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AEROSPACE

RANGE-R® 2D LINK

Handheld, portable through-wall radar

The Range-R® 2D Link extends user control and viewing remotely, allowing the user to operate the sensor from a secure or covert location. Using the provided tripod / monopod and rugged tablet, the sensor can be placed at the structure of interest, and the operator has full control of all features and displays as if they were holding the unit.
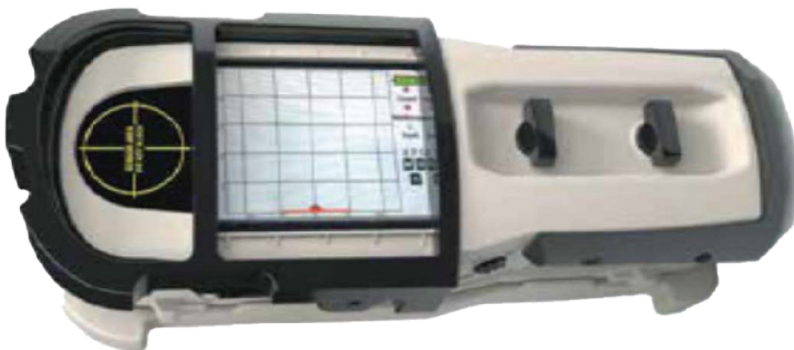
As with the Range-R 2D, in real time, the Range-R 2D Link locates moving and stationary persons. Its highly sensitive Doppler radar enables it to detect even slight movement of a person breathing, and Range-R 2D's patented backward-looking capability assures it performs with very low false alarm responses. The simple user interface, proprietary detection algorithms, and rear-looking radar receiver offer best-in-class performance.

Hostage situations, stand-offs, natural disasters and burning buildings are just a few scenarios where Range-R 2D's through-wall technology can be utilized to locate persons hidden from view—without putting the lives of emergency responders in unnecessary danger. It enables police, SWAT, emergency medical teams, firefighters and other special operations teams to efficiently and effectively allocate their time and resources when split-second decisions must be made.

The system is designed to be operational from a breach or standoff location. Range-R 2D has a simple-to-use interface and a rotational, easy-to-read LCD display. Its compact design and light weight make it easy for users to integrate with their existing gear load.

Range-R 2D Link adds an integrated, secure Wi-Fi capability and enhances user safety by enabling remote operation and monitoring for up to 100 meters from the sensor.

APPLICATIONS

> Hostage recovery

> Tactical entry

> Search & Rescue

> Breaching operations

> Stowaway detection

Rotational LCD screen

Patented rearward-looking radar reduces false alarms

SPECIFICATIONS

Unique Features

Dimensions	11" x 4" x 4"	27.9 cm x 10.2 cm x 10.2 cm
Weight	3.3 lb, no batteries	1.5 kg, no batteries
Detection Range	65+ feet	20+ meters
Resolution	15.75"	40 cm
Field of View	180 / 90 degrees Azimuth	180 degrees in elevation
Waveform Type	Stepped-frequency continuous wave (SFCW)	
Bandwidth (BW)	3.1 – 3.5 GHz, 200 discrete frequency steps	
Output Power	32 mW	(+15 dBM)
Power Requirements	8 standard AA batteries (Primary or rechargeable) +12 VDC external power	

Environmental

Operating Temperature	-4°F to +122°F	-20°C to +50°C
Operating Time with Batteries (30 second scan, 3 minutes off cycle)	> 11 hours (Lithium L91) > 8 hours (NiMH) > 3 hours (alkaline)	

System Components

> Range-R 2D Link

> Rugged tablet with Range-R 2D Link app

> Tripod

> Two packs of NiMH rechargeable batteries

> Battery charger

> External AC-DC 12V power supply for sensor / charger

> Training CD

> Environmentally hardened carry case

Operational Standards

This device has received certification under the authority of the Federal Communications Commission (FCC).

Identifier:	YKD-25STW4100-019
Equipment Class:	Licensed non-broadcast station transmitter

(Contains FCC Identifier YKD-25STW4100-029)

RANGE-R 2D LINK SYSTEM
Front Profile

102 mm (4.0")
279 mm (11.0")

RANGE-R 2D LINK SYSTEM
Side Profile

102 mm (4.0")

Range-R® 2D Link

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