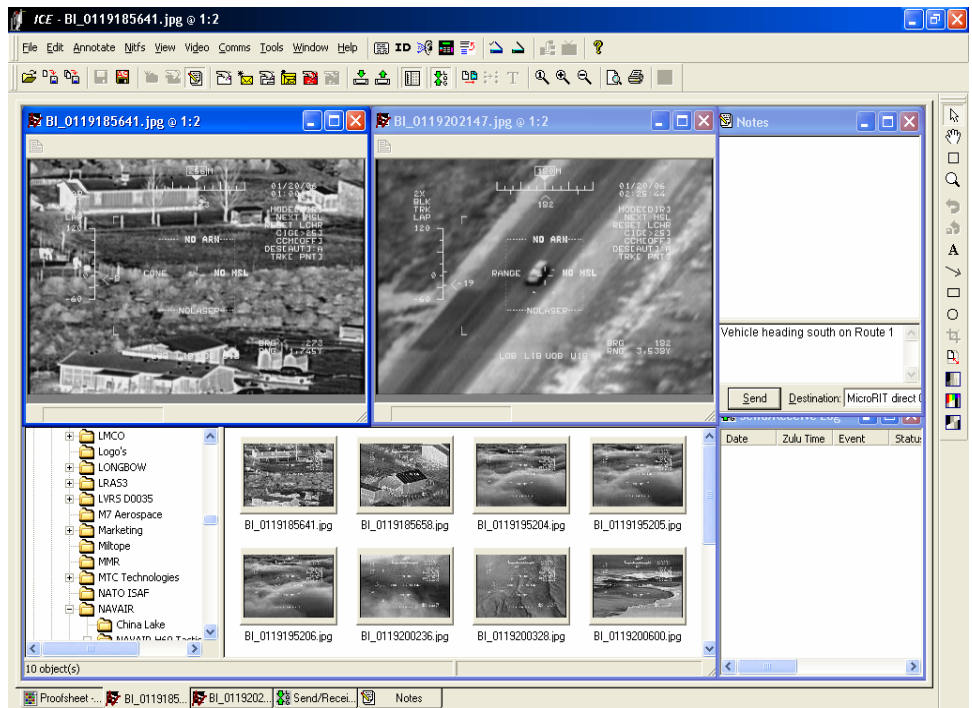


# ICE™ 4.4.1

ICE™ 4.4.1 is an integrated application that provides the capability to capture, display, compress, send, and receive digital imagery on Windows® (2000/XP) computers. Additionally, ICE™ allows the user to manage (store and recall), manipulate, annotate, and print these images.



ICE™ 4.4.1 is *the premier solution* for reliably moving your time-critical data files over radio (secure and non-secure), satellite, and telephone links. ICE™ 4.4.1 contains all the functionality of previous ICE™ releases plus the capability to transfer files using the PTAC™ protocol over data capable radio sets in Plain Text (PT) mode, or without using external cryptographic devices. ICE™ 4.4.1 also provides compatibility with the Raytheon TacLink® 3000 Tactical Modem card, in addition to the PhotoTelesis® communications cards (SCC-100/A, CIS-PCI) and ViaSat® PDC/CDC cards supported by ICE™ 4.1. File transfer capability is provided in ICE™ through PTAC™ (PhotoTelesis Tactical), MIL-STD 188-184, TACO2, and Zmodem protocols. The PTAC™ and 188-184 protocols provide a robust means of transferring files over COMSEC devices like the KY-57, KY-58, KY-99, KY-99A, KG-84, KIV-7 and the STU-III. PTAC™ also interfaces with SINCGARS, PSC-5, PRC-117F, MBITR, SABER and other COMSEC embedded radios. The TACO2 protocol supports full interoperability with the NITF standard. Zmodem allows ICE™ 4.4.1 to use commercial modems via standard phone and cellular services. Online chat is supported in all protocols. MAPI (Messaging Application Programming Interface) is also supported, allowing ICE™ 4.4 to send mail attachments from within ICE™ 4.4.1 over any existing mail network – including TCP/IP and Cellular Digital Packet Data (CDPD) connections.

ICE™ 4.4.1 also includes a proof sheet, automatic file conversion, ViaSat® PDC & CDC support, direct image annotation, advanced CRYPTO timing control, Zmodem, customized toolbars, burst capture, and NITFS 2.1 support. In addition, ICE™ 4.4.1 allows simultaneous communications sessions over multiple ports allowing the user to operate in several communication nets from one computer.

# Specifications\*

- National Imagery Transmission Standard (NITFS Utility) NITFS 2.1 Compliance Level 3 supports:  
NITF 2.1 - 1.1 Imagery; 2K X 2K Color Images; JPEG, ARIDPCM and Bi-level compression; File Hierarchy Display Tree; CGM Tools; Scrollable Text Pane; Cut/Copy/Paste; Import/Export; Show/Hide components; TACO2
- Supports TWAIN Standard Kodak Digital Cameras: DC-120, DC-210, DC-260, DCS-420, and DCS-620. Flat-bed Digital Scanners and Digital Slide Scanners
- Frame Grabber Support Advanced Video Subsystem; Video for Windows or WDM compliant COTS boards and IEEE 1394 Firewire support.
- Image Processing Zoom In/Out, Crop, Flip, Rotate, Grayscale convert, Brightness and Contrast adjustments, Negate, Smooth, Direct Image Annotation
- Image File Formats NITF 1.1, NITFS 2.0 Level 3, NITFS 2.1 Level 3, BMP, JPEG, TIFF, PhotoTelesis Wavelet, YUV
- Auto Conversion Automatically converts between file formats upon receipt
- Printer Support Supports all Windows® compatible printers
- Communications Interface Inbox, Outbox, Callsign Directory, Address Book, and Comm Logs
- Communications Protocols PhotoTelesis PTAC synchronous and asynchronous, TACO2, MIL-STD 188-184 (ViaSat™), and Zmodem
- Supported Platforms MIT-410/MIT-305 Mobile ICE Terminal; Handheld Computer Terminal (HCT); IBM or compatible running Windows® 2000 or XP with 24-bit color SVGA
- On-line Help Context-sensitive Help with search capabilities

## System Requirements

- Processor 233MHz processor or faster with at least 64MB RAM;  
1.2GHz processor or faster with at least 1GB RAM recommended
- Video SVGA (24-bit recommended) color display adapter and compatible monitor; Video for Windows® Capture Card
- Hard Disk 15 MB disk space
- Operating System Microsoft® Windows® 2000 or XP
- Comms Hardware TacLink® 3000, DP-EIS, EIS-3, SCC-100, ViaSat PDC/CDC, Standard and Cellular modem, or CDPD



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