Bedienungsanleitung Augabe 1.0 Lighting Technologies

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Lighting Technologies

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# 1. Introduction

## 1.1 Delivery and Unpacking

As soon as you receive your equipment, open the boxes and inspect the items received. If you discover any damage, contact the carrier immediately and make any necessary claim for the problems discovered. You can be sure that when the equipment left our factory it was in perfect condition. Check that the equipment supplied to you corresponds to the consignment note and that this corresponds to your order. You will find the references of your desk on an identification label affixed to the rear panel. If there is any discrepancy in the order and delivery, contact your supplier immediately who will clarify the situation to your full satisfaction.

#### Permissible storage conditions:

Temperature : -10 to +50° C

: variation rate: 20 °C/hour

Relative humidity : 20 to 80 % without condensation.

## 1.2 Preparing the Desk Location

The surface on which desk is to be located, should be smooth, level and sturdy. Make sure that there is enough clearance around the desk to:

- open the desk
- access the rear connections
- allow air circulation around vents to prevent the desk from over-heating.

### 1.3 Desk Installation

The MENTOR desks is a professional lighting console with memory, it is Class I equipment designed and manufactured to the EN 60950 standard.

#### THIS EQUIPMENT MUST BE EARTHED.

No special provisions need to be made for the installation of the equipment. The room in which the equipment is to be installed must be clean, dust-free and have a temperature between  $5\,^{\circ}$ C and  $35\,^{\circ}$ C and a relative humidity from 20 to 80 % without condensation.

Consumption of food and drink over the desk is inadvisable to avoid waste being accidentally dropped into the equipment and impairing certain functions.

The lighting desk and the monitor should be installed on a table or a console. Like all equipment which includes microprocessors and uses similar technology, the desk is sensitive to the influences of static electricity and it is possible that these influences will affect functioning in certain circumstances. If this is the case, it will be necessary to place anti-static carpets on the floor and perhaps to make the atmosphere more humid. Whenever a carpet is to be used, it must be an antistatic carpet.

In order to avoid wasting time and possibly damaging the equipment, the installer is invited to scrupulously follow the instructions in the diagrams shown, and on the rear panel of the ISIS based desk.

Before powering up the desk or any of its peripherals, check that the voltages are within the limits defined in the TECHNICAL SPECIFICATIONS paragraph.

Note: all connections should be made with the power turned Off, otherwise functioning may be affected and can even damage the equipment under certain conditions.



# 1.4 Power Supply

Like all equipment used in computer systems, your system is sensitive to the characteristics of the mains network and in particular to variations and voltage peaks.

Consequently, we advise you to use an appropriate line conditioner on this equipment. Please consult us if you are in any doubt about this.

The line is to be protected by fuse or by circuit breakers and is to be provided with an earth connection for personal safety.

#### Important Notice for Power Cables

Power cables and connectors are an important part of your equipment and contribute to its safety.

Always use the connector to make or interrupt the link; never pull on the cable.

Do not damage the cable or the connectors in any way; do not pinch or tie together power supply and signal cables, check them at each installation and at regular intervals on a permanent installation.

### 1.5 Electrical Connection

TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT OPEN THE DESK. ACCESS TO INTERNAL PARTS IS NOT REQUIRED FOR NORMAL OPERATION. THERE ARE NO USER SERVICEABLE PARTS WITHIN. REFER SERVICING TO QUALIFIED ENGINEERS ONLY. LETHAL VOLTAGES ARE PRESENT INSIDE!

ALWAYS DISCONNECT FROM THE POWER SUPPLY BEFORE OPENING FOR INSPECTION.

PHOENIX and MENTOR ranges of lighting consoles are professional lighting control systems developed with simplicity of use in mind. In order to maintain the proficiency of the built in safety features, this equipment shall be installed and maintained by qualified service personnel only.



# 2. MENTOR-range

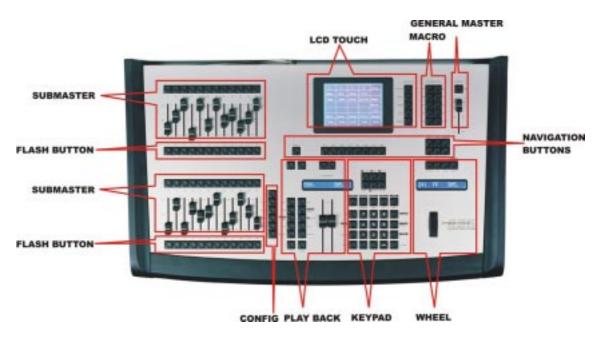
### 2.1 MENTOR

## 2.1.1 Technical specifications



- Power supply: 230 V +/- 14% 50 Hz
- The ID label of the console is found on the inside and outside of the bottom panel. It includes the Part Number (1AX xxx xxx xxx), the serial number, the rated voltage, the CE marking.
- Dimensions: 775 x 450 x 130 mm
- Weight: 13.3 kg

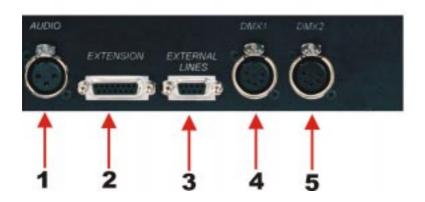
### 2.1.2 Front panel





## 2.1.3 Rear panel



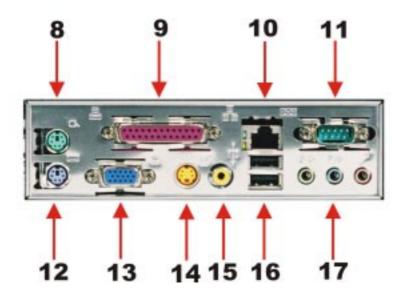




1	AUDIO IN	XLR3 F
2	LINK TO MENTOR EXTENSION WINGS	DB 15 F
3	EXTERNAL CONTROL LINES	DB 9 F
4	DMX 1 OUT	XLR5 F
5	DMX 2 OUT	XLR5 F
6	POWER SUPPLY FAN, POWER SUPPLY SWITCH	

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8	MOUSE PORT	
9	PARALLEL PORT	
10	LAN ETHERNET PORT	
11	SERIAL PORT EIA/RS-232	
12	KEYBOARD PORT	
13	SVGA MONITOR OUTPUT	
14	NOT USED	
15	NOT USED	
16	USB PORTS	
17	NOT USED	
18	START BUTTON	

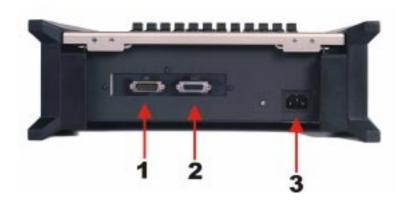
# 2.2 EXTENSION Wing

### 2.2.1 Technical specifications



- Power supply: 230 V 50/60 Hz
- The ID label of the console is found on the inside and outside of the bottom panel. It includes the Part Number (1AX xxx xxx xxx), the serial number, the rated voltage, the CE marking.
- Dimensions: 380 x 450 x 130 mm
- Weight: 4.7 kg

## 2.2.2 Rear panel



1	EXTENSION LINK IN	DB 15 M
2	EXTENSION LINK OUT/THRU	DB 15 F
3	POWER SUPPLY	

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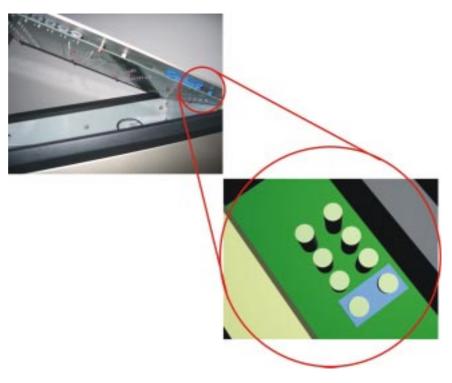
### 2.2.3 Addressing an EXTENSION

Each MENTOR can be extended with up to 4 EXTENSION Wings. Each of the Wings has its own address. The address is set by way of jumper inside the EXTENSION wing. The factory setting for each Wing is address 1.

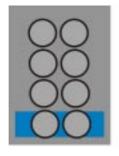
In case that more than one Wing is connected to a MENTOR it is necessary to configure the address.

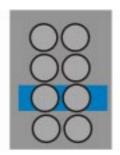
Selecting the address of the Wing

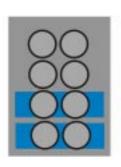
- 1. Remove the screw on the bottom panel, and open the Wing.
- 2. The Pin header to address the Wing is placed on the front pcb board. The pin header is below the 26 pin connector.

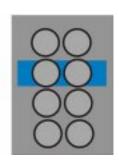


3. The sketches below show the different settings for each possible wing address. ON Left to right: wing address 1, address 2, address 3 and address 4.











#### 2.2.4 Interconnections between MENTOR and EXTENSION WING(S)

Each wing is standard delivered with:

- an 'extension link' cable of 1.5 m
- a set of selfs-adhesive numbering labels
- a power supply cable (230 V)

Up to two EXTENSION WINGS can receive their dc supply voltage from the MENTOR, via the Extension Link cable. Each Wing is fitted with a built-in 230 V power supply.

The two paragraphs below describe how to link the EXTENSIONS:

- one or two EXTENSIONS supplied by MENTOR
- EXTENSIONS using their built-in 230 V power supply

#### 2.2.5 EXTENSION using the power supply of the MENTOR

Only possible in case if using up to 2 wings with the standard extension link cable (delivered with Extension). For any other configuration, please refer to paragraph 'Extension using its built-in 230 V power supply'.



#### 2.2.6 EXTENSION using its built-in 230 V power supply

Use of the built-in power supply is mandatory:

- when you use an Extension cable longer than 1.5 m
- when you connect more than 2 wings to one MENTOR. Use of the built-in power supply is then mandatory for the third and fourth Extension (irrespective of cable length).



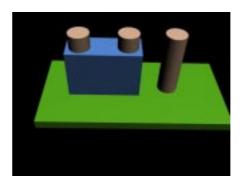
The factory setting for each Wing is: External power supply ON, ready to be supplied from a MENTOR. Built-in supply set to Off.

(Note: the built-in power supply will not supply dc to other Wings).

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Enabling the external Power supply:

- 1. Remove the screw on the bottom panel, and open the Wing.
- 2. The Pin header to select the dc power source address is placed on the bottom pcb board.



3. The sketch below gives the settings for the power supply. Left to Right: built-in 230 V power supply; external dc power supply (factory default setting).







# 3. ISIS Software

The ISIS software for MENTOR and PHOENIX/XT is distributed via the internet or on a CD-ROM.

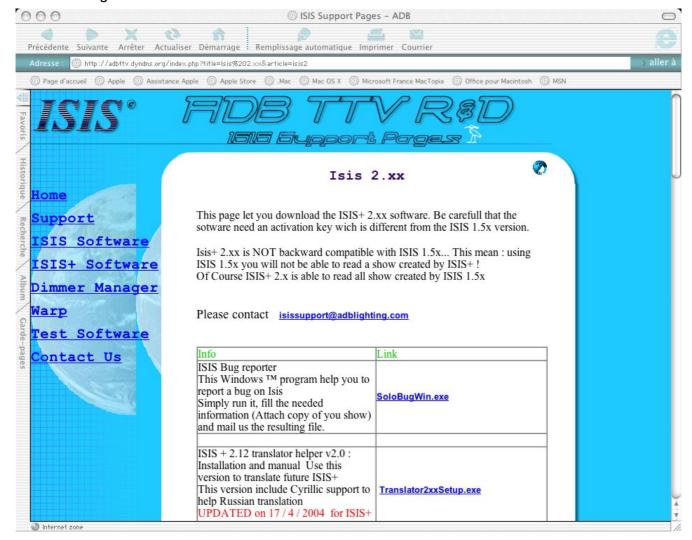
# 3.1 Getting upgrades via the Internet

The ISIS support page can be reached via ADB's website: www.adblighting.com > ADB Products > Control desks > ISIS software > ISIS support website.

The current shortcut is <a href="http://www.adbttv.dyndns.org">http://www.adbttv.dyndns.org</a> but this may change. On the ISIS Support pages you will find the latest release (and some earlier ones) of ISIS and related programs.

For MENTOR please select the ISIS+ pages (ISIS+ = ISIS 2.0 and later).

#### 3.1.1 ISIS+ Pages



On this page you can find the latest released version of ISIS and related programs.



#### 3.1.2 Main downloads

- Full ISIS CD : FullxxxPxxx.ISO (ISO.CD image)
- ISIS for USB Stick
- ISIS translator

## 3.2 Installing and upgrading ISIS

This chapter will describe two upgrade methods

- by means of a CDR (requires external CD Reader)
- by means of a USB Memory Pen

### 3.2.1 Upgrading ISIS with an external CD-ROM device

Required equipment

- a Windows PC with CD writer; a CD writer program and floppy drive
- a external USB CD-ROM device a empty CD-ROM and

#### Preliminary action - download files

Download the most recent version of ISIS: FullxxxPxxx.ISO Save it on the hard disk.

- Step 1: find the downloaded file BOOTUSBdev.exe Burn the ISIS CD.
- Step 2: find the downloaded file BOOTUSBdev.exe on the ISIS CD run (execute) BOOTUSBdev.exe

#### Second we'll install the software on the MENTOR

- **Step 3:** save your current show
- Step 4: shut the MENTOR down and switch power off the mains
- Step 5: on MENTOR: insert the floppy disk.

  Connect the USB CD-ROM reader; place the ISIS CD
- Step 8: start up the MENTOR
- Step 9: when you get a message

Step 10: installing software upgrade(s)

inslin upgrades Linux; this is not always necessary; see paragraph

Configuration.

setup upgrades the ISIS software

#### The final touch

**Step 11:** once the setup is done, remove the Boot floppy and the USB CD-ROM. Restart the MENTOR.



#### 3.2.2 Upgrading ISIS with an USB Memory Pen

#### Required equipment

- a Windows PC with floppy drive and USB port; with an unzip programme (WinZip, Stufflt, or similar)
- a USB memory pen, formatted with FAT or FAT32.
- Note: to verify the formatting
  - → Insert the USB memory pen in the PC
  - → In My computer: select (highlight) the Memory Pen (single left-click)
  - → Right-click > Properties > TAB: General

#### Preliminary action - download files

Download the most recent versions of USB\_ISIS.zip and bootUSBdev.exe Save them on the hard disk (or burn them on a CDR).

#### First we'll create a Boot floppy.

- Step 1: find the downloaded file BOOTUSBdev.exe run (execute) BOOTUSBdev.exe
- Step 2: follow the instructions on the pop-up menu.
  You have now created the Boot floppy. You can keep it for use with later upgrades with USB devices.

#### Second we'll prepare the USB memory pen

- **Step 3:** in the USB memory pen, create a directory USB ISIS
- Step 4: find the downloaded file USB\_ISIS.zip
  unzip (unpack) it
  copy all the unzipped files to the memory pen, in the directory
  USB\_ISIS

### Third we'll install the software on the MENTOR

- Step 5: Save your current show
- Step 6: shut the MENTOR down and switch power off the mains
- **Step 7:** on MENTOR: insert the floppy disk. Don't insert the USB memory pen yet.
- Step 8: start up the MENTOR
- Step 9: when you get a message

then insert the USB stick and press ENTER.

Step 10: installing software upgrade(s)

What should you install?

inslin upgrades Linux; this is not always necessary; see paragraph

Configuration.

setup upgrades the ISIS software

#### The final touch

**Step 11:** once the setup is done, remove the Boot floppy and the USB pen. Restart the MENTOR.



# 3.3 Configuration

After LINUX and ISIS are installed, ISIS automatically boots after a power up into the Setup program.

If there are no hardware changes or extra channels, you do not need to do anything in the setup.

If you have changes, you need to initialize these changes in the appropriate part of the Set-up program.

After the configuration, select <SAVE and EXIT>; the system will automatically reboot.



# 4. Additional sources of information

This MENTOR System Manual does not describe ISIS, the common software for MENTOR and PHOENIX/XT:

You'll find "everything you always wanted to know about ISIS" in:

#### An introduction tot ISIS 2.1x.

This short form User Manual for ISIS 2.1x can be downloaded from the ADB website. www.adblighting.com > ADB Products > Control Desks > ISIS Software > Introduction to ISIS 2.1x.

#### The User Manual for ISIS 2.10.

The comprehensive User Manual for ISIS 2.1x can be downloaded from the ADB website. www.adblighting.com > ADB Products > Control Desks > ISIS Software > ISIS 2.1x User Manual.

#### The ADB Ethernet Network Guide

The "ADB Ethernet Network Guide" can be downloaded from the ADB website. www.adblighting.com > ADB Products > Interfaces > Ethernet > select the User Manual.

#### The Wi-Fi Remote User Manual

The "User Manual for Wi-Fi Remote" can be downloaded from the ADB website. www.adblighting.com > ADB Products > Interfaces > Wi-Fi Remote Control > select the User Manual.

#### The HF Remote User Manual

The "User Manual for the HF Remote" can be downloaded from the ADB website. www.adblighting.com > ADB Products > Interfaces > HF Remote Control > select the User Manual.

#### ESTA and its Technical Standards Programme

Learn more about - or participate in - the ongoing standards development efforts: http://www.esta.org/tsp

Example: the ESTA Control Protocols Working Group covers subjects such as DMX512-A the successor to DMX512/1990

RDM Remote Device Management (EIA-485 serial transmission)

ACN Advanced Control Network (over Ethernet).

The process of creating a new standard includes one or several Public Reviews.

Participate!





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