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grandMA3

PRELIMINARY VERSION

English

Founded on the legacy of the previous grandMA consoles, the grandMA3 represents a radical re-think of what's possible from a lighting control platform.

The elegant new system-architecture incorporates new fixture, feature and effects-handling at its very heart.

The system features ground-breaking concepts from top industry visionaries, presented within a refined user interface, and is designed to make practical tasks more intuitive.

The physical design detail of the grandMA3 range is extraordinary and focused on delivering the best possible user experience, now and into the future.

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grandMA3 full-size

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*grandMA3 full-size*

# grandMA3 FEATURES

## Huge screen real-estate

The grandMA3 full-size and light models feature huge multi-touch screen surface area; All dedicated encoder and playback information is accessed directly on the letterbox screens allowing the larger screens to be fully-configured to suit user needs.

## Work without boundaries

grandMA3 breaks the limitations of Local Area Networks (LAN) with the ability to access Wide Area Networks (WAN). Software updates, technical support, online help and fixture downloads are all features to be supported within the WAN framework.

Using the advanced MA-Net3 protocol, grandMA3 systems can output up to 250,000 parameters. There are three sizes of grandMA3 processing units to expand the console parameter count.

## Robust and durable

The grandMA3 full-size and light models incorporate a sophisticated thermal design, transferring heat to a cooling corridor, which isolates critical components from harmful dust and keeps fan-noise to a whisper.

The lightweight chassis has been designed for durability and easy handling. The large screen housing on the full-size and light models have a dual friction hinge system, providing fast-folding for portability whilst ensuring maximum visibility for users.

## Real-world fixtures and GDTF

The grandMA3 control software utilizes a flexible new fixture concept, developed to replicate the real-world physical components of the most complex fixtures. Fixture information is now generic and allows simpler sharing of programmed data between fixtures. MA Lighting supports the new GDTF (General Device Type Format) protocol natively, allowing fixture manufactures to ensure their own fixtures are controlled as intended.

## Dual Encoders

The grandMA3 console features Dual Encoders, which provide users with intuitive control of additional features and functions.

Feature-mapping of the dual encoders is customizable, facilitating ease of use and faster programming.



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## Enhanced playback capability

Long-life motorized playback faders are used across the entire grandMA3 console range. The faders incorporate a color-changing light pipe on all models except the onPC command wing.

A fully flexible assignment of playback functionality allows for 30% more playback handles than any previous grandMA series console. All playbacks have direct access to button pushes as well as intensity and timing changes thanks to the new rotary RGB backlit encoders.



## Key to the future

New buttons have been specifically developed for the grandMA3 consoles, to satisfy the needs of the most demanding users.

The almost-silent buttons feature low travel and have a positive actuation-point, ensuring fast, accurate operation and a tactile experience that professional users will appreciate.

Even the backlit button-caps have been ergonomically optimized to reduce mis-hits.

## Improved workflow

grandMA3 has a refined user interface designed to be ergonomic yet fully featured. Users can customize their workflow to incorporate favorite options and features, without cluttering their workspace.

Standard default-configurations for screen views and playback layout are fully featured but can be customized, providing a new level of flexibility that many grandMA console users will appreciate.

## Advanced processing technology

At the heart of the grandMA3 control system is a powerful new MA designed processing engine featuring high performance Intel® technology. The capacity and power of the cutting-edge hardware is far in excess of current requirements, allowing plenty of headroom for future developments.

## Integration

In addition to the lighting control capabilities, the grandMA3 software features an integrated 3D visualiser for pre-programming, and the ability to manipulate and playback basic media content directly from within the console.

Designed from the ground-up to incorporate audio and video content, grandMA3 software provides seamless interaction across the platform.

Optimum performance is resource dependent, therefore additional processing hardware will be required in some instances.

## Connectivity

A consistent theme for MA Lighting consoles is connectivity, and the grandMA3 console is no exception. All console variants come with a full set of hardware connections suitable for Midi, LTC, Audio in and out, local Trigger inputs and multiple Ethernet connections for expanded functionality.

## Improved Effects

Dynamic effects are no longer restricted to just two step modulated parameters. The grandMA3 software has a totally new effects concept allowing, multi-step effect sequences to be nested inside a cue or preset. "Phasers" are treated just like static parameter values and respect normal programming syntax.

## grandMA3 onPC

onPC versions of the grandMA3 software are available for Windows 10 and macOS®.

The grandMA3 onPC Windows version can be used in conjunction with the grandMA3 onPC command wing and grandMA3 onPC xPort Nodes as standalone systems.

The grandMA3 macOS® version can only be used as a preprogramming tool, back-up or as a designer display.

## grandMA2 compatibility

The grandMA3 control consoles are compatible with shows created on grandMA2 consoles. Where features allow, existing shows can be exported from grandMA2 software 3.4 for use in all grandMA3 console models.

The grandMA3 full-size and light console models also incorporate fully featured Mode2, which runs native grandMA2 software version 3.4 and later.



*grandMA3 full-size Mode2*

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## THE grandMA3 SERIES

The grandMA3 operating system is completely new and has been designed to feel more welcoming to fresh converts without alienating existing grandMA programmers. Extensive user feedback has been incorporated to ensure the new functionality address' the real world needs of the MA family.

The fundamental syntax of the grandMA2 has been preserved and extended to facilitate the new functionality. The grandMA3 software has an elegant new system-architecture incorporating new fixture, feature and effects-handling at it's very heart.

These ground-breaking concepts from top industry visionaries, are presented within a refined user interface, and are designed to make practical tasks more intuitive. Selecting fixtures, adjusting values, storing presets and playing back cues should all feel familiar, but improved in many details of the process. Better overview, faster access and more accurate information will create an improved user experience in programming and busking a show.

Fixture information is now generic and allows simpler sharing of programmed data between fixtures. We also support the new GDTF (General Device Type Format) natively, allowing fixture manufacturers to ensure their own fixtures are controlled as intended.



# grandMA3 full-size

Art.-No. 4010500

- Real-time control for up to 250,000 parameters per session in connection with grandMA3 processing units
- 6 DMX outputs, 1 DMX input
- 3 internal foldable monitor multi-touch screens
- 3 internal letterbox multi-touch screens
- 2 internal multi-touch command screens
- 2 external multi-touch screens can be connected
- 2 multipurpose level wheels
- 2 multipurpose single encoder
- 71 rotary RGB backlit encoder
- 5 backlit dual encoders
- 30 backlit motorized 60mm faders
- 120 separate playbacks
- 16 assignable x-keys
- Integrated keyboard drawer
- Built-in uninterruptible power supply (UPS)
- 3 etherCON connectors, 6 USB connectors
- 2 backlit motorized A/B faders 100mm
- Individually backlit and dimmable silent (clickless) keys



The grandMA3 full-size console is the flagship of the range. It offers the ultimate MA lighting control hardware and is designed for professionals that appreciate the hands-on flexibility that a no-compromise solution can offer.

The assignable level wheel section and a dedicated master playback group provide fingertip access to powerful functionality. Add the 120 physical playbacks and 16 assignable x-keys and the grandMA3 full-size console offers the most flexible playback platform MA Lighting have ever produced.

The grandMA3 full-size console includes 12,288 control parameters as standard, ensuring that it is the perfect base platform for the world's most prestigious entertainment lighting applications. The system size is scalable to 250,000 parameters with the use of additional grandMA3 processing units.

Huge multi-touch screen real-estate provides instant access to programming tools and is fully configurable to suit individual needs. The three letterbox screens are context sensitive and dedicated to providing feedback and options for the grandMA3 playback and encoder hardware.

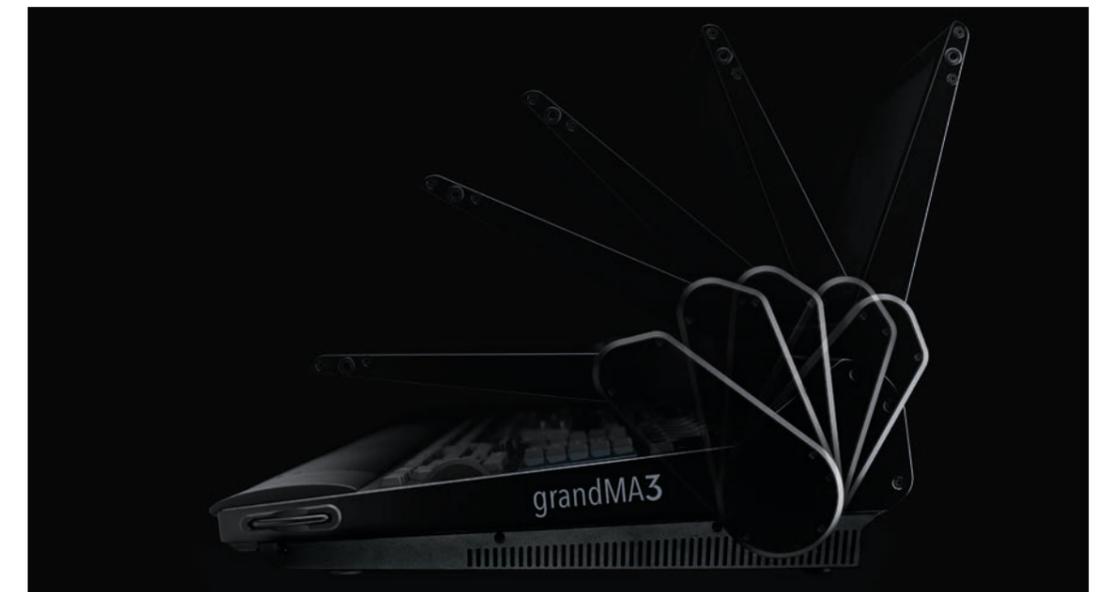
The grandMA3 full-size is compatible with grandMA2 and grandMA3 software. The hardware is ergonomically optimized and can be considered a silent version by default.

The grandMA3 lighting control consoles offer a fresh user interface with an optimized command section for intuitive and fast access.

The grandMA3 consoles features dual encoders, which provide users with intuitive control of additional features and functions. Feature-mapping of the dual encoders is customizable, facilitating ease of use and faster programming.

Long-life motorized playback faders are used across the entire grandMA3 console range. The faders incorporate a color-changing light pipe. All playbacks have direct access to button pushes as well as intensity and timing changes thanks to the new rotary RGB backlit encoders.

PARAMETER	12,288 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 350VA	
DIMENSIONS	1,260 x 538 x 185 mm / 49.6 x 21.2 x 7.3 inches (width x depth x height, when folded)	
NET WEIGHT	ca. 40kg / approx. 88lbs	
CONNECTORS	1 x powerCON TRUE1 3 x etherCON/RJ45 6 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female) 1 x Linear Time Code IN (3pin XLR female) 1 x Audio IN (3pin XLR female)	1 x GPI General Purpose Interface (SUB D 9 female) for remote control 2 x DisplayPort for external monitors 2 x S/PDIF IN and OUT 3 x USB 2.0 (type A) 3 x USB 3.0 (type A) 2 x LED desk light (4pin XLR female)



# grandMA3 full-size CRV

(Control Room Version)

Art.-No. 4010501

- Real-time control for up to 250,000 parameters per session in connection with grandMA3 processing units
- 6 DMX outputs, 1 DMX input
- 3 internal letterbox multi-touch screens
- 2 internal multi-touch command screens
- 5 external multi-touch screens can be connected
- 2 multipurpose level wheels
- 2 multipurpose single encoder
- 71 rotary RGB backlit encoder
- 5 backlit dual encoders
- 30 backlit motorized 60mm faders
- 120 separate playbacks
- 16 assignable x-keys
- Integrated keyboard drawer
- Built-in uninterruptible power supply (UPS)
- 3 etherCON connectors, 6 USB connectors
- 2 backlit motorized A/B faders 100mm
- Individually backlit and dimmable silent (clickless) keys



The grandMA3 full-size Control Room Version (CRV) console is the flagship of the range but supplied without the monitor wing. Designed for use in control rooms where sightlines can be challenging, the grandMA3 full-size CRV features 3 additional external monitor ports to facilitate the convenient location of external 3rd party touchscreens without compromising the grandMA3 full-size console functionality.

The assignable level wheel section and a dedicated master playback group provide fingertip access to powerful functionality. Add the 120 physical playbacks and 16 assignable x-keys and the grandMA3 full-size console offers the most flexible playback platform MA Lighting have ever produced. The grandMA3 full-size CRV console includes 12,288 control parameters as standard, ensuring that it is the perfect base platform for the world's most prestigious entertainment lighting applications. The system size is scalable to 250,000 parameters with the use of additional grandMA3 processing units. The three letterbox screens are context sensitive and dedicated to providing feedback and options for the grandMA3 console playback and encoder hardware.

The grandMA3 full-size CRV is compatible with grandMA2 and grandMA3 software. The hardware is ergonomically optimized and can be considered a silent version by default.

PARAMETER	12,288 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100–240V, 50/60Hz	
POWER	max. 350VA	
DIMENSIONS	1,215 x 538 x 170 mm / 47.8 x 21.2 x 6.7 inches (width x depth x height)	
NET WEIGHT	ca. 32kg / approx. 71lbs	
CONNECTORS	1 x powerCON TRUE1 3 x etherCON/RJ45 6 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female) 1 x Linear Time Code IN (3pin XLR female) 1 x Audio IN (3pin XLR female)	1 x GPI General Purpose Interface (SUB D 9 female) for remote control 5 x DisplayPort for external monitors 2 x S/PDIF IN and OUT 3 x USB 2.0 (type A) 3 x USB 3.0 (type A) 2 x LED desk light (4pin XLR female)



# grandMA3 light

Art.-No. 4010502

- Real-time control for up to 250,000 parameters per session in connection with grandMA3 processing units
- 6 DMX outputs, 1 DMX input
- 2 internal foldable monitor multi-touch screens
- 2 internal letterbox multi-touch screens
- 2 internal multi-touch command screens
- 2 external multi-touch screens can be connected
- 41 rotary RGB backlit encoder
- 5 backlit dual encoders
- 15 backlit motorized 60mm faders
- 60 separate playbacks
- 16 assignable x-keys
- Integrated keyboard drawer
- Built-in uninterruptible power supply (UPS)
- 3 etherCON connectors, 6 USB connectors
- 2 backlit motorized A/B faders 100mm
- Individually backlit and dimmable silent (clickless) keys



The grandMA3 light console is the work-horse of the range. It provides the perfect combination of power and physical size. The grandMA3 light console is suitable for all but the most demanding productions, making it probably the most versatile lighting console available.

Featuring 60 physical playbacks, 16 assignable x-keys and a dedicated master playback section the grandMA3 light console provides plenty of playback options. Huge multi-touch screen real-estate provides instant access to programming tools and is fully configurable to suit individual needs. The two letterbox screens are context sensitive and dedicated to providing feedback and options for the grandMA3 light console playback and encoder hardware. The grandMA3 light console includes 8,192 control parameters as standard, ensuring that it is the perfect base platform for the world's most prestigious entertainment lighting applications. The system size is scalable to 250,000 parameters with the use of additional grandMA3 processing units. The grandMA3 light is compatible with grandMA2 and grandMA3 software. The hardware is ergonomically optimized and can be considered a silent version by default.

PARAMETER	8,192 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 350VA	
DIMENSIONS	856 x 538 x 185 mm = 33.7 x 21.2 x 7.3 inches (width x depth x height, when folded)	
NET WEIGHT	ca. 30kg / approx. 66lbs	
CONNECTORS	1 x powerCON TRUE1 3 x etherCON/RJ45 6 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female) 1 x Linear Time Code IN (3pin XLR female) 1 x Audio IN (3pin XLR female)	1 x GPI General Purpose Interface (SUB D 9 female) for remote control 2 x DisplayPort for external monitors 2 x S/PDIF IN and OUT 3 x USB 2.0 (type A) 3 x USB 3.0 (type A) 2 x LED desk light (4pin XLR female)

# grandMA3 light CRV

(Control Room Version)

Art.-No. 4010503

- Real-time control for up to 250,000 parameters per session in connection with grandMA3 processing units
- 6 DMX outputs, 1 DMX input
- 2 internal letterbox multi-touch screens
- 2 internal multi-touch command screens
- 4 external multi-touch screens can be connected
- 41 rotary RGB backlit encoder
- 5 backlit dual encoders
- 15 backlit motorized 60mm faders
- 60 separate playbacks
- 16 assignable x-keys
- Integrated keyboard drawer
- Built-in uninterruptible power supply (UPS)
- 3 etherCON connectors, 6 USB connectors
- 2 backlit motorized A/B faders 100mm
- Individually backlit and dimmable silent (clickless) keys



The grandMA3 light Control Room Version (CRV) console is the work-horse of the range but supplied without the monitor wing. Designed for use in control rooms where sightlines can be challenging, the grandMA3 light CRV features 2 additional external monitor ports to facilitate the convenient location of external 3rd party touchscreens without compromising the grandMA3 light console functionality.

Featuring 60 physical playbacks, 16 assignable x-keys and a dedicated master playback section the grandMA3 light CRV console provides plenty of playback options. The two letterbox screens are context sensitive and dedicated to providing feedback and options for the grandMA3 light CRV console playback and encoder hardware. The grandMA3 light CRV console includes 8,192 control parameters as standard, ensuring that it is the perfect base platform for the world's most prestigious entertainment lighting applications. The system size is scalable to 250,000 parameters with the use of additional grandMA3 processing units. The grandMA3 light CRV is compatible with grandMA2 and grandMA3 software. The hardware is ergonomically optimized and can be considered a silent version by default.

PARAMETER	8,192 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 350VA	
DIMENSIONS	812 x 538 x 170 mm = 32 x 21.2 x 6.7 inches (width x depth x height)	
NET WEIGHT	ca. 24kg / approx. 53lbs	
CONNECTORS	1 x powerCON TRUE1 3 x etherCON/RJ45 6 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female) 1 x Linear Time Code IN (3pin XLR female) 1 x Audio IN (3pin XLR female)	1 x GPI General Purpose Interface (SUB D 9 female) for remote control 4 x DisplayPort for external monitors 2 x S/PDIF IN and OUT 3 x USB 2.0 (type A) 3 x USB 3.0 (type A) 2 x LED desk light (4pin XLR female)

# grandMA3 extension

Art.-No. 4010504



- 1 internal letterbox multi-touch screen
- 2 multipurpose level wheels
- 2 multipurpose single encoder
- 30 rotary RGB backlit encoder
- 15 backlit motorized 60mm faders
- 60 separate playbacks
- 1 etherCON connector
- Individually backlit and dimmable silent (clickless) keys

The grandMA3 extension is the perfect solution for remote playbacks on a small footprint and will be remote connected to the grandMA3 full-size, light or replay unit models.

The grandMA3 extension can be used for follow spot caller, keylighting board operator, remote media server live calls or just as extension for the grandMA3 full-size, light and replay unit. It comes with the letterbox screen built-in and will be remote connected via Ethernet for a highly flexible solution. 60 freely configurable playbacks including 15 motorized and RGB backlit faders and 30 RGB backlit rotary encoder plus additional encoders and level wheels add to the flexibility of the grandMA3 system.

PARAMETER	none
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz
POWER	max. 75VA
DIMENSIONS	405 x 538 x 170 mm / 16 x 21.2 x 6.7 inches (width x depth x height)
NET WEIGHT	ca. 10kg / approx. 22lbs
CONNECTORS	1 x powerCON TRUE1 1 x etherCON/RJ45 1 x LED desk light (4pin XLR female)

# grandMA3 replay unit

(RPU)

Art.-No. 4010507



- Real-time control for up to 250,000 parameters per session in connection with grandMA3 processing units
- 6 DMX outputs, 1 DMX input
- 2 external multi-touch screens can be connected
- 1 internal command multi-touch screen
- 3 etherCON connectors
- 3 USB connectors
- Various control interfaces

The grandMA3 replay unit offers the same features and functions as the grandMA3 consoles in a 19" housing. It can be easily built into a rack and is therefore perfect for fixed installations like theatre, studio or architectural lighting control or as a backup solution.

The grandMA3 replay unit is a very safe playback/master controller, because there are no built-in faders or buttons to avoid faulty operations. Instead, the unit is operated by using the integrated touch screen or a mouse and keyboard, connected via USB. A wide range of interfaces assures the most flexible use and the best performance within architectural systems.

PARAMETER	4,096 (HTP/LTP)
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz
POWER	max. 250VA
DIMENSIONS	482 x 350 x 89 mm / 19 x 13.8 x 3.5 inches (width x depth x height)
NET WEIGHT	ca. 8kg / approx. 18lbs
CONNECTORS	1 x powerCON TRUE1 3 x etherCON/RJ45 6 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female) 1 x Linear Time Code IN (3pin XLR female)
	1 x Audio IN (3pin XLR female) 1 x GPI General Purpose Interface (SUB D 9 female) for remote control 2 x DisplayPort for external monitors 2 x S/PDIF IN and OUT 3 x USB 2.0 (type A)

# grandMA3 compact XT

Art.-No. 4010505

- Real-time control for up to 250,000 parameters per session in connection with grandMA3 processing units
- 6 DMX outputs, 1 DMX input
- 2 internal foldable monitor multi-touch screens
- 1 external multi-touch screen can be connected
- 39 rotary RGB backlit encoder
- 5 dual encoders
- 15 backlit motorized 60mm faders
- 60 separate playbacks
- 16 assignable x-keys
- 3 etherCON connectors, 5 USB connectors
- 2 backlit motorized A/B faders 100mm
- Individually backlit and dimmable silent (clickless) keys



The grandMA3 compact XT console is the larger of the two compact models, offering the full system benefits of the grandMA3 system, housed in a compact and lightweight format. Easy to transport, the compact models are ideal for owner/operators and also the console of choice for tech-desk duties.

The compact XT console features 2 huge multi-touch monitors, 5 dual encoders and a complete command section almost identical to the larger models. With 60 physical playbacks, 16 assignable x-keys and a dedicated master playback section the grandMA3 compact XT console provides plenty of playback options. The grandMA3 compact XT console includes 4,096 control parameters as standard, making it an ideal choice for small and medium sized professional entertainment lighting applications. The system size is scalable to 250,000 parameters with the use of additional grandMA3 processing units.

The grandMA3 compact XT is only compatible with grandMA3 software.

PARAMETER	4,096 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 250VA	
DIMENSIONS	845 x 435 x 165 mm = 33.3 x 17.1 x 6.5 inches (width x depth x height, when folded)	
NET WEIGHT	ca. 20kg / approx. 44lbs	
CONNECTORS	1 x powerCON TRUE1 3 x etherCON/RJ45 6 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female) 1 x Linear Time Code IN (3pin XLR female) 1 x Audio IN (3pin XLR female)	1 x GPI General Purpose Interface (SUB D 9 female) for remote control 1 x DisplayPort for external monitors 2 x S/PDIF IN and OUT 3 x USB 2.0 (type A) 2 x USB 3.0 (type A) 1 x LED desk light (4pin XLR female)

# grandMA3 compact

Art.-No. 4010506

- Real-time control for up to 250,000 parameters per session in connection with grandMA3 processing units
- 6 DMX outputs, 1 DMX input
- 1 internal foldable monitor multi-touch screen
- 1 external multi-touch screen can be connected
- 29 rotary RGB backlit encoder
- 5 dual encoders
- 10 backlit motorized 60mm faders
- 40 separate playbacks
- 16 assignable x-keys
- 3 etherCON connectors, 5 USB connectors
- 2 backlit motorized A/B faders 100mm
- Individually backlit and dimmable silent (clickless) keys



The grandMA3 compact console is the smaller of the two compact models, offering the full system benefits of the grandMA3 system, housed in a compact and lightweight format. Easy to transport, the compact models are ideal for owner/operators and also the console of choice for tech-desk duties.

The compact console features a huge multi-touch monitor, 5 dual encoders and a complete command section almost identical to the larger models. With 40 physical playbacks, 16 assignable x-keys and a dedicated master playback section the grandMA3 compact console provides plenty of playback options. The grandMA3 compact console includes 4,096 control parameters as standard, making it an ideal choice for small and medium sized professional entertainment lighting applications. The system size is scalable to 250,000 parameters with the use of additional grandMA3 processing units.

The grandMA3 compact is only compatible with grandMA3 software.

PARAMETER	4,096 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 250VA	
DIMENSIONS	665 x 435 x 165 mm = 26.2 x 17.1 x 6.5 inches (width x depth x height, when folded)	
NET WEIGHT	ca. 17kg / approx. 37lbs	
CONNECTORS	1 x powerCON TRUE1 3 x etherCON/RJ45 6 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female) 1 x Linear Time Code IN (3pin XLR female) 1 x Audio IN (3pin XLR female)	1 x GPI General Purpose Interface (SUB D 9 female) for remote control 1 x DisplayPort for external monitors 2 x S/PDIF IN and OUT 3 x USB 2.0 (type A) 2 x USB 3.0 (type A) 1 x LED desk light (4pin XLR female)

# grandMA3 processing unit

The grandMA3 processing units are designed for rack mounting and all models are only 2RU, allowing for efficient touring solutions. Each model is equipped with 8 DMX outputs for frame-synchronous DMX output throughout the network. Additional frame-synchronous DMX outputs are available with the addition of grandMA3 xPort Nodes.

grandMA3 processing units offer a perfect system overview on the integrated touchscreen. This easy access to important functions allows for best maintenance if installed in a dedicated rack whilst every function can be monitored from the grandMA3 session.

For larger systems it is suggested to keep the grandMA3 processing units in a centralized position for parameter expansion and to use grandMA3 xPort Nodes to distribute and output the frame-synchronous DMX data.

## grandMA3 processing unit XL

Art.-No. 4010508



The grandMA3 processing unit XL is the ultimate parameter expansion solution offering substantial cost and size savings. It's the simplest way to design grandMA3 lighting control systems with up to 250,000 parameters. The powerful CPU ensures frame-synchronous calculation of 16,384 parameters within the MA-Net3 environment. Additionally, the grandMA3 processing unit XL offers a Mode2 to expand existing grandMA2 systems by 4,096 parameters.

PARAMETER	16,384 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 200VA	
DIMENSIONS	482 x 350 x 89 mm / 19 x 13.8 x 3.5 inches (width x depth x height)	
NET WEIGHT	ca. 6kg / approx. 13lbs	
CONNECTORS	1 x powerCON TRUE1 2 x etherCON/RJ45	8 x DMX-512-A OUT (5pin XLR female) 3 x USB 2.0 (type A)

## grandMA3 processing unit L

Art.-No. 4010509



The grandMA3 processing unit L expands the system by 8,192 parameters and offers frame-synchronous calculation of the parameters within the MA-Net3 environment. Designed for larger systems, the L model offers a more cost effective and compact solution for parameter expansion. Additionally, the grandMA3 processing unit L offers a Mode2 to expand existing grandMA2 systems by 4,096 parameters.

PARAMETER	8,192 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 200VA	
DIMENSIONS	482 x 350 x 89 mm / 19 x 13.8 x 3.5 inches (width x depth x height)	
NET WEIGHT	ca. 6kg / approx. 13lbs	
CONNECTORS	1 x powerCON TRUE1 2 x etherCON/RJ45	8 x DMX-512-A OUT (5pin XLR female) 3 x USB 2.0 (type A)

## grandMA3 processing unit M

Art.-No. 4010510



The grandMA3 processing unit M increases the overall grandMA3 system by 4,096 parameters and enables the system designer to expand the lighting control system in small steps. Besides the powerful CPU for frame-synchronous calculation, the grandMA3 processing unit M additionally offers a Mode2 to expand existing grandMA2 systems by 4,096 parameters.

PARAMETER	4,096 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 200VA	
DIMENSIONS	482 x 350 x 89 mm / 19 x 13.8 x 3.5 inches (width x depth x height)	
NET WEIGHT	ca. 6kg / approx. 13lbs	
CONNECTORS	1 x powerCON TRUE1 2 x etherCON/RJ45	8 x DMX-512-A OUT (5pin XLR female) 3 x USB 2.0 (type A)

# grandMA3 xPort Node

Every grandMA3 xPort Node is designed for the ever-increasing demands in touring and fixed installation applications to build a reliable and stable backbone of synchronized data transportation. All Nodes are remotely configurable from any console/onPC within the session to provide easy access to DMX output or DMX input.

Every grandMA3 xPort Node is capable of handling MA-Net3, MA-Net2, sACN and Art-Net data and is fully RDM compliant. A 50mm monitor on the front face allows for simple configuration and provides a quick overview of the status of each Node.

All grandMA3 xPort Nodes are equipped with a powerful processor and a 1000Mbit/s Ethernet connection to ensure the most reliable and stable Ethernet to DMX and vice versa conversion.

The grandMA3 onPC xPort Nodes are high quality solutions that can handle busy Ethernet connections without ditching DMX or RDM messages.

It has never been easier to design and maintain stable DMX capable networks.

## grandMA3 8Port Node

Art.-No. 4010517



The grandMA3 8Port Node is the largest Ethernet to DMX converter from MA Lighting. Specifically designed to synchronously output 8 DMX universes from any grandMA3 session, the 19", 1RU housing is suitable for touring and fixed installations.

PARAMETER	none	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 10VA	
DIMENSIONS	485 x 190 x 43 mm / 19.1 x 7.5 x 1.7 inches (width x depth x height)	
NET WEIGHT	ca. 2kg / approx. 4lbs	
CONNECTORS	1 x powerCON TRUE1	8 x DMX-512-A OUT (5pin XLR female)
	1 x etherCON/RJ45	1 x USB 2.0 (type A)

## grandMA3 4Port Node

Art.-No. 4010516



The grandMA3 4Port Node is our most popular converter for Ethernet to DMX data in a half width, 1RU housing. The Node synchronously outputs 4 DMX universes from any grandMA3 session and is suitable for touring and fixed installations. A unique bracket accessory allows for alternative fixing methods if required.

PARAMETER	none	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 10VA	
DIMENSIONS	207 x 184 x 43 mm / 8.1 x 7.2 x 1.7 inches (width x depth x height)	
NET WEIGHT	ca. 1kg / approx. 2lbs	
CONNECTORS	1 x powerCON TRUE1	4 x DMX-512-A OUT (5pin XLR female)
	1 x etherCON/RJ45	1 x USB 2.0 (type A)

## grandMA3 2Port Node

Art.-No. 4010515



The grandMA3 2Port Node is our smallest solution for converting Ethernet to DMX data. Easy to install this small half width, 1RU housing Node just synchronously outputs 2 DMX universes from any grandMA3 session, wherever needed. A unique bracket accessory allows for alternative fixing methods if required.

PARAMETER	none	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 10VA	
DIMENSIONS	207 x 184 x 43 mm / 8.1 x 7.2 x 1.7 inches (width x depth x height)	
NET WEIGHT	ca. 1kg / approx. 2lbs	
CONNECTORS	1 x powerCON TRUE1	2 x DMX-512-A OUT (5pin XLR female)
	1 x etherCON/RJ45	1 x USB 2.0 (type A)

3



# grandMA3 onPC solution



MA Lighting offers the perfect solutions for getting started with. Simply download the grandMA3 onPC software and connect to any of the "onPC" products to unlock parameters.

The amount of DMX outputs varies with each onPC product but all of them unlock parameters for the full grandMA3 software functionality. There is no compromise in feature set and the range of products allow you to make the right choice for your budget or individual needs.

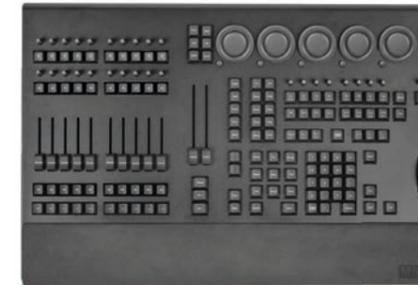
There are two choices for onPC solutions: the grandMA3 onPC command wing, which offers the ultimate grandMA3 mobile solution; and the grandMA3 onPC xPort Nodes, which offer the most cost-effective DMX output solution for software only show control.

All grandMA3 onPC xPort Nodes are equipped with a powerful processor and a 1000Mbit/s Ethernet connection to ensure the most reliable and stable Ethernet to DMX and vice versa conversion.

Every grandMA3 onPC xPort Node is capable of handling MA-Net3, MA-Net2, sACN and Art-Net data and is fully RDM compliant. A 50mm monitor on the front face allows for simple configuration and provides a quick overview of the status of each Node.

## grandMA3 onPC command wing

Art.-No. 4010511



- Real-time control for 2,048 parameters in combination with grandMA3 onPC
- Expandable up to 4,096 parameters with onPC products and grandMA3 onPC
- Command section similar to grandMA3 compact layout
- 29 rotary RGB backlit encoder
- 5 dual encoders
- 10 motorized 60mm faders
- 40 separate playbacks
- 16 assignable x-keys
- 2 motorized A/B faders 100mm
- 1 Level-Wheel
- Individually backlit and dimmable silent (clickless) keys
- Just connect via USB to any PC running grandMA3 onPC

The grandMA3 onPC command wing is the ultimate grandMA3 mobile solution. In combination with the free of charge grandMA3 onPC software, the grandMA3 onPC command wing is a portable 2,048 parameter control solution that can be used in nearly any location – and all for an affordable price! It offers two built-in DMX ports as well as the possibility to send two additional DMX universes via Ethernet protocols with grandMA3 onPC software.

Designed as the perfect hardware expansion to the grandMA3 onPC software, the grandMA3 onPC command wing enables the look and feel of the software to be as close to a real grandMA3 console as possible.

Thanks to the grandMA3 onPC command wing incorporating the command section of the grandMA3 consoles, it has never been easier to use the grandMA3 onPC software. With a simple USB connection between the grandMA3 onPC command wing and the computer running the grandMA3 onPC software, all inputs and outputs of a grandMA3 console are available to the user. DMX, Midi, Timecode and Remote Control are all on hand directly at the grandMA3 onPC command wing. Wherever it is physically difficult to use a grandMA3 console, the grandMA3 onPC command wing, in conjunction with the grandMA3 onPC software, enables the customer to program or playback within the grandMA3 world. Therefore, the grandMA3 onPC command wing is ideal to be used as a backup solution within the grandMA3 system, as powerful control solution on the road or for smaller theatres, shows and clubs or for pre-programming.

Standalone grandMA3 onPC systems are limited to 4,096 parameters. The grandMA3 onPC command wing provides 2,048 parameters and any grandMA3 onPC Node can be added to the system to achieve the maximum parameter count and additional DMX outputs.

PARAMETER	2,048 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100–240V, 50/60Hz	
POWER	max. 75VA	
DIMENSIONS	625 x 430 x 105 mm / 24.6 x 16.9 x 4.1 inches (width x depth x height)	
NET WEIGHT	ca. 9kg / approx. 20lbs	
CONNECTORS	1 x IEC cord 2 x DMX-512-A OUT (5pin XLR female) 1 x DMX-512-A IN (5pin XLR male) 1 x MIDI IN (5pin DIN female) 1 x MIDI OUT (5pin DIN female)	1 x Linear Time Code IN (3pin XLR female) 1 x GPI General Purpose Interface (SUB D 9 female) for remote control 1 x USB 2.0 (type B) 1 x LED desk light (4pin XLR female)

## grandMA3 onPC 8Port Node 4k

Art.-No. 4010514



The grandMA3 onPC 8Port Node 4K enables 4,096 parameters with the grandMA3 onPC software and has 8 DMX outputs on the rear side. Packed in a 19"1RU housing, it is suitable for touring and fixed installations and is the most powerful Ethernet to DMX converter for the grandMA3 onPC solutions.

PARAMETER	4,096 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 10VA	
DIMENSIONS	485 x 190 x 43 mm / 19.1 x 7.5 x 1.7 inches (width x depth x height)	
NET WEIGHT	ca. 2kg / approx. 4lbs	
CONNECTORS	1 x powerCON TRUE1	8 x DMX-512-A OUT (5pin XLR female)
	1 x etherCON/RJ45	1 x USB 2.0 (type A)

## grandMA3 onPC 2Port Node 2k

Art.-No. 4010512



The grandMA3 onPC 2Port Node 2K enables 2,048 parameters with the grandMA3 onPC software offering 2 frame-synchronous DMX outputs. It's the perfect partner product to increase the parameter count of a grandMA3 onPC command wing up to the maximum of 4,096 parameters. The half width, 1RU housing is the perfect size for touring and fixed applications. A unique bracket accessory allows for alternative fixing methods if required.

PARAMETER	2,048 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 10VA	
DIMENSIONS	207 x 184 x 43 mm / 8.1 x 7.2 x 1.7 inches (width x depth x height)	
NET WEIGHT	ca. 1kg / approx. 2lbs	
CONNECTORS	1 x powerCON TRUE1	2 x DMX-512-A OUT (5pin XLR female)
	1 x etherCON/RJ45	1 x USB 2.0 (type A)

## grandMA3 onPC 4Port Node 4k

Art.-No. 4010513



The grandMA3 onPC 4Port Node 4K enables 4,096 parameters with the grandMA3 onPC software offering 4 frame-synchronous DMX outputs. The half width, 1RU housing is the perfect size for touring and fixed applications. A unique bracket accessory allows for alternative fixing methods if required.

PARAMETER	4,096 (HTP/LTP)	
OPERATING VOLTAGE/SUPPLY VOLTAGE	100-240V, 50/60Hz	
POWER	max. 10VA	
DIMENSIONS	207 x 184 x 43 mm / 8.1 x 7.2 x 1.7 inches (width x depth x height)	
NET WEIGHT	ca. 1kg / approx. 2lbs	
CONNECTORS	1 x powerCON TRUE1	4 x DMX-512-A OUT (5pin XLR female)
	1 x etherCON/RJ45	1 x USB 2.0 (type A)

# grandMA3 software

Version 1.0

Art.-No. 4010520



The grandMA3 software is the soul of the grandMA3 platform and is designed to accommodate the current and future needs of lighting control. The software has a refined user interface designed to be ergonomic yet fully featured. Users can customize their workflow to incorporate favourite options and features, without cluttering their workspace. Standard default-configurations for screen views and playback layout are comprehensive but can be customized, providing a new level of flexibility that many grandMA console users will appreciate.

The grandMA3 represents a radical re-think of what's possible from a lighting control platform. The system features ground-breaking concepts from top industry visionaries and is designed to make practical tasks more intuitive. The new General Fixture Type Format (GDTF) protocol is supported natively, ensuring fixtures perform precisely as their manufacturers intended and resulting in less time wasted during set-up.



The playback options on grandMA3 allow for maximum usability of all sequences. Users can now assign any function to any action of a button, fader or encoder. From a simple GO+ functionality on a single button press, to fast-forwarding when an encoder is turned clockwise and fast-backwards when turned anti-clockwise.

The grandMA3 software has a totally new effects concept, allowing multi-step effect sequences to be nested inside a cue or preset. "Phasers" are treated just like static parameter values and respect normal programming syntax.

Daytime programming at a summer festival can be very challenging and requires higher screen contrast compared to indoor use. With grandMA3, users can choose between default day and night color themes and can also edit and save custom color themes to suit their individual needs.

With the introduction of Datapools, the grandMA3 takes the multiuser environment to a whole new level. A single show file can now be used for several stages and/or several operators for one stage. Ideal for use at festivals and for support/main act separation when touring.

Datapools allow users to enjoy full access to their own unique pools and playback handles. Every user can work freely without sharing pool-items or playback handles, however users can share data if desired.



IN ADDITION TO THE ADVANCED FUNCTIONALITY, THE grandMA3 CAN STILL MASTER ALL OF THE BASICS:

- Selecting fixtures, adjusting values, storing presets and playing back cues should all feel familiar, but improved.
- Better overview, faster access and more accurate information create an improved user experience whilst programming and busking shows.
- The grandMA3 software incorporates a programmer with active values, which is seamlessly integrated into the overall playback. The programmer can be specifically masked or filtered to instantly locate key information.
- Preview is available as well as Blind, Highlight and Solo functionality. Store options speeds-up the workflow for secure data handling at any time. Timing can be stored or assigned to any Cue, Preset and even individual attributes of each fixture.
- Customizable Appearance and Scribble functionality are available for personalizing the look and feel of all user views and data.

# grandMA3 RANGE OVERVIEW

## Consoles



grandMA3 full-size  
(12,288 parameters)



grandMA3 full-size CRV (Control Room Version)  
(12,288 parameters)



grandMA3 light  
(8,192 parameters)



grandMA3 light CRV (Control Room Version)  
(8,192 parameters)



grandMA3 extension



grandMA3 replay unit (RPU)  
(4,096 parameters)



grandMA3 compact XT  
(4,096 parameters)



grandMA3 compact  
(4,096 parameters)

## Processing



grandMA3 processing unit XL  
(16,384 parameters)



grandMA3 processing unit L  
(8,192 parameters)



grandMA3 processing unit M  
(4,096 parameters)

## Nodes



grandMA3 8Port Node



grandMA3 4Port Node



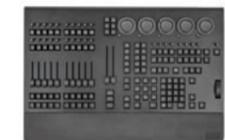
grandMA3 2Port Node

## onPC solutions



### grandMA3

grandMA3 onPC  
(Windows and Mac) –  
3D + Video included  
(Limited to 4,096 parameters)



grandMA3 onPC command wing  
(with motorized faders)  
(2,048 parameters)



grandMA3 onPC 8Port Node 4k  
(4,096 parameters)



grandMA3 onPC 4Port Node 4k  
(4,096 parameters)



grandMA3 onPC 2Port Node 2k  
(2,048 parameters)

System rules apply, please contact your local MA Lighting Distributor for further information.

# 3

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# grandMA3

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