

RTR-4™

Portable Digital X-Ray Imaging System

With RF Wireless Option



The Faster, Safer Solution for Inspecting Suspicious Objects

SAIC introduces the RTR-4™ RF wireless option, an invaluable enhancement to the operating convenience of the popular RTR-4™ Portable Digital X-Ray System. This option replaces the cabling which connects the Control Unit, X-Ray Imager and X-Ray Source. Important benefits of this option include:

- **SAFETY:** Assisting law enforcement and security professionals' efforts to quickly detect, identify, and evaluate the contents of suspicious packages and transport devices, the RTR-4™ wireless option provides a wireless connection from the Control Unit to the X-ray Imager. The operator, as well as other personnel and property, remain up to a safe 200-meter (656-foot) line of site distance from the potentially dangerous item being evaluated.
- **EASE OF SET-UP:** All cabling between components is eliminated; thus, overall system set-up is easier and set-up time is decreased. The wireless components reduce the overall carrying weight up to 9 kilograms (20 pounds).
- **FREEDOM OF MOVEMENT:** Unrestricted by cable connections, bomb technicians utilizing the RF wireless have unlimited freedom of movement.
- **COMPATIBILITY:** The wireless option is compatible with all existing and new RTR-4™ and ARS units, although not with the older RTR-3.
- **ROBOT-MOUNTABLE:** The RTR-4™ with the wireless option allows mounting capability on customer's existing robotic platforms for independent operation.

SPECIAL FEATURES

- Transparent replacement of existing cable connections.
- The wireless option is compatible with all RTR-4™ and ARS Digital X-ray Imaging Systems.
- No special adapters or cables are required.
- Rugged aluminum extrusion housing on wireless Imager and Controller Transceiver units.
- High Impact ABS plastic housing on wireless X-ray unit and Image Transceiver.



Controller Transceiver, Imager Transceiver and X-Ray Receiver

RTR-4™ WIRELESS OPTION SPECIFICATIONS

DATA TRANSFER

- Type: 2.4 GHz wireless link from Controller to Imager
418 MHz 64-bit encoded control message from Imager to X-ray Source
- Digital encoding provides added security against interference

RANGE

- Controller to Imager: 100 meters (328 feet) in typical office environment
Tested and proven to operate through 1 meter (3.28 feet) of reinforced concrete
200 meters (656 feet) line of site*
- Imager to X-Ray: 6 meters (19.68 feet) in typical office environment

SUPPLIED COMPONENTS

- Imager Transceiver
- Controller Transceiver
- X-Ray Receiver with 9V alkaline battery
- One SMP 10.8V NiMH Battery, 3.8 Amp hr.
- Carrying Case

VISUAL INDICATORS

- Imager Transceiver: Operation Mode, Transmit, Receive, Power On
- Control Transceiver: Operation Mode, Transmit, Receive, Power On
- X-Ray Receiver: Low Battery, Power On

BATTERIES

X-Ray Receiver:

- Type: 9-volt alkaline
Battery Life: Up to 20 hours

Imager Transceiver:

- Type: 10.8V NiMH or equivalent (same battery used in RTR-4™ Control Unit)
- Battery Life: Approximately 3 hours
- Battery Charging: Use BC-108 accessory charger, an option to the RTR-4™

REGULATORY STANDARD

Complies with FCC Part 15(c)

*Specific results may vary, since operating conditions widely fluctuate. Radio Frequency (RF) devices are subject to interference and momentary interruptions in communication. Higher elevation of Controller Unit will improve performance. Nearby walls may act as reflectors and cause multipath interference at certain distances.

Note: Due to our efforts to continually improve this product, specifications, dimensions, and operating procedures are subject to change without notice. All specifications and measurements are approximate, based on the standard configuration; results may vary with the application and environment.



Safety and Security Instruments

*A Division of Science Applications
International Corporation*

*Our facility has been registered by Underwriters
Laboratories Inc. to the International Organization for
Standardization ISO 9000 Series Standards for Quality.
Registered by UL to
ISO 9002, File #A6113.*

16701 West Bernardo Drive, San Diego, CA 92127 USA

For information, please contact:

(800) 962-1632 or (858) 826-9831 Fax: (858) 826-9224

www.ssio.saic.com

Copyright © 1999 by Science Applications International Corporation (SAIC). All rights reserved. All material contained herein is considered proprietary information and should not be reproduced without written permission of SAIC.

Document TPN #09-0076, Rev. 4, 3/2000