

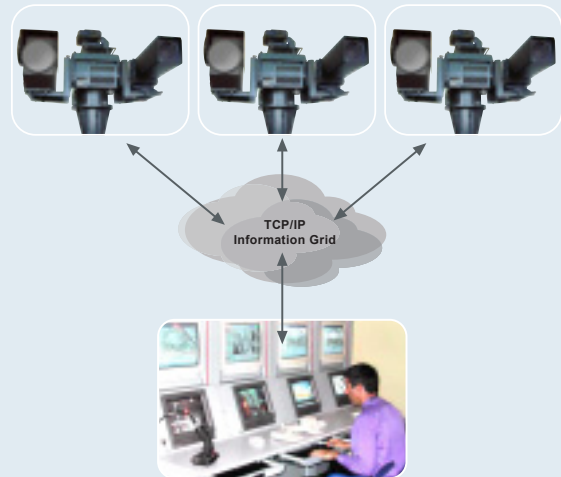
# LORROS<sup>®</sup> MK-II

## Long Range Reconnaissance and Observation Network System

LORROS<sup>®</sup> MK-II is a remote controlled observation and detection electro-optic system introduced by Elbit Security Systems Ltd. (ELSEC), utilizing the concept of network centric control for enhanced security and improved situation awareness.

Advanced standards in security require integration of a large number of elements with direct connection to control centers and data sharing between users, regardless of their geographical location.

The ability to quickly share and exchange information independently between system components (sensors, mobile platforms, C2 systems) creates high quality situational awareness, significantly enhancing security.



- LORROS<sup>®</sup> MK-II is a prime sensor system in this network. It is an advanced electro-optic system deployed in the IP network environment.
- The network consists of sensor elements, communication media and control centers. Communication between elements in the network utilizing IP technology enables integration and connectivity by creating a global information grid, enhancing performance of the security system.
- The network links multiple sensors and users into a comprehensive system which is simply and efficiently accessed and controlled by the users .
- The network employs open architecture, allowing easy integration of sensors for quick rollout.
- LORROS<sup>®</sup> MK-II accommodates daylight cameras such as VSS, EPOS, Sony, etc. and all types of thermal imaging cameras: Crystal-P, Ivory-Z, ARTIM-LR, Opal and more.
- The network centric concept used in LORROS<sup>®</sup> MK-II is based on ELSEC's extensive experience of sensor deployment and operation gained with customers worldwide.
- ELSEC implements LORROS<sup>®</sup> MK-II integration according to guidelines specified by U.S DoD NESI (Net-Centric Enterprise Solutions for Interoperability) and in accordance with system networking directives issued by the U.S Air Force, the U.S Navy and Sandia National Laboratories.



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Note: Parameters may be altered to comply with customer specifications. Elbit Security Systems Ltd. reserves the right to make such alterations in design, dimensions specifications and manufacture as are deemed necessary to ensure continued improvement.



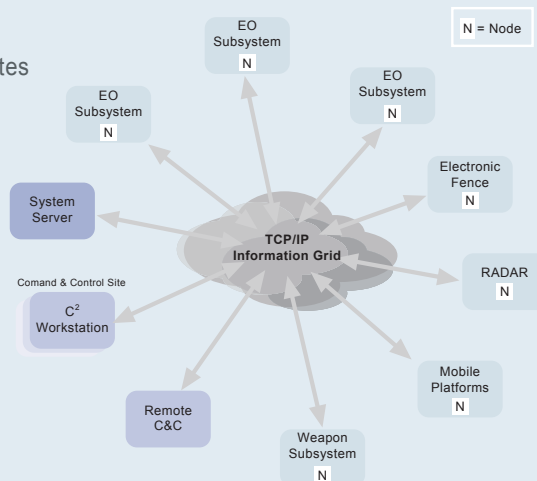
SECURITY SYSTEMS Ltd.

# LORROS<sup>®</sup> MK-II

## Long Range Reconnaissance and Observation Network System

### LORROS<sup>®</sup> MK-II network centric system features

- Support of single & multiple command and control surveillance sites
- Simultaneous control of multiple, remote EO subsystems, from single & multiple command and control workstations
- Video distribution to multiple users over IP network
- Digital and/or analogue video distribution and display
- Integration with external C&C systems
- Integration with various external sensors (e.g. radar, fence and others)
- Integration with customer's or third party's EO sensors
- Integrated Image Processing
- Integrated/external communication and encryption sub-systems.



### Implementation for multi-sensor IP network

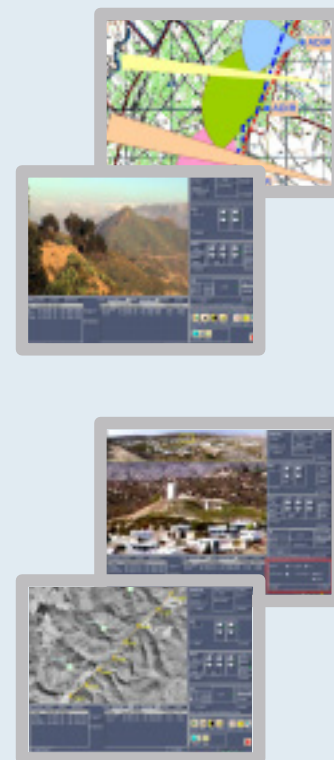
- Each LORROS<sup>®</sup> MK-II and all other sensors or platforms implement a "Node Platform" allowing other nodes (C&C clients and others) to control or receive data and/or video stream
- Remote node implements a web service to be used by C&C nodes.
- Web service basics implement an XML schema
- XML schema and web service allow standard and generic open platform for sensor command and information retrieval
- IU (Interface Unit) node serves as a mediation device to link legacy or proprietary sensor systems
- IU implements both device-specific, proprietary communication protocols, as well as ELSEC's generic RS-485 layer to communication with most EO devices using a protocol abstraction layer

### Command & Control work station

- Dedicated video display
- Geographical data and information from other sources on the main screen
- Fusion of data over the video
- Modular workstation
- LORROS<sup>®</sup> MK-II may be interfaced to any command & control system, including Elbit's TORCH C4I system.

### Image processing

- Static and dynamic on screen display/graphics
- Real-time panoramic digital image generation
- Video tracking
- Picture-in-picture capability.
- Image electronic stabilization
- Provision for VMD while scanning
- Auto focus option



For more information [click here](#)