

## SAIC's popular RTR-4 family of portable digital X-ray products can be configured with a number of options to meet many specific requirements.



RTR-4N shown in self-contained carrying case — everything required for set-up and operation in one case

### + Upgrade Kits

In an effort to keep RTR-4 technology current and to meet our customers' new technical requirements, system configurations in the RTR-4 family change periodically. In order to preserve your investment in previous RTR-4 systems and to ensure backward system-compatibility, we offer several options for upgrading previously available RTR-4 configurations. Please contact us to discuss optimization of your system, including options to consolidate components, incorporate new computers, and add new capabilities and features.

### Wireless Options

#### + RTR-4iW, Wireless Option for Integrated Imager

- Single transceiver module attaches securely to recessed area of the imager without use of cables, for control of the x-ray source and transmission of digital images
- CE Marked and FCC Qualified
- Range: Up to 220 meters
- Penetration: Up to 30 cm of concrete
- Power requirements: Powered by Imager's internal battery, approximately 4 hours.
- SAIC-Exclusive X-ray Receiver built into X-ray Source (no add-on box)
- Weight: 1.8 kg (2.9 lbs.)
- Transmission: Controller to Imager; 2.4 GHz digital with encryption. Imager to X-ray; 418 MHz digital with security code.
- Fits into RTR-4 Transport Case
- Supplied with 3 m (10') cable to locate Wireless unit away from Imager if desired.
- Optional long-range antenna can increase range to several kilometers
- Warranty: 1 year



#### + RTR-4 Wireless 2001: Option for legacy imagers

- Single transceiver box for control of X-ray source and retrieval of digital images.
- CE Marked and FCC Qualified
- Range: Up to 220 meters
- Penetration: Up to 30 cm of concrete
- Power requirements: 10.8V NiMH, typically over 4 hours.
- X-ray receiver box and cable, compatible with Golden Engineering XR-series of X-ray Sources
- Weight: 3 kg (5 lbs.)



- Frequencies: Controller to Imager = 2.4 GHz digital with encryption. Imager to X-ray = 418 or 433 MHz digital with security code
- Includes custom carrying case
- Supplied with 3 m (10') cables to locate wireless unit away from imager if desired.
- Optional long range antenna can increase range to several kilometers
- Warranty: 1 year

#### + Toughbook computer

- RTR-4 is the RTR-4N system with a Toughbook option
- Designed using MIL-STD 810F test
- Moisture and dust-resistant LCD and keyboard with sealed port and connector covers
- Vibration and drop-shock resistant design
- 13.3" transfective display, separate FDD
- Dimensions: 6 x 24 x 30 cm (2.3"H x 9.5"D x 11.8"W) Weight: 4 kg (9 lbs.)
- 3-yr pass-through warranty



#### + RTR-4Pack System

- The RTR-4Pack holds the critical components of the RTR-4 with Wireless Option in a rugged backpack, cabled and ready to use.



#### + Imager

- IM-1317, Large Imager: 33 x 43 cm (13" x 17") field of view with or without transport case  
Dimensions: 51 x 54 x 33cm (20"W x 21.25"H x 13"D)  
Weight: 18 kg (40 lbs.)  
640 x 480 pixels



#### + Source Kits

- All kits include Imager interface cable
- Golden Engineering XR-200 (standard 150kVp)
- Golden Engineering XRS-3 (300 kVp)
- Golden Engineering XR-150 (smaller, lightweight 150 kVp)

#### + Cables

- Controller to Imager: Up to two additional 50 meter cables may be added to each RTR-4 system for a total length of 150 m (492')
- Imager to X-ray Source: Compatible with all Golden Engineering X-ray Sources Available in 3 m (10'), 6 m (20') and 30 m (100')

### + Miscellaneous Options

- External key-controlled X-ray interlock switch
- RTR-4 Training Package, consisting of workbook, video, and quick reference cards
- Long Range Antennae for wireless options
- Extension cable reels
- Additional Operators' Manual for RTR-4 systems
- Spare X-ray tube for Golden Engineering's XR-200 X-ray Source
- Tripod for mounting Imager or X-ray Source
- Robot Mounting Kit
- Country-specific power cabling
- Automotive AC adapter

### + Languages

- Several languages are available including French, German, Italian, Japanese, Korean, Spanish, and Vietnamese. Almost any other language can be quickly added, with no software changes.

\*Specific results may vary because operating conditions widely fluctuate. Performance of Radio Frequency (RF) devices is subject to shielding, interference and momentary interruptions in communication. Higher elevation of antennae 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. 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 9001, File #A6113.*

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