Salience-Based Compression (SBC) Module for TerraSight® Video Exploitation Systems

Full motion video for the dismounted warfighter

SBC delivers relevant, high-resolution video and data to dismounted warfighters over existing, bandwidth-limited communication channels. This new capability for the TerraSight® suite enables mission-critical decision-making at the tactical edge.

- Streams and displays highly compressed H.264 video from TerraSight® on Android-based handheld devices
  - Sends processed, full motion video with accurate metadata
  - Operates within bandwidth-constrained environments, down to 50 kbps
- Salient video information remains high quality while background areas are maintained at a lower bitrate for context. Includes:
  - Moving objects
  - IR hotspots
  - Operator-selected 3D regions
- User selects region of interest and desired bitrate
  - SBC intelligently compresses pixels around selected area
  - Displays tracked objects in motion or IR hotspots in streaming video
- Computes range and bearing to user-selected objects from handheld
- Displays location of video sensors and sensor coverage areas on the handheld common operating picture (COP) map
- Two-way communications over Wi-Fi, microwave, ad hoc, etc.
- Service-oriented architecture (SOA) with standards-based interfaces

Advanced Features

- Drapes georegistered video on handheld map
- User selects moving objects and IR hotspots from handheld video
- Accesses list of cameras via TerraSight® Server
- Controls pan, tilt and zoom of selected camera(s)
- Sends Curser on Target (CoT) or equivalent to handheld and drops entities on map
- Sends geo-tagged video clips and stills from handheld to server for display on TerraSight® 3D Visualizer COP

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