

PRISM™ IDM II & VME PRISM™ IDM



PRISM™ IDM II



VME PRISM™ IDM

The PRISM IDM II (Photo Reconnaissance Intelligence Strike Module Improved Data Modem) and the VPIDM (VME PRISM IDM) integrates image capture, compression, transmission, reception and display in the cockpit with Symetrics Industries Incorporated Improved Data Modem. The PRISM IDM II is a SEM-E form factor that's embedded in the IDM 302 or IDM 501 box. The VPIDM is a VME form factor that can be embedded in any VME chassis and provides both an IDM and a PRISM capability. PRISM and IDM share the same existing secure communications link which simplifies installation as well as reduces cost to install.

The design for the PRISM board is the same as developed for the Navy's F/A-18 [FTI II](#) program which is based on the Army's [LVRS MMR](#) hand held technology. The FTI II is qualified for F/A-18E/F carrier operations.

In a reconnaissance scenario, the PRISM VTR provides the commander with time critical strike information that was previously unavailable. Specifically, the commander is able to view the battlespace at extended ranges thru still frame images provided immediately by his aircrews. Bomb Damage Assessment (BDA) images can also be transmitted immediately after the strike to the commander or as target handoff to other combat aircraft. New targets of opportunity can be transmitted to aircraft on station for an immediate strike on the target.

The PRISM IDM II and VPIDM is compatible with F/A-18 FTI II, all F-14's, all Navy carriers, portable FTI laptops, Army Special Forces LVRS, Navy P-3 AIP, UK Jaguar and Special Forces, Army AH-64 and OH-58D with AVRIT, and over 1000 fielded ICE software platforms.

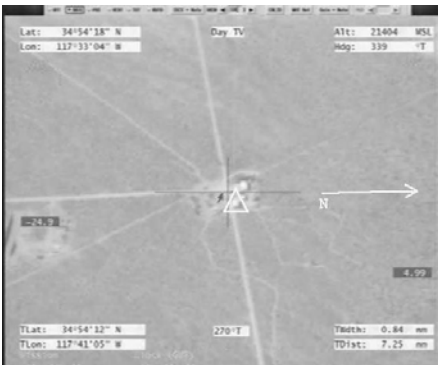
Features

- Burst capture as fast as 6 images per second
- Thumbnail display of captured images
- Display of text message
- Wavelet and JPEG Compression
- Selectable compression ratios
- Removable compact flash card
- Save to Archive as Bit Map
- Frame and field capture modes
- Receive and retransmit images
- Remote Control via serial interface

Benefits

- Used for bombs on impact or fast moving targets
- Quickly locate, select and transmit images after burst capture
- Attach 9 line brief or additional targeting data to an image
- Wavelet provides best quality and smallest file size while JPEG provides compatibility
- Select the image quality and file size based on the mission
- Upload target images prior to take off and down load post mission images for immediate review
- Captures and saves images uncompressed to the compact flash card
- Capture jitter free images in the field mode and high resolution images in the frame mode
- Extends the range over the horizon and provides target handoff
- Small user friendly remote control unit (RCU403) or serial interface from the aircraft mission computer serial port.

Predator UAV Target Image Package Transmitted to F-16 over PIDM



Wide FOV



Medium FOV



Narrow FOV



LANTIRN FLIR Target BDA
Transmitted from F-16 to CAOC

During the UFIR exercises, target image packages of wide, medium, and narrow fields of view were captured from the Predator live video down link. The target package was then transmitted to the F-16 over the PIDM. The F-16 simulated a run on the target, captured BDA images and transmitted the images to the CAOC.

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