

# Multi-Sensor Mission Equipment Package (MEP)

## Development Program for U.S. Army NVESD

COMPACT OBSERVATION AND  
LASER TARGETING SYSTEM



### APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

TARGET ACQUISITION

TARGET IDENTIFICATION

LASER TARGET DESIGNATION

### FEATURES

Advanced, compact sensor suite

Single LRU sets new standard in size, capability and performance

RSTA + Laser Designator (LD)

Unique Secondary Steering System

Two Multi-Target Trackers

### BENEFITS

Five sensor payloads in a 7.25" diameter

Manned and unmanned airborne, land and maritime platforms

Supports precision targeting

Steers WFOV and NFOV cameras separately for enhanced situational awareness

Detect and track targets in both Wide and Narrow fields of view. Selected targets in the WFOV are handed off to the NFOV for identification and designation

### PROGRAM STATUS

Prototype development and delivery under contract from U.S. Army Research, Development & Engineering Command (RDECOM), Communications and Electronic Research, Development and Engineering Center (CERDEC), and the Night Vision and Electronic Sensors Directorate (NVESD). PDR and CDR successfully completed, Phase II program at prototype fabrication and delivery stage.

# Multi-Sensor Mission Equipment Package (MEP)

## MEP SPECIFICATIONS SUMMARY

### THERMAL IMAGING PERFORMANCE

Wide FOV Longwave IR Sensor 640 x 480 uncooled microbolometer  
 Narrow FOV Midwave IR Sensor 640 x 480 cryo-cooled InSb FPA

### DAYLIGHT IMAGING PERFORMANCE

EO Sensor Type Miniature color CCD TV, FOV Matched to LWIR

### LASER PAYLOADS

Rangefinder 1.54µm, eyesafe, Max. Range >4km  
 Designator 1.06µm end diode pumped, Max. range > 2km

### AUTOMATIC VIDEO TRACKING

Two independent trackers

### GEOLOCATION/GEOPPOINTING

External GPS/IMU required

### SYSTEM PERFORMANCE

Gimbal type 2 axis stabilization  
 Azimuth coverage 360° continuous  
 Elevation coverage +20° to -60°  
 Stability 25 microradians

### SYSTEM INTERFACES

Video Dual MPEG-4 over IP  
 Control User supplied PC-based controller or optional sensor control display unit  
 Data IP

### POWER REQUIREMENTS

24V, <200W

### DIMENSIONS, WEIGHT & MOUNTING

Size 7.25 in x 10.25 in (18.5 cm x 26.1 cm)  
 Weight 16 lbs (7.3 kg)



Screenshot displays Wide FOV image (left) and Narrow FOV (right). Actual WFOV and NFOV IR imagery shown on the Sensor Control Unit (SCU.)

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