User Guide

DYNAMICX2

HDCP compliant retractable monitors for furniture integration

ARTHUR HOLM

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WELCOME

Thank you 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 inmore 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 monitor power connector.
- Disconnect the power plug from the AC outlet when the monitor 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.
- The power connector must be easily accessible

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.
- Install the equipment in a ventilated area.
- 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.

SYSTEM DESCRIPTION

Arthur Holm's DynamicX2 is a motorized retractable product rangre that provides silent, reliable and harmonic movements using a patented solution with one only engine. It is equipped with a variable speed mechanism to raise, lower and tilt 20° to ensure the best ergonomics, viewing angle and visibilitiy to the room. DynamicX2 have slightly cruved edges for a contemporary and longstanding look and the screen is protected with an anti-reflective 2-side coating 3 mm. blacj edged glass.

The stainless steel cover plate can be customised with different connectors, retractable cable and fixed or monitorised microphones. An Interactive Setup Display allows the control, setup and diagnose of the monitors. Monitors provide RS-422 I/O for the remote control of movement, speed, safety settings, brightness, contrast and backlight. They are also equipped with AH-AMMC. The use of the Arthur Holm's ERT will enable the address configuration of all the monitors installed by simply pressing a button. The AHlink Android and IOS app shows the monitor's serial number and can also give access to the setup and control menus.

The UnderCover option is designed to cover conference systems and different connectors and engineered to be cleverly integrated into meeting and conference room furniture. The patented cover slides comfortably downwards (into the table) and has been designed to be veneered, providing a uniform finish with the furniture.

DynamicTalk is an elegant retractable system for gooseneck microphones with exclusive features. It not only makes the microphone disappear within the desk surface but it also provides a pleasant light to indicate its status. Due to its protective patented lighting ring, the microphones can be safely stored, protected, making meeting and conference spaces more flexible and versatile.

DynamicTalk provides two different working modes: PA and Conference. When in PA mode, a push button placed on the stainless steel cover plate activates or de-activates the microphone and the LED ring will indicate the status by changing colour from red to green. This microphone lifting system automatically silences the microphone when retracting whereas in conference mode the microphone remains active and can be controlled via GPI and GPO.

SYSTEM DESCRIPTION

Highlights

- Patented single engine mechanism for up/down and tilt movements
- Milled alumium housing with a contemporary design
- Front double sided anti-reflecting 2 sides coating 3 mm black edged glass
- AH-AMMC Auto mechanical movement calibration
- Wireless connectivity for setup and control
- Automatic 20° tilt angle

Options

- Built in DynamicTalk
- UnderCover
- Touch screen
- Built-in camera
- Retractable HDMI cable
- Connectors

SYSTEM DESCRIPTION

Available Models

MODEL	DESCRIPTION
AH15DX2HDGA	HDCP compliant vertically retractable aluminium 15.6" Full HD monitor with 20 degrees of automatic inclination. Single engine patented mechanism. Solid aluminium monitor in natural anodisation finish featuring 3 mm. double sided anti reflective black edged glass. Up-table cover plate made of brushed stainless steel with 2 push buttons. DVI-I and DVI-D inputs. Interactive Setup Display allowing the control, setup and diagnose of the monitors. Monitors provide RS-422 I/O allowing the remote control of movements, speeds, safety settings, brightness, contrast and backlight. The monitors are equipped with AH-AMMC: an auto mechanical movement calibration system. AHlink.
AH17DX2HDGA	HDCP compliant vertically retractable aluminium 17.3" Full HD monitor with 20 degrees of automatic inclination. Single engine patented mechanism. Solid aluminium monitor in natural anodisation finish featuring 3 mm. double sided anti reflective black edged glass. Up-table cover plate made of brushed stainless steel with 2 push buttons. DVI-I and DVI-D inputs. Interactive Setup Display allowing the control, setup and diagnose of the monitors. Monitors provide RS-422 I/O allowing the remote control of movements, speeds, safety settings, brightness, contrast and backlight. The monitors are equipped with AH-AMMC: an auto mechanical movement calibration system. AHlink.
AH19DX2HDGA	HDCP compliant vertically retractable aluminium 18.5" Full HD monitor with 20 degrees of automatic inclination. Single engine patented mechanism. Solid aluminium monitor in natural anodisation finish featuring 3 mm. double sided anti reflective black edged glass. Up-table cover plate made of brushed stainless steel with 2 push buttons. DVI-I and DVI-D inputs. Interactive Setup Display allowing the control, setup and diagnose of the monitors. Monitors provide RS-422 I/O allowing the remote control of movements, speeds, safety settings, brightness, contrast and backlight. The monitors are equipped with AH-AMMC: an auto mechanical movement calibration system. AHlink.

SYSTEM DESCRIPTION

Available Models

MODEL	DESCRIPTION
AH22DX216GA	HDCP compliant vertically retractable aluminium 21.5" Full HD monitor with 20 degrees of automatic inclination. Single engine patented mechanism. Solid aluminium monitor in natural anodisation finish featuring 3 mm. double sided anti reflective black edged glass. Up-table cover plate made of brushed stainless steel with 2 push buttons. DVI-I and DVI-D inputs. Interactive Setup Display allowing the control, setup and diagnose of the monitors. Monitors provide RS-422 I/O allowing the remote control of movements, speeds, safety settings, brightness, contrast and backlight. The monitors are equipped with AH-AMMC: an auto mechanical movement calibration system. AHlink.
AH24DX24KGA	HDCP compliant vertically retractable aluminium 23.8" 4 K monitor with 20 degrees of automatic inclination. Single engine patented mechanism. Solid aluminium monitor in natural anodisation finish featuring 3 mm. double sided anti reflective black edged glass. Up-table cover plate made of brushed stainless steel with 2 push buttons. 1/VGA, 2/ DisplayPort, 2/HDMI inputs. Interactive Setup Display allowing the control, setup and diagnose of the monitors. Monitors provide RS-422 I/O allowing the remote control of movements, speeds, safety settings, brightness, contrast and backlight. The monitors are equipped with AH-AMMC: an auto mechanical movement calibration system. AHlink.

SYSTEM DESCRIPTION

Options

AH15DX2HDGA	AH17DX2HDGA	AH19DX2HDGA	AH22DX216GA	AH24DX24KGA
CL (Min. 5 units) Laser engraved logo	**CL (Min. 5 units)** Laser engraved logo	**CL (Min. 5 units)** Laser engraved logo	**CL (Min. 5 units)** Laser engraved logo	**CL (Min. 5 units)** Laser engraved logo
UCS (Min. 10 units) UnderCover Stainless steel	**UCS (Min. 10 units)** UnderCover Stainless steel	**UCS (Min. 10 units)** UnderCover Stainless steel	**UCS (Min. 10 units)** UnderCover Stainless steel	**UCS (Min. 10 units)** UnderCover Stainless steel
UCV (Min. 10 units) UnderCover for veneer	**UCV ((Min. 10 units)** UnderCover for veneer	**UCV (Min. 10 units)** UnderCover for veneer	**UCV (Min. 10 units)** UnderCover for veneer	**UCV (Min. 10 units)** UnderCover for veneer
TSV Touch sensor for UnderCover	**TSV** Touch sensor for UnderCover	**TSV** Touch sensor for UnderCover	**TSV** Touch sensor for UnderCover	**TSV** Touch sensor for UnderCover
AHTECB2 GPI remote control interface	**AHTECB2** GPI remote control interface	**AHTECB2** GPI remote control interface	**AHTECB2** GPI remote control interface	**AHTECB2** GPI remote control interface
UI (Min. 10 units) Underneath installation	**UI (Min. 10 units)** Underneath installation	**UI (Min. 10 units)** Underneath installation	**UI (Min. 10 units)** Underneath installation	**UI (Min. 10 units)** Underneath installation
MCDX2 (Min. 10 units) Matte cover plate	**MCDX2 (Min. 10 units)** Matte cover plate	**MCDX2 (Min. 10 units)** Matte cover plate	**MCDX2 (Min. 10 units)** Matte cover plate	**MCDX2 (Min. 10 units)** Matte cover plate
TS150HDG Projected capacitive multi-touch screen	**TS170HDG** Projected capacitive multi-touch screen	**TS190HDG** Projected capacitive multi-touch screen	**TS2216G** Projected capacitive multi-touch screen	
USBCOTDX2 (Min. 10 units) USB camera added to aluminium housing	**USBCOTDX2 (Min. 10 units)** USB camera added to aluminium housing	**USBCOTDX2 (Min. 10 units)** USB camera added to aluminium housing	**USBCOTDX2 (Min. 10 units)** USB camera added to aluminium housing	**USBCOTDX2 (Min. 10 units)** USB camera added to aluminium housing
HDSDICOTDX2 (Min. 10 units) HD-SDI camera added to aluminium housing	**HDSDICOTDX2 (Min. 10 units)** HD-SDI camera added to aluminium housing	**HDSDICOTDX2 (Min. 10 units)** HD-SDI camera added to aluminium housing	**HDSDICOTDX2 (Min. 10 units)** HD-SDI camera added to aluminium housing	**HDSDICOTDX2 (Min. 10 units)** HD-SDI camera added to aluminium housing
USBCFDX2 (Min. 10 units) USB camera integrated in an aluminium frame	**USBCFDX2 (Min. 10 units)** USB camera integrated in an aluminium frame	**USBCFDX2 (Min. 10 units)** USB camera integrated in an aluminium frame	**USBCFDX2 (Min. 10 units)** USB camera integrated in an aluminium frame	**USBCFDX2 (Min. 10 units)** USB camera integrated in an aluminium frame
HDSDICFDX2 (Min. 10 units) HD-SDI camera integrated in an aluminium frame	**HDSDICFDX2 (Min. 10 units)** HD-SDI camera integrated in an aluminium frame	**HDSDICFDX2 (Min. 10 units)** HD-SDI camera integrated in an aluminium frame	**HDSDICFDX2 (Min. 10 units)** HD-SDI camera integrated in an aluminium frame	**HDSDICFDX2 (Min. 10 units)** HD-SDI camera integrated in an aluminium frame
DTalk DynamicTalkM	**DTalk** DynamicTalkM	**DTalk** DynamicTalkM	**DTalk** DynamicTalkM	**DTalk** DynamicTalkM

SYSTEM DESCRIPTION

Options

AH15DX2HDGA	AH17DX2HDGA	AH19DX2HDGA	AH22DX216GA	AH24DX24KGA
EMM (Min. 10 units) For 1 syncro mic (XLR 3 Pin)	**EMM (Min. 10 units)** For 1 syncro mic (XLR 3 Pin)	**EMM (Min. 10 units)** For 1 syncro mic (XLR 3 Pin)	**EMM (Min. 10 units)** For 1 syncro mic (XLR 3 Pin)	**EMM (Min. 10 units)** For 1 syncro mic (XLR 3 Pin)
2EMM (Min. 10 units) For 2 syncro mics (XLR 3 Pin)	**2EMM (Min. 10 units)** For 2 syncro mics (XLR 3 Pin)	**2EMM (Min. 10 units)** For 2 syncro mics (XLR 3 Pin)	**2EMM (Min. 10 units)** For 2 syncro mics (XLR 3 Pin)	**2EMM (Min. 10 units)** For 2 syncro mics (XLR 3 Pin)
CCUSB USB passthrough	**CCUSB** USB passthrough	**CCUSB** USB passthrough	**CCUSB** USB passthrough	**CCUSB** USB passthrough
CC2USB 2 USB passthroughs	**CC2USB** 2 USB passthroughs	**CC2USB** 2 USB passthroughs	**CC2USB** 2 USB passthroughs	**CC2USB** 2 USB passthroughs
CCUSBPower USB power	**CCUSBPower** USB power	**CCUSBPower** USB power	**CCUSBPower** USB power	**CCUSBPower** USB power
FB Free button (GPO)	**FB** Free button (GPO)	**FB** Free button (GPO)	**FB** Free button (GPO)	**FB** Free button (GPO)
PO AC Power outlet	**PO** AC Power outlet	**PO** AC Power outlet	**PO** AC Power outlet	**PO** AC Power outlet
AJ Audio mini-jack	**AJ** Audio mini-jack	**AJ** Audio mini-jack	**AJ** Audio mini-jack	**AJ** Audio mini-jack
VGACP VGA passthrough	**VGACP** VGA passthrough	**VGACP** VGA passthrough	**VGACP** VGA passthrough	**VGACP** VGA passthrough
HDMICP HDMI passthrough	**HDMICP** HDMI passthrough	**HDMICP** HDMI passthrough	**HDMICP** HDMI passthrough	**HDMICP** HDMI passthrough
AHISBD2PT HDMI retractable passthrough	**AHISBD2PT** HDMI retractable passthrough	**AHISBD2PT** HDMI retractable passthrough	**AHISBD2PT** HDMI retractable passthrough	**AHISBD2PT** HDMI retractable passthrough
DPCP DisplayPort connector	**DPCP** DisplayPort connector	**DPCP** DisplayPort connector	**DPCP** DisplayPort connector	**DPCP** DisplayPort connector
RJ45CP RJ45 connector	**RJ45CP** RJ45 connector	**RJ45CP** RJ45 connector	**RJ45CP** RJ45 connector	**RJ45CP** RJ45 connector
CCXLR3P 3 pin XLR connector	**CCXLR3P** 3 pin XLR connector	**CCXLR3P** 3 pin XLR connector	**CCXLR3P** 3 pin XLR connector	**CCXLR3P** 3 pin XLR connector
CCSPKD2 2" , 15W, 8 Ohm passive loudspeaker	**CCSPKD2** 2" , 15W, 8 Ohm passive loudspeaker	**CCSPKD2** 2" , 15W, 8 Ohm passive loudspeaker	**CCSPKD2** 2" , 15W, 8 Ohm passive loudspeaker	**CCSPKD2** 2" , 15W, 8 Ohm passive loudspeaker
HDMIMIP 2x HDMI main inputs	**HDMIMIP** 2x HDMI main inputs	**HDMIMIP** 2x HDMI main inputs	**HDMIMIP** 2x HDMI main inputs	**HDMIMIP** 2x HDMI main inputs
CABD2 (Min. 10 units) Black anodised	**CABD2 (Min. 10 units)** Black anodised	**CABD2 (Min. 10 units)** Black anodised	**CABD2 (Min. 10 units)** Black anodised	**CABD2 (Min. 10 units)** Black anodised

SYSTEM DESCRIPTION

Options

AH15DX2HDGA	AH17DX2HDGA	AH19DX2HDGA	AH22DX216GA	AH24DX24KGA
GFD2 (Min. 10 units) Gold finish	**GFD2 (Min. 10 units)** Gold finish	**GFD2 (Min. 10 units)** Gold finish	**GFD2 (Min. 10 units)** Gold finish	**GFD2 (Min. 10 units)** Gold finish
BFD2 (Min. 10 units) Bronze finish	**BFD2 (Min. 10 units)** Bronze finish	**BFD2 (Min. 10 units)** Bronze finish	**BFD2 (Min. 10 units)** Bronze finish	**BFD2 (Min. 10 units)** Bronze finish
CPD2 (Min. 10 units) Painted	**CPD2 (Min. 10 units)** Painted	**CPD2 (Min. 10 units)** Painted	**CPD2 (Min. 10 units)** Painted	**CPD2 (Min. 10 units)** Painted
AHDL DynamicLoop	**AHDL** DynamicLoop	**AHDL** DynamicLoop	**AHDL** DynamicLoop	**AHDL** DynamicLoop
AHDSS DynamicShare	**AHDSS** DynamicShare	**AHDSS** DynamicShare	**AHDSS** DynamicShare	**AHDL** DynamicLoop
AHISBD2 HDMI retractable (Share)	**AHISBD2** HDMI retractable (Share)	**AHISBD2** HDMI retractable (Share)	**AHISBD2** HDMI retractable (Share)	**AHDL** DynamicLoop
AHHC HDMI fixed (Share)	**AHHC** HDMI fixed (Share)	**AHHC** HDMI fixed (Share)	**AHHC** HDMI fixed (Share)	**AHDL** DynamicLoop
AHDSPB Priority	**AHDSPB** Priority	**AHDSPB** Priority	**AHDSPB** Priority	**AHDL** DynamicLoop
AHBTEK Transmitter and receiver	**AHBTEK** Transmitter and receiver	**AHBTEK** Transmitter and receiver	**AHBTEK** Transmitter and receiver	**AHBTEK** Transmitter and receiver

SYSTEM DESCRIPTION

BOX CONTENTS

Before the installation of your retractable monitor, please check the contents of the shipping box, it must contain the following items:

- Monitor
- Power cord
- Remote control (1 per 5 monitors)
- Power supply 100-2 40Vac, 50-60Hz. Output 12V
- User guide

Important note: This device can only work with the power supply included in the shipping box. This power supply can not be replaced by any other rather than the original one.

Connections

Before connecting the power:

- Install the unit on a table or desk, in vertical position.
- Remove the foam protecting piece before connecting the monitor.

Power connection:

- Plug the power cable from the power supply into an AC socket of 100-240 Vac, 50-60Hz.
- Plug the 12V D.C. cable into the socket on the unit.

Signal connection:

- Use the DVI-I input to connect a DVI-D signal or an analog RGB signal (VGA).
- Plug the DVI-D connector to a DVI-D signal.

Caution! Never place this monitor in horizontal position.

SYSTEM DESCRIPTION

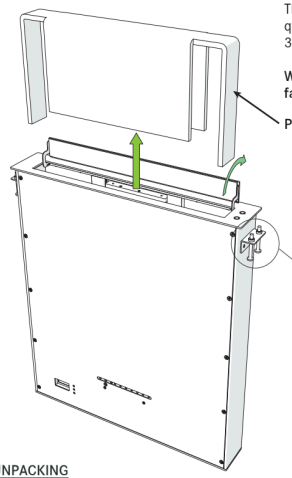
PACKING INSTRUCTIONS

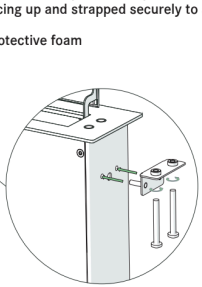
ATTENTION !

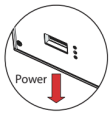
Albiral Display Solutions, s.l.
c/Fátima 25, 08512 BCN - Spain
tel. +34 938 502 376 www.arthurholm.com /www.albiral.com

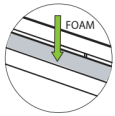
Thank you for purchasing our product, we hope you are completely satisfied with it. If you have any questions you can contact us by email customersupport@arthurholm.com or by phone +34 938 502 376 office hours 9am - 2pm & 3pm - 6pm GMT +1.

WARNING: To protect the product when moving place on the supplied protective foam, with screen facing up and strapped securely to a pallet.









UNPACKING

1- Remove the inside protective foam piece before using the device. (It is recommended to keep the foam which can be placed inside again if the monitor is moved).

2- Securely mount the monitor to the table using the two mounting brackets (included).

PACKING

3- When transporting, raise the monitor housing up. Press and hold the front button for 8 seconds until you hear a beep.

4- Hold the hatch before lowering the monitor housing then disconnect the power to disable beep. Now the buttons are non-operational.

5- Place the supplied protective foam.

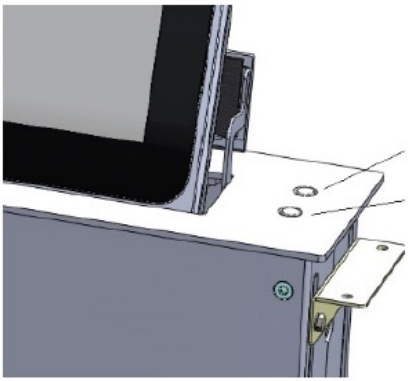
MONITOR CONTROLS

IR sensor

The IR sensor is located on the lower right side of the screen.

Monitor movement controls

On the upper cover plate, there are two buttons to control the UP and DOWN monitor movements.



1. UP BUTTON CONTROL

2. DOWN BUTTON CONTROL

1. Raising the monitor:

Press the button (1) on the right hand side of the cover plate to raise the monitor.
Please, make sure that no objects are located on top of the monitor.

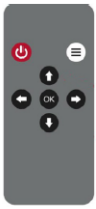
2. Retracting the monitor:

Press the button (2) on the right hand side of the cover plate to retract the monitor.

MONITOR CONTROLS

Remote control

POWER Switch ON/OFF the monitor



MENU	Activates the OSD menu on screen
UP	Control up on the OSD menu
DOWN	Control down on the OSD menu
LEFT	Control left on the OSD menu
RIGHT	Control right on the OSD menu
OK	Selects the function on the OSD menu. When the OSD menu is not active on screen, selects the input source

OSD MENU

Accessing the menu system

- With the OSD off, push the MENU button to activate the main OSD menu.
- Press the UP and DOWN buttons to move from one function to another. Please reger to the following sections below to view a complete list of all the functions available for the monitor.
- Press the OK button to confirm.
- When a function is selected, press the LEFT and RIGHT buttons in order to change the parameter or the function.

Press the MENU button to access to the main menu.

Picture

Picture Mode: Adjusts the mode of the image.

- Dynamic
- Standard
- Mild
- User: Contrast - Brightness- Colour - Sharpness - Tint

Colour Temperature: Adjusts the colour of the image

- Cool
- Medium
- Warm
- Use: Red - Green - Blue

Aspect Ratio: Adjusts the image aspect on screen

- 4:3
- 16:9
- Just scan

OSD MENU

Noise Reduction: Adjusts the image noise filter

- Off.
- Low.
- Medium.
- Hight
- Default

Screen: (Only for analogue signals)

- Auto Adjust
- Horizontal Position
- Vertical Position
- Size
- Phase

Backlight: Adjust the backlight screen's level

Colour Range: Adjusts the colour range

- 0 - 255
- 16 - 235

OSD MENU

Option

Language: OSD language selection

Restore Factory Default: Adjusts the parameters to the initial factory parameters.

Blending: OSD window transparency

- Low.
- Medium.
- High.
- Off.

OSD Duration: Adjusts the time that the OSD menu window remains on the screen.

Software Update (USB): Port to use for firmware's upgrade.

Mirror:

- 0. Image with no flip
- 1. Vertical flip.
- 2. Horizontal flip
- 3. Rotate

MICROPHONE CONTROLS

On the upper cover plate, there are three buttons to control the functions and to external control other devices (GPO)

- 1. UP/DOWN:

Controls the elevation and retraction of the microphone lift. Press this button during 5 seconds to activate AHlink (5 beeps sounds when AHlink is activated).

- 2. Customised:

The central push button, is used to control external devices. The contact close button (GPO) is present on GPO connector to external control other devices. Contact close of the GPO pins 7, 8 while pressing this button.

MICROPHONE CONTROLS

- 3. TALK or GPO:

The third push button has two different functions:

- PA mode:

In PA mode this button is used as MUTE function. Press the button once and the LED ring will appear in red indicating that the MUTE function is deactivated and it's ready for the user to talk to the audience. Press the button again to activate the MUTE function and silent the microphone, which will be indicated by the green LED ring. The contact close button (GPO) is present on GPO connector to external control other devices. Contact close of the GPO pins 9, 10 while pressing this button.

- Conference mode:

In Conference mode the microphone is controlled by the external conference system. This button then, has no function and the contact close of the push button is present on the GPO control connector. The contact close button (GPO) is present on GPO connector to external control other devices. Contact close of the GPO pins 9, 10 while pressing this button.

- 4. Dynamic LED Ring:

The system has a LED Ring to indicate the status of the microphone: RED indicates that the MUTE function is deactivated and GREEN indicates that the MUTE is activated. When the equipment is configured to work

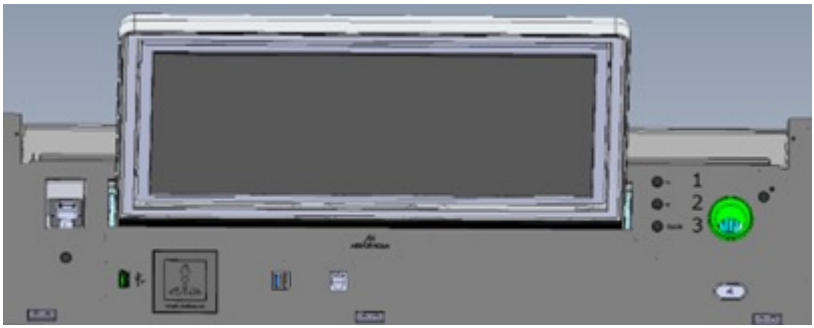
RETRACTABLE HDMI CONTROL CABLE

1.Retractable HDMI cable EXTRACT/RETRACT control button

COVER CONTROLS

Open hatch cover sensor control. On the cover, there is a touch sensor control button to open the hatch

1. Press cover open control button to open the cover monitor



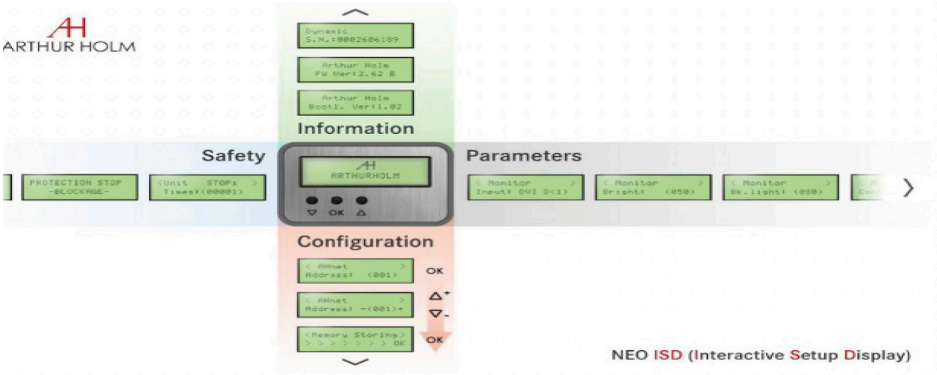
2. Screen UP control button

3. Screen DOWN control button

4. Hatch CLOSE control button

ISD MENU

The Interactive Setup Display is an LCD screen located at the monitor casing inside the desk that allows the setup and provides useful diagnose and historical data of the device.



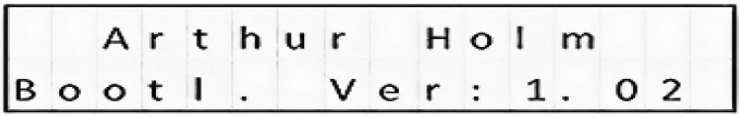
· WELCOME DISPLAY & DATA :

1) Bootloader Version

The display will show a Bootloader Version message (example: BootI).

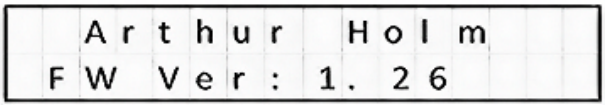
Ver:

1.01). Bootloader is a program which allows the system to be able to update itself. The ISD has a Bootloader and therefore is capable of updating to new versions in order to constantly improve the user experience.



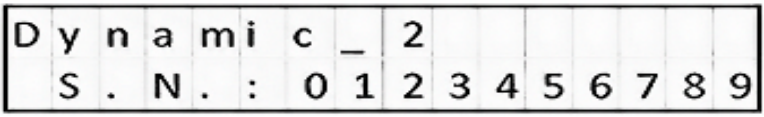
2) FirmWare

Data that refers to the firmware version (FW) of the equipment (example: FW Ver = 1.32). If you wish to update the FW version, please contact us.



3) Serial Number

Serial number of the device (example: serial number of the device = 02658748). The serial number is stored inside each device.



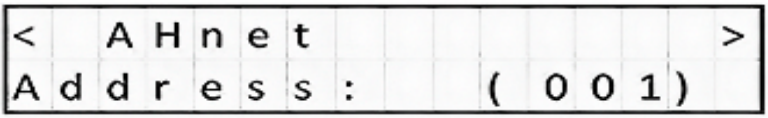
The serial number can also be obtained via AHnet and AHlink.

- OSD MENU -

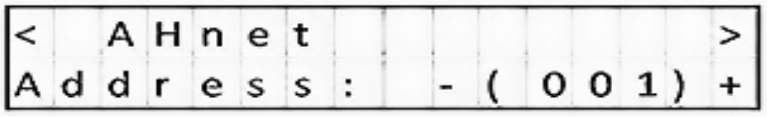
AHNET (GENERAL PROTOCOL)

CONTROLS

· The ISD will show the AHnet address which will be accompanied by an acoustic signal "BEEP" (example: Address: (001)). Once the signal has been heard, the "UP & DOWN" buttons will allow the user to scroll through all the variety of menus that the device contains. To enter into any specific menu, simply press the "OK" button.



How to modify the values within each menu? The values can be selected through the "UP & DOWN" buttons. To save the selected value, press the "OK" button or wait 3 seconds for it to be automatically saved.



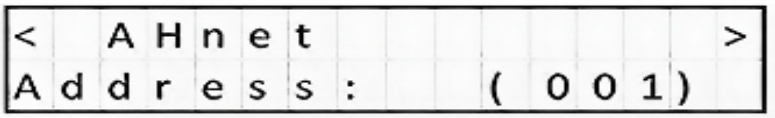
ISD MENU

The connection through RS422 allows the control of up to 30 devices perline. The last device (an only the last one) needs to have the termination activated.

· MENUS GENERAL INFORMATION

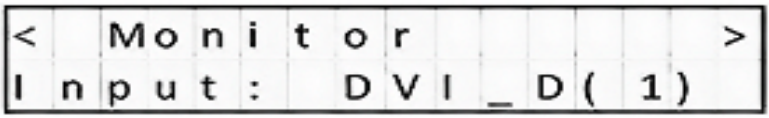
1) AHnet - Adress

The address must be set from 1 to 60.



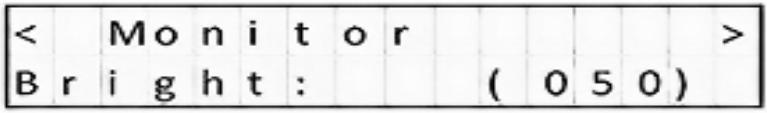
2) VIDEO INPUT SELECTION
The device provides the following inputs:

DVI1 = DVI-I (DVI-A and DVI1-D)
DVI2= DVI-D (DVI-2D)



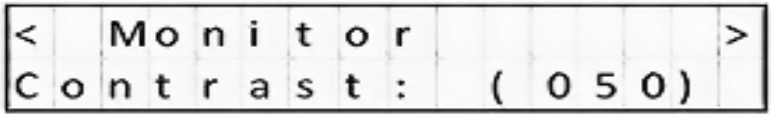
3) MONITOR BRIGHTNESS

Brightness level (0 – 100).



4) MONITOR CONTRAST

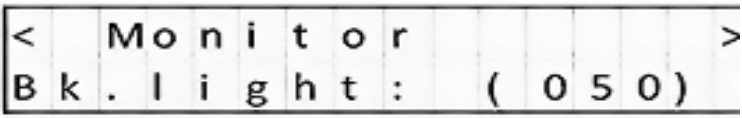
Contrast level (0 – 100).



ISD MENU

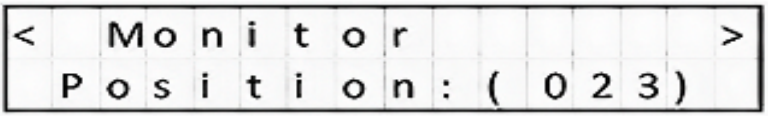
5) MONITOR BACKLIGHT

Backlight level (0 – 100).



6) POSITION

It is a diagnostic option that informs about the position of the device.



7) SENSORS INFORMATION

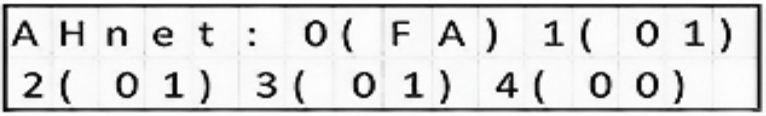
It is a diagnostic option that informs about the internal state of the sensors.

8) AHnet - INFORMATION

This menu is useful for programing and diagnose.

It provides information about the AHnet command that has been received by the device.

Example: AHnet = 0 (FA) 1 (01) 2 (01) 3 (01) 4 (00)

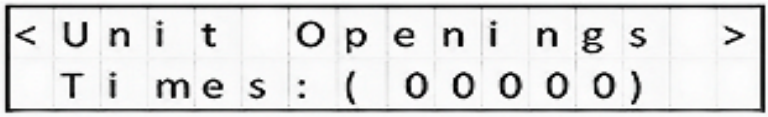


ISD MENU

9) UNIT OPENS

It is a diagnostic option that provides historical data.

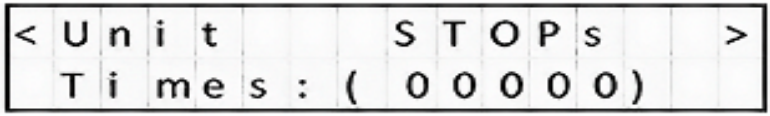
It is very useful to analyze how the device has been used during its lifecycle and it provides information about how many movements the device has done.



10) UNIT STOPS

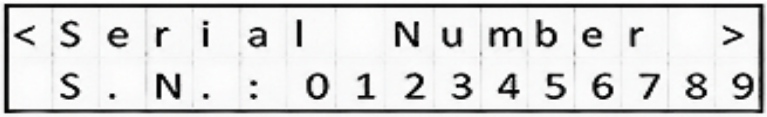
It is a diagnostic option that provides historical data. It is very useful to analyze how the device has been used during its lifecycle.

It provides information about the number of times that the device has been protected and made emergency stops.



11) SERIAL NUMBER

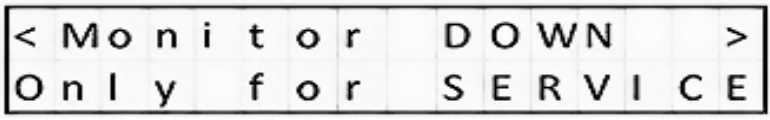
Provides the device's serial number.



The serial number can also be obtained via AHnet and AHlink.

12) MONITOR DOWN

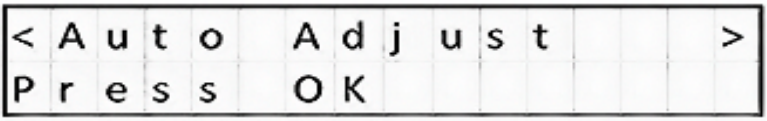
Only use this function as per manufacturer advice.



ISD MENU

13) AUTO ADJUST

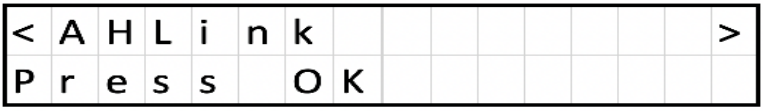
Auto Mechanical Movement Calibration (AH-AMMC).



Protocol activation: the device will make a consecutive movements series that must not be interrupted. The system will calibrate the speed and protection thresholds.

14) AHLink

Activates AHlink.



FIRMWARE UPDATE

To update the FW version.

To start the update, connect a PC with the APP AH_FW (Device Setting Tool) to the device through the USB port.

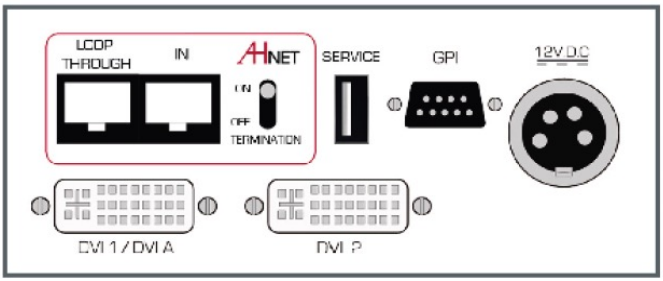
Proceed with the following steps:

- Unplug the PSU
- Wait for 1 minute
- Press and hold the "OK" button
- Plug in the PSU
- A message will appear on the LCD screen when the connection is ready
-Start updating the AH_FW

How are you doing? Easy, right?

Now you just have to start enjoying your device (

CONNECTORS



12V D.C. ⎓:

Power supply input connector. XLR-4 connector.
- 1,2: Ground
- 3,4: 12Vdc

GPI: Monitor external contact close control. SubD9 female.
1. GPI1 +
2. GPI1 –
3. GPI2 +
4. GPI2 –
5. GPI3 –
6. GPI3 +
7. N.C.
8. +12Vdc (600mA max.)
9. Ground:
- Use GPI1 (1:12Vdc, 2: Ground) to open the hatch / rise the screen
- Use GPI3 (6:12Vdc, 5: Ground) to close the hatch / lower the screen

Termination: Activate (ON) the termination. Only on the last unit of the RS422 bus.

AHnet: RJ45 CAT6 connector for addressable RS422 control. There is a loop through connector to use as signal RS422 output. Up to 30 monitors can be connected on the same RS422 bus. Use this connector to external control the screen, microphone and retractable HDMI cable with AHNet commands

Service: Used for firmware's upgrade.

DVI 1/ DVI A: DVI-I input signal. Connect a DVI (digital) input signal and
select DVI 1 on the OSD monitor menu. Use a DVI to VGA adaptor to connect an ARGB (analogue) input signal and select DVI-A on the OSD monitor menu.
DVI 2: DVI-D input signal. Connect a DVI (digital) input signal and select DVI 2 on the OSD monitor menu. Use high quality DVI cables with 2m maximum length.

CONNECTORS

Microphone connectors

GPI/GPO external contact close connector:

1. GND

2. Command microphone UP connecting to GND. Connecting to GND more than 2 seconds, activates the AHlink signal (5 beeps sounds when the AHLink signal is activated

3. Command microphone DOWN connecting to GND
- Use a pulse signal to RISE and LOWER the microphone

4. Red LED ring bright connecting to GND (only in conference mode)

5. Green LED ring bright connecting to GND (only in conference mode)

6. GND

7, 8 GPO1. Contact close of the central button located on cover plate

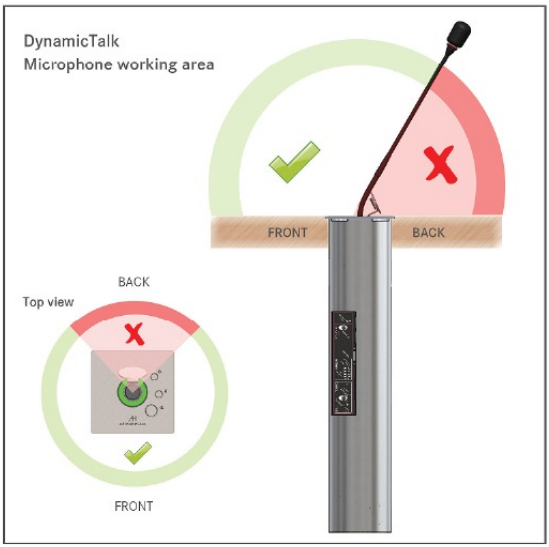
9, 10 GPO2. Contact close of the talk button located on cover plate

SERVICE: Used for firmware upgrade.

MICROPHONE HANDLING

Please follow the figure below for a correct product usage of the DynamicTalk microphones.

To avoid any product malfunctions, do not attempt to bend the microphone to the incorrect angle or outside the microphone's working area, as indicated on the picture below.



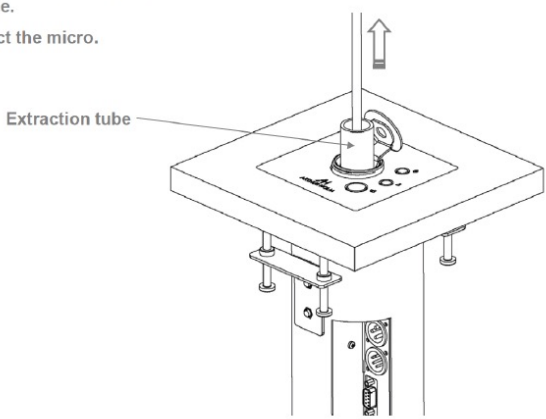
To configure microphone length, use AHLink application on your mobile phone connected to the unit

REMOVING THE MICROPHONE

Removing the microphone with XLR connection

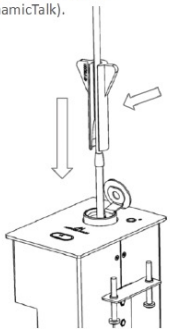
With the micro in the upper position, place the extraction tube trough the micro until it is inside the device.

Press the tube and extract the micro.

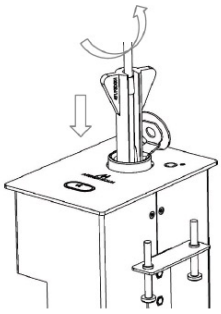


Removing the microphone with a threaded connector

1- With the DynamicTalk in upper position, place the extractor tool over the microphone body and slide it until the Microphone connector (inside the DynamicTalk).



2- Press slightly the tool against the Microphone connector while unscrewing it.



To assemble a new Microphone to the DynamicTalk device, place the tool over the Microphone mount it following the last steps in reverse order.

CAMERA

Below the unit, there are the camera connections

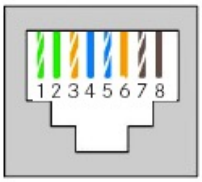
In case that a USB camera is installed, there is a USB-A connector to connect the camera to a computer

In case that a HDSDI camera is installed, there is a HDSDI BNC camera signal connector below the monitor

AHnet protocol

- Communication type : RS422
- Connection type : RJ45
- Wiring type : CAT-5
- Speed and configuration :
  - Baud Rate = 38400
  - Data Bits = 8
  - Parity = None
  - Stop Bits = 1

Wiring diagram



RJ-45

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

Pins 1&2: the units answer
Pins 3&6: the units receive orders

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

AHnet protocol

Using 5 bytes to communication:

BYTE 0	START BYTE
BYTE 1	ADDRESS BYTE
BYTE 2	COMMAND BYTE
BYTE 3	VALUE 1
BYTE 4	VALUE2

Screen control AHNet commands:

COMMAND	DESCRIPTION	RESPONSE
FA XX 01 01 00	SCREEN UP	FB XX 01 01 00
FA XX 01 00 00	SCREEN DOWN	FB XX 01 00 00
FA XX 01 04 00	COVER OPEN	FB XX 01 04 00
FA XX 01 05 00	COVER CLOSE	FB XX 01 05 00
FA XX 02 01 00	SCREEN ON	FB XX 02 01 00
FA XX 02 00 00	SCREEN OFF	FB XX 02 00 00
FA XX 02 03 00	HDSDI CAMERA ON	FB XX 02 03 00
FA XX 02 02 00	HDSDI CAMERA OFF	FB XX 02 02 00
FA XX 03 01 00	DVI-A SELECTION	FB XX 03 01 00
FA XX 03 00 00	DVI 1 SELECTION	FB XX 03 00 00
FA XX 03 03 00	DVI 2 SELECTION	FB XX 03 03 00
FA XX 04 01 00	BUTTON LOCK	FB XX 04 01 00
FA XX 04 00 00	BUTTON UN LOCK	FB XX 04 00 00
FA XX 04 04 00	COVER BUTTON LOCK	FB XX 04 04 00

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

Control BYTE answer control

CB1:

BIT	7	6	5	4	3	2	1	0
SCREEN DOWN			1	1	0	1		
SCREEN UP			0	1	0	1		
SCREEN ON							1	
SCREEN OFF							0	
DVI1-A	0	0						
DVI1-D	1	1						
DVI2-D	1	0						
PROTECTION STOP								1
MONITOR OK								0

CB2:

BIT	7	6	5	4	3	2	1	0
BUTTON LOCK								1
BUTTON UN LOCK								0
COVER OPEN						1		
COVER CLOSE						0		
HDSDI CAMERA OFF		0						
HDSDI CAMERA ON		1						
COVER BUTTON UNLOCK					0			
COVER BUTTON LOCK					1			

Picture commands

COMMAND	DESCRIPTION	RESPONSE
FA XX 15 01 ZZ	SET BACKLIGHT LEVEL	FB XX 15 01 ZZ
FA XX 16 01 ZZ	SET CONTRAST LEVEL	FB XX 16 01 ZZ
FA XX 17 01 ZZ	SET BRIGHTNESS LEVEL	FB XX 17 01 ZZ

XX: Number of the monitor address. Up to 30 monitors for each RS422 BUS
ZZ: Level of the function selected (00 – 99 Dec)

COMMAND	DESCRIPTION	RESPONSE
FA XX 15 01 ZZ	SET BACKLIGHT LEVEL	FB XX 15 01 ZZ
FA XX 16 01 ZZ	SET CONTRAST LEVEL	FB XX 16 01 ZZ
FA XX 17 01 ZZ	SET BRIGHTNESS LEVEL	FB XX 17 01 ZZ

XX: Number of the monitor address. Up to 30 monitors for each RS422 BUS
ZZ: Level of the function selected (00 – 99 Dec)

To send an order to all the monitors, you must use the address:
249 Dec. (Byte1)
F9 Hex. (Byte1)
In this case, the units do not respond

Picture commands

TALK right side control AHNet commands:

COMMAND	DESCRIPTION	RESPONSE
FA XX 0C 01 00	MICROPHONE UP	FB XX 0C 01 00
FA XX 0C 00 00	MICROPHONE DOWN	FB XX 0C 00 00
FA XX 0C 02 00	MICROPHONE TALK (PA)	FB XX 0C 02 00
FA XX 0C 03 00	MICROPHONE MUTE (PA)	FB XX 0C 03 00
FA XX 0C 04 00	RING LED OFF (CONF)	FB XX 0C 04 00
FA XX 0C 05 00	RING GREEN LED (CONF)	FB XX 0C 05 00
FA XX 0C 06 00	RING RED LED (CONF)	FB XX 0C 06 00
FA XX 0C 07 00	BUTTONS UNLOCK	FB XX 0C 07 00
FA XX 0C 08 00	BUTTONS LOCK	FB XX 0C 08 00
FA XX 0C 34 00	INQUIRY CONTROL BYTE	FB XX 0C CB1 CB2

TALK left side control AHNet commands::

COMMAND	DESCRIPTION	RESPONSE
FA XX 0B 01 00	MICROPHONE UP	FB XX 0B 01 00
FA XX 0B 00 00	MICROPHONE DOWN	FB XX 0B 00 00
FA XX 0B 02 00	MICROPHONE TALK (PA)	FB XX 0B 02 00
FA XX 0B 03 00	MICROPHONE MUTE (PA)	FB XX 0B 03 00
FA XX 0B 04 00	RING LED OFF (CONF)	FB XX 0B 04 00
FA XX 0B 05 00	RING GREEN LED (CONF)	FB XX 0B 05 00
FA XX 0B 06 00	RING RED LED (CONF)	FB XX 0B 06 00
FA XX 0B 07 00	BUTTONS UNLOCK	FB XX 0B 07 00
FA XX 0B 08 00	BUTTONS LOCK	FB XX 0B 08 00
FA XX 0B 34 00	INQUIRY CONTROL BYTE	FB XX 0B CB1 CB2

XX: Number of the monitor address. Up to 30 monitors for each RS422 BUS
To send an order to all units, you must use the address:
249 Dec. (Byte1)
F9 Hex. (Byte1)
In this case, the units do not respond

Picture commands

CB1: Response in 8 bites of the monitor status
CB2: Response in 8 bites of the monitor status

Control BYTE answer control
CB1:

BIT 0	TOP POSITION
BIT 1	DOWN POSITION
BIT 2	
BIT 3	BUTTON LOCKED (1)
BIT 4	
BIT 5	
BIT 6	
BIT 7	(1) FAILURE IN THE SYSTEM

CB2: Not used

Picture commands

Retractable HDMI cable left side control AHNet commands:

COMMAND	DESCRIPTION	RESPONSE
FA XX 08 04 00	UNLOCK BUTTON	FB XX 08 04 00
FA XX 08 05 00	LOCK BUTTON	FB XX 08 05 00
FA XX 08 34 00	INQUIRY CONTROL BYTE	FB XX 08 CB1 CB2

Retractable HDMI cable right side control AHNet commands:

COMMAND	DESCRIPTION	RESPONSE
FA XX 09 04 00	UNLOCK BUTTON	FB XX 09 04 00
FA XX 09 05 00	LOCK BUTTON	FB XX 09 05 00
FA XX 09 34 00	INQUIRY CONTROL BYTE	FB XX 09 CB1 CB2

XX: Number of the monitor address. Up to 30 monitors for each RS422 BUS
To send an order to all units, you must use the address:
249 Dec. (Byte1)
F9 Hex. (Byte1)
In this case, the units do not respond

Control BYTE answer control
CB1:

BIT	7	6	5	4	3	2	1	0
HDMI IN			1	1	0	1		
HDMI OUT			0	1	0	1		
PROTECTION STOP								1
OK								0

CB2:

BIT	7	6	5	4	3	2	1	0
BUTTON LOCK								1
BUTTON UN LOCK								0

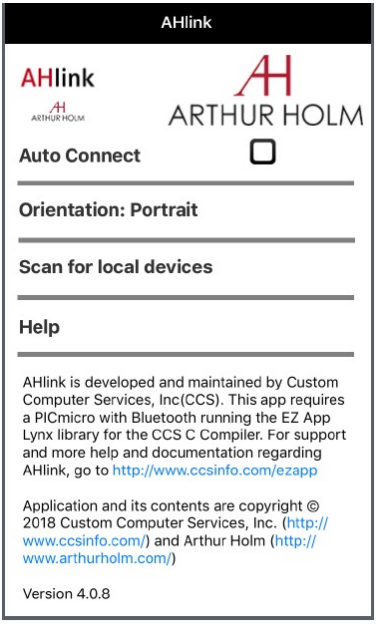
VIDEO SIGNALS

RESOLUTION	Horizontal freq (KHz)	Vertical freq (Hz)	Scanning type
800x600@60Hz	37.879	60.317	Progressive
800x600@72Hz	48.077	72.188	Progressive
800x600@75Hz	46.875	75.000	Progressive
1024x768@60Hz	48.363	60.005	Progressive
1024x768@70Hz	56.476	70.070	Progressive
1024x768@75Hz	60.023	75.030	Progressive
1280x720@60Hz	44.697	59.915	Progressive
1360x768@60Hz	47.396	59.995	Progressive
1280x1024@60Hz	63.981	60.020	Progressive
1600x1200@60Hz	74.479	59.967	Progressive
1680x1050@60Hz	65.160	59.944	Progressive
1920x1080@60Hz	67.500	60.000	Progressive

AHlink

AHlink is used to control and set-up the unit.
By default, the AHLink wireless signal is deactivated. To activate it, please press and hold the Open and Close buttons simultaneously on the cover plate for 5 seconds.

You can also activate the AHlink signal with the LCD (Interactive Setup Display) located under the monitor. Press the Down key near the LCD (Interactive Setup Display), until the "<AHlink> ¨option appears. Press the OK button to activate the AHlink signal on the unit. When the AHlink signal is activated, the sound of 5 beeps will indicate that the AHlink signal is active on the unit.

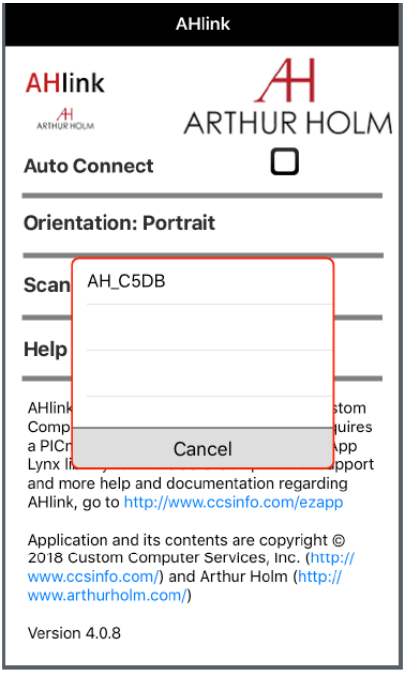


The wireless AHLink signal automatically deactivates when there is no device connected during more than 2 minutes. When the AHLink deactivates, you will hear a long Beep sound.

To control and set up your AH product with AHLink, please download it from the App Store (IOS system) or from Google Play (Android system) and execute it in your handled device. For Android system, allow location permissions to the applicationTo control and set up your AH product with AHLink, please download it from the App Store (IOS system) or from Google Play (Android system) and execute it in your handled device. For Android system, allow location permissions to the application

It is recommended on to select Auto Connect and select Portrait on Orientation. To connect it, select Scan for local devices.

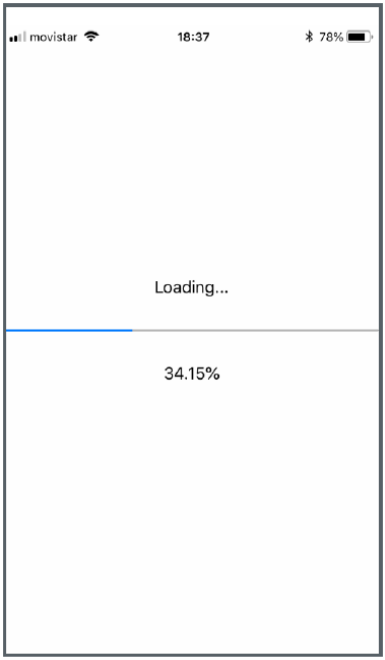
AHlink

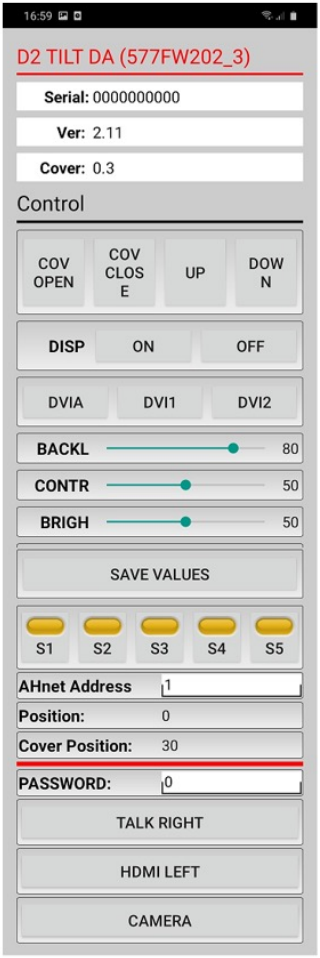


If your AH device does not appear on the screen, the AHLink signal might no longer be active.

The AHLink name always begins with the characters “AH” followed by the four last MAC AHLink address. You must select the AH device.

After selecting the AH device, the first page will upload on your screen. This page is used for the basic installation setup





Unit's serial number

Screen controller firmware version

Cover controller firmware version

Movements control (Cover & Screen)

Turns display ON or OFF

Input source selection

Backlight adjustments

Contrast adjustments

Brightness adjustments

Save screen settings values

Sensor status information

AHNet address setting

Screen position information

Cover position information

Access to factory's settings

TALK control page access

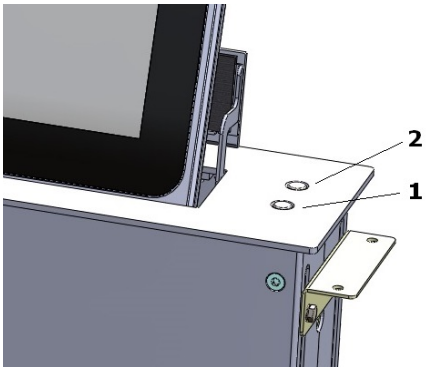
HDMI retractable control page access

HDSDI camera control page access

TILT CONTROL

Use the screen up control button when the screen is in its working position (up), to adjust the position angle of the camera.

Screen tilt (Camera) adjustment button: Press the screen up control button to control the screen tilt's angle. Permanent press this button to tilt up the monitor up to 20˚ of inclination. Release the button when the monitor is at the desired angle.



Permanently press the control button number 2. The screen will move from 110º to 90º, and from 90º to 110º cyclically. Release the control button when the screen is at the desired angle to stop its movement

TILT MODE

During the up movement of the screen, there are three tilt modes when the screen is positioned on top

TILT TO 110: The screen tilts to 110º (maximum tilt). This is the factory mode

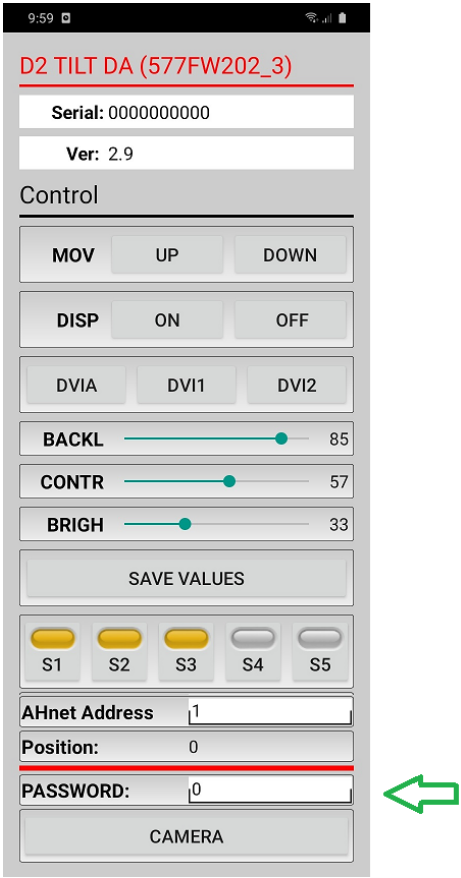
NO TILT: The screen remains at 90º

TILT TIME: The screen tilts until a configured period of time. The period of time is in 100mS steps. The tilt angle will depend on the period of time and the tilt to 110º speed configuration

Use the AHLink APP to configure the desired tilt mode

TILT CONTROL

Use “4006” password AHLink APP, to access to unit settings



AHlink

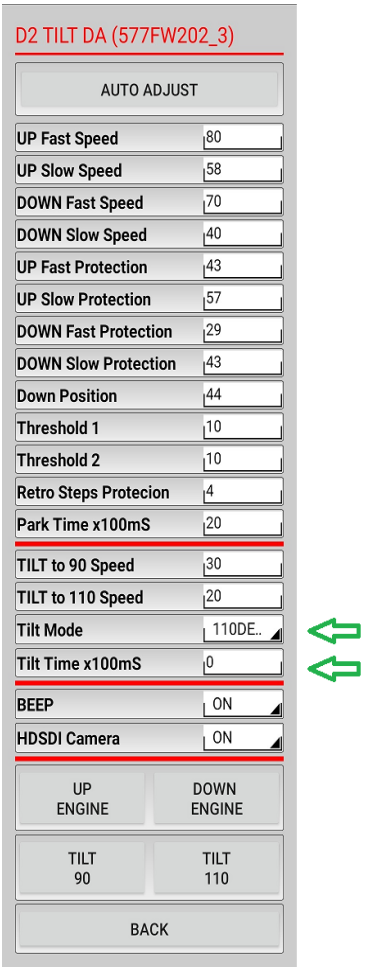
On “Tilt Mode” configure the desired tilt mode:

110DEG: The screen tilts to maximum position (110°)

NO TILT: The screen remains at 90°

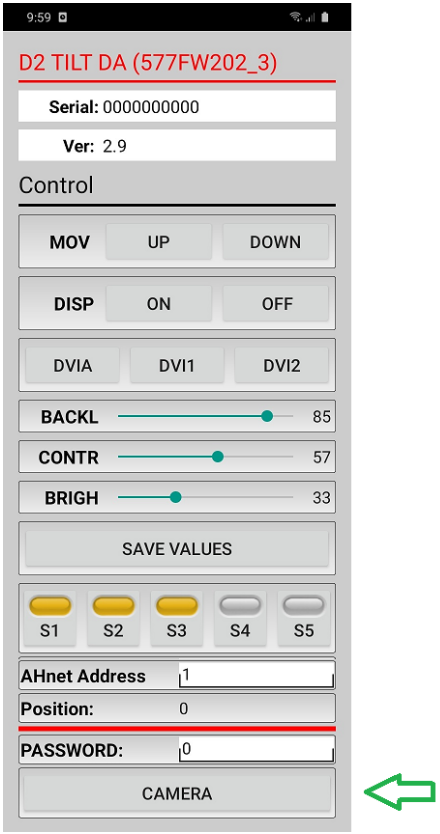
TIME: The screen tilt movement is active during a configurable periode of time

You have to configure the “Tilt Time x 100mS” parameter, in case to configure “TIME” on tilt mode



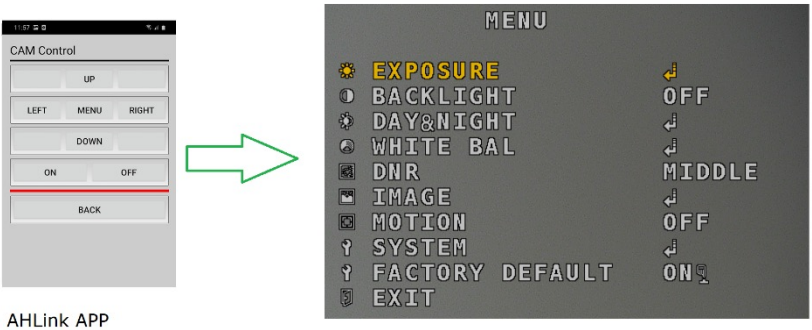
HDSDI CAMERA CONFIGURATION

Use AHLink APP to access to camera on screen menu settings, to configure the HDSDI camera. Press on “CAMERA” button to access to HDSDI camera control settings



HDSDI CAMERA CONFIGURATION

Pressing MENU, use the HDSDI camera output signal below the monitor, to see the on screen menu and access to camera configuration



AHLink APP

CAMERA SIGNAL

Use the joystick AHLink APP buttons to set-up the camera properties. The set-up menu of the camera includes:

HDSDI CAMERA CONFIGURATION

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
EXPOSURE	BRIGHTNESS			0 ~ 20 **(10)**
	SHUTTER	AUTO		**NORMAL**/DEBLUR
		MANUAL		NTSC : **1/30**,60,120,250,500,1K,2K,4K,8K,15K,30K PAL : **1/25**,50,100,200,400,800,1.6K,3.2K,6.4K,12.8K,25.6K
		FLICKER		
	SENS-UP			**OFF**/ X2/ X4/ X8 / X16 / X32
	AGC			0 ~ 10 **(8)**
BACKLIGHT	OFF			
	HLC	LEVEL		0 ~ 20 **(10)**
		COLOR		**BLK**,WHT,YEL,CYN,GRN,MAG,RED,BLU
	BLC	H-POS		0 ~ 20 **(6)**
		V-POS		0 ~ 20 **(5)**
		H-SIZE		0 ~ 20 **(7)**
		V-SIZE		0 ~ 20 **(7)**
	WDR	WEIGHT		LOW/ **MIDDLE**/ HIGH
DAY&NIGHT	AUTO	D>N THRES		0(bright) ~ 20(dark) **(13)**
		N>D THRES		0(bright) ~ 20(dark) **(7)**
		DELAY		0 ~ 9sec, 10sec, 15sec **(0 Sec)**
		BURST		OFF/**ON**
	COLOR			
	B&W	BURST		OFF/ON
WHITE BAL	AWB	AUTO		
		AUTOext		
		PRESET		Press ENTER key
		MANUAL	C-TEMP.	3000K/ **5000K**/ 8000K
			R-GAIN	0 ~ 20 **(10)**
			B-GAIN	0 ~ 20 **(10)**
	COLOR GAIN			0 ~ 20 **(10)**
DNR				OFF/ LOW/ **MIDDLE**/ HIGH
IMAGE	SHARPNESS			0 ~ 10 **(8)**
	GAMMA			0.45/ **0.55**/ 0.65/ 0.75
	MIRROR			**OFF**/ON
	FLIP			**OFF**/ON
	D-ZOOM			1.0X~16.0X **(1.0X)**
	ACE			**OFF**/LOW/ MIDDLE/ HIGH
	DEFOG	OFF		
		ON	MODE	**AUTO**/MANUAL
			LEVEL	LOW/ **MIDDLE**/ HIGH
	SHADING	**OFF**		
		ON	WEIGHT	0~100% **(100%)**

HDSDI CAMERA CONFIGURATION

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
IMAGE	PRIVACY	BOX	OFF/ON	
			ZONE NUM	0~15
			ZONE DISP	OFF/ON
			H-POS	0~60
			V-POS	0~34
			H-SIZE	0~60
			V-SIZE	0~34
			Y LEVEL	0~20
			CB LEVEL	0~20
			CR LEVEL	0~20
			TRANS	0~3
		POLYGON	OFF/ON	
			ZONE NUM	0~7
			ZONE DISP	OFF/ON
			POS0-X ~POS3-X	0~120
			POS0-Y~POS3-Y	0~68
			Y LEVEL	0~20
			CB LEVEL	0~20
			CR LEVEL	0~20
			TRANS	0~3
MOTION	OFF			
	ON	DET WINDOW	WINDOW USE	0~3
			WINDOW ZONE	OFF/ON
			DET H-POS	0~60
			DET V-POS	0~34
			DET H-SIZE	0~60
			DET V-SIZE	0~34
		SENSITIVITY		0~10 **(5)**
		MOTION OSD		**OFF**/ON
		TEXT ALARM		**OFF**/ON
SYSTEM	COMM	CAM ID		0 ~ 255 **(1)**
		BAUDRATE		2400,4800,**9600**,57600,115200
		CAM ID DISPLAY		**OFF**/ON
	OUTPUT	FRAME RATE	HD-SDI	**1080_30p(25p)**, 720_30p(25p), 720_60p(50p), 1080_60i(50i)
			EX-SDI	1080_30p(25p), 720_30p(25p), 720_60p(50p), 1080_60i(50i), 1080_60p(50p)
		FREQ		50Hz(PAL) / 60Hz(NTSC)
		SDI MODE		**HD-SDI** / EX-SDI
		SDI OUT MODE	EX-SDI	**135M(V2.0)** / 135M+(V2.1) / 270M(V1.0)
			HD-SDI	Fixed [1.5G]
			1080p60(50)	Fixed [270M]
		ANALOG MODE		OFF / **CVBS** / HD_T / HD_C / HD_A
		CVBS OUT MODE		CUT / **FULL**
	LANGUAGE			**ENG**/ CHINESE/ CHINESE(S)/ JAPANESE/ KOR
	CAM TITLE	OFF		
		RIGHT UP		0 ~ 9, A ~ Z, blank
		LEFT DOWN		0 ~ 9, A ~ Z, blank
FACTORY DEFAULT				Reset to factory setting
EXIT				Exit SETUP menu

HDSDI CAMERA SPECIFICATIONS

Signal System	HD-SDI (Serial Data Interface) or EX-SDI
Pickup Device	**1/2.8"(D-6.46mm) 2.12M Sony CMOS Sensor**
Scanning System	Progressive Scan (16:9)
Sync. System	Internal
Total Pixels	2.16MP [1,945(H)x1,109(V)]
Active Pixels	2.12MP [1,937(H)x1,097(V)]
Min. Illumination	**0.01Lux(F2.5 - 30IRE), 0.0003Lux(DSS on)**
No. of IRED	N/A
Video Out 1 (BNC)	HD-SDI: 1080p25/30, 720p25/30, 720p50/60, 1080i50/60 EX-SDI: 1080p25/30/50/60, 720p25/30/50/60, 1080i50/60
Video Out 2 (BNC)	Analog CVBS or AHD, TVI, CVI AHD, TVI and CVI: 1080p@25/30 / Analog CVBS: D1
Lens	**Pinhole f=4.3mm Super-cone type, F2.0**
Lens (Mount)	Board type (M12)
Angle of View	82˚(D), 69˚(H), 39˚(V)

ARTHUR HOLM

Patents

MU17180ES00
MU17301ES00
MU17322ES00
MU17413ES00
MU17445ES00
MU17854ES00
MU17868DEPC
MU17868RUPC
P24821DEEP
P24821ESEP
P24821GBEP
P24821USPC
P27178DEEP
P27178EPDV01
P27178EPPC
P27178ESEP
P27178ITEP
P27178RUPC
P27178USPC
P27284DEEP
P27284EPPC
P27284ESEP
P27284GBEP
P27284RUPC
P27284USPC
P27715ESEP
P28089DEEP
P28089ESEP
P28089ITEP
P28089USPC
P28090EP00
P31160ESES
P31160PCES

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