Martin M2GO
Martin M2PC

Safety and Installation Guide

Martin

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Dimensions

All dimensions are in millimeters

92.2

250

308,2

6.9

1.31
(33.4)

37.4 ±2 (950 ±50)

4.92 (125.0)

Optional AC Cable Restraint

0.53
(13.7)

0.66
(16.8)

0.07
(1.8)

80°

1.41
(36.0)

1.33 (34.0)

0.68
(17.3)

0.17
(4.4)

2.44 (62.0)
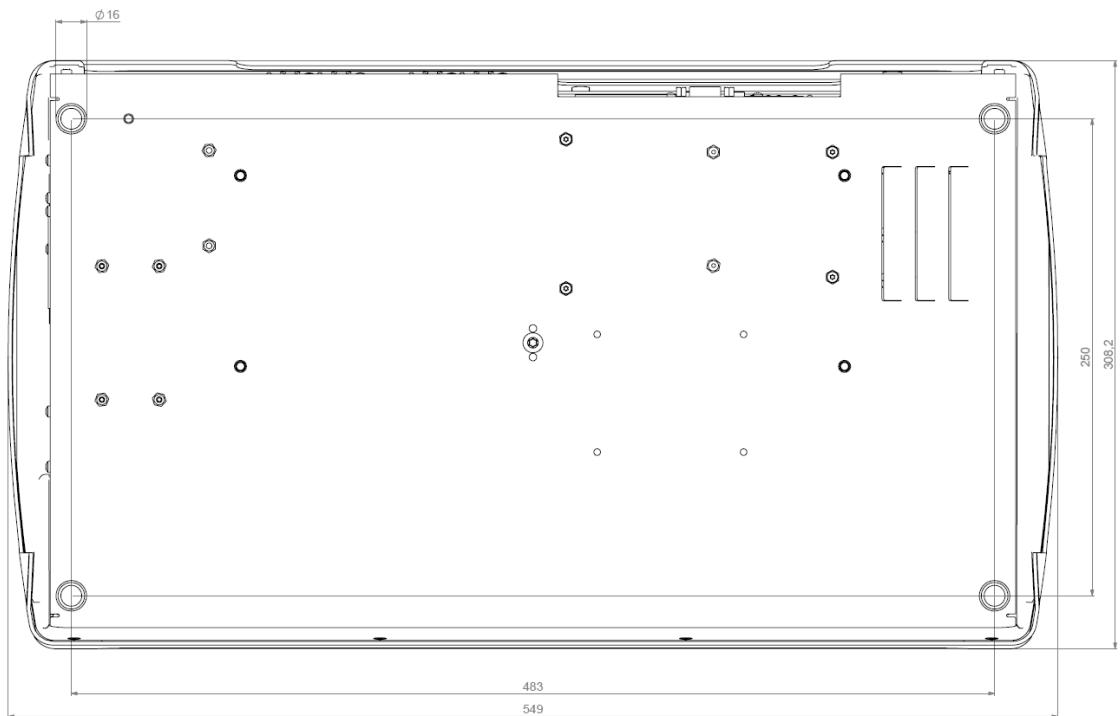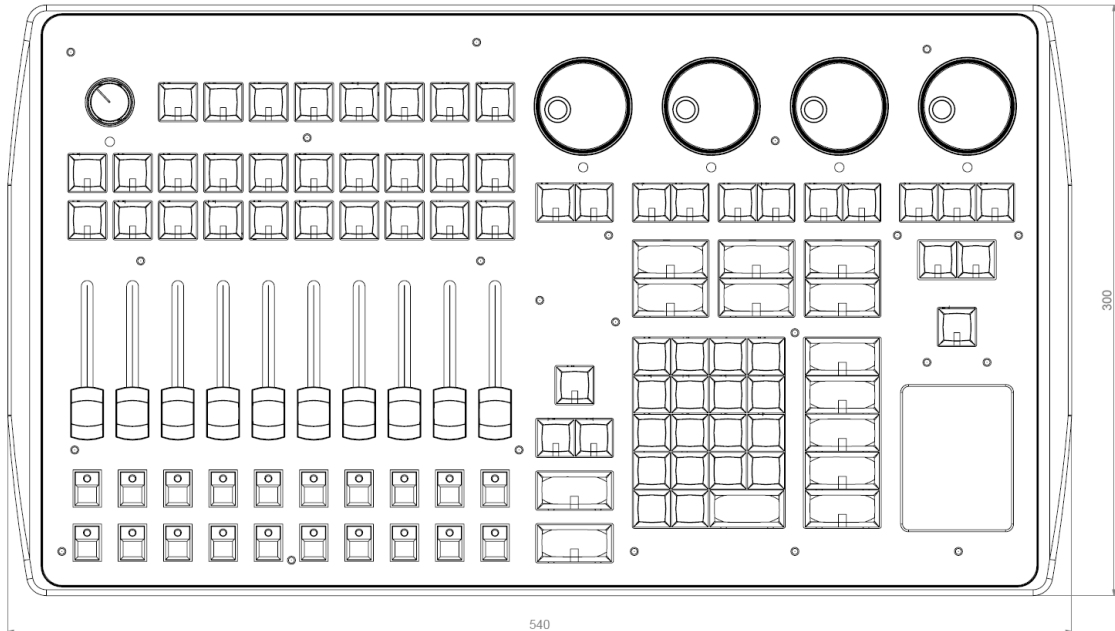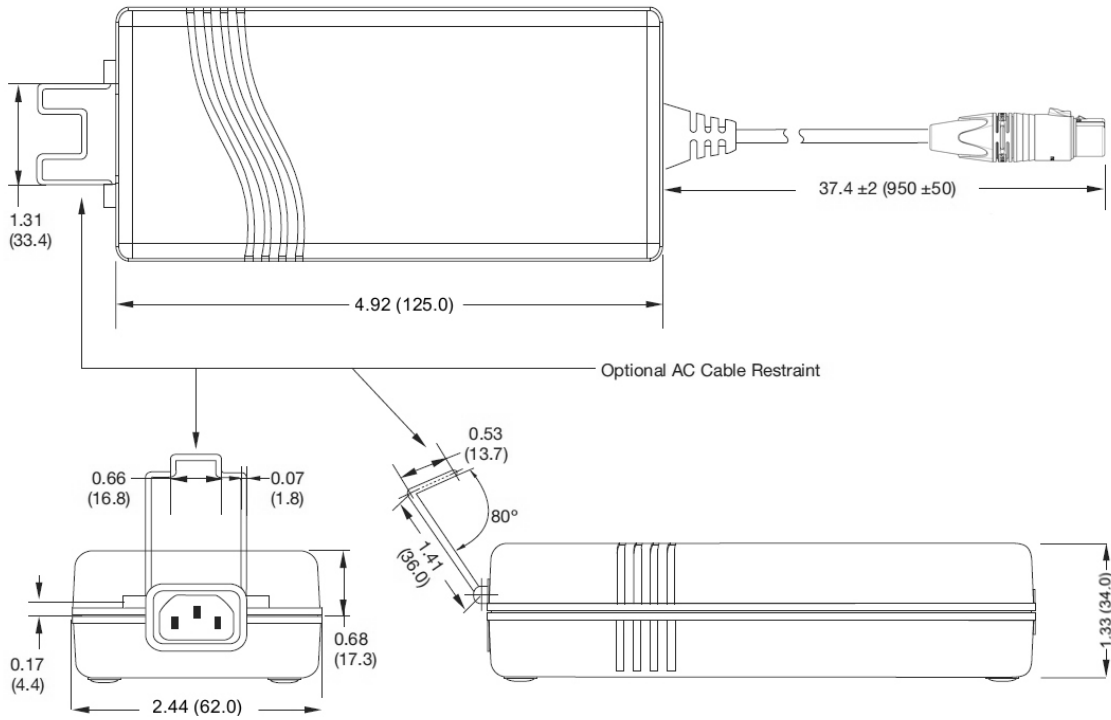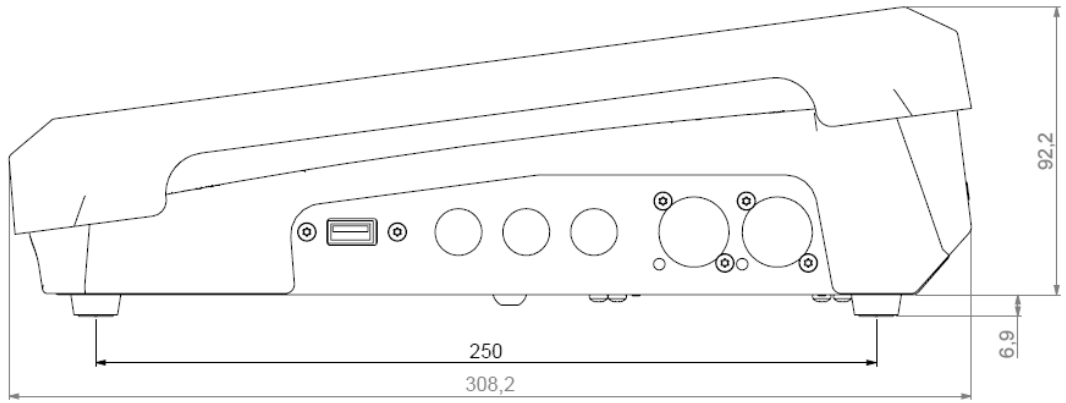
Introduction

Thank you for purchasing the Martin M2GO - M2PC Lighting Control System.

The system offers a powerful lighting controller with all the features of the M-Series of Martin controller in a small and compact housing.
The M2GO is a complete lighting desk with an integrated processor, while the M2PC is a USB control surface that requires an external PC system. Both consoles are identical with the exception of the processor and the associated connections on the back of the M2GO.

Please read this Safety and Installation Guide carefully. Visit the Martin website www.martin.com for further documentation including the user manual for the software and access to our user forums.

Technical Support

For a complete list of Technical Support phone numbers, see the Martin website at
www.martin.com/service/hotline.asp

Most information regarding the controller systems of Martin Professional can be found at
www.martin.com/controllersupport

Fixture Profiles

The software offers a fixture profile editor to create custom profiles. It is also possible to have Martin Professional add a new profile to the standard library.
Profile requests can be made on our website
http://www.martin.com/controllersupport/fixture_libraries.html

Please check whether the profile is already available before filling out a request.

Support Email

For specific questions please contact us directly at controllersupport@martin.dk

Training Videos

A large number of training videos showing the operation of the software can be found on our youtube channel.
http://www.youtube.com/martincontroller

Safety Information

This product is for professional use only. It is not for household use. It presents risks of lethal or severe injury due to electric shock. Read this user manual before powering or installing the console , follow the safety precautions listed below and observe all warnings in this manual and printed on the product.

If you have questions about how to operate the product safely, please contact your Martin supplier or call the Martin 24-hour service hotline on +45 8740 0000, or in the USA on 1888-TECH-180.

This product is for indoor use ONLY.

- Ensure that the power supply is electrically grounded (earthed) . Do not use ground lift adapters.

  In Finland: "Laite on liitettava suojamaadoituskoskettimilla varustettuun pistorasiaan"
  In Norway: "Apparatet ma tilkoples jordet stikkontakt"
  In Sweden: "Apparaten skall anslutas till jordat uttag"

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

- Use only the provided AC power supply and power cords and use the correct connector for the country of operation. Use of the factory provided power cable is mandatory for operation in the US and Canada.

- Disconnect the product from power immediately if the power supply or cable or any cover or component is wet or not in perfect condition. Do not reconnect to power until the damaged item has been repaired or replaced.

- Do not expose the product to rain or moisture.

- Allow free unobstructed airflow to the bottom and back of the product. Do not block the ventilation slots.

- Operate the console only on a stable and solid surface.

- Do not use the product if the ambient temperature exceeds 40°C (104° F)

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

- Do not modify the product or install other than genuine Martin parts.

- Transport the product only in suitable packaging or a custom fitted road case. Transportation damage is not covered under warranty.

- Protect the internal touch screen from sharp objects and operate the screen using a finger only.

- Caution: Risk of fire and flectrical Shock. Use only in dry locations.

- Caution: Risk of explosion if CMOS battery is replaced by an incorrect type. Dispose of used batteries according to local environmental regulations

- Caution: Do not expose CMOS battery to excessive heat such as sunshine or fire.

Included Items

Each package contains the following items:

- M2GO or M2PC Controller
- Protective cover
- External power supply unit with locking 4pin XLR connector
- LED desklamp
- 1.5 m (4.9 ft.) power cable, 3-pin IEC P/N 11501012 (for use outside the USA and Canada)
- 1.5 m (4.9 ft.) power cable, 3-pin IEC P/N 11501502 (with NEMA 15-5P plug for use within the USA and Canada)
- USB cable
- Safety and Installation Manual

Software

The software for the M2GO and M2PC is available from the support website www.martin.com/controllersupport

Please check periodically for new releases that may add new functionality or resolve a bug.

It is recommended to update to the latest release software before using the controller for the first time.

Recommended Touch Screen for M2GO

The M2GO is designed to be operated with an external touchscreen with a minimum screen resolution of 800x600 pixels.

We strongly recommend that you do not use the M2GO without a touchscreen because the controller software is designed around a touch interface.

Without the touchscreen the system will provide a poor user experience and is difficult to use.

The M2GO can be operated with the following touchscreen types:

- Generic Windows 7 Touch compatible screens that do not require custom drivers
- ELO Touch Systems iTouch, Accutouch and IntelliTouch compatible screens.
- VGA, HDMI or DVI
- USB 1.1 or 2.0

Martin recommends a 16:9 ELO touchscreen with iTouch technology.
A recommended screen is the ELO 2201L (part number E382790) which is available worldwide through ELO retail partners.
http://www.elotouch.com/Products/LCDs/2201L/

Other screens may be verified, please check www.martin.com for further recommendations.

Recommended PC system for M2PC

The M2PC is designed to be operated with an external PC system that utilizes a touch screen.

We strongly recommend that you do not use the M2GO without a touchscreen because the controller software is designed around a touch interface.

Without the touchscreen the system will provide a poor user experience and is difficult to use.

The PC should meet these minimum recommendations:

- Windows 7 Operating System
- Intel Core i5 processor
- USB 2.0 connection
- 4GB RAM
- 1280x800 resolution touchscreen

Martin recommends a 16:9 ELO touchscreen with iTouch technology.
A recommended screen is the ELO 2201L (part number E382790) which is available worldwide through ELO retail partners.
http://www.elotouch.com/Products/LCDs/2201L/

Other screens may be verified, please check www.martin.com for further recommendations.

Setup and Assembly

Unpacking

Open the shipping box carefully and keep all included pieces and protective covers for re-use.
Do not transportnthe M2GO / M2PC in any other container than the factory-provided cardboard box
with the original protective packaging inserts or a professionally designed protective case.

The console is provided with a protective clip-on cover. Remove the cover carefully before powering up
the system.
The cover can be conveniently placed underneath the console during operation.
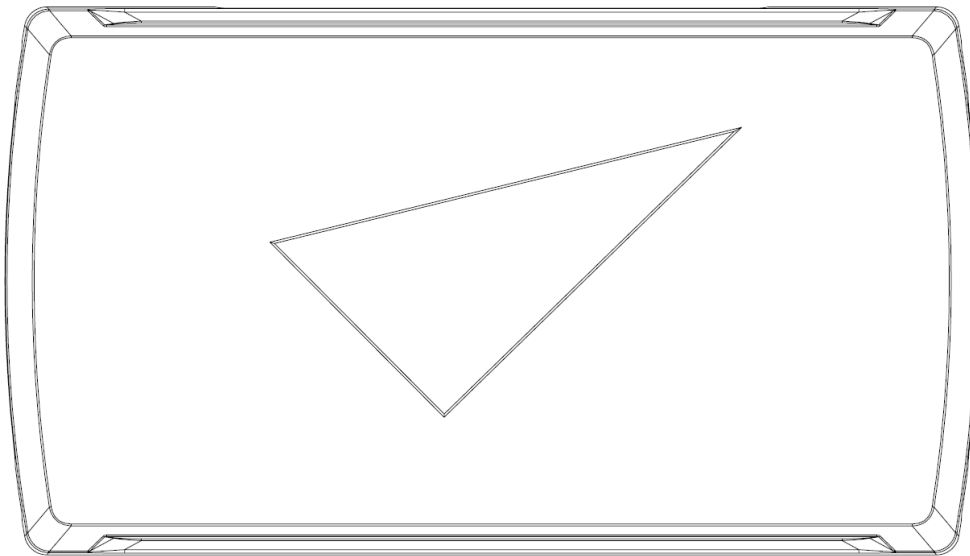
Placement

The controller requires a stable mounting position that provides support for all 4 rubber feet on the
bottom.
Never place the controller onto a blanket or other soft surface as this would block the ventilation
openings and cause overheating that will shut down the internal processor and possibly damage the
controller.

Power Connections

⚠ Martin M2GO - M2PC accepts AC mains power at 100-240V 50/60Hz. Do not connect it to power outside this range. Damage resulting from incorrect connection is not covered under warranty.

North America: A cable with a NEMA 15-5P plug is provided for use with the M2GO - M2PC in the USA and Canada. This approved cable must be used in North America.

Rest of the world: The provided IEC cable is not fitted with a country-specific plug.
Install only a plug that meets local and national electrical codes and is suitable for the country's specific power outlet types. Refer to a certified electrician for any questions regarding a country's specific requirements.
A 3-prong grounding-type (earthed type) plug must be installed following the plug manufacturer's instructions. The table below shows some possible pin identification schemes; if the pins are not clearly identified, or if you have any doubts about proper installation, consult a qualified electrician.

Wire color (standard EU code)	Pin	Symbol
brown	live	L
blue	neutral	N
yellow/green	ground	⏚

1. Check the power switch and ensure that it is set to the center **OFF** position.
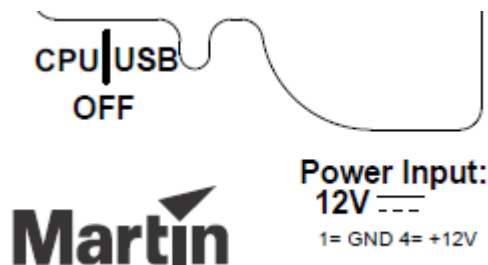
2. Insert the XLR 4-pin connector from the power supply unit into the power input on the back of the desk

3. Insert the provided power cable into the IEC connector of the power supply unit and connect the cable to a properly protected and grounded power outlet.

4. M2GO: Connect an external touch-enabled monitor, e.g. ELO 2201L with both the video and USB connections.

   M2PC: Connect the USB cable to the PC system

5. Turn on the desk by toggling the power switch to the **CPU** position (M2GO) or **USB** position (M2PC)

Connections

Right Side panel
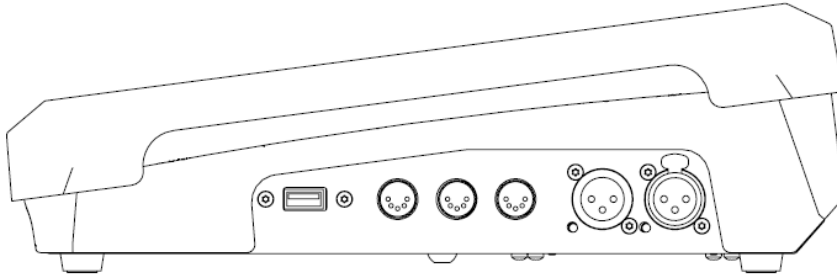
USB

The right side panel offers a USB device socket. This connector is ideally suited for USB flash drives or a keyboard.
This connection is not suitable for boot operations (e.g. installation of an operating system). Use the USB connectors on the back of the console for this purpose instead.
Do not exceed a current of 500ma on any USB device port.

MIDI

An optional MIDI card can be installed inside the controller.
The MIDI card provides MIDI In, Out and Thru 5-pin DIN connectors. The software supports incoming MIDI Notes, MIDI Show Control and MIDI Timecode signals.
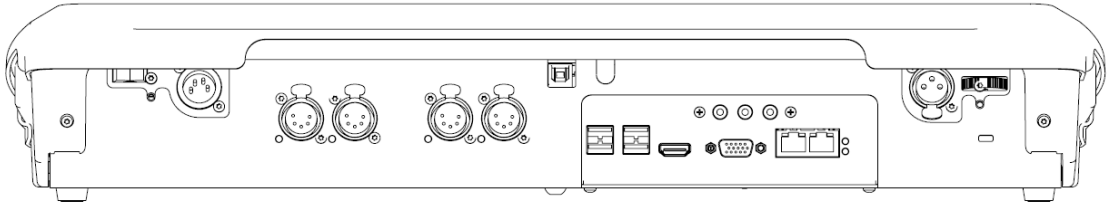
SMPTE

An optional SMPTE card can be installed inside the controller.
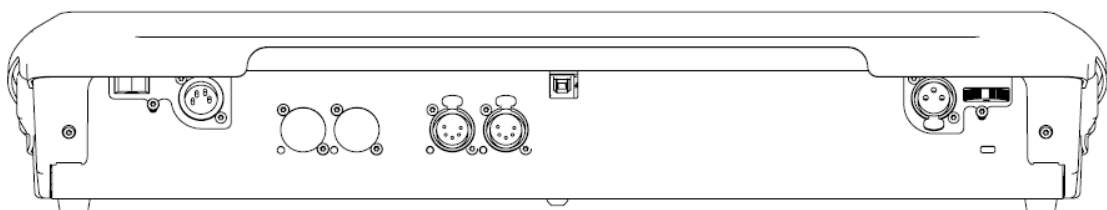The SMPTE device offers 3-pin XLR connectors for SMPTE In and Out signals.

Back panel

M2GO

DC Power IN	XLR 4-pin male
Desklight	XLR 3-pin female, 12V, 500ma for Littlite type gooseneck desklights
DMX 1-4	XLR 5-pin female DMX Outputs, RDM compatible, bidirectional for DMX Input
USB	4 x USB-A device connections (max. 500ma.)
	1 x USB-B input connection
Network	RJ45 Gigabit Remote network connection
EtherDMX	RJ45 Gigabit DMX Ethernet connection
VGA	15-pin monitor connection
HDMI	HDMI digital monitor connection
Line Out	Green 3.5mm stereo jack
Line In	Blue 3.5mm stereo jack
Mic In	Pink 3.5mm mono jack

M2PC

DC Power IN	XLR 4-pin male
Desklight	XLR 3-pin female, 12V, 500ma for Littlite type gooseneck desklights
DMX 1-2 (3+4 optional)	XLR 5-pin female DMX Outputs, RDM compatible, bidirectional for DMX Input
USB	1 x USB-B input connection

Service

The Martin M2GO - M2PC is designed as a rugged, roadworthy device. Occasional cleaning is the only service required of the user. For any other service-related concerns, please contact your Martin dealer or visit www.martin.com.
Any service not described in this document must be carried out by a qualified Martin technician.

The M2GO - M2PC requires periodic cleaning, as does any computer. The schedule depends heavily on the operating environment; please consult a Martin service technician for recommendations if needed.
As with any computer, never spray the cleaner directly onto the desk, always spray onto a lint-free cloth and wipe clean. Cleaning products designed for cellphone and tablet devices tend to work very well for cleaning of a lighting console.

⚠ Important! Excessive dust, dirt smoke fluid build-up etc. can degrade performance and cause overheating and damage to the controller that is not covered by the warranty.

Specifications

Software
Industrial Windows 7 embedded OS
OS installation by USB storage device
Show backup on SSD disk or USB storage device (not included)
Supports ELO iTOUCH, IntellitTouch and AccuTouch USB, generic Windows 7 touch devices

Control and Programming
Protocol: DMX512A (RDM), Artnet2
4 DMX universes, expandable to 8
2048 channels, expandable to 4096
No limit to number of DMX channels per fixture
Extensive fixture library for all known manufacturers
65000 presets for each group of functions (P/T, color, gobo, etc.)
Effect generator for automated programming of complex effects
Customizable highlight and lowlight function to identify individual fixtures
Relative or absolute programming
Fan function for all channels (including timing parameters)
On-the-fly global timing changes
Virtual cuelists
Macros
Wait, follow and link cues
HTP, LTP, chase, timecode, submaster and group master playback functionality
Individual parameter timings
Intuitive patch feature
Fixture type cloning
All channels with 16-bit resolution

Control/User Interface
Main playback interface: Ten 60 mm (2.4 in.) playback faders, each with four function-assignable buttons
Eight customizable multi-function keys
Playback Select button
Master Go section with Go, Pause, Snap and Release
Four digital rotary encoders with push function and status LED for fixture parameter control
3.5" touch screen for parameter groups, effect parameters, fanning and global timings
Grand master rotary fader and button
Blind/preview button
Customizable highlight/lowlight function
Customizable parameter defaults
Next/last fixtures/groups
Large command keys

Playback
Assign a cue, cuelist or effect to any playback fader
100 playback banks, each containing 10 playbacks
100 pages of 100 playbacks activated by touch screen button
No limit to cues per cuelist
Full 16-bit fading for high-resolution fixtures
Individual fade in/fade out times for all playbacks
Manual override available at all times
Live 0-1000% override of global cue timings
Live programmer timing ("Sneak")
Cuelists can be executed in tracking or non-tracking mode

M2GO

Physical

Length: 300 mm (11.8in.)
Width: 540 mm (21.3 in.)
Height with dust cover installed 99 mm (3.9 in.)
Weight: 5.2 kg (11.5 lbs)
Operating Temperature: 0° - 40° C (32° - 104° F)
IP Rating: IP20

Connections
4 x DMX universe outputs: 5-pin locking XLR
External monitor screen: VGA and HDMI
Artnet for up to 8 DMX universes in total: Gigabit RJ-45
MaxNet controller link: Gigabit RJ-45
5 x storage media/hardware peripherals: USB 2.0
Ready to receive internal MIDI module and SMPTE Timecode module
Internal MIDI in/out/thru (MIDI Show Control, MIDI Notes, MIDI Timecode): Optional
Internal SMPTE Timecode In/Out: 3-pin XLR (optional)
12 VDC power supply input: 4-pin XLR
Desk lamp (dimmable): XLR

Electrical:
AC mains power to 12 VDC external PSU (included): 100-240 V nominal, 50/60 Hz
Maximum current: 1.5 A
12 VDC output: 5 A, 60 W max.

Hardware
Industrial 3.5" RGB touchscreen
Internal 32 GB SSD storage drive
Industrial motherboard with dual-core processor
4 GB RAM
Integrated graphics processor

Included Items
1.5 m (4.9 ft.) power cable, EU (Schuko), 3-pin IEC
1.5 m (4.9 ft.) power cable, US, 3-pin IEC
12 VDC 5 A external PSU
LED desk lamp w/angular plug
Protective Cover
Martin Show Designer 5 MC Edition 45-day trial 3D Visualizer
User documentation CD

Ordering Information
M2GO™ Console   P/N 90737000
Two DMX Universes Expansion License   P/N 39808031
Optional Midi PCB   P/N 91613038
Optional SMPTE Timecode PCB   P/N 90703040

M2PC

Physical

Length: 300 mm (11.8in.)
Width: 540 mm (21.3 in.)
Height with dust cover installed: 99 mm (3.9 in.)
Weight: 4.6 kg (10.2 lbs)
Operating Temperature: 0° - 40° C (32° - 104° F)
IP Rating: IP20

Connections
2 x DMX universe outputs: 5-pin locking XLR
1 x storage media/hardware peripherals: USB 2.0
Ready to receive internal MIDI module and SMPTE Timecode module
Internal MIDI in/out/thru (MIDI Show Control, MIDI Notes, MIDI Timecode): Optional
Internal SMPTE Timecode In/Out: 3-pin XLR (optional)
12 VDC power supply input: 4-pin XLR
Desk lamp (dimmable): XLR

Electrical:
AC mains power to 12 VDC external PSU (included): 100-240 V nominal, 50/60 Hz
Maximum current: 1.5 A
12 VDC output: 5 A, 60 W max.

Hardware
Industrial 3.5" RGB touchscreen

Included Items
1.5 m (4.9 ft.) power cable, EU (Schuko), 3-pin IEC
1.5 m (4.9 ft.) power cable, US, 3-pin IEC
12 VDC 5 A external PSU
LED desk lamp w/angular plug
Protective Cover
Martin Show Designer 5 MC Edition 45-day trial 3D Visualizer
User documentation CD

Ordering Information
M2PC™ Console	P/N 90737010
Two DMX Universes Expansion License	P/N 39808031
Optional Two DMX Ports PCB	P/N 90703030
Optional Midi PCB	P/N 91613038
Optional SMPTE Timecode PCB	P/N 90703040