SCAN-LINK

armour

The Evolution of Safety!

DISPLAY UNIT

ANTENNA

RFID TAGGED HARD HAT

RFID TAGGED SAFETY VEST

THE RFID SAFETY SOLUTION THAT DETECTS PEOPLE RATHER THAN OBJECTS WITH DATA ANALYTICS

The Armour System™ utilizes RFID (radio frequency identification) to alert the driver of the reversing vehicle* that a ground worker is behind them and extra caution is required.

Ground workers wearing an Armour equipped Safety Vest and Hard Hat will be detected via the RFID tags discretely installed in the apparel. What makes the Armour System™ unique is that any vehicle equipped with an Armour Antenna will detect any ground worker, on any job site, wearing an Armour equipped Safety Vest and Hard Hat.

COMPANY OWNERS

Invest in one system that will protect not only your ground workers, but also contractors and visitors to your work site. All they need is an Armour equipped Safety Vest and Hard Hat to ensure that your equipment operators will know they are behind them while in reverse.

GROUND WORKERS

By wearing the Armour equipped Safety Vest and Hard Hat you allow yourself to be detected by the Armour Antenna. This will alert the operator that you are behind them, even if you are in one of the equipment's blind spots.
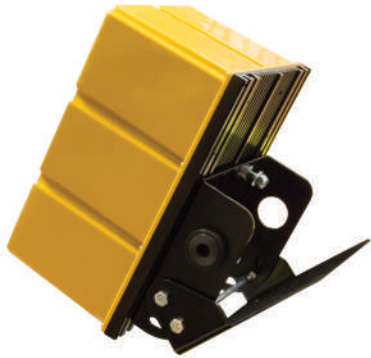
VEHICLE OPERATORS

The Armour System eliminates the false positives common with other obstacle detection systems. This means the system will notify you only if an Armour equipped Safety Vest and Hard Hat is behind your vehicle, avoiding false alarms. When the Armour Display alerts you - you can be sure that there is a ground worker behind your vehicle.

*Vehicle must be equipped with the Armour System antenna.

ANTENNA

Housed in a rugged and sealed weatherproof enclosure, the beam-shaping antenna monitors the area behind the vehicle. The antenna system is designed to detect authentic "next-generation" SCAN~LINK Construction Safety Apparel, and uses a reliable wireless link to relay its information to a display unit located near the equipment operator. An external alarm will sound upon detection alerting the ground workers they are in a danger zone.

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE:	12VDC – 28VDC nominal	RFID FREQUENCY:	902.3MHz – 927.7MHz
POWER CONSUMPTION:	7.5-36W	WIRELESS LINK:	2.4GHz
POWER SOURCE:	Ignition and reverse signal	TYPICAL RANGE:	6 - 8 meters
TEMPERATURE RANGE:	–20°C to +80°C	RoHS COMPLIANT:	Yes

DISPLAY UNIT

The hardy and compact display unit uses both a bright visual display (LEDs) and an audible alarm (adjustable volume) to alert the equipment operator when Armour safety apparel is detected. The audible alarm uses a different audio tone for detection of a personnel tag than it does for a rigid asset tag, allowing the operator to differentiate between a person and an asset. The display unit is linked wirelessly to the antenna and regular self-diagnostic checks ensure the system is functioning normally.

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE:	12VDC – 28VDC nominal	WIRELESS LINK:	2.4GHz
POWER CONSUMPTION:	1W	VOLUME CONTROL:	Pushbutton select
POWER SOURCE:	Ignition and reverse signal	RoHS COMPLIANT:	Yes
TEMPERATURE RANGE:	–20°C to +85°C		

RFID TAGGED VEST AND HARD HAT

Yellow Mesh

Orange Mesh
Fire Retardant

Orange Surveyor

Each Armour Safety Vest features a five-way tear-away Velcro™ design with 14 strategically positioned RFID tags for reliable detection. These highly visible vests are a bright fluorescent yellow-green color and highlighted with 3M Scotchlight™ reflective markings. Made from a durable 100% polyester material the vests are comfortable, lightweight, and meet both CSA Z96-02 Class 2 Level 2 and ANSI/ISEA 107-2004a standards.

Combining the vest with the Armour Hard Hat Kit provides another 10 RFID tags to further enhance detection of the wearer.

3M

Note: Hard Hat not included

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