Albiral Smart
Motorised retractable monitors

Albiral Smart monitors combine perfectly style and technology to create unique meeting and conference rooms with all the best and brightest. This professional monitor range provides an innovative and flashy design with exceptional features, setting up inspiring spaces where ideas flow, versatility is unlimited and the user experience breaks out to be remembered. Robust and reliable, unobtrusive and flexible, ergonomic and astonishing, Smart monitors integrate perfectly into the interior design of the room, disappearing inside the furniture when not needed.

Advanced top features

- Automatic 20º tilt
- Single engine for up/down and tilt movements
- Harmonic variable speed drive
- Extremely silent
- DVI-I and DVI-D video inputs
- HDCP licensed monitor manufacturer
- Maintenance free
- Energy saving design
- Security system
- Serial control and remote diagnostic by AHnet
- AH-AMMC Auto Mechanical Movement Calibration

Smooth, silent and harmonic drive

The Smart variable speed system makes the monitor to appear smoothly from the desk, reaching a faster cruise speed when rising to finally slow down again to adjust perfectly to the ergonomic 20° tilt work position.
The passive cover plate opens elegantly being pushed by the monitor itself with a soft and accurate movement.
An internationally patented lift and tilt system allows the use of only one engine for both movements, thus reducing noise and maintenance.

Total control. Remote is the way!

The control of monitors does not have to be only local anymore. Smart monitors can be totally controlled at remote level through the AHnet protocol with the RS-422 port, so functions like the opening/closing of the device, the rising speed or the video input selection, among many others, are easier to manage than ever.
AHnet helps to get the best screen working conditions for every room, as it allows to adjust brightness, contrast or backlight parameters according to the distribution or the general light of the space. Equipments are also able to adjust parameters automatically. The AH-AMMC Auto Mechanical Movement Calibration corrects and readjusts the monitors parameters after possible changes suffered after transport or first installations.
AHnet also allows a remote diagnostic of the monitors, extracting a Log file with detailed information of the equipments registers and activity which is extremely useful to detect any problem or developing checking or adjusting tasks.
The AHlink app also allows to fulfil these configuration and diagnostics procedures through a wireless connection.

Connectivity to the max

Connectivity in Smart monitors integrates the most common standards to guarantee a smooth and easy operation with different connection systems. The DVI-I and DVI-D inputs allow to work with both analogue and digital signals. In this respect, Albiral is a HDCP licensed monitor manufacturer, protocol that assures protection of HD quality contents.
Monitors also include a USB port to update the firmware, so new improvements can be easily integrated to the system.

Secure and reliable system

Smart monitors integrate an advanced and unique security system carefully designed for user protection. Extremely sensitive sensors of the monitor are able to detect any possible obstruction in the mechanism, which causes the unit to stop movements immediately. If any object or part of the user's body is placed somewhere interfering the rising or retracting of the display, the precision system of the unit reacts straight away to avoid any damage.
Smart monitors are completely reliable not only in terms of safety, but also regarding their long lasting useful life, increasing the sustainable nature of the devices. Monitors are manufactured only with professional components and high end materials, a superb quality ensured by Albiral's 5 years mechanical warranty.

General Description

The Smart retractable monitor by Albiral is a professional electrically retractable 18.5" widescreen monitor to be integrated in furniture.
With a 20⁰ automatic tilt, the monitor has a powder coated steel housing and an up-table cover plate in brushed stainless steel.
It includes DVI-I and DVI-D inputs which are HDCP compliant.
The Smart monitor integrates a patented single motor system activated through push buttons placed on the cover plate.
The monitor works with the AHnet protocol (RS422) through CAT5 loop-through cable, individual addressing and termination switch.

The monitor that best fits your needs

The Smart retractable monitors product range can adapt to any meeting and boardroom workspace and fulfil successfully every need or requirement. Versatility is one of the core features of Smart monitors and they can be customised with different options on offer.

DynamicLoop	Connectivity system allowing to connect monitors in a daisy chain using a HDMI signal. Up to 20 units can be connected with Full HD resolution. This reliable and easy to cable system board is integrated internally in the units, so there is no need of additional power supplies.
DynamicShare	Software free and wireless share system that allows users in a meeting room to share different video sources among each other without the need of technical knowledge and assistance. With no need to integrate external devices, DynamicShare allows the signal to be distributed and shared through an HDMI daisy chain connection platform that also embeds the control protocols of the monitors. It is available in 2 versions: DynamicShare standard embedded in the monitor for signal distribution, selection and control or as a stand-alone device for third party monitors and video display solutions.
DynamicTalk	Universal motorised lift system for gooseneck microphones with XLR connector. This unique system makes the microphone disappear within the desk surface at just the push of a button and also provides a LED light to indicate the availability of the speaker to talk. The DynamicTalk also works as a microphone shock mount, protecting the microphone from vibrations and unwanted sounds.
Touch screen	Interactivity is assured with the touch screen, optimising the monitor to become a convenient and engaging device.
Customised finish	Finish in Smart monitors offer different options. The standard version is made of coated painted steel (RAL system), but colour can be changed to adapt to different environments and rooms styles. Monitors can also be prepared to be veneered, so the housing finish matches perfectly the desk surface creating a smooth and uniform integration.
UnderCover	Patented solution of an integrated automated cover plate able to conceal perfectly the motorised monitors and other audio conference and connectivity options. UnderCover is an ingenious but simple system that combines cutting edge technology and minimal design to disappear within the desk when not in use.
Underneath installation	The monitor also is suitable for an underneath installation, leaving the surface flat and clean and creating a flexible table space that can be used for other purposes.
Personalised connectors	Smart monitors can be customised integrating different connectivity options in the cover plate: speaker, voting system, USB connectors, HDMI retractable cable, power outlet, audio mini-jack or VGA connectors, as well as a free button for extra functions.

Product specifications

Screen	
Size	18.5" TFT Active Matrix. LED Backlight
Resolution	1920 (h) x 1080 (v)
Brightness	400 cd/m2
Contrast ratio	1500:1
Pixels	0.213 (h) x 0.213 (v) mm
Viewing angle	85°/85° (u/d) - 85°/85° (l/r)
Viewing area	408.96 (h) x 230.04 (v) mm
LED backlight lifespan	50,000 hrs
Response time	Tr + Tf 35 ms
Temperature	Operating 0°C /+40°C Storage –20°C / +60°C

Engine	
Control Up/Down	Buttons on cover plate. RS422 (RJ45 CAT5)
Electronic control	PWM
Materials	
Cover plate	Brushed stainless steel
Cabinet	Powder coated steel
Connections	
Input signal	DVI-I and DVI-D inputs. HDCP compliant
RJ45 CAT5 (with loop)	Addressable RS422 control by AHnet protocol
Electricity	
External power supply	100-240Vac, 47/63Hz, 12Vdc
Power consumption	55W

General dimensions