CRYPTEK™

TS-21 BLACKJACK

RUGGED SECURE FAX DESIGNED FOR HARSH MILITARY ENVIRONMENTS

The TS-21 BLACKJACK is a lightweight, self-contained, rack-mountable facsimile machine which easily adapts to airborne, shipboard and vehicle applications.

KEY FEATURES

- This rugged facsimile machine provides the ultimate protection for the transmission of classified information in hostile environments. In harsh theaters involving extreme temperatures, dust, vibration, jamming and noise, the BLACKJACK provides for the transmission of photographs, high-resolution images and correspondence at up to 64 Kbps.

- The BLACKJACK includes extensive protocol support, commercial Group 3 interoperability, asynchronous interfaces, and compatibility for a wide variety of communications equipment.

- Auto-ranging internal power supply

- Designed to be rugged and modular with interchangeable components, the BLACKJACK is customer repairable in as little as three minutes

- Meets or exceeds these standards:
    - Interoperability
        - DoD MIL-STD-188-161-C Type I and Type II
        - NATO - STANAG-5000, Type I and Type II
    - Commercial - ITU Group 3
    - Environmental - DoD MIL-STD-810-E

TECHNICAL SPECIFICATIONS

Operation
- Black/White, half-tone, 4, 8,16 true shades of gray
- Synchronous Mode/Asynchronous Mode
- Commercial Group 3
- US and NATO Protocol Standards
- Non-standard Protocols
- PC and data network compatible via the image server serial port*

Original Document Size
- Width: Up to 8.5 inches (216 mm)
- Length: More than 40 inches (1.0 m)

Effective Scanning Width
- Up to 8.3 inches (211 mm) for 8.5 inches (216 mm) original

Recording Technology
- Linear thermal array: 1728 elements using thermal paper. No toner required. Automatic or Manual paper cutter.

Recording Paper Size
- 8.5 inches (216 mm) x 165 feet (50 m) roll

Transmission Rates
- Up to 64 Kbps synchronous, with automatic adjust to data rate, 2.4 to 38.4 Kbps asynchronous

Compression
- Modified Huffman Algorithm: encoding, decoding

Weight
- 41 lbs. (18.6 kg), 34.5 lbs. (15.6 kg) without cover

Operating Environment
- Tested and certified for appropriate sections of DoD MIL-STD-810E and MIL-STD-461D

* designates optional feature

Resolution
- Low: 102h x 98v pels/inch (4.0 x 3.85 pels/mm)
- Medium: 204h x 98v pels/inch (8.0 x 3.85 pels/mm)
- High: 204h x 196v pels/inch (8.0 x 7.7 pels/mm)

Scanning Technology
- LED Contact Scan Array: 1728 elements (Contact Image Sensor Technology)

Transmission Modes
- Compressed, compressed with forward error correction, uncompressed (for high noise environments)

Standards
- JITC Certified
- Digital synchronous port RS-232C, RS-449, MIL-STD-188-114
- COMSEC: STU-II STE, STU-III (all vendors, full- and half-duplex), KG-84, KG-84A, KG-84C, KY-57 (16, 12 and 8 KBPS versions), KY-58 (with airborne radio equipment), MSE, DNVT, DSVT (KY-68), ANDVT, SINCGARS, SUNBURST, MISTE II, BID-series
- MIL-STD-188-161 (C) Type I (B&W) and Type II (gray scale) and NATO STANAG 5000 Type I (B&W) and Type II (gray scale)
- Compatible equipment includes AN/UXC-7 (Magnavox) and AN/UXC-4 (Litton)
- Optional asynchronous compatibility with IBM PC or compatibles using Image Server image storage and retrieval software
- Non-standard modified Group 3 digital protocols
- ITU Group 3 commercial

Outer Dimensions
- 19.4 inches (49.2cm) wide x 16.6 inches (42cm) deep x 7.0 inches (18cm) high

Power
- Auto-ranging 110/240 VAC 46/64 Hz 28 VDC; 240W Maximum