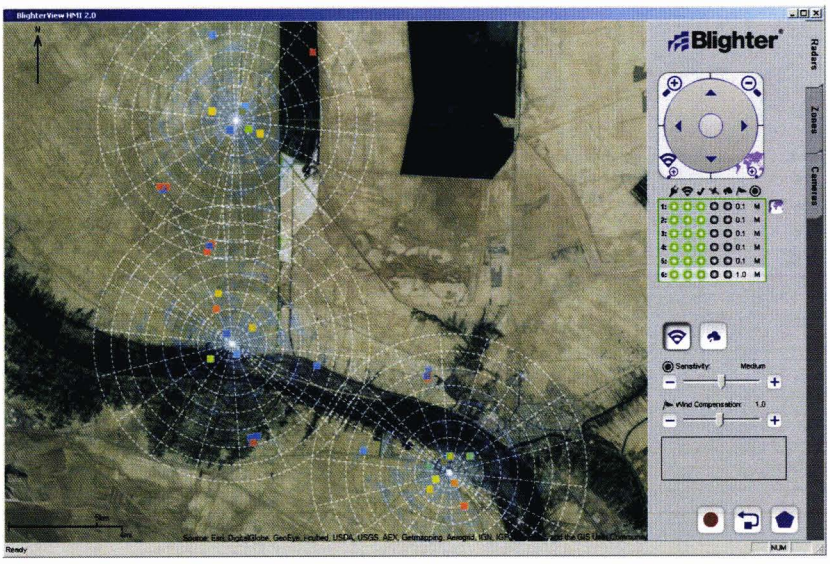
FACT SHEET

Blighter® View HMI 2



Example BlighterView HMI 2 screen-shot

- Simple, intuitive display and control of one or more Blighter radars
- Microsoft Windows based
- ESRI ArcGIS based mapping engine
- User definable alert and exclusion zones
- Automatic slew-to-cue of Pan/Tilt camera systems
- Runs on PC workstations, servers or ruggedised laptops
- Automatic selection of background maps
- Continuous record and playback facility for post-event analysis

BlighterView HMI 2 is a complete PC-based software application for displaying and controlling multiple Blighter radar units and associated peripherals. BlighterView HMI 2 provides users with an intuitive and simple display allowing all users to obtain the best performance from their integrated Blighter surveillance system.

BlighterView HMI 2 provides users with a simple interface to control and view one or more Blighter radars. Additional controls are available for advanced users to optimise the radar settings and the HMI display characteristics for specific applications.

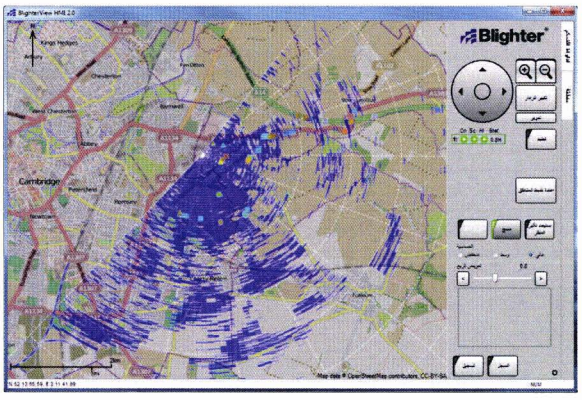
Radar targets are clearly identified as coloured markers overlaid onto a background map with key target characteristics available on a mouse click; including target location, speed and size. The colour of each target marker can be configured to represent target speed and direction or target size, allowing the operator to priorotise the targets to be observed. The user can select the duration of 'snail-trail' tracks that are displayed, allowing the path of the target to be plotted and predicted. BlighterView HMI 2 can control a variety of high-performance camera and thermal imaging systems allowing the user to automatically cue the cameras to the target location.

To enable un-manned operation, BlighterView HMI 2 includes user-definable alert and exclusion zones. An intruder entering an alert zone will generate a visible and audible alarm thereby alerting the operator to the event. Exclusion zones allow targets to be ignored within defined areas so that they do not distract the operator. Zones may be overlaid and prioritised to select or ignore specific target characteristics such as size and speed.

BlighterView HMI 2 operates on a standard PC or laptop running Microsoft Windows. Typically, up to six Blighter radars may be displayed simultaneously on a single HMI. Each radar can be controlled independently to optimise it for its environment. For fixed installations each radar may be manually located on the background map, however portable radars may use their internal GPS receivers and compass to locate themselves automatically on the map. BlighterView HMI 2 uses an ESRI ArcGIS mapping engine.

BlighterView HMI 2 offers the capability to display the ground clutter map produced by the Doppler radar. The ground clutter map shows where radar reflections from static objects have been received and may be overlaid onto the background map to help easily identify radar shadow areas and predict ground cover.

Screen-shots



Example BlighterView HMI 2 screen-shot (Arabic language)

Example BlighterView HMI 2 screen-shot (Korean language)

Specification

Sensor Interfaces

- Radar interface: Blighter radar QZ format over TCP/IP socket connection
- Camera: Pelco-D and QuickSet protocol for high-performance camera and thermal imaging systems
- Other industry standard camera interfaces available - please contact your local sales office

Host System

- Processor
  - Minimum: Intel Atom Z2760
  - Typical: Intel Core i5-3570
  - Ideal: Intel Core i7-3770
- Memory
  - Minimum: 2 GB
  - Typical: 4 GB
  - Ideal: 8 GB
- Hard drive
  - Normal use (minimum): 100 GB
  - Data recording (minimum): 1 TB
- Graphics
  - Minimum: Intel Graphics
  - Typical: nVidia or ATI dedicated graphics chip with at least 1 GB of dedicated memory
- Audio
  - Minimum: on-board (AC97)
- Networking
  - Minimum: 100 Mbit
  - Ideal: 1,000 Mbit
- Operating System
  - Ideal: Windows 7 Professional or Windows 8 Professional
- Display
  - Minimum: 1024 x 768
  - Typical: 1366 x 768
  - Ideal: 1920 x 1080

Human-Machine-Interface (HMI)

- Mouse/keyboard and/or touch-screen control interface
- Multi-language support: English, Korean and Arabic (all others on request)
- Software protection dongle: Large USB dongle, small USB dongle, SD card dongle (time and feature limited demo mode without dongle)
- Selection of coordinate formats: Lat/Long, UTM/UPS, MGRS
- General controls
  - Pan, zoom, rotate, default-view
  - Enable camera
  - Main map display area with radar scan sector and camera indicator
  - Pop up target information box
  - Install and name each Blighter radar (IP address and port No.)
  - Read or set position and rotation of each Blighter radar
- Camera set-up options
- HMI display settings including:
  - Map, target marker and clutter map brightness
  - Target marker and clutter map persistence (snail-trail fade time)
  - Colour mapping of target markers
  - Visibility of other overlays
- Radar control interface
  - Radar mode selection
  - Wind compensation
  - Sensitivity level
  - Rain filter
- Maps & Charts
  - ESRI ArcGIS mapping, including Open Street Map (OSM)
- Zones
  - Creation of up to 30 zone polygons
  - Up to 30 vertices per zone polygon
  - Select either alert or exclusion type zone
  - Priority ordering
  - Associate sound with each zone
  - Define min and max velocity for each zone
  - Define min and max target size for each zone
  - Zones alert on plots-only, tracks-only, or both

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