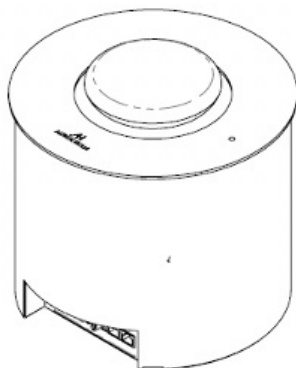
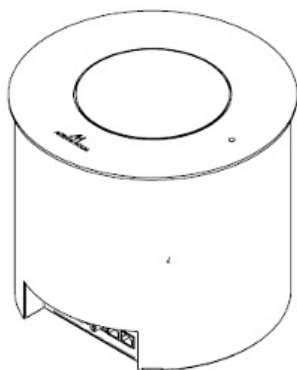




## User Guide



## DynamicTalkB

Motorised microphone lift system for boundary microphones

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Technology Serving Design

Danish craftsmanship  
Mediterranean soul

  
ARTHUR HOLM

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## WELCOME

Thank you very much for purchasing an Arthur Holm product.

Please, read these installation and operating instructions carefully and keep them in a safe place for future consultations.

We remain at your entire disposal if you have any suggestions.

**Henrik Holm**

General Manager

hholm@albiral.com

## ABOUT US

### The Company

Arthur Holm has its origins in the Danish furniture designer Jorgen Alex Jensen, who was active during the sixties and the seventies. His design inspiration and his concept of ergonomics have been continued by his family, who is the design force behind Arthur Holm product range. The result of combining Scandinavian design tradition with Mediterranean creativity, flexibility and emotion is a wide product range built on more than 25 years of craftsmanship.

Arthur Holm offers a professional product range where tomorrow's technology is shaped into valued materials with design flexibility and customisation, specially created to enhance communication in reception, collaboration, conference and meeting areas.

### The art of customisation

Arthur Holm offers a range of ingenious products whose designs are based on quality materials and the latest technology. Products which endow meeting and conference rooms with silent, ergonomic, innovative and aesthetic solutions that integrate into the furniture, hang from the walls as works of art or are used as interactive points of information.

### The world of Arthur Holm

Arthur Holm offers a selection of unique, elegant, versatile, flexible and ergonomic products that are being used in meeting and conference rooms, reception areas, huddle rooms, control rooms, auditoriums and public zones of leading companies throughout the world.

The numbers speak for themselves! We currently own 33 product patents, have presence in over 45 countries with products and solutions in more than 25,000 installations.

It will be our pleasure to work with you, designing your unique and personalised environment. Our broadcast electronic engineers will provide the latest technology while our design team will offer you the most exclusive appearance.

Our team puts its heart, passion and pride in all our designs.

## REGULATIONS AND SECURITY



**ATTENTION:** Do not disassemble or modify the device in any way. This symbol warns of the presence of dangerous un-insulated voltages inside some of the components, of sufficient magnitude to expose people to risk of electronic shock.



This symbol draws attention to important use and maintenance instructions in the manual that accompanies the unit.



This symbol indicates that the equipment conforms to the norms established by the European Community.



This symbol indicates D.C. current.

## SAFETY INSTRUCTIONS

### Plugs

- Do not dismantle any part of the unit power connector.
- Disconnect the power plug from the AC outlet when the unit is not going to be used for an indefinite period of time.

### Power and extensions cords

- Use the appropriate power cord with the correct plug type.
- Do not overload wall outlets or power cords.
- Make sure the total ampere passed through a extension cord does not exceed the maximum allowed by the cable used.
- Do not place anything on the power cord.
- Do not locate this product where a person may walk or trip over the cord.

## SAFETY INSTRUCTIONS



Wiring connected to hazardous voltage requires installation by qualified personnel or the use of ready-made flexible cables.



For your security, your equipment must be connected to an electrical outlet with grounding connection protection.

Since the plug is used to disconnect the device, the operating electrical outlet must be in an easily accessible place.

### Environment

- Install the equipment on an elevated, flat surface.
- Cannot be installed at a height greater than two meters.
- Install the equipment in a ventilated area.
- The equipment is intended for locations where children are not present.
- Avoid exposing the equipment to:
  - Rain or water
  - Excessive heat, cold or humidity
  - Area exposed to direct sunlight
  - Dirty areas
  - Equipment generating strong magnetic fields
- Avoid placing open containers of liquid, near the equipment.
- Keep a minimum distance of 30 mm in order to have good ventilation.
- Never place above the device any sources of flames such as lighted candles, etc.
- If you are using the device in extreme weather conditions and/or tropical climates, the equipment should be installed in a room which ensures a reasonable level of temperature and humidity.
- To prevent damage, the equipment must be firmly anchored to the surface, as shown in the installation instructions.

## SAFETY INSTRUCTIONS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced AV technician for help.

## SYSTEM DESCRIPTION

### General

Motorised microphone lift for boundary microphones and similar, controllable through AHnet or directly on the device using the flush mounted touch control sensor. Integrated wireless set-up and diagnosis. Arthur Holm's DynamicTalkB microphone lift is designed to hide boundary microphones when not in use with a smooth, elegant and silent movement.

The housing is made out of steel and the upper cover plate is made in stainless steel.

### Highlights

- Motorised lift for boundary microphone
- Touch control sensor on cover plate
- Wireless interface set-up through AHLink app
- Compact, space optimising and stylish solution
- Silent, elegant and durable system
- AHnet control and remote diagnosis
- Easy installation and maintenance free



# SYSTEM DESCRIPTION

## Available Models

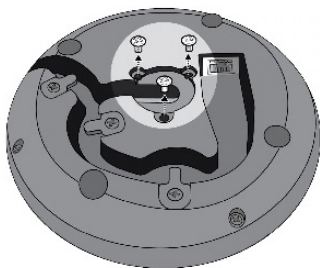
MODEL	DESCRIPTION
AHDTB	Motorised microphone lift for boundary microphones and similar, controllable through AHnet or directly on the device by a touch control sensor. Wireless set-up and diagnosis (microphone not included).

## Options

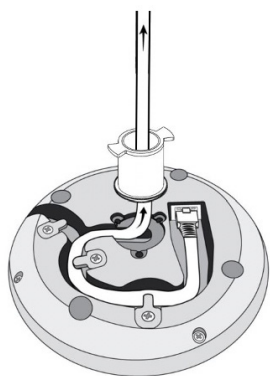
AHDTB
UI Underneath installation
CP Painted

## MICROPHONE INSTALLATION

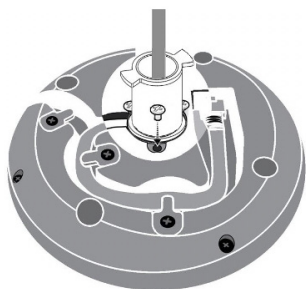
1. Remove the 3 screws placed in the center of the bottom of the microphone.



2. Plug the network cable into the microphone and guide it through the center exit path. When the cable is secured, guide it through the tube (anchor piece).

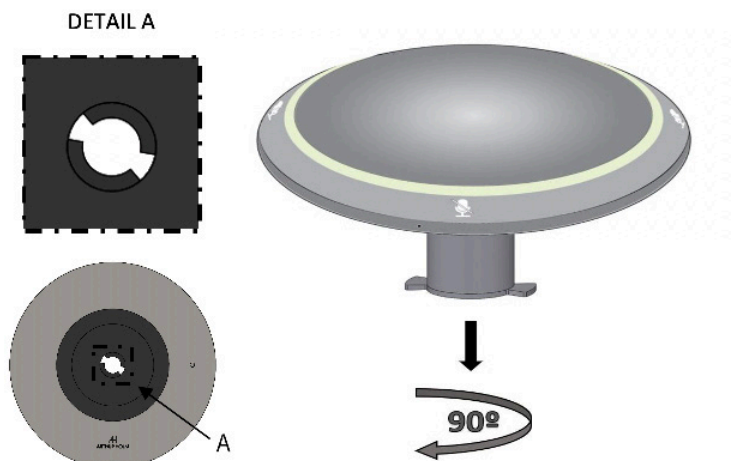


3. Align the tube into the recessed area in the center of the microphone. Fit the 3 screws (removed in step 1) to secure the tube (anchor piece).

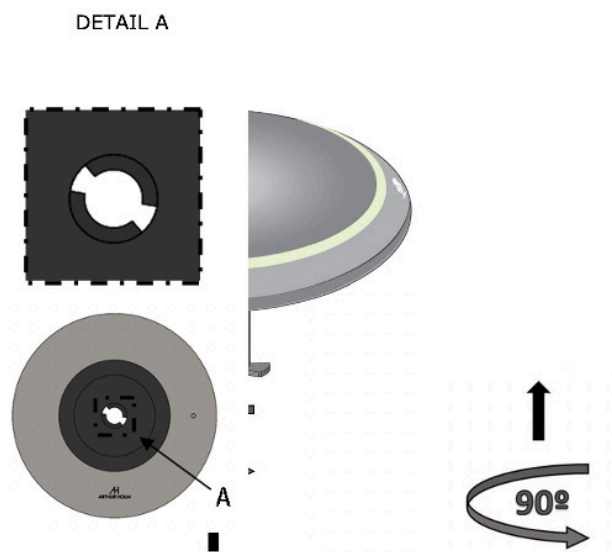


## MICROPHONE INSTALLATION

4. Assemble the microphone by introducing it vertically (matching the hole of detail A) and turning it 90° clockwise.



5. To remove the microphone, pull the microphone slightly upwards and turn it 90° anticlockwise. Now the microphone can be extracted vertically.

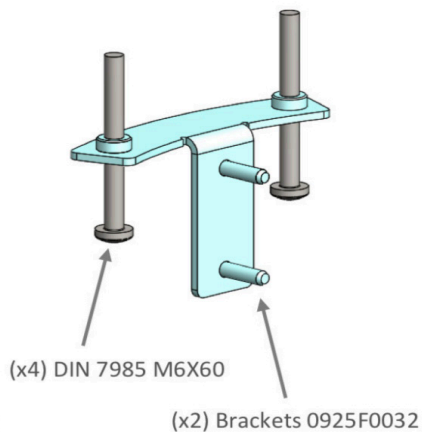


To remove the cable, follow step 1,2 and 3 reversed.

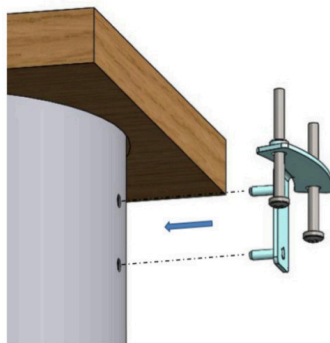
## INSTALLATION INSTRUCTIONS

### Mounting Brackets

1-. Assemble the 2 mounting  
Bracket

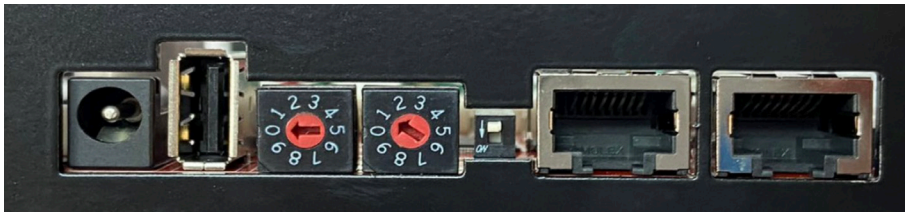
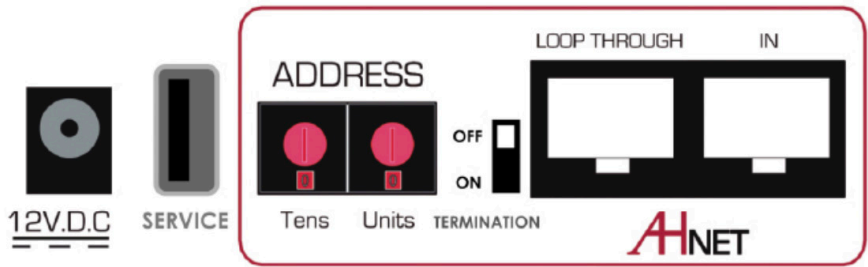


2-. With the AHDTB inserted into the  
table attached the brackets in each side



3-. Tighten the four M6x60 screws until  
they touch the table and AHDTB is fixed





### Ethernet: PoE connector.

AHnet RJ45 CAT6 connector for adressable RS422 control. There is a loop throught connector to use as signal RS422 output. Up to 30 devices can be connected on the same RS422 bus.

TERMINATION Activate (ON) the termination, ONLY on the last monitor of the RS422 bus.

ADRESS AHnet adress for the adressable AHnet command protocol. Adress 00 is reserved for service.

12v D.C Power supply input connector.

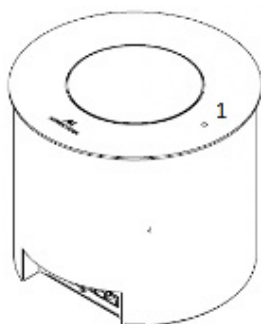
SERVICE Use USB only for service.



**MIC:** Microphone RJ45: SHURE MXA310 RJ45 connector

## CONTROLS

### Movement controls



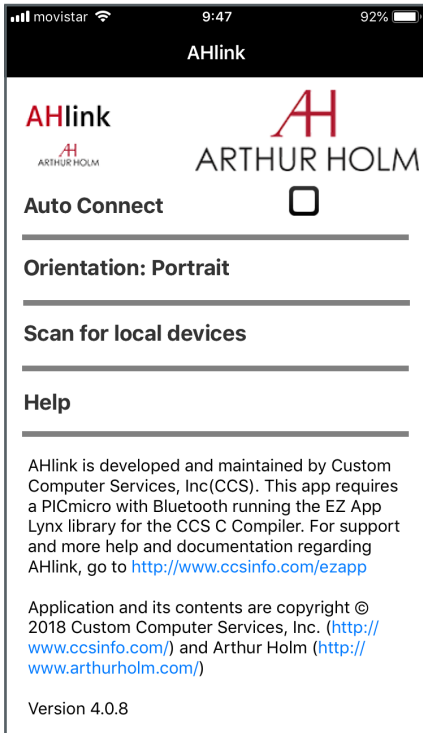
1. UP/DOWN: Push button, to raise and lower the microphone

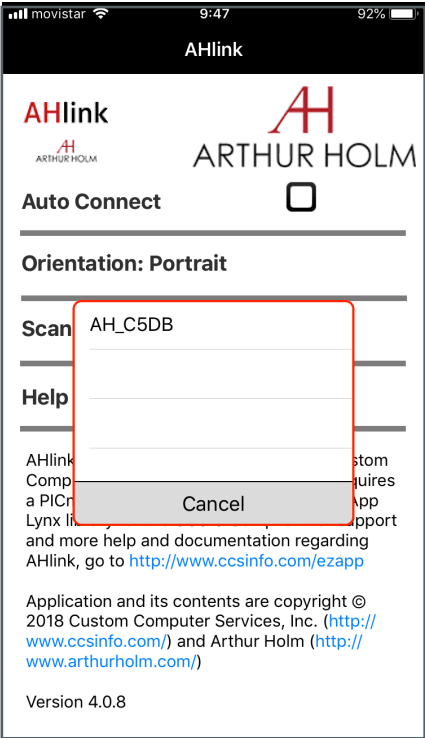
## AHlink

Activate the AHlink function, pressing 5 seconds or AHnet address: 98.

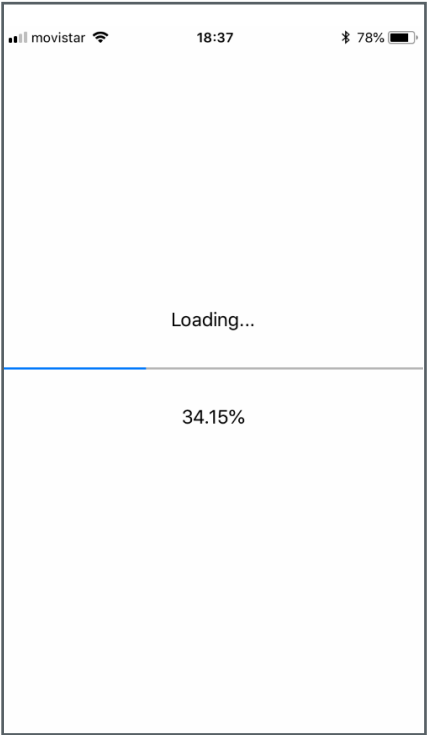
Using a cellular phone, download "AHlink" application from the App Store (IOS system) or from Google Play (Android system). The application is free. Open the AHlink application on your device.

Select "Scan for local devices". Your AH device will show. The name of the device is "AH" + 4 last serial number).





Select your device; device will appear control.





AHDTB 853CNT

Serial: 9876543210

Ver: 1.0

Control

MOV

OPEN

CLOSE

AHNet Rx:

00:00:00:00:00

S1

S2

S3

S4

Position

559

Configuration PSW:

0

# AHnet PROTOCOL

## Communications protocol

COMMUNICATION	RS422
CONNECTION	RJ45
WIRING	CAT-6

## Speed and configuration

BAUD RATE	38400
DATA BITS	8
PARITY	NONE
STOP BITS	1

## Wiring Diagram

- 1. Data TX +
- 2. Data TX –
- 3. Data RX +
- 4. NC
- 5. NC
- 6 .Data RX –
- 7. NC
- 8. NC



## Connection

PINS 1 & 2	The units respond
PINS 3 & 6	The units receive instructions

Protocol to control the monitor by addressable RS422 bus.  
You can connect up to 30 monitors on the same RS422 bus.  
You can use an AH ERT interface, to control the RS422 bus.  
The units should have a set address and the address must start by 1.  
Maximum cable length between ends: 500 m.

## AHnet protocol

Uses 5 bytes communication:

<b>BYTE 0</b>	START BYTE
<b>BYTE 1</b>	ADDRESS BYTE
<b>BYTE 2</b>	COMMAND BYTE
<b>BYTE 3</b>	VALUE 1
<b>BYTE 4</b>	VALUE 2

Screen control AHNet commands:

### Commands

COMMAND	DESCRIPTION	RESPONSE
FA XX 01 01 00	OPEN	FB XX 01 01 00
FA XX 01 00 00	CLOSE	FB XX 01 00 00
FA XX 04 01 00	BUTTON LOCK	FB XX 04 01 00
FA XX 04 00 00	BUTTON UNLOCK	FB XX 04 00 00
FA XX 14 00 00	INQUIRY CONTROL BYTE	FB XX 14 CB1 CB2

XX      Number of the monitor address. Up to 30 monitors for each RS422 BUS

CB1    Response in 8 bites of the monitor status

CB2    Response in 8 bites of the monitor status

CB1

BITE	7	6	5	4	3	2	1	0
CLOSED							1	0
OPENED							0	1
PROTECT	1							
NO PROTECT	0							
BUT_EN						0		
BUT_DIS						1		

To send an order to all the devices, you must use the address:  
F7 Hex. (Byte1).

In this case, the units do not send a reply.

## INFORMATION ON DISPOSAL FOR USERS OF WASTE ELECTRICAL & ELECTRONIC EQUIPMENT



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to the designated collection points, where they will be accepted on a free of charge basis. Alternatively in some countries, you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### **For business users in the European Union**

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### **Information on disposal in countries outside the European Union**

This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

## WARRANTY TERMS AND CONDITIONS

Albiral Display Solutions warrants this product against manufacturing defects and workmanship for a period of two (2) years from the date of purchase, subject to the conditions below.

1. Electrical, electronic boards, accessories and power supply are warranted against manufacturing defects and workmanship for a period of two (2) years from the date of purchase
2. Labour costs: Albiral Display Solutions covers the labour costs to replace any defective parts during the validity of this warranty.
3. Transport costs:
  - 5.1. In the case that a manufacturing defect occurs within 90 days after the purchase date, both freight and insurance costs will be paid by Albiral Display Solutions.

Although Albiral Display Solutions S.L. pays for freight and insurance costs, Albiral Displays Solutions will not be responsible for any damages caused by the transportation of the goods if the customer does not inform in writing when receiving the goods.

- 5.2. After 90 days of the purchase date, the beneficiary of the warranty will pay both freight and insurance costs.

Albiral Display Solutions S.L. will not be responsible for any damages caused by transportation, when this one is paid by the customer.

4. This warranty does not cover the labour costs of handling, diagnose, removal, replacement, reinstall and/or program any product.
5. This warranty does not apply if the fault has been caused by misuse, improper handling, electrical or mechanical abuse, abnormal operation conditions, non-authorized modifications, and inadequate transportion or as a result of atmospheric phenomenons.

## WARRANTY TERMS AND CONDITIONS

6. The warranty is not valid if people other than authorised Service Centre have handled the product and if the product has been manipulated or warranty seals are removed or manipulated.
7. The beneficiary of the warranty will have to return the product with the original packaging to warranty there are no damages during transportation.
8. The warranty is not valid if the beneficiary of the warranty does not include a RMA form and a copy of the purchasing invoice.

Please note that laws vary from country to country, and the same provisions of this warranty may not apply to you.

If you have any doubts concerning the terms of this warranty, please contact:

[business@albiral.com](mailto:business@albiral.com)

+34 938 502 376

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## Patents

MU17180ES00	P27178ITEP
MU17301ES00	P27178RUPC
MU17322ES00	P27178USPC
MU17413ES00	P27284DEEP
MU17445ES00	P27284EPPC
MU17854ES00	P27284ESEP
MU17868DEPC	P27284GBEP
MU17868RUPC	P27284RUPC
P24821DEEP	P27284USPC
P24821ESEP	P27715ESEP
P24821GBEP	P28089DEEP
P24821USPC	P28089ESEP
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