DynamicChairDisplay

HDCP compliant aluminum motorized monitor for armrest integration
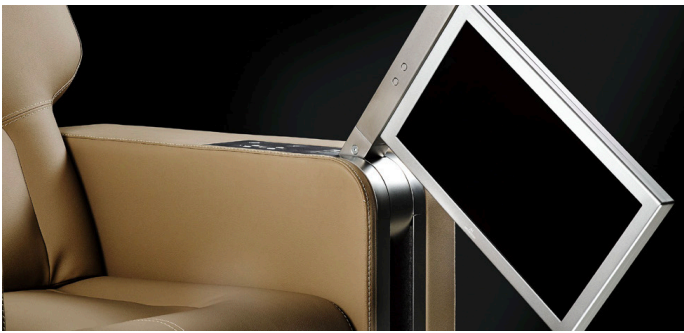
Highlights

- Adapts to multiple armrests
- Motorized adjustable angle
- Panic functionality
- Interactive Setup Display (ISD)
- Maintenance free
- Energy saving design, low consumption video controller
- Serial control and remote diagnosis
- Wireless connectivity for setup and control
- Individual monitor addressing
- AHlink: Wireless connectivity for setup, adjustments and control
- Auto Mechanical Movement Calibration (AH-AMMC)

Technology serving Design

General

Arthur Holm DynamicChairDisplay is a retractable motorized monitor to be integrated in chair armrests. The monitor is only visible when it is in use and it is safely stored in the armrest when not needed. This elegant aluminum screen possesses an automatic vertical extraction movement plus an additional manual rotation towards the user followed by a motorized tilt adjustment. The monitor housing is made of milled aluminum with anodized finish. Its mechanism is robust and silent and the whole solution is integrated in a compact block, being very simple to install.

Technical Specifications

Display

Size	FULL HD 15.6" TFT Active Matrix, widescreen
Resolution	1920 (h) x 1080 (v)
Brightness	400 cd/m2
Contrast ratio	1500:1
Pixel	0.17925 (h) x 0.17925 (v) mm
Viewing angle	85°/85° (u/d) / 85°/85° (l/r)
Viewing area	344.16 (h) x 193.59 (v) mm
LED backlight lifespan	70,000 hrs
Response time	Tr + Tf 35 ms
Temperature (operating/storage)	Operating 0ºC ‿ +40ºC Storage -20ºC ‿ +60ºC

Materials

Monitor housing	Anodized Aluminum

Connectivity

Input signal	DVI-I (1 input) – HDCP Compliant DVI-D (1 input) – HDCP Compliant
RJ45 CAT6 (with loop)	Addressable RS422 monitor control by AHnet protocol
GPI (SubD9)	Up/Down control
USB	For service

Control

RJ45, RS-422 (I/O), AHNet protocol	
Addressing	
Termination switch	
GPI	

Movement's Control

User interface on monitor	(Up/Down)
Remote	RS-422 I/O, GPI
AHlink	

Electrical

External power supply	100-240 Vac, 47/63Hz, 12Vdc
Power consumption	50W

Mechanical

Monitor Dimensions:	
Weight	16 Kg / 35.2 Lbs

Shipping Dimensions:	
Weight	17 Kg / 37.4 Lbs
Shipping Box	740 x 610 x 175 mm [29.13" x 24.01" x 6.88"]

Options

- Projected capacitive multi-touch screen
- Integrated USB power on the cover plate
- Synchronized mechanism for gooseneck microphones
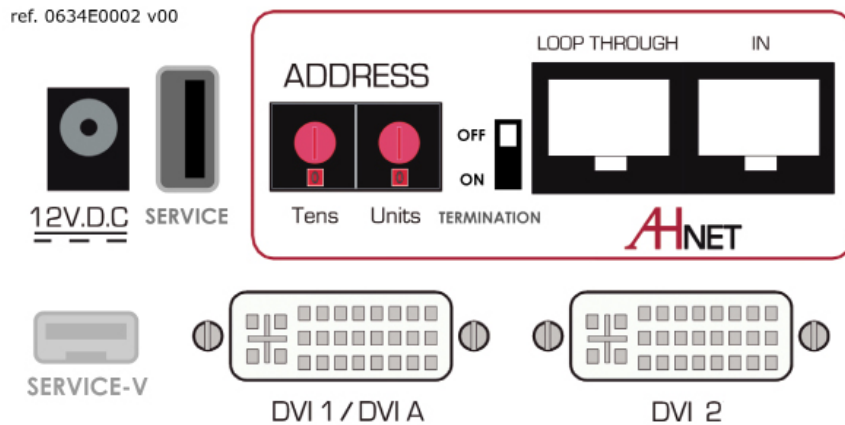
Certifications

- CE
- FCC
- IECEE

Warranty

- 2 years general warranty
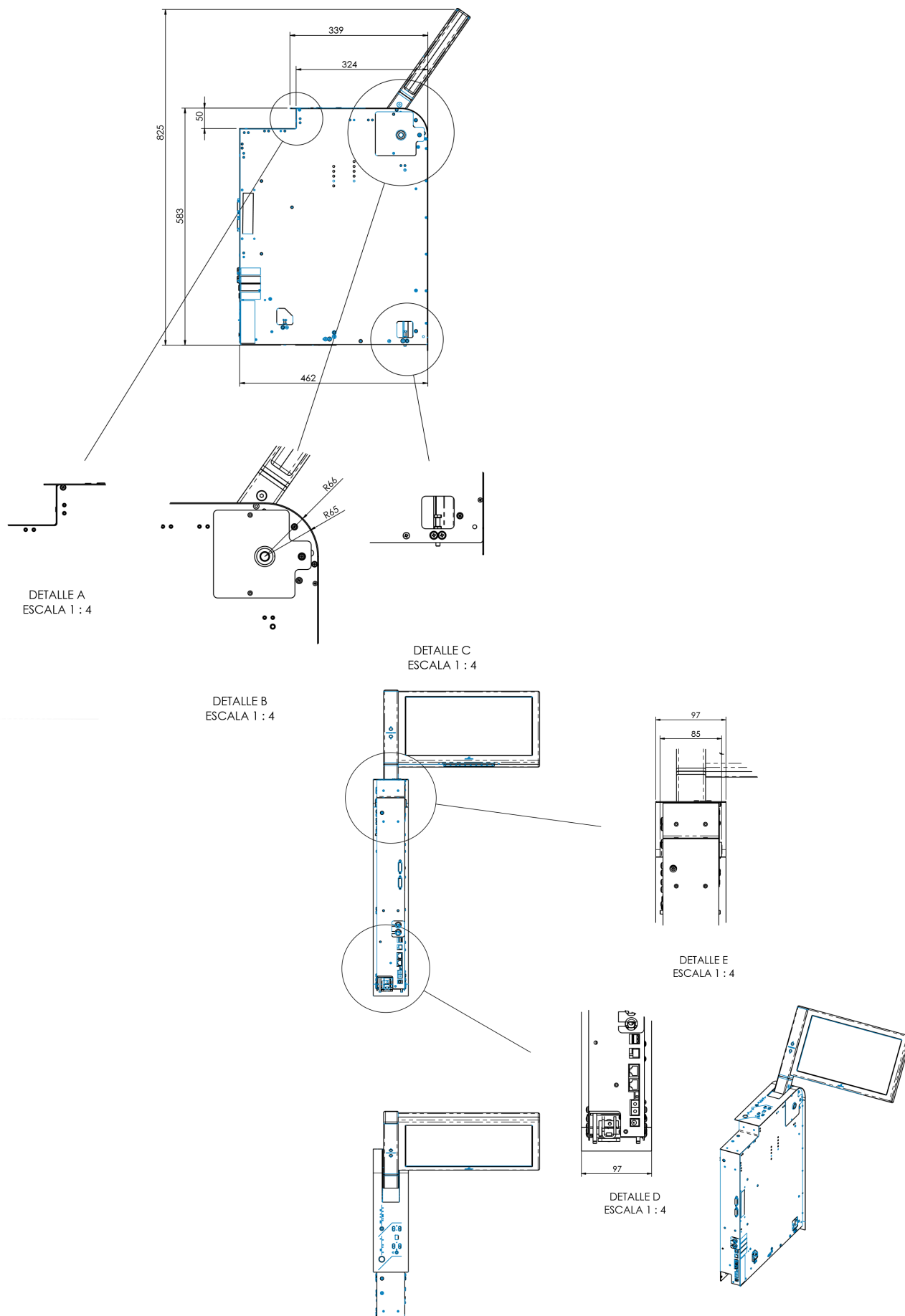
AH15DCDHD

ref. 0634E0002 v00

Consultants, architects and engineers specifications

The aluminum monitor shall provide a motorized lifting and angle adjustment with a single electrical engine. The monitor shall provide a manual horizontal adjustment (rotation towards the user) for the user´s safety.

The monitor housing shall be made of milled anodized aluminum and shall have a brightness of 400 cd/m2, a contrast ratio of 1500:1 and a backlight lifespan of 70,000 hours.

The monitor shall provide 2 DVI HDCP inputs by a licensed HDCP monitor manufacturer. The monitor shall provide an addressable RS-422 and an easy to read Interactive Setup Display (ISD) to access the safe- ty parameters, the setup of the speeds and the control of the brightness, contract and backlight. The monitor shall be able to run an autoadjustment program to reset the factory setups. The monitor shall provide a USB port for firmware upgrades. The monitor shall be controlled by a wireless Android and iOS app providing information about the monitor's serial number, and providing access to the control and to the setup menu.

Technology serving Design

AH15DCDHD

DETALLE A
ESCALA 1 : 4

DETALLE B
ESCALA 1 : 4

DETALLE C
ESCALA 1 : 4

DETALLE E
ESCALA 1 : 4

DETALLE D
ESCALA 1 : 4