

MA onPC
command wing

Small in size but big in detail

Just connect via USB to any notebook or PC
running grandMA2 onPC

The MA onPC command wing is intended to be used
as a powerfull control solution for:

- tours
- smaller shows and clubs
- programming in a theatre auditorium
as well as preprogramming
- entering the world of MA Lighting



The MA onPC command wing incorporates the famous MA reliability and MA's extremely flexible and comfortable ways of programming. It has the same "look and feel" as the grandMA2 consoles and it is fully compatible with the whole grandMA2 system. Designed as an addition to the grandMA2 onPC software it enables the customer to work nearly as fast with his computer and the grandMA2 onPC software as he could work on a real grandMA2 console.

Due to its tiny footprint and compact size the MA onPC command wing is perfect for travelling – even on a plane. But the MA onPC command wing is not only intended to be used as a powerful control solution for tours. It is also ideal to be used for smaller shows and clubs, for programming in a theatre auditorium as well as for preprogramming. Furthermore it is the perfect choice for any MA enthusiast to enter the world of MA lighting.

Intended Use

The complete grandMA2 family is intended for control of all kinds of lighting genres such as conventionals, moving lights, LEDs, video and media via DMX signal.



MA onPC command wing

standard accessory: dust cover, USB cable
optional: flight case

Manufacturer:

MA Lighting Technology GmbH
Dachdeckerstraße 16
Germany D – 97297 Waldbüttelbrunn

For more information and detailed manuals see: www.malighting.com Please check our Frequently Asked Questions first, that you can find online at www.malighting.com.

If there are any questions left, just send us an e-mail with your contact details and subject information at tech.support@malighting.com. This E-Mail Service is monitored during MA Lightings regular business hours in Germany. Alternatively you can call our Technical Support during that time: +49.5251.688865-30. For emergency services please contact your local distributor or contact the MA Lighting Service Hotline. Call: +49.5251.688865-99 **Please note, this 24 / 7 hotline is strictly for emergency cases (so-called show stoppers) – for people being in trouble out in the field. Thank you for your understanding.**

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Specification



Weight approx. 6 kg
Dimensions: 400 x 540 x 75 mm / 15,7 x 21,3 x 3,0 inch
2 DMX – OUT (XLR 5 pin)
DMX IN (XLR 5 pin)
LTC IN (XLR 3 pin)
Analog Remote IN 15 pin
Midi IN / OUT (Midi Timecode / Midi-Note)
Dimmable silent (clickless) keys
4x Encoder wheels
6x Fader (60mm) + 18 Executor Buttons / 6 Button Executor
2x A/B Fader (100mm)
Grandmaster –Fader (60mm)
Level –wheel

Slot for Kensington Lock (anti-theft protection)

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Current:

120 V ~ ,60 Hz (USA, Canada) – 230 V ~ ,50 Hz
Automatic operation, no switching necessary!

Caution: Use the identical electric circuit, respectively the identical protective earth potential for PC (onPC) and grand MA onPD command wing, otherwise damages of hardware and / or malfunction can result from connecting via the USB cable. That means, both units (PC and grandMA2 onPC command wing) must be connected to the same power socket or (if guaranteed) to the same electric circuit (protective earth and potential identical)!

Power cable:

Only adequately protected cables may be used (min. $\emptyset = 3 \times 1,0\text{mm}^2$). Cable and socket are not included in delivery.

Required plug connector:

Must meet the standard in the respective country. The plug connector is not included in delivery.

The socket should be serviced by qualified personnel only!

Power input:

max. 40 VA

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Transport

Please be aware of the weight of the product. Be careful when moving it; otherwise you may injure your back or other parts of your body.

MA onPC command wing **approx. 6 kg** without cover, packaging, case

Remove all cables prior to transport.

The user is responsible for securely fastening the products for the means of transport and for observing the safety regulations of the manufacturer when using means of transport. Non-compliance can result in personal injury or material damage.

Use original MA-Case for transport and storage or a comparable transport device.

Do not place the console on surfaces, vehicles, cabinets or tables that are for reasons of strength or stability unsuitable for this purpose. Do not twist the body.



Please be aware of temperature and humidity during transport. Limits see chapter “Safety and Environment”.

Check the apparatus after transport before installation! If body of the apparatus is damaged (bent or broken), or the monitor is broken or keys or faders are damaged do not connect the apparatus to power! Call our hotline for technical support.

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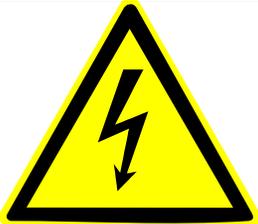
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Symbols and warning labels

				
<p>Warning Danger Area</p>	<p>Warning Danger of electric shock</p>	<p>Supply voltage ON/OFF</p>	<p>Alternating current (AC)</p>	<p>Dispose of as hazardous waste. Follow the local applicable regulations!</p>

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General Safety Instructions

Read all the instructions in the user's manual, especially the safety requirements, see Safety requirements
Follow all instructions. Keep the user's manual for future use.
Follow all cautions and warnings indicated on the unit.
Disconnect the mains plug before cleaning the unit; do not use any liquid or spray cleanser. Clean with a dry cloth.
Do not use the unit near water. Do not expose it to a humid environment. Do not spill any liquid over the unit.
Unplug this apparatus during lightning storms or when unused for long periods of time.
Do not block or cover any ventilation slots in the housing - they are necessary for the essential airflow within the unit and protect it against overheating. Do not install the unit into a frame unless sufficient ventilation is guaranteed. Install in accordance with the manufacturer's instructions.
Do not insert any objects through the slots of the unit, as these could get in contact with live parts or could cause short circuits. This could cause a fire and/or an electric shock.
Do not place the unit on unstable surfaces. It may fall and become damaged.
Do not place any objects on the power cord. Protect it from being walked on or pinched particularly at the plugs and the point where they exit from the apparatus.
If using an extension cord, make sure the rated output of all units connected in aggregate does not exceed the maximum rated output of the extension cord.
If the power cord or the mains plug is damaged, let a qualified technician replace it immediately.
Only use power cords which are safety-marked for purpose.
All service work should be exclusively performed by qualified service technicians.
Do not use any high-power walkie-talkies or cellular phones near the unit.
The unit is provided with a safety plug. This plug can only be used with safety sockets. These precautions should by all means be followed. If the plug should not fit into a given socket (e.g. the case with old sockets), the socket should be replaced by an electrician.

Do not ignore the safety purpose of the grounding-type plug. A grounding type plug has two blades and a third grounding connection. The third connection is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement with an appropriate outlet.

As with all industrially manufactured goods, the use of substances that induce an allergic reaction such as aluminium cannot be generally excluded. If you develop an allergic reaction (such as a skin rash, frequent sneezing, red eyes or respiratory difficulties), consult a physician immediately to determine the cause.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. Besides potential harm to others, you run the risk of suffering an electric shock. If one of the following conditions occurs, please disconnect the mains plug and call your dealer or technical support!

- Power cord or mains plug is damaged or worn.
- Liquid penetrated the unit.
- The unit was exposed to rain or high ambient humidity.
- The unit does not function properly, even when following all the instructions in the manual. Only manipulate the controls as stated in the manual, wrong settings on the controls may damage the unit.
- The unit has fallen and the housing damaged.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE

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Electric shock warning

The unit should be serviced by qualified personnel only, as live parts may be exposed when opening and /or removing coverings; besides harm to others, you run the risk of suffering an electric shock.



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Operating limits

Temperature

Operation:

+5°C up to + 40°C / 41°F up to + 104°F

Higher temperature can over-stress the cooling system of the apparatus and destroy hardware components.

Storage / Transport:

-10°C up to + 50°C / 14°F up to + 122°F

Humidity

Operation: 20% up to 80% relative humidity (no condensation)

Storage / Transport: 10% up to 80% relative humidity (no condensation)

Environment

Follow all the IMPORTANT SAFETY INSTRUCTIONS.

Only use the apparatus within the environment operating limits.

Only use the apparatus indoors.

Air must be free of dust and any hazardous or explosive substances.

Avoid vibrating support and extreme loud environments.

This apparatus is not protected against splash water. Do not use this apparatus near water.

Do not use the apparatus in rain or moisture.

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Connectivity



- 1) Mains switch ON/OFF (0) and power supply (IEC 22) 120 V ~ ,60 Hz (USA, Canada) – 230 V ~ ,50 Hz - Automatic operation, no switching necessary!
Cable and connector are not included in delivery and must meet the local requirements.
Caution! Use the identical electrical circuit, respectively the identical protective earth conductor for PC (onPC) and grandMA2 onPC command wing; otherwise damages of hardware and/or malfunction can result from connecting via USB cable. That means, both units (PC and grandMA2 onPC command wing) must be connected to the same socket or (only if guaranteed) to the same electric circuit (protective earth identical)!
- 2) USB USB –cable included in delivery (Note: use USB 2.0 cable up to 5m)
JUST CONNECT DIRECT TO YOUR PC OR NOTEBOOK – DO NOT USE A HUB OR SWITCH
- 3) LTC –timecode –IN (XLR 3 pin)
- 4) DMX IN (5 pin)
- 5) Connectivity for Analogue Remote Control Input
- 6) MIDI IN / OUT, Midi –Note and Midi Time Code
- 7) 2 DMX OUT (5 pin)
- 8) Slot for Kensington Lock (anti theft device)

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Max. 2048 parameters / 2 DMX OUT

MA onPC command wing ← USB direct → PC with onPC ← USB -Hub → keyboard/mouse



Max. 3072 parameters / 4 DMX OUT
(only the significant node counts)

+



MA onPC command wing ← USB direct → PC with onPC ← Ethernet → 2Port Node



Max. 4096 parameters / 6 DMX OUT

+



or

MA onPC command wing ← USB direct → PC with onPC ← Ethernet → NSP or NPU

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Connect / Limits

Connect MA onPC command wing always direct to your PC or notebook; use a USB 2.0 – cable. For all other hardware e.g mouse, keyboard, MA – hardware and so on. use another USB- port or a hub. MA onPC command wing is capable for maximal 2048 parameters via 2 DMX-ports. Boost the quantity of parameters of the command wing by the use of other MA – hardware. The absolute maximum is limited by the onPC – software: 4096 parameters.

Available parameters / DMX OUT ports:

PC + MA onPC command wing:	2048 Parameter / 2 DMX OUT
PC + MA onPC command wing + 2Port Node	2560 Parameter / 4 DMX OUT
PC + MA onPC command wing + 2Port Pro Node	3072 Parameter / 4 DMX OUT
PC + MA onPC command wing + NSP (as 4-Port Node)	4096 Parameter / 6 DMX OUT
PC + MA onPC command wing + NPU (as 4-Port Node)	4096 Parameter / 6 DMX OUT

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On / Off Switching

Connect / Installation

- Download grandMA2 onPC -software from MA – Homepage. MA onPC command wing needs software grandMA2 onPC V 2.5.5.0 and higher (grandMA1 onPC is not applicable).
- Install the software „grandMA2 onPC“ on your Windows – PC or notebook. Minimum requirements you will find at: www.malighting.com .
- switch on your PC or notebook and start MA onPC.
- Connect the command wing direct to your PC or notebook via a USB cable (use no hub or switch!).
- Connect your PC or notebook with the other hardware. Such as shown on previous page.



- Connect the power supply. The command wing is equipped with a PSU (120 -230V // 50 – 60Hz). **PAY ATTENTION TO DETAILS ON PAGE 23**

ON

- Set the mains switch on the rear side of the command wing to „I“.
- Note: Flashing executor buttons indicates, that the position of this fader does not correspond with the position of the virtual fader (internally stored fader position) of the onPC. Position of the virtual fader is relevant for value output. After first movement of the command wing –fader (the “real” fader), this position is relevant for value output.

OFF

- Set the mains switch on the rear side of the command wing to „O“.
- Note:
Disconnecting the MA onPC command wing from your PC or notebook is always possible – however DMX –output is interrupted immediately.
Show is always stored on yourPC or notebook, not on your onPC command wing.
Update only possible with a PC or notebook and grandMA2 onPC.- For longer non use disconnect all cables.

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Cleaning

The MA onPC wing only requires minor attention. Disconnect electric power supply prior to cleaning. Clean the surface only with dry soft cloth. Do not use any liquid cleaner or compressed air. Solely the flexible hand rests are allowed to be cleaned with a mild cleaner and a damp cloth. Do not use any solvent. Check ventilation holes are clear.

Depending on the environment we recommend to clean the console professionally every 2 – 5 years.

Marking and cleaning the magnetic fader labels.

Use a felt marker (EDDING 140S ohp marker, permanent) for the magnetic fader labels. And clean them with ethyl alcohol – after this the label is ready for use again.



Maintenance

Electric shock warning: The unit should be serviced by qualified personnel only, as live parts may be exposed when opening and/or removing coverings; besides others, you run the risk of suffering an electric shock.

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Declaration of Conformity according to directives 2004 / 108 / EG

Manufacturer's name: MA Lighting Technology GmbH

Manufacturer's address: Dachdeckerstraße 16
D-97297 Waldbüttelbrunn
Germany

declares that the product

Product category: Control unit

Name of product: grandMA2 MA onPC command wing

complies with the following product specifications:

Safety: EN60065, EN60950

EMV (EMC): EN55103-1 (E1)
EN55103-2 (E2)

Additional information: DMX512, ethernet, USB, LTC, Audio In, Midi and analogue inputs must be shielded and the shielding must be connected to the earthing resp. to the housing of the corresponding plug.

Waldbüttelbrunn, 20.01.2012

Dipl. Ing. Michael Adenau



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... and the other members of the grandMA2 family



grandMA2 full-size



grandMA2 light



grandMA2 ultra-light



grandMA2 faderwing

The new signature console of MA Lighting is the grandMA2 full-size. It controls all kinds of lighting genres like conventionals, moving lights, LEDs, video and media. Equipped with the most up-to-date technology and even some special tools (e.g. keyboard drawer or multi-touch command screen) the grandMA2 full-size is at home in all lighting segments. Intuitive and fast control over all connected fixtures and channels in different styles is self-evident. Furthermore the newly developed faderwing provides in addition up to 60 executor faders over almost unlimited amount of pages. Moreover the grandMA2 full-size can read 'series 1'-showfiles and is able to run in a special 'series 1'-mode. That means full compatibility with 'series 1'-sessions. All command keys within the new series can be found in the same place for easy operation. The grandMA2 offers a highly flexible and comfortable way of programming, including nearly infinite numbers of presets, cues, pages, sequences and effects.

Gerätetyp / model:.....**MA onPC command wing**.....

Optionen / options:.....

Seriennummer / serial number:.....

Baujahr / year of manufacture:.....

Distributor:



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