

Specialists in the supply and installation of  
enhanced glass protection, high-risk  
security consulting, training and  
equipment

unival security

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unival commercial

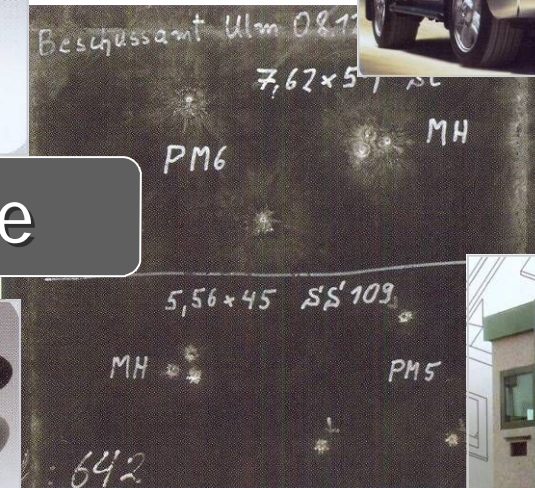
unival consulting

unival ecoprotect

Counter Measures



Intelligence



Physical Protection

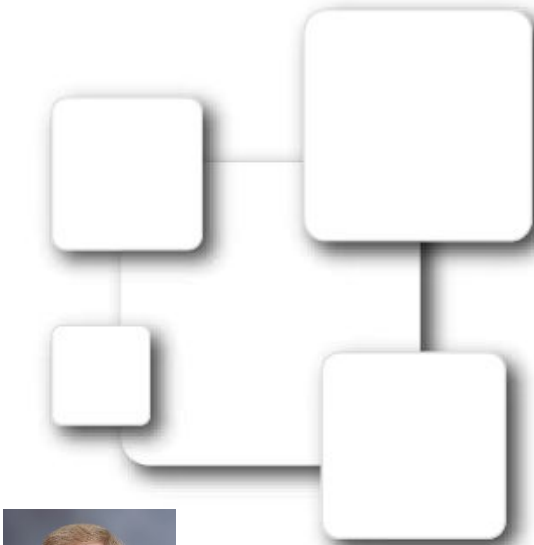


Over the last years unival® group has developed into a powerful innovator in ballistic and blast protection technologies with both client customized high-end solutions but also magnitude products.

Our clients are governmental organizations, police and defense forces, NGOs, multi-national companies and security companies with a focus on emerging markets in the Middle East, Eastern Europe, Asia and Africa.

With our production facilities and offices in Germany, Bulgaria and the United Arab Emirates we are close to today's markets and can accomodate certified product quality, customized shipment solutions and fastest delivery times.

With a distribution and service network operating in more than 30 countries, we are able to serve our clients almost all over the world.



Dr John Wyatt,  
Technical Director, International  
counter terrorism expert .

"The demand for reliable technologies in the fight against terrorism at home and abroad is rapidly growing.

# Counter Measures Intelligence Physical Protection

**Corporate Mission**

Improvised explosive devices (IEDs) have become the signature weapon of international terrorism as they are simple, cheap and deliver a disproportionate effect. IEDs cannot be extrapolated into anything other than a major threat to political stability worldwide. This tactic has been used by the Irish Republican Army in Britain, insurgents in Iraq and Afghanistan, the Medellin Cartel in Colombia, Muslim extremists in Europe and numerous other terrorist and criminal organizations.

Terrorist will continue to use IEDs to achieve their objectives. Various terrorist training manuals that are available in the internet, explaining in great detail how to convert common chemicals into explosive and how to employ radio controlled improvised explosive devices (RCIEDs). At the extreme, an IED can be enhanced into a "dirty bomb," rigged to scatter radioactive material.

This threat creates big challenges to protect personnel and assets, operating in crisis areas but also even emerging markets. The integration of intersecting technologies becomes necessary in order to provide a sustainable security concept.

unival® group is able to cover a wide field of intersecting security requirements, ensuring fast integration of our perfectly synergetic portfolio from the following product fields:

**Intelligence**

Explosive Detection/ Night Vision/ Thermal Imaging/ Tracking

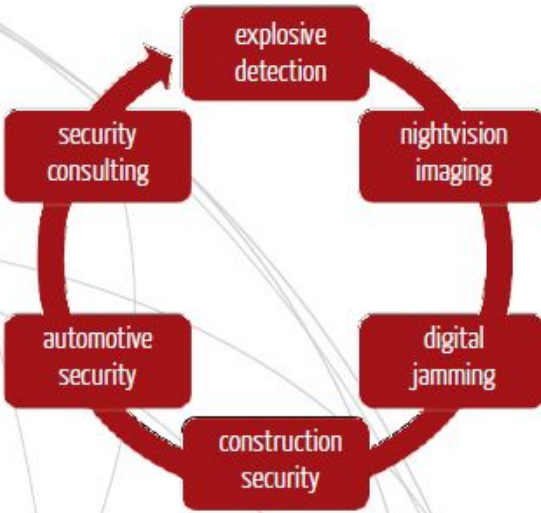
**Counter Measures**

Digital wideband jamming systems

**Physical Security**

Automotive and construction security

Our corporate mission is to create a unique price/ value level for our clients, which combines high-end security products, professional consulting and competitive pricing.



## unival® group of companies - about us



- unival security
- unival commercial
- unival consulting
- unival ecoprotect





## Night Vision Scope unival® NVS-14

The NVS-14 night vision device is a miniature image intensifier for the professional user who requires a small sized device and clear view during the darkest night at maximum range. The NVS-14 is ideal for a whole range of night tasks including law enforcement, reconnaissance, security, and surveillance. The optional High-Power Laser IR-Illuminator can be mounted on a Picatinny style rail (NATO Standard). It has an illuminating range of up to 500m. The Infra Red beam can additionally be focussed. It allows for perfect illumination at very long distances or, if required, illumination of large areas such as border strips on land or water. The 1x magnification can be increased up to 3x. A perfect device for all situations where small size, perfect picture, security and performance are key. Can be mounted on any camcorder.

### System description NVS-14

Miniature Night Vision Scope with 1x magnification.

Exchangeable front lens (2x, 3x)

### Complete system includes:

NVS-14 Scope with 1x magnification

Black soft case

Battery 2x AAA, 1.5V

Operation manual

(Optional magnification 2x, 3x)

### Technical Specifications

Magnification: 1x (2x, 3x optional)

Lens: 25mm F 1:1.3

Range of detection: up to 500m

Diopter: +/- 3

Battery life up to: 20 hours

Battery type: 1.5 V AAA

Dimensions: 120 x 48 x 55 (mm)

Focus: 1m up to unlimited

Weight: 0.39 kg

### Optional

HP Laser IR for long range observation up to 500 m.

The IR beam is freely adjustable.

### Available generations

2super, XD4, XR5



## Mil-Pro-Green

Size: 20x180mm

Wavelength: 532nm (Green)

Weight: 85g

Laser Finish: Aircraft-Grade Aluminum

Mil-Spec Type III hard anodized black color

Output Power: 130mW

Beam Diameter: 1.5 mm @ aperture

Power Consumption: <700mA

Power supply: 2 X AA 1.5V

Battery Lifetime: 40 min (non stop using)

Switch: Push On / Off Button

Expected lifetime:

approx. 5,000 hours

Laser class IIIb

Very long range pointing



Counter Measures  
**Intelligence**  
Physical Protection

## Night Vision Scope NVS-PRO

The NVS-Pro night vision device is a miniature image intensifier for the professional user who requires a small sized device and clear view during the darkest night at maximum range.

The NVS-Pro is ideal for a whole range of night tasks including law enforcement, reconnaissance, security, and surveillance.

The optional High-Power Laser IR-Illuminator can be mounted on a rail. It has an illuminating range of up to 500m. The Infra Red beam can additionally be focussed.

It allows for perfect illumination at very long distances or, if required, illumination of large areas such as border strips on land or water.

The 1x magnification can be increased up to 3x. A perfect device for all situations where small size, perfect picture, security and performance are key. Can be mounted on any camcorder. (see application page)

The newly developed wide angle optics allow for an extremely flexible eye relief. The image remains clear and sharp even at a variable distance between the observer's eye and the device oculars.



### System description NVS-Pro

Miniature Night Vision Scope with 1x magnification and IR-Illuminator.

Exchangeable front lens (2x, 3x)

### Complete system includes:

NVS-Pro Scope with 1x magnification

Black soft case

Battery 1x CR 123A, 3V

Operation manual

(Optional magnification 2x, 3x)

Technical Specifications

Magnification: 1x (2x, 3x optional)

Lens: 25 mm F 1:1.3

Range of detection: up to 500m

Diopter: +2/-6

Battery life up to: 30 hours

Battery type: 3V, CR 123A

Dimensions: 120 x 48 x 55 (mm)

Focus: 20 cm up to unlimited

Weight: 0.39 kg

### Optional

HP Laser IR for long range observation up to 500 m. The IR beam is freely adjustable.

### Available generations

2super, XD4, XR5

unival® group - Night Vision

### System description NVS-THR

### Technical Specifications

Focal length of the lens: 50mm/100mm

(with 2x adapter)

Spectral response: 7-14μ

ΔT, temperature resolution: <.05°C

Resolution of video output: NTSC

Magnification: Optical zoom 2x with

adapter 2x and 4x digital zoom

Field-of-view: (V x H) 12° x 9° / 6° x 4.5°

(with 2x adapter)

Focus: Manual

Focus range: 5 meters to infinity

Contrast/brightness: Automatic, enhanced

Polarity control: White hot / Black hot

Detection of target "man": Up to 840 /

1,680 meters (with 2x adapter)

Identification of target "man": 375 / 750

meters (with 2x adapter)

Exterior: Water resistant, double seal

Enclosure for outside use: Not required

for normal use

Video output: SMPTE-170

LCD viewer: Color NTSC



### Reticle (crosshairs):

Alternating b/w crosshair (4)

Gun mount: Picatinny™ rail mount

Size: 193mm x 79mm x 67mm

Weight: 751 grams

Power (external): 1.8VDC - 6.0VDC, < 2.5W

Startup time: < 4 seconds

Storage temperature: -40°C to 85°C

Operating temperature: -10°C to 50°C

## Thermal Vision NVS-THR

NVS-THR is a family of low-cost FLIRs operating in long IR (7-14μ) range. Built to exacting standards, NVS-THR are shock and water-resistant and will withstand the environment when used as a weaponscope. Fast detachable mount allows the unit to be interchanged with other optical equipment in seconds. The electronic reticle allows precise targeting, changes color to provide maximum contrast against its background and optionally will estimate the temperature of the target in crosshairs. NVS-THR operates on either AA (8) or CR123 (4) batteries with swappable battery packs and has auxiliary port for operation on external battery, AC electrical outlets or vehicle cigarette lighters. A video output port allows the video to be displayed on an external video monitor or recorded and transmitted wirelessly. When used as a scope, NVS-THR may be operated hand-held or tripod mounted and externally controlled through software. NVS-THR is provided with 2x afocal adapter.



## Night Vision Scope unival® NVS-5T

The NVS-5T night vision device is an image intensifier for the professional user who requires a clear view during the darkest night at maximum range. It includes three picatinny rails (NATO Standard) for additional equipment.

The night vision device is ideal for a whole range of night tasks including law enforcement, reconnaissance, security, surveillance. The optional High-Power Laser IR-Illuminator has a range of up to 500m and can be attached to the picatinny rail (NATO Standard). The Infra Red-beam can additionally be focused and the outgoing power can be regulated. It allows for perfect illumination at very long distance or, if required, illumination of large areas such as border strips on land or water.

The 3x objective lens can be removed and exchanged as required for other magnifications such as 1x, 2x.

A perfect device for all eventualities where clear picture, security and performance are key.

### System description NVS-5T

Night Vision scope with 3x lens  
Exchangeable front lens (1x, 2x)  
Complete system includes:

NVS-5T Scope with 3x magnification

Black soft case

Batteries

Operation manual

(Optional magnification 1x, 2x)

(Optional HP Laser IR-illuminator)

Technical Specifications

Magnification: 3x (1x, 2x optional)

Lens: 75 mm F 1:1,3

Lens system: Replaceable

Range of detection: up to 500 m

Diopters: +/-3

Battery life up to: 20 hours

Battery type: 2x AAA, 15V

Dimensions: 140 x 60 x 50 mm

Focus: 1 m up to unlimited

Weight: 0,55 kg

### Optional

HP Laser IR for long range observation  
up to 500 m.

The IR beam is freely adjustable.

### Available generations

2super, XD4, XR5



## Night Vision Goggle unival® NVS-TWIN

These night vision goggles are featuring two image intensifier tubes and has been developed especially for precise orientation in the field during night time, for driving vehicles without the use of additional illumination or for conducting other tasks during the night.

Two separate night vision systems allow for depth perception, leading to a very good orientation of the user and exceptional detection of distant objects.

During the manufacturing of this night vision observation system only high quality optical components have been used.

A field of view of 40° at 1time magnification allows for safe movement in the field as well as detection of distant objects at the same time.

By using optional optics the system magnification can be increased up to 2 or 3 times.

The device can be head mounted when using the 1time magnification optics. When using the magnifier optics (2 or 3 times) the night vision device can be used and carried like regular binoculars. The newly developed wide angle optics allow for an extremely flexible eye relief. The image remains clear and sharp even at a variable distance between the observer's eye and the device oculars.



If infra red illumination is switched on, you will see a red light in the ocular according to mil. requirements.

### System description NVS-Twin

Miniature Night Vision Goggle with

1x magnification and IR-Illuminator.

Exchangeable front lens (2x, 3x)

### Complete system includes:

NVS-Twin Goggle with 1x magnification

Black soft case

Battery 1x CR 123A, 3V

Operation manual

(Optional magnification 2x, 3x, Headmount)

Technical Specifications

Magnification: 1x (2x, 3x optional)

Lens: 25 mm F 1:1,3

Range of detection: up to 500m

Diopter: +/- 3

Battery life up to: 30 hours

Battery type: 3V, CR 123A

Dimensions: 120 x 48 x 55 (mm)

Focus: 20 cm up to unlimited

Weight: 0,39 kg

### Available generations

2super, XD4, XR5

Counter Measures  
**Intelligence**  
Physical Protection

unival® group - Night Vision

## Night Vision Rifle Scope

Night Vision scope mounted to holo sight rifle scope (with day/ night mode). This combination allows to perfect target at the darkest night.



## Made in Germany

unival®group develops and manufactures all night vision and thermal imaging devices in Germany under highest quality standards. In addition to our serial production units we can also customize devices for our clients.



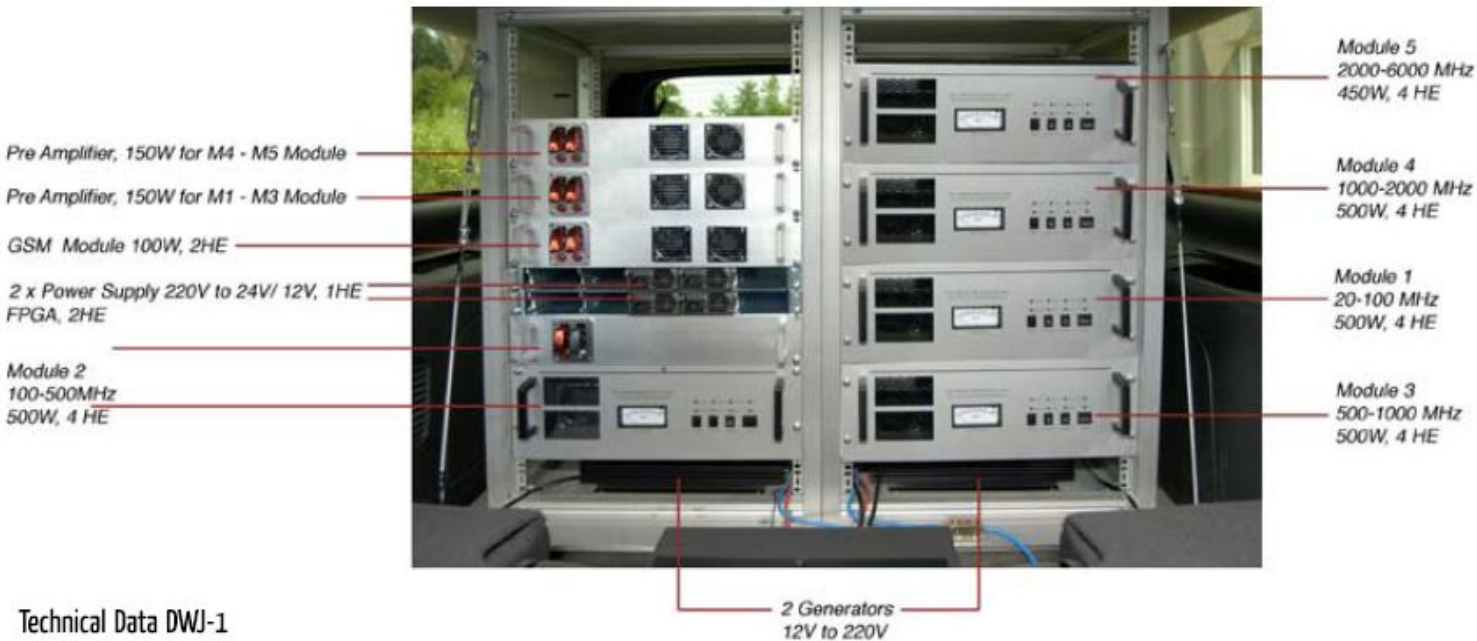
# DWJ-1 - Digital Wideband Jamming

unival® group is introducing the new smart-jamming system DWJ-1. It is the first commercially available high-end digital wideband jamming system operated from the latest FPGA chip-technology. The key advantage is the fact that the jamming system can be individually programmed to threat scenarios in real-time ensuring best possible RCIED-protection at all times. They customizable FPGA software allows to program the system based on an upgradable database.



## Key advantages of DWJ-1

- FPGA controlled, fully synchronized system for multi-jammer-convoy-scenarios
- Modular plug-and-play system - all components can be easily exchanged and/ or upgraded
- Up to 2.450 Watt output power available from 20 MHz to 6.000 MHz (opt. 18.000 MHz)
- Latest generation power amplifiers for continuous operation in high-threat areas
- Patented V5-HighEnd Antenna system with outstanding performance and usability
- Passenger health protection due to EMV shielding of vehicle
- Second alternator or power supply and back-up battery system
- EMERGENCY MODE for high-threat scenarios controlled with FPGA
- Protection against overheating with temperature monitoring of all components
- Full system certification in Germany including technical acceptance
- 100% Made in Germany - all main components and system parts are made in Germany



## Technical Data DWJ-1

Total RF Output Power	2.450 WATT
Antenna Type	V5 Antenna + 2x Antenna in front and rear bumper
Number of Antennas	3 Antennas
Power Supply Source	380A additional alternator/ 13.8 VDC
Total Power Consumption (+28VDC)	5.244W
Battery Back Up Capacity	200 AH
Total System Weight	170 kg
Operating Temperature Range	-10°/60° (with cooling system)
Operating Humidity	90%

# Counter Measures

## Technical Data DWJ-1 / 20 MHz-6 GHz (opt. 18 GHz)

M1	20 - 100 MHz	CB Radio, Car Alarms, Radio-Controlled Toys (Airplanes, boats, cars)	M1 @ 500W
M1	20 - 100 MHz	Radio-Controlled Toys (Airplanes, boats, cars)	M1 @ 500W
M1	20 - 100 MHz	Walky-Talky (LB)	M1 @ 500W
M1	20 - 100 MHz		M2 @ 500W
M2	100 - 500 MHz	Walky-Talky (VHF)	M2 @ 500W
M2	100 - 500 MHz	Walky-Talky (UHF300)	M2 @ 500W
M2	100 - 500 MHz	Walky-Talky (UHF350)	M2 @ 500W
M2	100 - 500 MHz	Cellular NMT, Walky-Talky (UHF400), Car Alarm	M2 @ 500W
M2	100 - 500 MHz	Cellular CDMA450, Walky-Talky (UHF450)	M2 @ 500W
M3	500 - 1.000 MHz	Walky-Talky (UHF700/800), TETRA	M3 @ 500W
M3	500 - 1.000 MHz	Cellular CDMA/TDMA, Walky-Talky (UHF800)	M3 @ 500W
M3	500 - 1.000 MHz	Cellular GSM900	M3 @ 500W
M4	1.000 - 2.000 MHz	GPS & Satellite: Thuraya, Iridium, Odyssey, GlobalStar, Inmarsat	M4 @ 500W
M4	1.000 - 2.000 MHz	Cellular HGSM1800	M4 @ 500W
M4	1.000 - 2.000 MHz	Cellular GSM1900/PCS (+PHS)	M4 @ 500W
M4	1.000 - 2.000 MHz		M4 @ 500W
M5	2.000 - 6.000 MHz	Cellular UMTS/WCDMA (3G) Extended	M5 @ 450W
M5	2.000 - 6.000 MHz	WLAN & Bluetooth & WiFi etc.	M5 @ 450W
TOTAL RF POWER			2.450 Watt

## DWJ-1 - Digital Wideband Jamming

## Strategical Meaning of Jamming Systems

Digital frequency jamming has become an essential part of IED protection, whether for mobile applications such as motorcades but also for all types of stationary applications in governmental buildings.

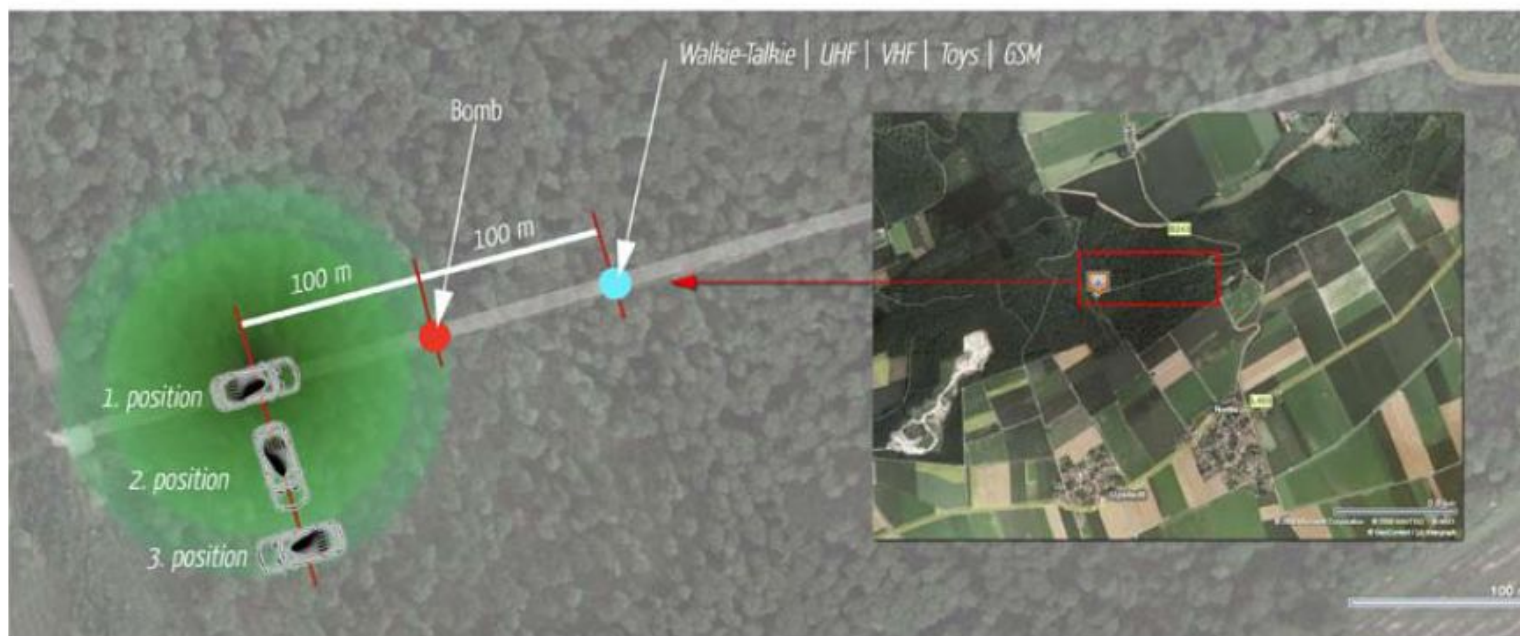
Jamming systems can be used for jamming of RCIEDs to prevent the activation of radio controlled roadside bombs and for prevention of any communication means and transmission of data from mobile devices out of restricted areas such as governmental buildings and also prisons.

While most systems operating in the world's crisis zones are still analog systems, unival® group is taking digital jamming to the next level allowing high-profile clients for the first time to individually programm their digital jamming system based on local intelligence. Each system can be configured for optimum performance in the respective area of usage. In addition our clients have access to our internal ressources in terms of in-house development and programming to ensure the best system performance in real-life scenarios.

We don't operate with best case laboratory figures but work on worst case scenarios to give our clients a realistic protection pattern allowing to set the individual strategy on real-life data. For this reason we always conduct field tests, both in Germany but also at client site during the approval process to achieve a 100% satisfactory rate that makes the difference in the field. Only after a successful acceptance tests, we will start serial production of multiple system.

unival®group also develops and manufacturers stationary and portable man-pack jamming systems based on its unique FPGA control software.





## DWJ-1 – Protection Distances

With up to 2.450 Watt, our DWJ-1 digital wideband jamming system provides enough output power throughout the whole frequency spectrum of 20 MHz up to 6.000 MHz (opt. 18.000 MHz) to really master difficult RCIED scenarios even under worst conditions.

Based on the free-space-loss formula we can calculate and configure our systems to provide a guaranteed protection zone around motorcades in high-threat areas.

Sample of field test that is executed with clients for pre-defined protection distance of 100m around the vehicle with all tested devices.

# Intelligence Counter Measures Physical Protection

With our unique EMERGENCY MODE that is controlled by the FPGA control board, our clients have the possibility to turn the system on a double-output for up to 5 minutes when bypassing difficult areas for a permanent sweep of the full frequency spectrum.

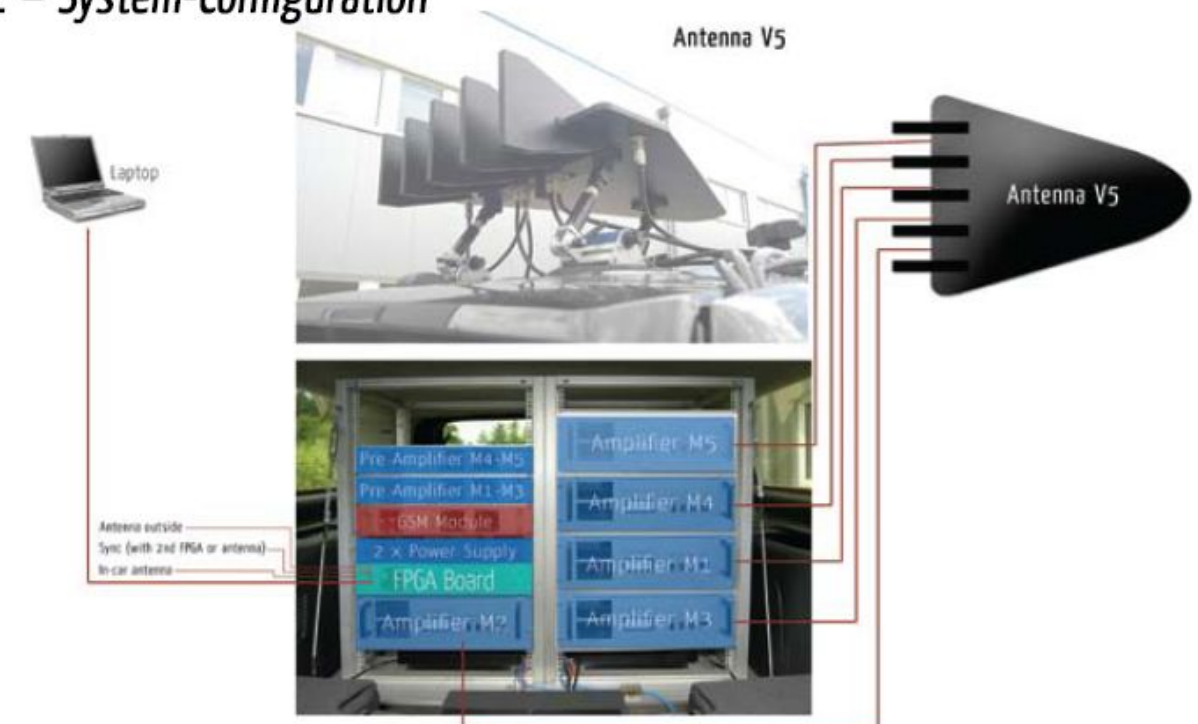
The FPGA will automatically dim the system to standard operation mode in order to prevent overheating.

With the FPGA control board a real-time monitoring of the whole system is effected giving full access to all system components. Our power amplifiers use the latest transistor technology that allows for continuous jamming operation without overheating problems.



## DWJ-1 - Digital Wideband Jamming

### DWJ-1 – System-Configuration





## Wideband Antenna V5

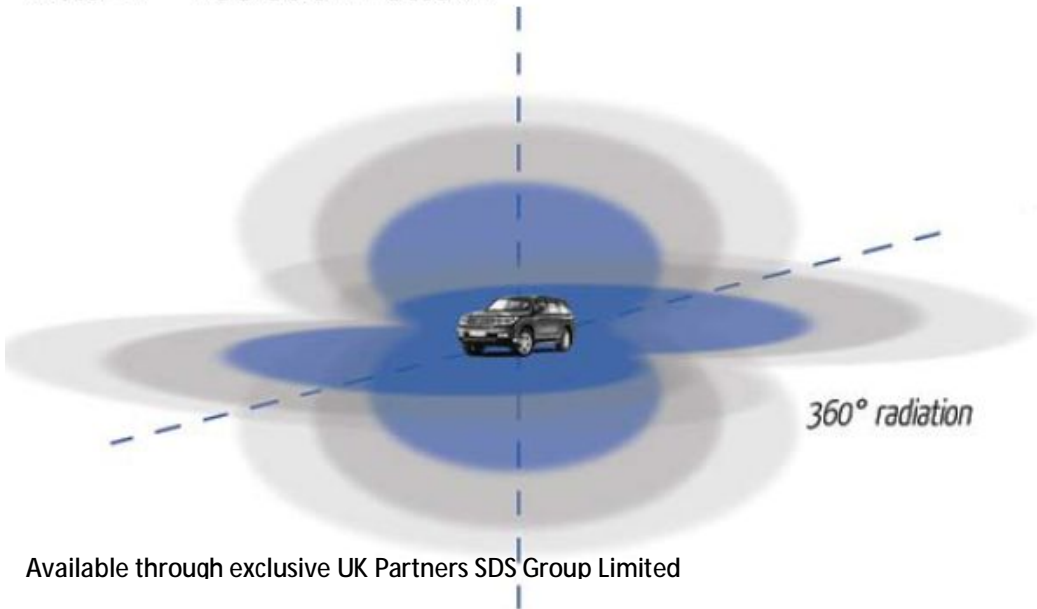
Our patented high-end wideband antenna V5 marks a milestone for jamming antennas in terms of functionality, performance and design. Based on its modular design the V5 can be upgraded, modified or even changed in the field.



The wings that are attached to the main-board can be changed plug-and-play. The antenna has been specially designed for use with our DWJ-1 jamming system and also works for smart jamming by detecting frequencies. Even older jamming systems can be upgraded with our V5, achieving higher performances.

With a development and production in Germany highest quality standards are met. Each V5 passes a comprehensive testing procedure in a certified laboratory to ensure optimum results for long-term usage even in harshest conditions, as its high-tech cover is impossible to mechanical damage. Thanks to its unique design the V5 is specially capable for high-speed jamming in motorcades but also for off-road applications.

## DWJ-1 – Radiation Pattern



Available through exclusive UK Partners SDS Group Limited



### Technical Data V5

Working frequency: 4 MHz - 6 GHz (18GHz possible)  
Impedance: 50 Ohm  
Polarization: Horizontal and vertical (Duo-System HV)  
Gain: up to >1dBi to 2dBi depending on frequency  
VSWR: <1:2,5  
Max Power: 2.450 Watt  
Connector: "N"  
Special-Gold-Plating

## EMV vehicle shielding

EMV protection for jamming vehicles is an essential part of a jamming system to keep the exposure to radiation for the passengers as low as possible.

### Features

- high shielding performance
- protection for passenger and electronic
- protection in the vehicle from 20dB to +40 dB signal damping possible
- best shielding materials
- first-class shielding materials,
- armoured and non-armoured
- certification and proof of performance in radiation dome in the TECENTER in Germany

The use of electric energy means that the energy of electro-magnetic fields is converted into other forms of energy such as radiation energy, mechanical energy or warmth. These electro-magnetic fields can freely spread and can penetrate into electrical equipment causing malfunction.

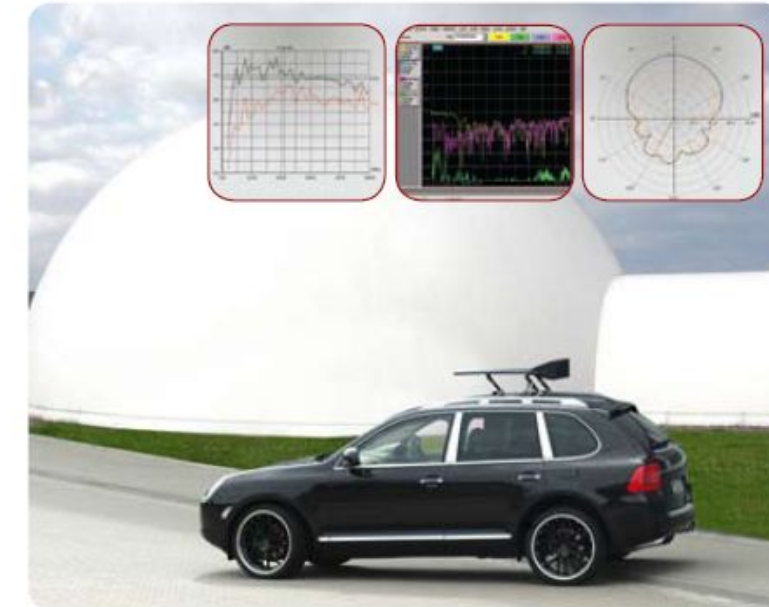
The same applies for humans when exposed with electro-magnetic radiation above the critical values. Serious health effects are the consequence.

A jamming system in operation will create big amounts of harmful HF waves and therefore shielding protection is absolutely necessary, as the Faraday-cage construction of a car can not protect against this type of radiation.

We have developed a special shielding procedure that absorbs the dangerous HF rays.

Each vehicle type will be individually developed to meet the technical requirements without changing the usability.

All vehicles are tested based on a "CE-certificated" testing cycle in the first step and will then undergo extensive measurements in a high-tech radome throughout the complete frequency band width.



# Intelligence Counter Measures

Physical Protection

## DWJ-1 – Digital Wideband Jamming

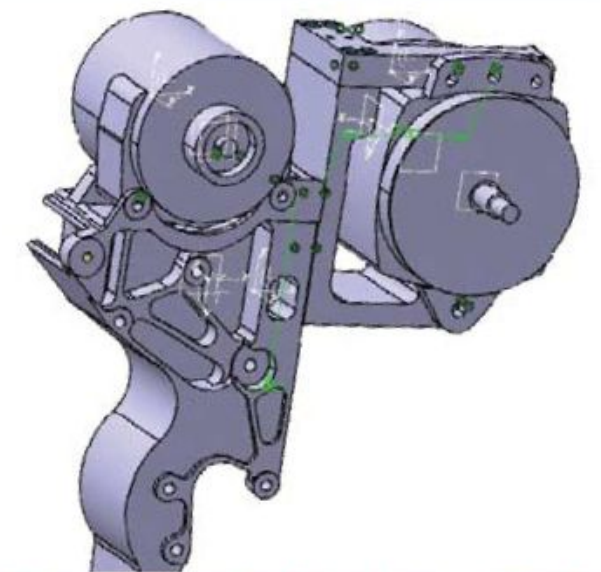
### Multi Alternator Holder

Our adaptive generator holder has been developed especially to provide electronic systems such as digital jamming systems or other external systems with sufficient power supply. With the second generator that operates independently, enough power also in low speed scenarios is provided in order to be able to operate the jamming system permanently. In the same time the manufacturer's original warranty is not affected.

The generator holder is shaped out of an aluminum block with a special automotive design that prevents drilling into the engine block for assembly.

The installation of our multi alternator holder is very simple and can be done in very short time. The system can be dismantled without problems. In case of technical problems the connection can be redirected to the original alternator.

Various strap runs can be chosen based on the specific vehicle.



### Vacuum mounting kit

The easiest way to equip your vehicle with our wideband antenna.

- manual or automatic suction unit
- mounting without any damage

The automatic suction unit is battery powered and ensures permanent vacuum.





Automotive Security

unival®group manufactures high-end quality armoured vehicles. With our production located in the UAE, we are able to cost-effectively produce and deploy vehicles into current crisis areas in the Middle East, Africa and Asia but also to Europe and South America.

Our UAE production facility is specialized on 4x4 vehicles ranging from VIP civilian vehicles to mine protection for project vehicles and military cabs. In addition to our standard serial production we provide refurbishment and upgrades for vehicles that no longer meet security standards.

Our European and South African management teams has sustainable operational experiences from both civilian and military backgrounds. The engineering focus is to provide the best possible security design that enables secure automotive transportation means in conflict areas around the world.

unival®group is part of an international engineering network specialized on ballistic and blast protection security designs that allows us to implement industry standards for our vehicles. We are able to customize solutions for our clients to enable project specific designs.

unival®group as a German company with international operations is specially committed to quality and sustainability. We strive for permanent improvement and aim to offer our clients the best price/ value level available on the market. International maintenance and lifecycle management programs combined with a strong service network with fast spare part supply keep our vehicles in operation in order to protect lives and allow our clients to focus on their business.

STANDARDS

There are several international standards to define the level of protection. It is important for our clients to define the threat level in order to select the necessary level of armouring.

Unfortunately most standards in use today do not clearly show the protection level relevant for IED threats in most high risk zones.

unival® group can armour to levels as defined by clients as well as armouring to various international recognized levels (NIJ, STANAG, CEN)

Due to the proven multi-hit capability and cost - efficiency in defeating a wide range of ballistic threats, welded ballistic steel is the primary material used in construction of the armour.

For level B6/ NIJ III, 6.5 to 7.3mm armour steel is used. Each batch of ballistic steel is supplied with a ballistic test certificate from an independent laboratory verifying its compliance to the required standards. unival®group regularly submits random samples for ballistic testing as an additional quality measure.

In order to ensure high quality and consistence of components together with tight delivery times, unival®group operate an in house profiling unit, utilizing Laser and CNC plasma technology.

Our ballistic glass is procured from the leading producers for ballistic glass in Europe, the Middle East and South America. The original glass is replaced with curved OEM style multi-layer laminated glass-polycarbonate with 39 - 44mm or flat ballistic glass where applicable. This provides for protection with excellent optical clarity, low distortion, no spalling and exceptional multi-hit protection under attack.

All glass supplied is uniquely identified and supplied with a ballistic protection certificate.

Floor protection is provided by either steel armour for effective protection against higher level threats such as IEDs and small mines or ballistic blanket protection for the common standards of protection against simultaneous detonation of two German type DM-51 hand grenades. Ballistic steel significantly improves IED protection.

Ballistic blankets are manufactured in house from multi-layer woven aramid, with each batch of aramid quality checked for conformance against the test certificate supplied.

The suspension system is upgraded and reinforced to ensure secure handling in each driving scenario and good comfort.

Components replaced include springs, shock absorbers, steering damper and reinforced sway bars.

At our automotive development center in Germany, which is also basis for our high-end individual production, we can customize individual vehicle concepts for our clients that will go into serial production in our UAE production facility with highly efficient price structures.

Intelligence Counter Measures Physical Protection



All armoured security vehicles we provide are manufactured in accordance to German safety regulations and in full compliance with European & international standards.

The materials used are certified by independent, government-approved ballistic testing authorities.

Armoured security vehicles and vehicle parts we supply include: Armoured 4x4s, Armoured limousines, Armoured trucks, Armoured CITs, Explosafe and armoured fuel tanks, Run-flat systems

unival® group - Automotive Security

EN Standard - European Standard EN 1063

Armor Type	Projectile Calibre	Cartridge Type	Velocity Range	No. Shots	Shot Spacing	No. Samples	Test Temp
BR1	.22 LR	40 grain Lead Round Nose	1048 to 1214 ft/sec	3	4.3 to 5.1 in Triangle	3	55 - 73F
BR2	9mm Luger	124 grain Full Steel Jacket Round Nose Soft Core	1280 to 1345 ft/sec	3	4.3 to 5.1 in Triangle	3	55 - 73F
BR3	.357 Magnum	158 grain Full Steel Jacket Conned Soft Core	1378 to 1444 ft/sec	3	4.3 to 5.1 in Triangle	3	55 - 73F
BR4	.44 Magnum	240 grain Full Copper Jacket Flat Nose Soft Core	1411 to 1476 ft/sec	3	4.3 to 5.1 in Triangle	3	55 - 73F
BR5	5.56 x 45 NATO (.223 Remington)	62 grain type SS109 (Steel Penetrator)	3084 to 3150 ft/sec	3	4.3 to 5.1 in Triangle	3	55 - 73F
BR6	7.62 x 51 NATO (.308 Winchester)	147 grain Full Steel Jacket (M80)	2690 to 2756 ft/sec	3	4.3 to 5.1 in Triangle	3	55 - 73F
BR7	7.62 x 51 NATO (.308 Winchester)	150 grain Full Copper Jacket Steel Hard Core	2657 to 2723 ft/sec	3	4.3 to 5.1 in Triangle	3	55 - 73F





Toyota Landcruiser 200 Series



Toyota Hilux Double Cab



## unival® group - Automotive Security

unival®group specializes in armoured vehicles ranging from SUVs to trucks and heavy equipment. Full range of vehicles available including:

- SUVs & Pickups  
Toyota Landcruiser · Lexus 570 · Toyota Hilux · Ford F-350 · Mitsubishi Pajero · Chevrolet Tahoe and Suburban · Mercedes-Benz G - Class
- Cash in transit  
IVECO · Ford F-350 · Toyota Hardtop (Low profile CIT)
- Buses - MAN · TATA
- Trucks - MAN · Mercedes-Benz · Scania · IVECO
- Armoured personnel carriers - Ford · MAN · IVECO · Toyota
- Vans
- Armour cell kits
- Custom designs
- Spare parts



Mercedes-Benz G-55 AMG



Chevrolet Suburban / Tahoe



# Physical Protection



Security Escort Vehicle

## unival® group - Automotive Security



All armoured security vehicles we provide are manufactured in accordance to German safety regulations and in full compliance with European standards.

The materials used are certified by independent, government-approved ballistic testing authorities.





Mitsubishi Pajero



## unival® group - Material Supply

Being part of an extensive global structure, we can accommodate you with customized security solutions that comply with highest German and international standards.

We are part of a multidisciplinary security network that produces advanced security products, which allows one-stop-shopping and turn-key handling of all products.

unival® ballistic blast and shock protection blankets are designed to offer protection against fragments and shrapnel from roadside bombs and anti personnel mines and at the same time reduce the impact blow on body parts in contact with the vehicle at the time of the blast. The live tests showed a decrease in acceleration of the simulated body parts from 7715g (9.81m/s<sup>2</sup>) down to 410g, which greatly reduces the force applied, and thereby the risk of losing a leg.



unival® side protection is a low weight armour system designed to provide a high level protection of the sides in soft skinned vehicles. The protection panel is a combination of a flexible ballistic blanket upgraded with a strike surface of ballistic steel.

unival® ballistic blankets are designed to offer protection against fragments and shrapnel from small anti personnel (AP) mines, hand grenades, unexploded ordnance (UXO), and hand guns. The blankets cover as much as possible of the interior of the vehicle leaving only minimal openings for seat brackets, gearshifts etc.



unival® seat protection is a personal protection item covering the back and the underneath of the body from shrapnel from small anti personnel landmines, hand grenades and handguns. Each seat protection comes with a loose foot well blanket that protects feet and lower legs.



Ford E-350 Crew Transporter



Ford F-350 Light Gun Truck

Explosion-proof and self-sealing fuel tanks are manufactured with a flexible polyurethane (either polyester or poly-ether) foam with fully open pores, composed of a skeletal network of tiny lightweight interconnecting strands which act as a three dimensional fire screen.



Runflat Systems

Secure®500 ballistic steel

- Large flat panel stock
- Various sizes & thicknesses available
- Excellent ballistic properties

Hot formed ballistic steel

- Improved security by elimination of weldseams
- Cost reduction by component integration
- Expanded design freedom
- Excellent weldability/ weld distortion eliminated

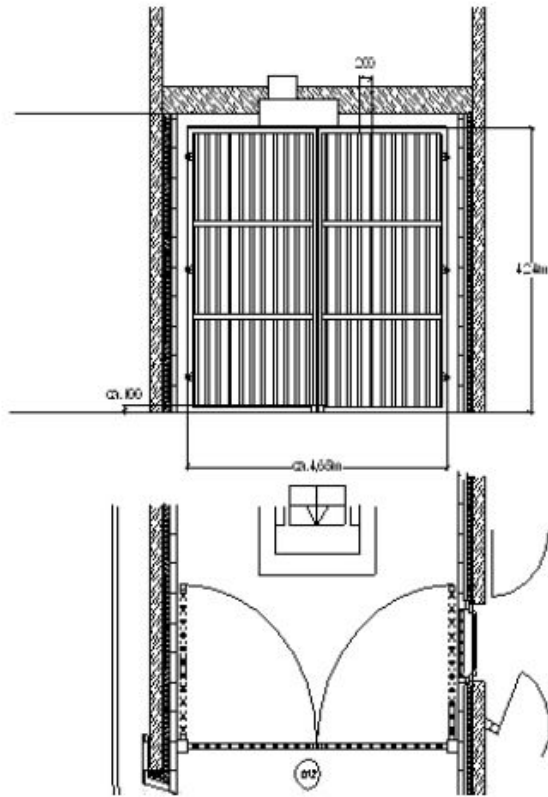
## unival® group - Material Supply





## unival® group - Construction Security

Remote controlled vehicle interlock



unival®group plans and manufactures construction security systems using state-of-the-art technology and highly innovative materials integrating form and function into an individual object-specific solution.

We manufacture individual security doors, security windows, facades, fences, gates etc. for governmental buildings, embassies, courts, banks, airports, police and military buildings, prisons and any public or industrial buildings in the ballistic protection levels FB1 - FB7/ NS and also against blast, fire and forced entry.



# Physical Protection Counter Measures



Heavy sliding door situation with truck-ramming-protection



## VIP Security

We can integrate our security systems into virtually any individual architectural design at highest security standards.

## Safe Rooms

We are specialized in upgrading presidential and VIP suites to highest security standards for hotels and governmental buildings.



unival® group - Construction Security

Ballistic resistant window, door, facade and switching constructions in class FB1 - FB7/NS (non-shattering) in the materials steel and aluminium.

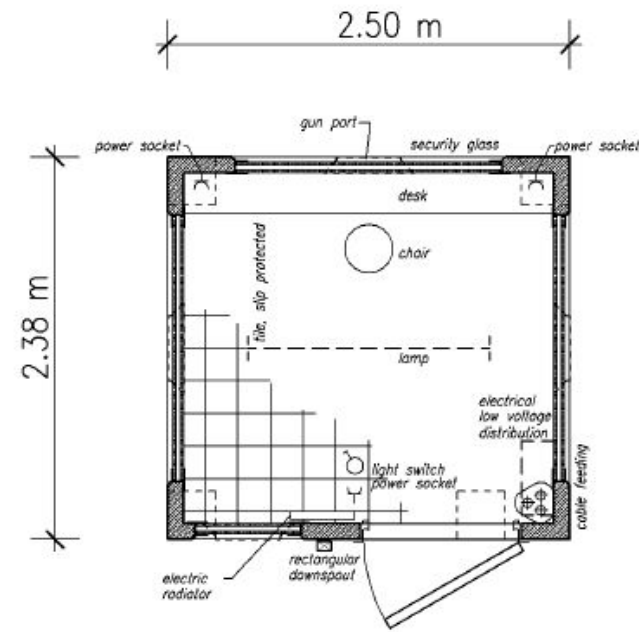
Security windows can also be integrated in historic facades for VIP protection

Security access in German governmental building protected to FB6 standard

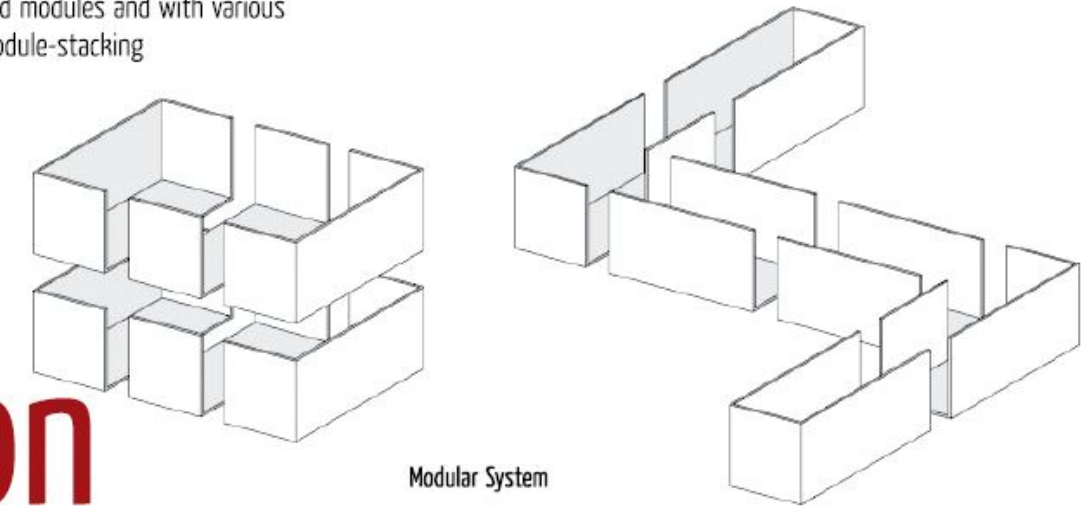
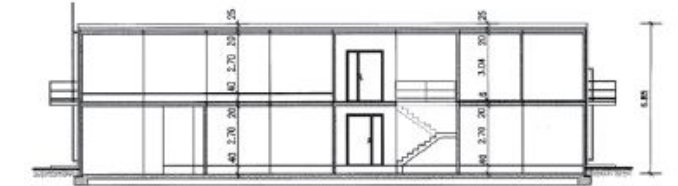




## unival® group - Security Guardhouse

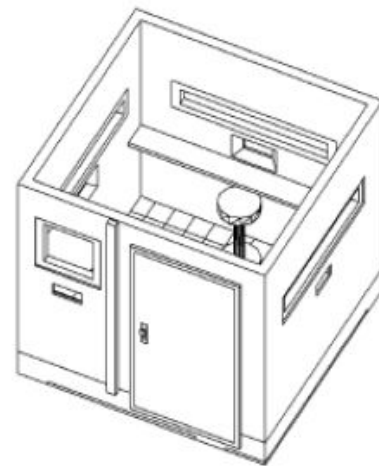


Flexible planning with underground modules and with various configuration options including module-stacking



Our special concrete-armour guardhouse is a special solution for all organizations operating in crisis areas in need of protection against military rifles and blast up to STANAG levels.

The completed guardhouse will be delivered to the customer site turn-key and can be integrated within shortest time avoiding sub-standard local construction works. It is usable in any environment (hot and cold climates), is extremely durable and can be moved to multiple locations with changing missions. The final design and size of the guardhouse can be customized to client specifications. Various interior designs can be accomplished directly during production ensuring turn-key usage.



unival®group will assist the clients with flexible interior configurations according to clients specification for multiple use as:

- Guardhouse
- Command & Control room
- Server-room
- IT & Security storage
- Temporary camps



## unival® group - Security Guardhouse



Container delivery to customer for immediate installation, even in critical construction environment in any climate zone.

