



POLICE,
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AIRPORTS



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PROTECTION
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EVENTS
& VENUES



CRITICAL
INFRA-
STRUCTURE
PROTECTION



MADE IN
GERMANY



The unival MBX | **MOBILE X-RAY BACKSCATTER INSPECTION SCANNER** combines unique and patented technologies for superior detection performance against narcotics, explosives, cash and other contraband.

The unival MBX uses the latest X-Ray backscatter technology which can image cars, trucks and people. The X-Ray backscatter technology is highly sensitive to organic materials such as drugs, explosives, cash, stowaways (humans), and other types of threats and contraband. Since the unival MBX does not have a tunnel to restrict scanned objects, it can scan any sized object including passenger vehicles, trucks, Pallets, ULD containers, and even airplanes.

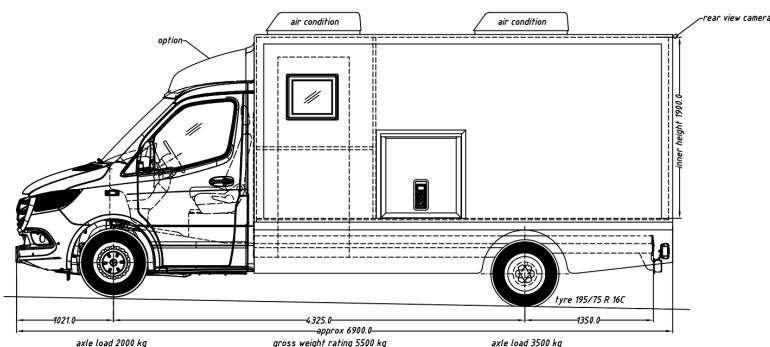
With its unique NanoDose technology, unival MBX delivers top performance while maintaining the lowest X-Ray dose of any cargo or vehicle inspection scanner. The optimized detectors are highly sensitive to low X-Ray levels. The unival MBX is designed to operate in extreme humid, hot or cold conditions and its open software architecture enables effective integration and communications with other systems. The unival MBX can be mounted on a wide range of truck chassis and trailers.

OPTIONAL FEATURE

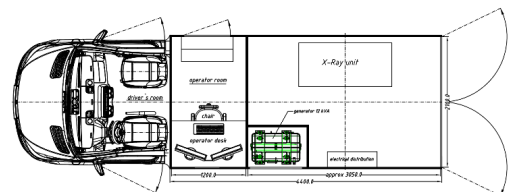
PARAMETER	DESCRIPTION AND PERFORMANCE
SHORE POWER	The shore-power option allows unival MBX to be operated using shore power while the onboard power generator is powered off. The unival MBX operates on a 10 kVA shore power line with 220-240 V AC.
RADAR SPEED MONITORING AND CORRECTION	With conventional mobile backscatter scanners operating in stationary mode, images of inspected vehicles can get severely distorted due to varying vehicle speed. In contrast, unival MBX is equipped with an optional radar to provide live measurements of the scanned vehicle speed for the imaging software to correct for image distortions. An optional digital speed display is also available to give drivers live feedback on their speeds while being scanned.

TECHNICAL SPECIFICATIONS

KPI	unival MBX	Other Backscatter Vans
X-RAY ENERGY	No less than 300 kV The higher energy is key for backscatter imaging performance and material penetration.	225 kV
DOSE TO SCANNED OCCUPANTS OF SCANNED VEHICLES	0.04 µS/scan NanoDose technology results in lower dose to people, even while using higher energy.	0.07 µS/scan
STEEL EQUIVALENT PENETRATION	13 mm guaranteed, 14mm typical High steel penetration due to higher energy.	7 mm
WIRE RESOLUTION	1,5 mm guaranteed, 1,0mm typical Higher resolution due to enhanced beam optics.	7 mm
FIELD OF VIEW	Scan 3,1 m object at <u>1.1</u> m from scanner with no tire cut-off. The unival MBX has a wider field of view compared to conventional scanners. Note: Reducing scan distance from 1.5 to 1.1 m more than doubles the X-Ray detection efficiency.	Scan 3 m object at <u>1.5</u> m from scanner
ROBUSTNESS TO HARSH WEATHER.	Dual A/C units, Mobile Grade The unival MBX is equipped with 2 independent, mobile grade A/C units. The A/C units are designed to handle vibration. Also, if one unit fails, the second unit can continue to function.	Single A/C unit, non-mobile grade.
STATIONARY MODE DISTORTION CORRECTION	Active Speed Distortion Correction (Optional) In stationary mode, unival MBX is equipped with a speed measurement sensor which can correct for the distortions caused by varying speeds of passing vehicles.	No distortion correction
AI FEATURES	Threat Image Projection (TIP, Optional) TIP feature to test operator alertness detecting threats	None
CONNECTIVITY AND INTEGRATION	Open Software Architecture Open software architecture for easy integration with third-party systems and networks. Native support for DICOS and UFF file formats.	None



Option with 2 operators and separate operator room



Option with 1 Operator and equipment room

