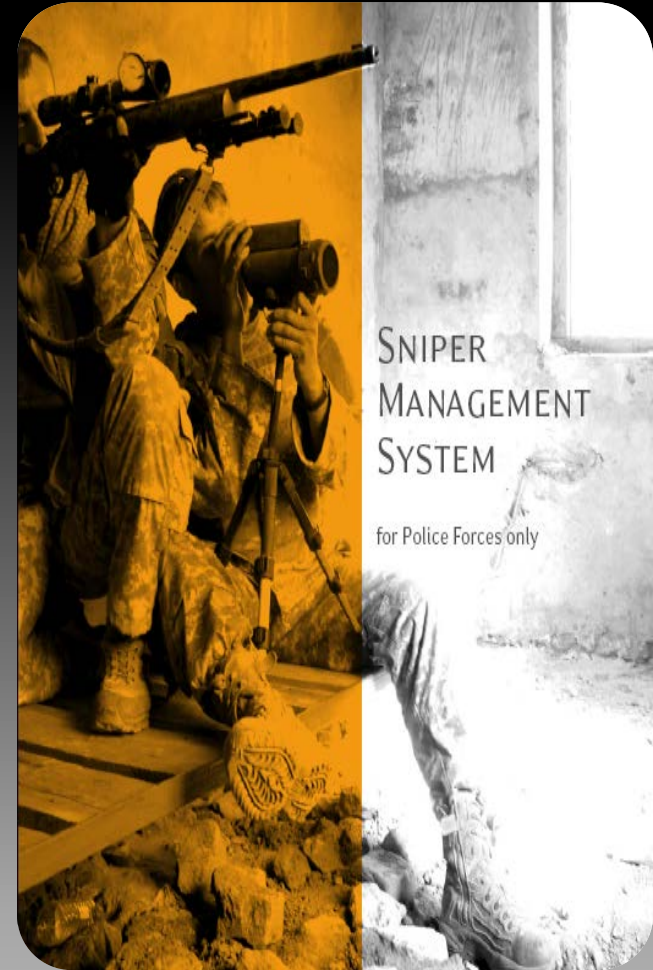# Hassan 11
SNIPER MANAGEMENT SYSTEM

SYSTEM CAPACITY

The Hassan 11 is advanced system for managing mission of sniper

It is a management system against terrorism, providing unparalleled functionality in the quest to avoid human error.
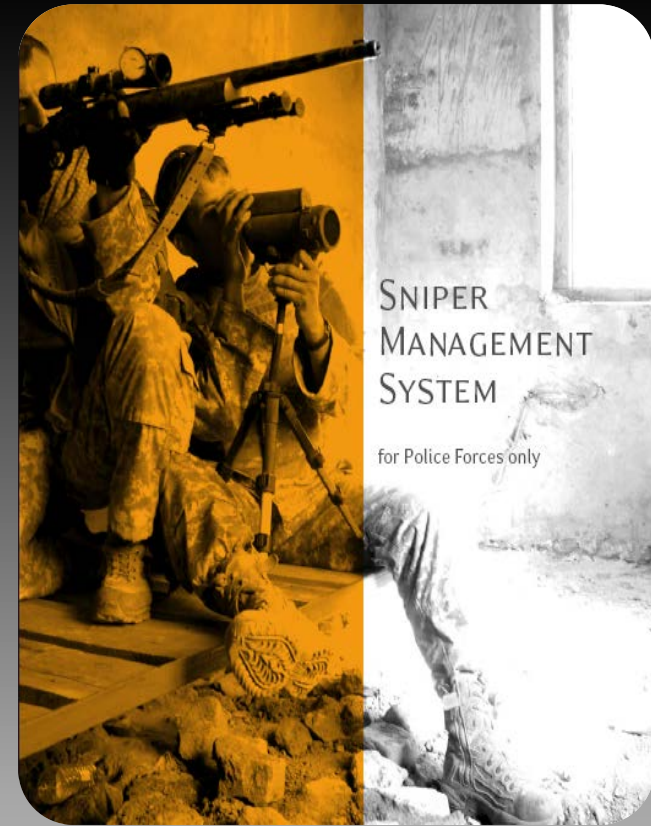
Hassan-11 is designed to function completely independently, ease of use, unparalleled

Hassan 11 can be installed in any location, in the city or in an open area in a few seconds - even in a crowded urban environment, providing high-quality video signal and image from the telescope to the commander for the conduct of the mission.
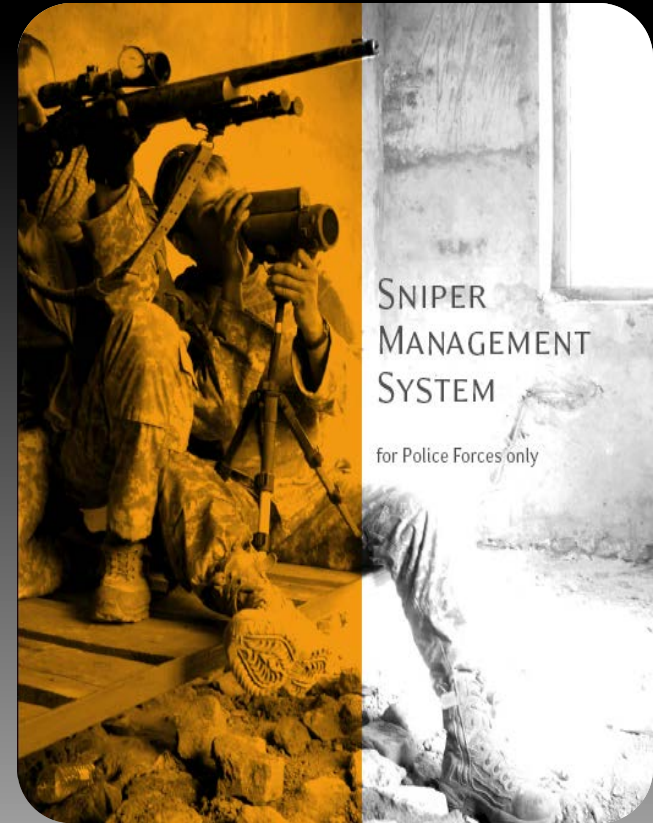

SNIPER
MANAGEMENT
SYSTEM

for Police Forces only

GLOBAL
SECURITY

OPERATIONAL REQUIREMENTS OF THE MISSION

Istar rapid and secret (intelligence, surveillance, target acquisition and reconnaissance) fire synchronized

✓ In open space, as well as scenarios of urban warfare "first responder"
✓ Border protection
✓ Protecting convoys, VIP check
✓ Security operations
✓ Legal Applications
✓ Search and Rescue
✓ Operations control and management against terrorism
✓ Training

SNIPER
MANAGEMENT
SYSTEM

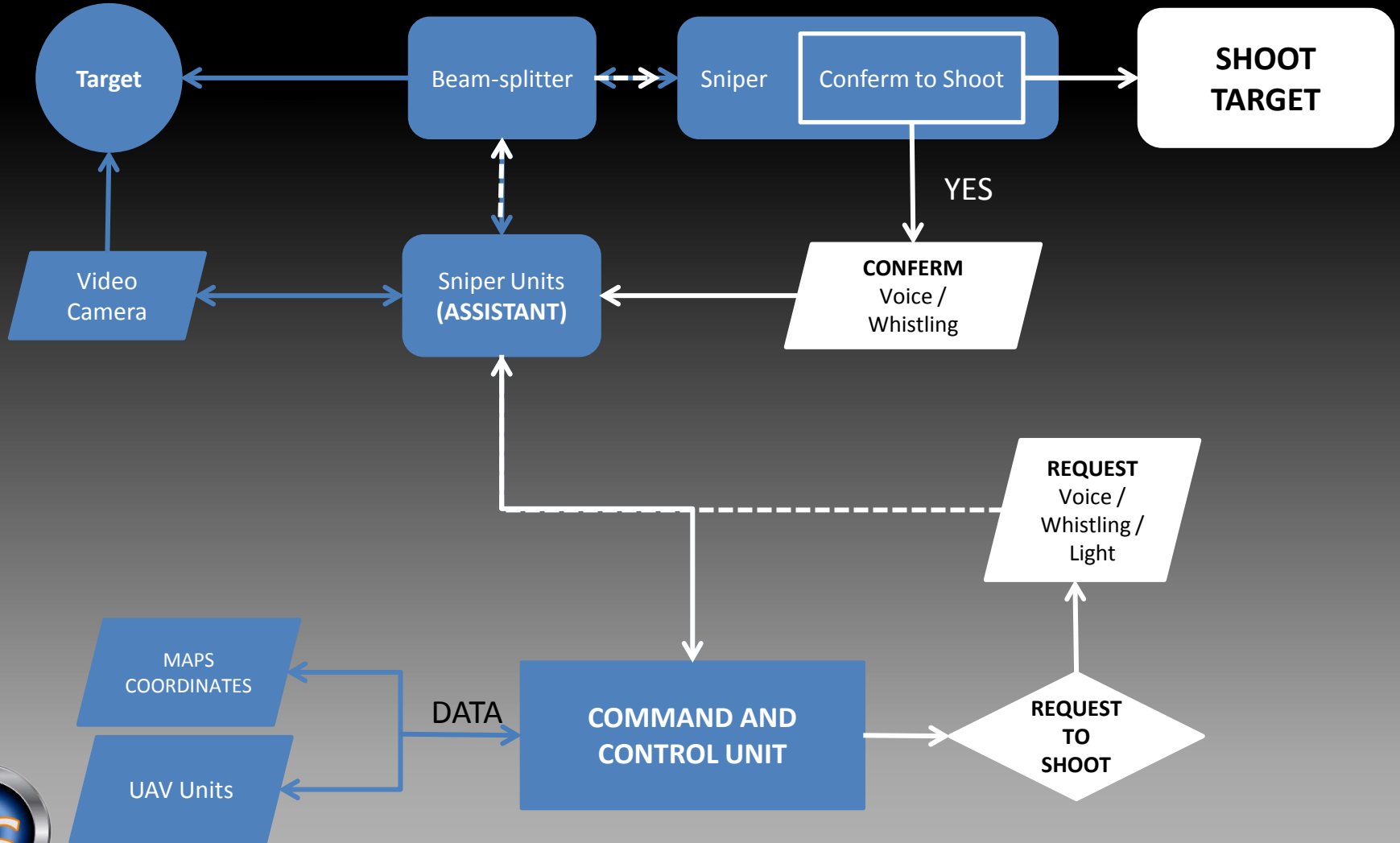for Police Forces only

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THE SYSTEM IS MADE UP:

- Portable control console with a capacity of up to 8-channel remote control; expandable
- Communications systems to plan a shot synchronized Polling
- Management and display of images of each remote riflescope "Sniper"
- The system of command and control to plan the mission can be portable or installed on vehicle
- System of remote recording of every single Sniper.

SNIPER
MANAGEMENT
SYSTEM

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THE SYSTEM

Target ← Beam-splitter ←→ Sniper | Confirm to Shoot → **SHOOT TARGET**

Video Camera ←→ Sniper Units **(ASSISTANT)** ← **CONFERM** Voice / Whistling

YES

REQUEST Voice / Whistling / Light

MAPS COORDINATES ← DATA → **COMMAND AND CONTROL UNIT** → **REQUEST TO SHOOT**

UAV Units

GLOBAL SECURITY

BEAM SPLITTER

The beam-splitter is an optical system that turns the live image from the telescope into a video signal to be transmitted by radio remote, between the sniper and assistant arrives distance up to 30 meters.

The adapter will fit on any type of telescope.
The adapter to be connected to the telescope contains one half-silvered mirror, a micro-camera with color sensor and three micro-LED.

The lens in semi-reflecting mirror allows the passage of light towards the eye but, at the same time, deflects part of the light towards the lens of the camera which captures the image and sends it back to the transmitter.
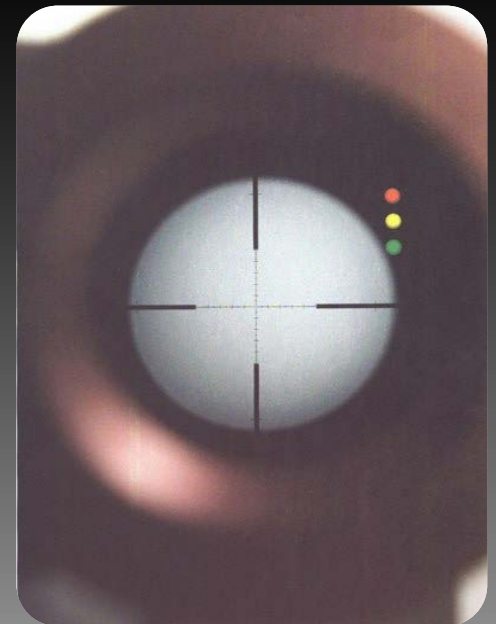
The micro-bright LEDs (green - yellow - red) reproduce the control data sent by the direction, in real time, and the sniper receives a confirmation that the message has been received by the master.

The sniper unit supplied with the sniper and his assistant consists of:

✓ Optical system compatible with any type of riflescope
✓ An image display system riflescope
✓ Communication system with headphones and radio and double PTT
✓ Batteries for the duration of 6/8 hours of operation and additional batteries
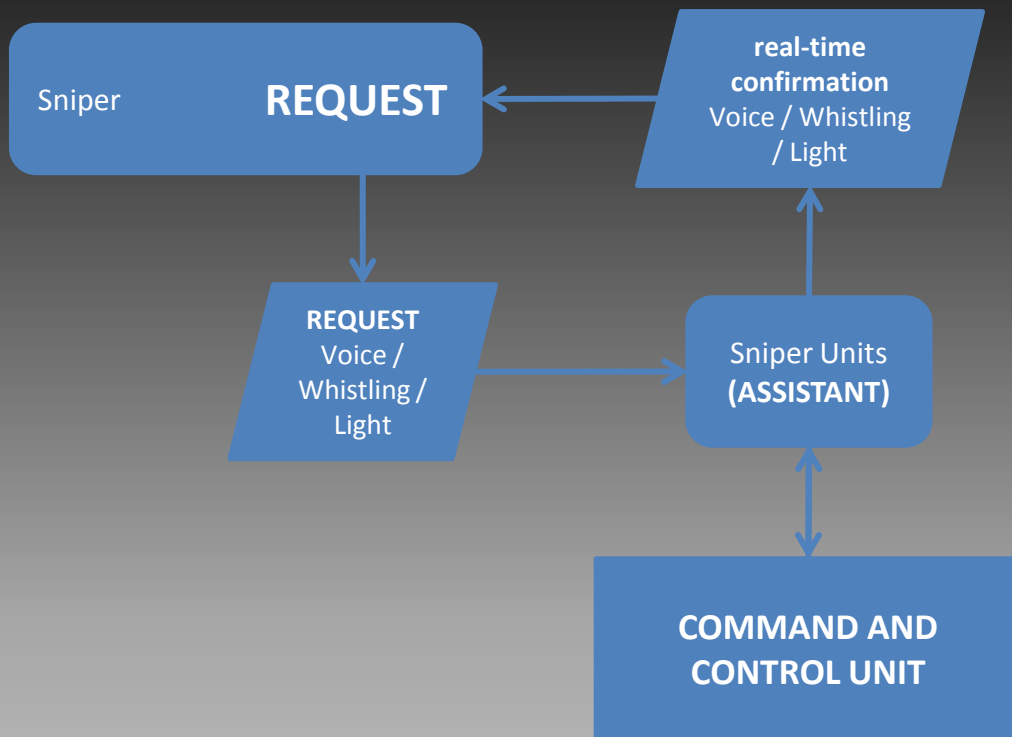
option
It can monitor the state of tension of each sniper, body temperature and heart rate

POLLING

The system comes with software and polling, that the sniper receives a real-time confirmation that the message has been received from COMMAND AND CONTROL UNIT.
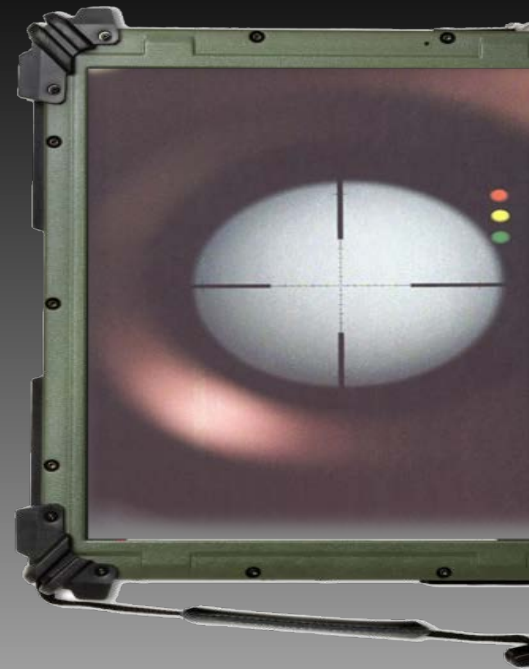
SNIPER UNITS (ASSISTANT)

The sniper unit supplied with the sharpshooter is composed of:

Ranked # 1 Tablet pc CAT21 integrated control and micro-transmitter digital microwave synthesized, with COFDM modulation and MPEG-2 digital video encoder, GPS receiver and transceiver (VHF or UHF) for emergency connections.

Ranked # 1 built-in GPS unit in the pocket of management and reports to the headphone Beam Splitter.

Each remote site can receive photos from process control.

GLOBAL SECURITY

COMMAND AND CONTROL UNIT

It consists Processor Portable Campale "CAT 21" operational characteristics allow military to equip elettrottici systems, radar, sensors.
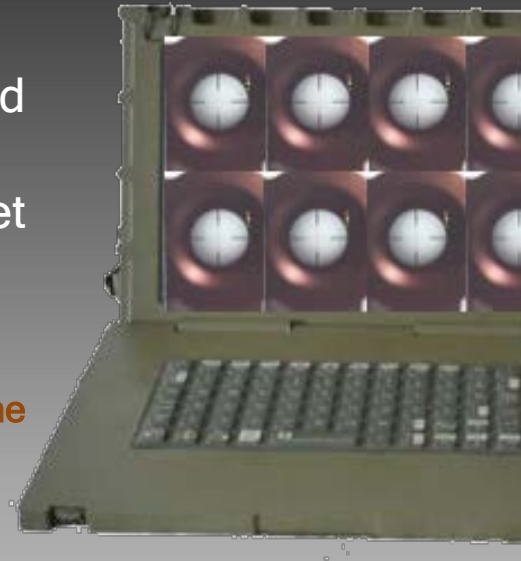Sudiviso has 8 ricevone monitor a video signal distinct from each of the SNIPER UNITS (ASSISTANT)

The operational features:
- ✓ It has a coverage radius of 400 meters. in the city, and ¾ km open area.
- ✓ You can plan the mission, see the location of the target and the individual shooters

option
Transmission system of photo images, if a sniper can take the face of the criminal, the master may send the pictures other sniper

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TECHNICAL FEATURES

- CPU: Intel Core I7;
- RAM: 4 G bytes;
- Solid State Disk: 256 GB;
- DISPLAY: LED 10 ", Normal or touch screen;
- Res. TFT 1366 x 768 pixels;
- KEYBOARD: backlit buttons and waterproof;
- Weight: <3.0 kg;
- Color: NATO GREEN IR;

The external interfaces are:

- 2 RS 232;
- Military GPS P / y "PLGR";
- Military equipment;
- Military satellite;
- 3 USB 2.0 ports;
- Military equipment;
- Digital camera ;
- 1 Port CNR VHF / HF / UHF;
- 2-port WLAN / LAN;
- LAN Radio
- Rover System
- Output 1 VGA port;
- 1 brings audio / microphone / earphones;

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VIDEO CAMERA

The unit for video recordings of the target, the station consists of:

High resolution color cameras night and day or thermal lens zoom range up to 2 km
intensifier for night tilt pan-tilt
mini-tripod lightened (carbon fiber)
Management system in local
Pan / Tilt the camera functions.

option
Transmission system cable instead of wireless transmission (fiber optic)

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UAV UNITS

The unit UAV Dragonfly-51 is designed to function completely independently, ease of use, unparalleled and high maintainability.

Dragonfly 51 can be launched from its launcher manual in a crowded urban environment, with a gimbal owner and stabilized EO or IR loads, to provide high quality video and images, and automatic tracking of the target.

OPERATIONAL REQUIREMENTS

- Fast "over-the-hill" (Intelligence, Surveillance, Target Acquisition & Reconnaissance)

- Open space, as well as scenarios of urban warfare "First Responders"
- Border protection
- Force / convoy protection
- Security operations
- Law enforcement
- Search and Rescue
- Control operations and disaster management
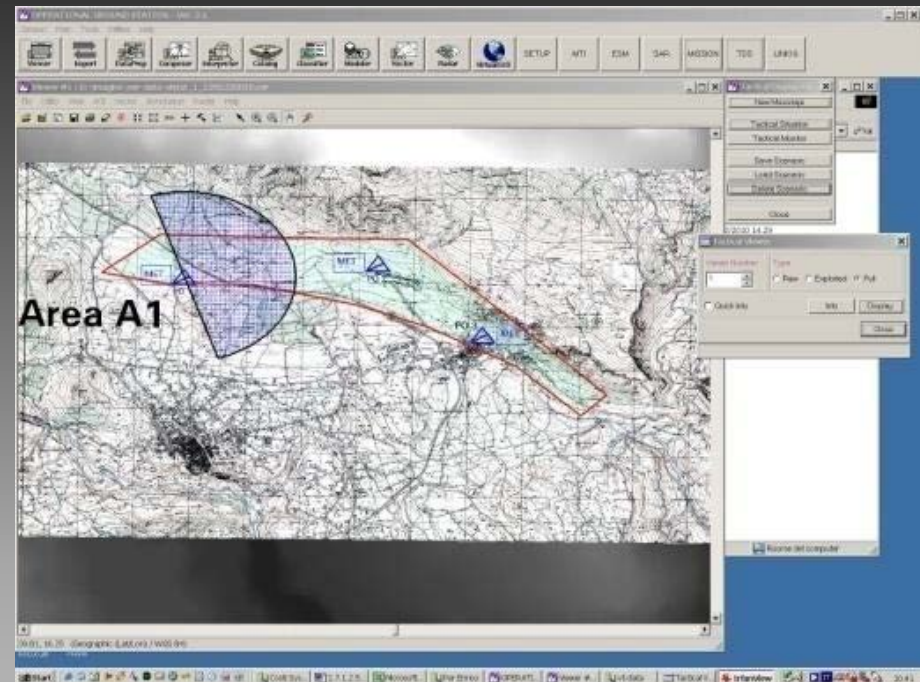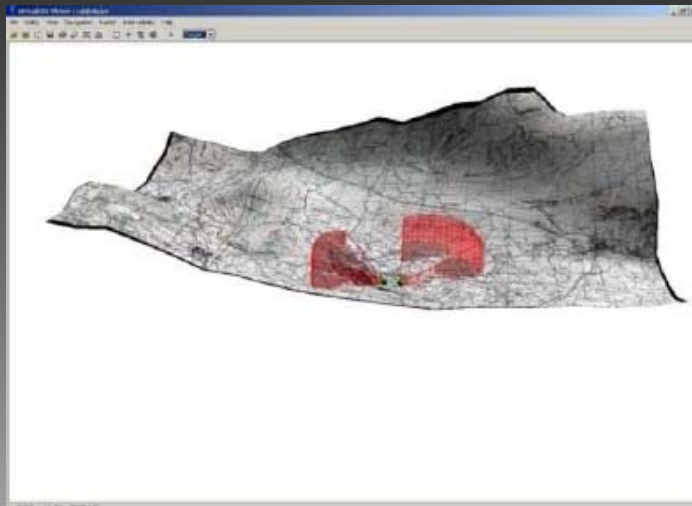- Applications commercial

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CARATTERISTICHE TECNICHE

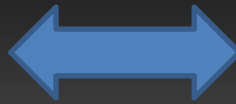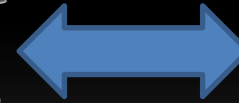|	
Delivery chain Field	5 min
Operating Range	8 km
Gross weight	(incl. Payload) 3 Kg
Endurance	40 min
Payload (camera sensors, etc.)	1.5 Kg
Cruising altitude	100 m
Airspeed	30 to 65 Km / h
Takeoff run	5-15 m

MAPS COORDINATES

Software command and control to plan the mission for which we can load the paper maps or various sizes available Raster Vector no need internet, this map becomes 3d and you can view video images from the cameras located throughout the area on the map matched to the coordinates geographical

TECHNICAL FEATURES

Sistema Operativo
    Microsoft Windows
            XP Professionals
            Seven ;
    LINUX;
Supporto di Microsoft Ufficio 2010;
Sun Star Ufficio
Access DBMS, Post grass;
Imagini GIS ERDAS
GIS POSTGIS / QGIS

Command and Control Unit

Beam-splitter

N - Sniper Units

GLOBAL SECURITY

OPTIONAL

HEARTBEAT

PHOTO MANAGEMENT

OPTIC FIBER

Beam-splitter

Video Shoot
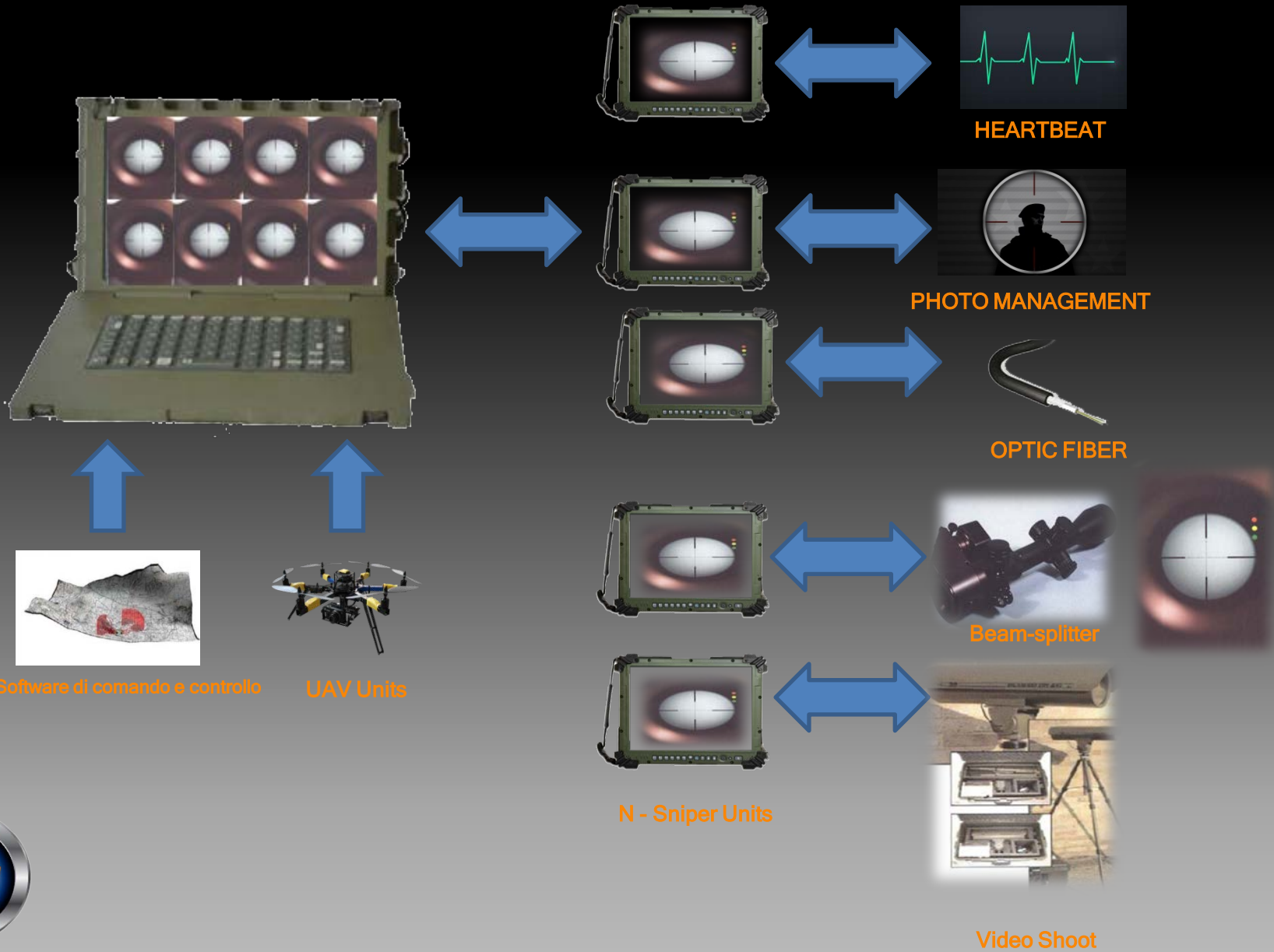
Software di comando e controllo

UAV Units

N – Sniper Units

GLOBAL SECURITY

OPTIONAL

HEARTBEAT

A feature that indicates the heartbeat of the Sniper, the Command and Control,

PHOTO MANAGEMENT

A feature photo management, which allows the Command and Control, to send a photo of TARGET, to all the other units,

OPTIC FIBER

A connection of optical fiber,

OPTIONAL

VSAT

LASER POINTER

THERMAL CAMERA

N - SNIPER UNITS

HAND HELD

GLOBAL SECURITY

GS

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