7$	
	9060	G7RS → G1RS	Gobo wheel shake gobo $7 \rightarrow 1$	
	I/5	0-522	Gobo rotation speed slow \rightarrow fast	
	PAN	0-522	Pan left → right	
	TILT	0-522	Tilt up → down	
TSEQ		RUN	Run a general test of all effects	
UTIL (Press [Enter]	UPLI	SURE	Manually set fixture to software update mode	
for 3 secs. to access)	MLEV	LE 1 → LE 16	Music sensitivity level (1 = most sensitive, 7 = default)	

Table 2: Control menu

10. CIRCUIT BOARD LAYOUTS







MANIA SCX600/700 SPECIFICATIONS

Physical
Size (L x W x H)
Height (including bracket)
Mania SCX600 weight (including bracket)
Mania SCX700 weight (including bracket)
Installation
Minimum distance to combustible materials 0.1 m (4 in.)
Minimum distance to illuminated surfaces 1 m (3.3 ft.)
Minimum clearance around fan and air vents 0.1 m (4 in.)
Construction
Housing Steel and aluminum
Source
Mania SCX600 lamp
Mania SCX600 lamp socket
Mania SCX700 lamp
Mania SCX700 lamp socket
Control and programming
DMX control
Mania SCX600 DMX channels 7 (mode 1) or 11 (mode 2)
Mania SCX700 DMX channels 6 (mode 1) or 10 (mode 2)
DMX connections I/O 3-pin locking XLR, pin 1 shield, pin 2 cold (-), pin 3 hot (+)
Stand-alone music trig (single fixture and synchronized master-slave)
Stand-alone auto trig (single fixture and synchronized master-slave) Individual effects can be set to music trig via DMX
individual effects can be set to music trig via DMA
Dynamic effects
Color wheel: 9 interchangeable dichroic color filters plus open position.
Rotating gobo wheel: 7 interchangeable rotating gobos
(SCX600: 5 metal, 2 coated glass, SCX700: 4 metal, 3 coated glass)
Gobo angle indexing (Mania SCX700 only)
Gobo rotation and shake effects. Electromechanical shutter with variable frequency strobe effects.
Moving mirror: 198° pan and 72° tilt.
Full range continuous dimmer (SCX600 only).
Optics
Manual focus
Beam angle
•

Electrical

Mania SCX600 all models
Input
Typical power and current* @ 110 V, 60 Hz 241 W, 2.2 A, PF 0.993 @ 120 V, 60 Hz 278 W, 2.3 A, PF 0.993 @ 220 V, 50 Hz 241 W, 1.1 A, PF 0.995 @ 230 V, 50 Hz 260 W, 1.2 A, PF 0.995 @ 240 V, 50 Hz 278 W, 1.2 A, PF 0.994
Mania SCX700 EU model Input 3-prong IEC male socket AC power switch-selectable, 230 V / 240 V, 50 Hz Main fuse 2 AT
Typical power and current* @ 220 V, 50 Hz
Mania SCX700 US model Input 3-prong IEC male socket AC power 115-120 V, 60 Hz Main fuse 3.15 AT
Typical power and current* @ 110 V, 60 Hz
Thermal
Maximum ambient temperature (T_a)
Approvals
CE CETTOUS
EU EMC EN 55015, EN 61547, EN 61000-3-3, EN 61000-3-2 EU safety EN 60598-1, EN 60598-2-17 US safety UL 1573 Canadian safety CSA C22.2 NO 166

Included items - EU models
3 meter (9.8 ft) EU power cable, 3 x 1.0 mm ² , Schuko male connector 3 meter (9.8 ft) EU power cable, 3 x 1.0 mm ² , no male connector 5 meter (16.4 ft.) RS-485 XLR cable for data link
L type 5mm Allen key .P/N 50520615 User manual .P/N 35000169 Adjustable U-bracket
Mania SCX600: long-life 250 W halogen lamp (installed) Mania SCX600: 3.15 AT 5x20 mm main fuse (installed)
Mania SCX700: long-life 150 W discharge lamp Mania SCX700: 2 AT 5x20 mm main fuse (installed)
Included items - US models
2 meter (6.5 ft.) US AC power cable, 18AWG, US male connector (UL approved)
5 meter (16.4 ft.) RS-485 XLR cable for data link
3.15 AT main fuse (installed)
User manual
Mania SCX600: long-life 250 W halogen lamp (installed) Mania SCX600: 3.15 AT 5x20 mm main fuse (installed)
Mania SCX700: long-life 150 W discharge lamp Mania SCX700: 3.15 AT 5x20 mm main fuse (installed)
Accessories
Philips ELC 10H 24 V, 250 W halogen lamp (SCX600)
Philips MasterColor CDM-SA/T 150 W discharge lamp (SCX700) P/N 97010111
Osram HSD 150/70 150 W discharge lamp (SCX700)
DMX termination plug, (start of link, master/slave), XLR female P/N 91613018
G-clamp
Half-coupler clamp
5-pin male to 3-pin female XLR adaptor cable
Mania SCX600 (all models) main fuse, 3.15 AT
Mania SCX700 (EU models) main fuse, 2 AT)
Mania SCX700 (US models) main fuse, 3.15 AT
Ordering information
Mania SCX600 EU model, 220-240 V, 50 Hz
Mania SCX 700 EU model, 220-240 V, 50 Hz

