



NEVELUS AERO
WIRELESS ALARM
SYSTEMS
OUTDOOR PROTECTION





OUTDOOR MOTIONVIEWER **NVL FS 100**

No power required, 100% wirefree!

Since construction sites, vacant buildings, substations and all outdoor sites are usually uncontrolled environments, video verification is especially important to eliminate costly false alarms.

Nevelus Aero is wireless and battery-powered so it can be installed anywhere for optimum effectiveness. MotionViewers are available for both indoor and outdoor applications and for harsh environments. Installation can be temporary or permanent using screw-on brackets. MotionViewers can also be mounted directly on the assets needing protection. Whatever the application, the Nevelus Aero delivers maximum flexibility for cost-effective installation and greater security.

Use	Outdoor
Video	Colour
Operating temperature	-25° / +70°C (-20° / +140°F)
Installation	Mounting Bracket (Réf. MB110)
Tamper	✓ With an accelerometer captor
Angle detection	90° by default
Lentes	3 spare in the box: Vertical curtain, horizontal curtain (pet immune), long range
Masking kit	✓
Input/Output	✓
Battery life	4 years
Protection rating	IP65/IK06
Power supply	4 LS14500 lithium batteries





NEVELUS AERO CONCEPT

- 1 On detection, the wide-angle camera records a colour video clip.
- 2 The video is sent to the monitoring station or one or more smartphones. The monitoring operators and the end users can watch the video of the intrusion in real time, removing any doubt!
- 3 When there is a genuine intrusion, the monitoring station calls the police or required response...

CONTENTS

OUTDOOR PROTECTION



Construction sites	4
Scaffolding	6
Remote Facilities, Mines	8
Cell towers & Substations	10
Vacant properties	12
Copper theft	14
Solar farms	16
Other examples	18

Nevelus Aero, a key player in the alarm system market!

Depending on the selected panel:

- Operates up to 4 years on one set of batteries
- Quick installation wireless or powered
- Alarm video sent over GPRS / IP / WIFI™
- Connected, accessible, portable, usable anywhere

Quality

NEVELUS products comply with local and international certifications: CE, EN50131-Grade 2, NFA2P 2 boucliers (Europe), IDA (Singapore), A-Tick (Australia), ICASA (South Africa), FCC, IC, PTCRB (North America), and are manufactured in certified factories in France ISO9001 and ISO/TS16949.





NVL FS 100 CONSTRUCTION SITES

Nevelus Aero can be installed wherever there is a mobile signal — no need for power cables, phone lines or internet services that construction sites often lack, especially in the early stages.

Since construction sites are usually uncontrolled environments, video verification is especially important to eliminate costly false alarms and deliver priority response when there is an actual crime in progress.

Nevelus Aero portability means it can be moved around as the project evolves — even if that means being installed months later at a brand new site!





Example of Nevelus Aero efficiency on Construction Sites

40 APPREHENSIONS IN 4 MONTHS WITH NEVELUS AERO!

In Arizona (USA) a Security Company purchased a demo kit from Nevelus Aero and began testing the system outdoors in the real world. The Security Company mounted MotionViewers throughout one site to act as portable sentries to their powerful Mobile Surveillance Units (MSU). Once a MotionViewer detected the intruder, they used the MSU to coordinate real-time response in high resolution.

Immediate success was achieved from their first installation with an apprehension at a commercial construction site 4 days after install.

The installation was simple because even the communicator/panel operates up to 4 years on a set of batteries. They put the panel in a NEMA box, tie-wrapped the box to a light pole, and mounted the MotionViewers as discreetly as possible; one in a tree near the buildings, one on a storage container, and one under a trailer. Installation time: 2 hours.

In 4 months, the Security Company has dispatched police who have made over 40 apprehensions.





NVL FS 100 SCAFFOLDING

Construction sites are generally poorly secured, especially scaffolding. The walkways are used by thieves to vandalize and/or steal from outdoor areas or gain access to less secure upper levels of a building, that's why you need an alarm system which can be located anywhere.

Nevelus is the solution! Products are wireless, adapt themselves everywhere and are easily portable. No need for mains power supply or telephone lines!





Example of Nevelus Aero efficiency on Scaffoldings

SCAFFOLDING PROTECTED BY NEVELUS AERO IN PARIS!

A French Security Company explains : «During building restoration, scaffolding allows access out of sight, which supports burglaries. Yet, it is necessary to know that owners are not necessarily covered by their insurance in case of intrusion to their property by means of scaffolding!».

To resolve this problem the French Security Company protects scaffolding and boom platforms.

- More than 500 scaffolds protected with Nevelus
- 300 sites protected in Ile-de-France (France)
- Number of outdoor MotionViewers per site : 7
- Number of outdoor MotionViewers per scaffold: 4
- About 12 000 interventions a year due to intrusions
- User customers: SRP, Bechet, Livet, Eiffage, Kaufman and Broad, Vinci...



NVL FS 100

REMOTE FACILITIES & MINES

Nevelus can be installed with only a cell tower signal for communication – no need for the traditional AC power, phone line or internet requirements that remote sites often lack.

Since many remote sites are unfenced, uncontrolled environments, video verification is especially important to eliminate costly and wasteful false alarms.

Nevelus's portability and wireless/cordless design means MotionViewers can be moved and repositioned as the project evolves – even if that means being installed months later at a brand new site!





Example of Nevelus Aero efficiency on Gravel Pit Sites

POLICE OFFICERS USE NEVELUS AERO TO PROTECT OUTDOOR SITES!

Protecting isolated sites is a necessity today.

It's in this context that the Police Officer of Molsheim (France) and Nevelus Aero combined their skills to try to end thefts on a French gravel site.

Installation

A panel with two Outdoor MotionViewers on each site.

Cameras were fixed on trees with panels in suitcases under brambles. Each camera was pointed towards vulnerable cables.

Police Officers reached the site by an agricultural track, the thieves entered by a field around the back.

« The experience was very positive! Our officers don't go for no reason now » underlines the Head of Police.

This test allowed the arrest of a whole network while previously law enforcement could only detect the burglary after the event.

This gravel site in France is now protected by Nevelus and a Central Station.





NVL FS 100

CELL TOWERS & SUBSTATIONS

Cell towers require a security solution that is both effective and scalable-Nevelus Aero is the answer! Unlike CCTV or DVR-based systems, Nevelus alerts companies about break-ins when they are occurring so action can be taken immediately. Cell tower companies can use the outdoor prox tag reader, a built-in schedule or a smartphone application to arm and disarm the system.

Video verification is also crucial for critical substation infrastructure because a few extra minutes in response could mean potential outages and significant costs to repair.





Example of Nevelus Aero efficiency on Cell Towers

CELL TOWERS PROTECTED IN USA

The systems have been in place for over a year and have proven they deliver real protection against thefts at AT&T (Telephone Operator in USA) cell towers. The new wireless video security outdoor system is performing beyond expectations.

In addition, the Security Company's monitoring and installation processes deliver results that can be measured and thus help to support a purchase decision based on the return on investment. Affordable hardware, simple and consistent installations and proven processes are all part of the solution. The Security Company is being noticed beyond AT&T as other carriers and tower owners begin to follow AT&T's lead and deal with theft in a serious way.

Compelling statistics

The financial effect of the 25 wireless video security system test sites has been compelling:

- The cell tower sites installed represented reported losses of more than \$100,000.
- No thefts have been reported at 18 of the cell site locations since installation of the alarm system. Criminal losses at those sites stopped.
- Criminal activity was detected at five cell sites following installation of the video alarm system
- The activity was quickly noted and police were dispatched in all five incidents.





NVL FS 100 VACANT PROPERTIES

Nevelus Aero is a great solution for vacant properties because it requires nothing from the building itself- no power, phone line or internet connection!

Since the Nevelus Aero system is portable, it can be relocated to new facilities if the building ends up getting sold or demolished. A prox tag can be left in the lock box for agents to arm and disarm the system using the badge reader or it can be put on a 7-day schedule for auto arm and disarm.





Example of Nevelus Aero efficiency on Vacant Properties

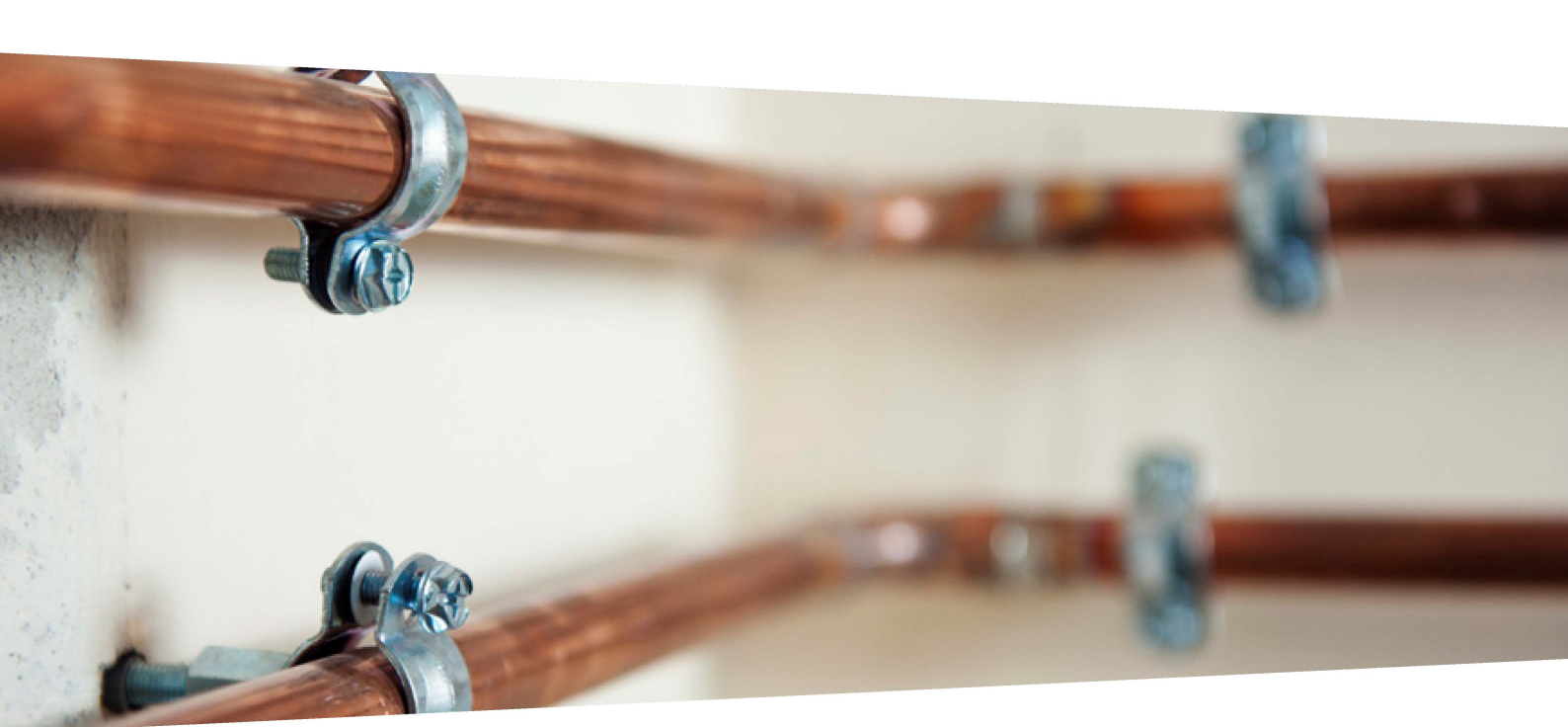
NEVELUS AERO PARTNER PROTECTS VACANT PROPERTIES IN UK

According to estimates, between 7-9% of commercial property is currently vacant in the UK, and with 5,593 businesses failing, the rate of vacancy is likely to remain high.

This, combined with the high rates of non-domestic burglary and vandalism in England and Wales, indicates a significant risk to vacant property assets.

According to the Managing Director of Nevelus Aero partner : “This all-in-one video alarm has been developed in response to demands from installers for a solution that is quick and easy to deploy and just requires power. It uses best of breed components to deliver class leading performance and has the resilience to meet the surveillance requirements of organisations in any outdoor environment.”

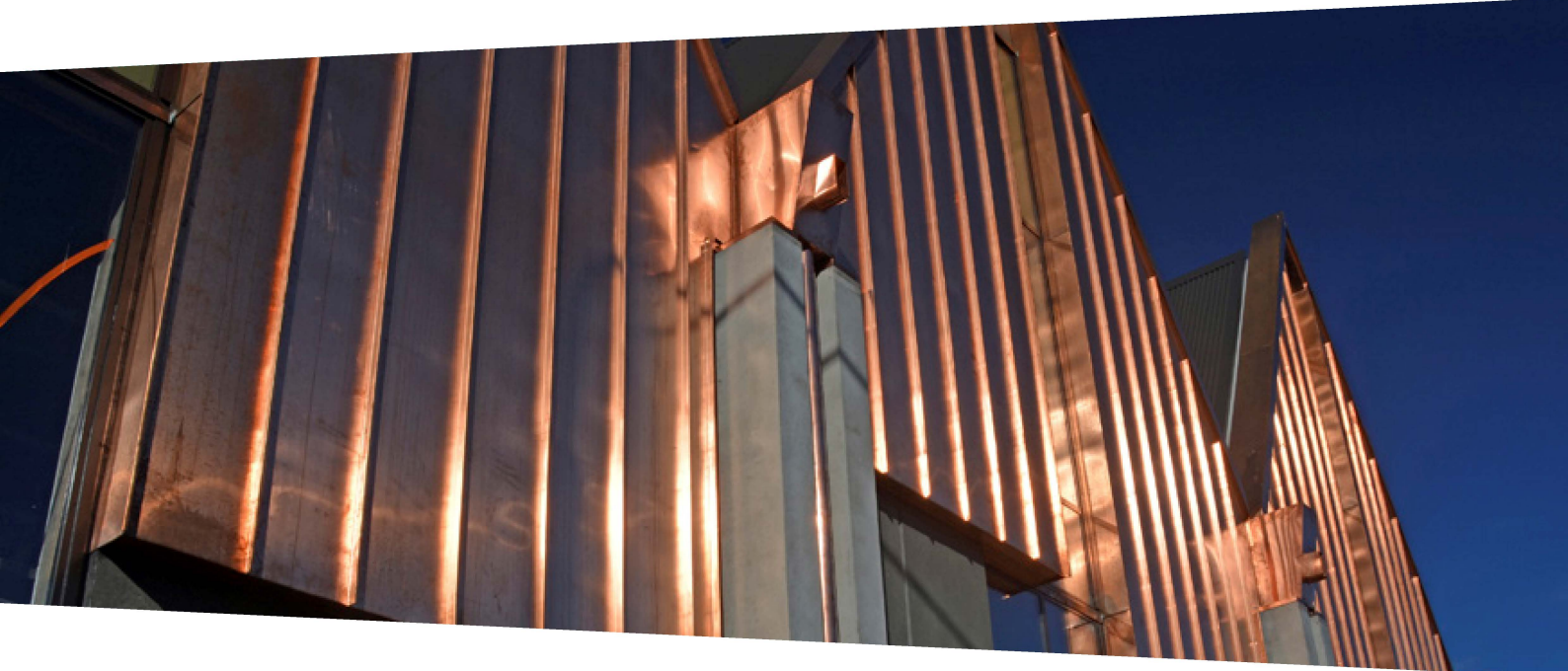




NVL FS 100 COPPER THEFT

Copper theft can happen anywhere and usually does...that's why you need security that can go anywhere to protect remote assets outdoors. If there is a cell phone signal available, we can protect it. Since Nevelus Aero requires no power and is completely wireless, the system can be installed for example, during early-stage construction projects, before IP networks and fences, when copper is most vulnerable. Nevelus Aero provides a video of the intruder as the crime starts for immediate review/dispatch, so you don't find out about break-ins and damages hours or days later!





Example of Nevelus Aero efficiency against Copper Theft

CATCHING A COPPER THIEF IN THE ACT

A multi-MotionViewer Nevelus Aero system installed at a remote cell tower site caught a thief in the act of attempting to steal copper. The event is captured in 3 video clips.

- 1) The thief removes the AC unit and climbs into the dark equipment shelter at the base of the tower. The central monitoring staff immediately sees what is happening and call the police describing a crime-in-progress. Police are dispatched immediately.
- 2) The thief has grabbed his tools and is busy cutting cables, damaging equipment, not knowing that he is being watched and that the police are already on their way.
- 3) The police officers escorting the criminal to jail.

Result

Thomas Urzua entered a guilty plea in Dallas County, TX for burglary. He was sentenced to three years and was ordered to pay restitution.

Summary

This apprehension was made possible by verifying a crime-in-progress using Nevelus Aero wireless security. This technology eliminates the need for wires, AC power, communication lines and expensive installation. The affordable solution provides event-driven video, instant verification and expedited police response to catch the bad guys before significant losses.





NVL FS 100 SOLAR FARMS

Thefts of solar panels have become an increasing problem in rural areas...

The solar farms are often located in remote areas. Consequently, a short response time to any disruption has become one of the most pressing security issues. Traditional security such as physical barriers and blind alarm systems are incapable of providing a sufficient solution when addressing these types of issues.

Nevelus Aero is apprehending this new generation of thieves with cordless/wireless video security.





Example of Nevelus Aero efficiency against Solar Farm Theft

THE ONLY COMPANY IN GREECE FOR SOLAR PANEL PROTECTION

Around the world there has been a marked increase in the theft of solar panels, with victims losing tens of thousands of euros worth of equipment in single incidents.

A new wave of thieves has found solar panels attractive for the same reason that many homeowners are turned off by them: they're quite expensive. And, unlike jewelry and other valuables, solar panels are conspicuously strewn about the countryside, blatant as billboards, Solar panels are easy targets for thieves and are often unprotected.

In Greece, a Security Company found the solution : install Nevelus and Outdoor MotionViewers to protect Solar Panels.

This is the only Security Company in Greece that provides this kind of installation and protection. On all protected sites, Nevelus has been really effective with no thefts or acts of vandalism!



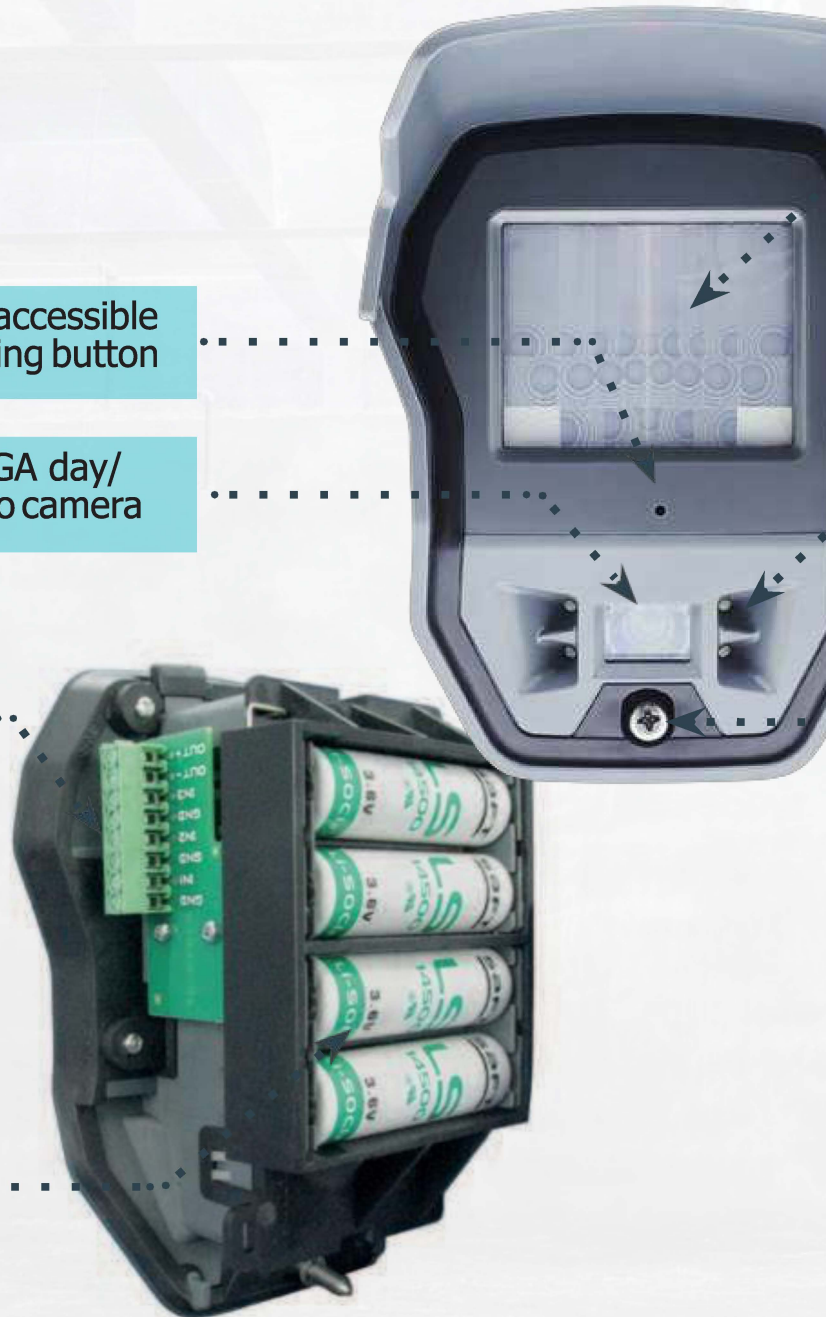
WITH NEVELUS AERO PROTECT ALL OUTDOOR AREAS

Externally accessible
programming button

New QVGA day/
night video camera

Inputs (3)/output (1)
terminalsto integrate
(and video-verify)
3rd party devices such as
panic buttons, doorbells,
pressure mats, beam
sensors, gate contacts,
etc.

4 LS14500 Lithium AA
batteries,
longer between changes



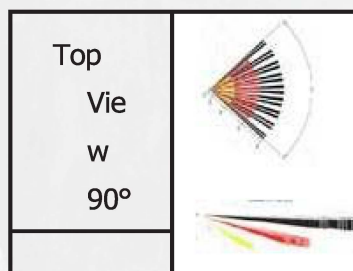
4 Fresnel lens options plus masking kit for customizable detection, application flexibility, and reducing potential false alarms

4 infrared illuminators for brighter nighttime video, with illumination range at 30' (from device to ground)

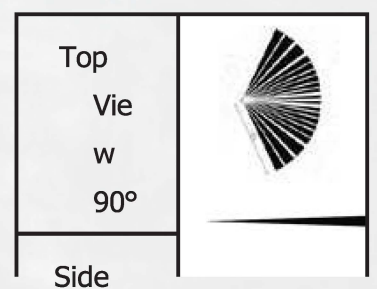
One-screw removal of the body for easy battery change; simple install and field maintenance

INCLUDED LENS OPTIONS:

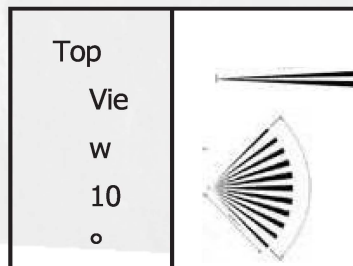
- Standard



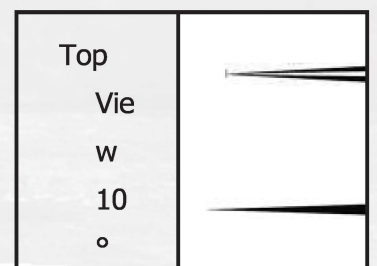
- Horizontal Curtain

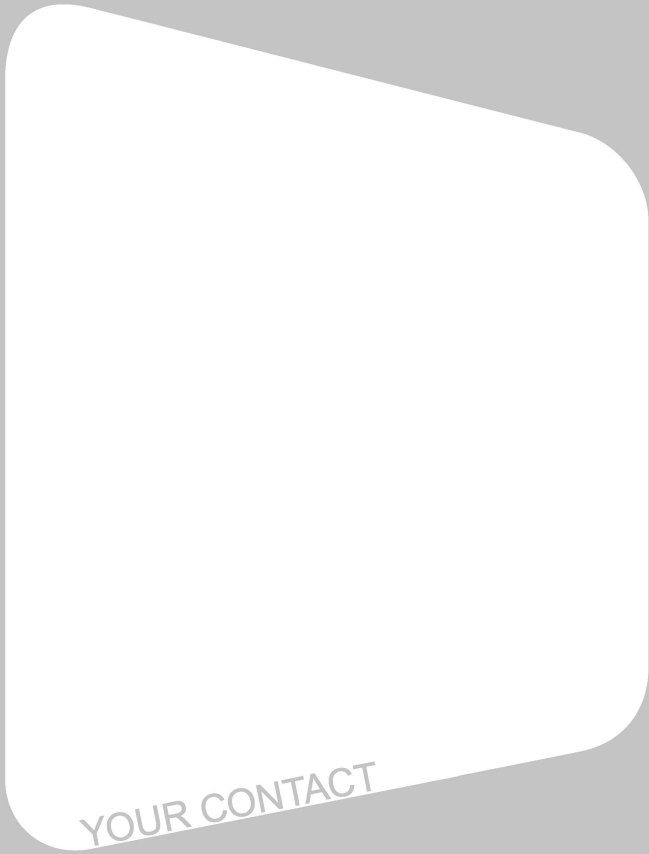


- Vertical Curtain (corridor)



- 1 Spot





YOUR CONTACT



info@nevelus.se

THIS DOCUMENT IS NOT A LEGALLY BINDING DOCUMENT

DOCUMENT NON CONTRACTUEL

APRIL 2023