



# I N D R A N E T

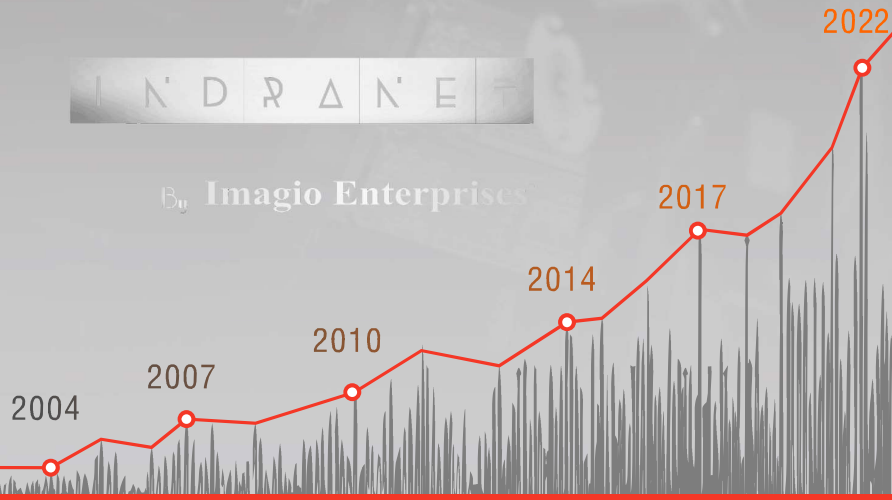
By **Imagio Enterprises®**



**NEW GENERATION  
RAPID DEPLOYABLE  
SECURITY ALARM SYSTEM**

# I N D R A N E T

By Imagio Enterprises



## I N D R A N E T

is an AUTONOMOUS, RAPID-DEPLOYABLE, COMPACT means of detection and recognition of moving objects of classes



**HUMAN**



**VEHICLE**



**LOW-FLYING OBJECT**

## I N D R A N E T

is designed for monitoring of extended and/or localized segments of terrain, borders or perimeters of objects, routes of approach, for the purpose of temporary or long-term protection of remote territories by transmitting alarms, seismic and photographic information to the control checkpoint.



## CIVIL APPLICATIONS

### MONITORING OF MOVING VEHICLES AND PEOPLE

- In areas of environmental disasters with radioactive or chemical contamination
- On access roads and trails to important state facilities
- National parks, areas protected from unauthorized or prohibited activities (deforestation, fishing, hunting, etc)

### PROTECTION:



**AIRPORTS**



**TEMPORARY SITES FOR ROAD AND CONSTRUCTION EQUIPMENT**



**NUCLEAR AND CONVENTIONAL POWER STATIONS, POWER LINES**



**VIP ESTATES AND RESIDENCES**



**OIL & GAS PIPELINES, MINES, DEPOSITS OF MINERALS**



**PRISONS AND CORRECTIONAL INSTITUTIONS**



**INDUSTRIAL FACILITIES, PETROCHEMICAL PLANTS AND REFINERIES**



**CRITICAL INFRASTRUCTURES, HIGH-CONSEQUENCE FACILITIES**



**EXPLOSIVES AND PHARMACEUTICAL FACTORIES**

## MILITARY APPLICATIONS



### MONITORING OF MOVING VEHICLES AND UNITS

- On the line of armed contact
- On access roads and trails to the battlefield

Monitoring of moving sabotage, intelligence or terrorist groups in the areas of special operations.

Monitoring of underground tunnels. Detection of low-flying objects.

### PROTECTION:



STATE BORDER



POSITIONS OF RADIO-RADAR TROOPS, AIR DEFENSE SYSTEMS AND OTHER



IMPORTANT MILITARY FACILITIES



WAREHOUSES WITH AMMO, WEAPONS AND MILITARY EQUIPMENT



MILITARY BASES AND CHECKPOINTS



OPERATIONS CONTROL CENTERS



ROADBLOCKS



TEMPORARY SITES OF TROOPS DEPLOYMENT



COMMAND AND CONTROL POSTS

## ADVANTAGES



RAPID DEPLOYMENT ON ANY UNPREPARED SITE WITHIN SEVERAL HOURS



SINGLE CHANNEL OF DATA EXCHANGE (REDUCED EXPENSES FOR HARDWARE, MAINTENANCE & TRAINING)



EFFECTIVE DETECTION, RECOGNITION, IDENTIFICATION OF MOVING THREATS WITHIN 45 KM FROM CONTROL CENTER



EFFECTIVE PROTECTION FROM INDUSTRIAL AND NATURAL INTERFERENCES



ONLINE DOWNLOADING PHOTOGRAPHS AND SEISMOGRAMS OF MOVING OBJECTS



FULL CONTROL AND CONFIGURATION VIA MOBILE CONTROL DEVICE AND/OR STATIONARY PC



DUST/WATER-PROOF, OPTIMIZED FOR HIGH/LOW TEMPERATURES



UNIQUE ALGORITHMS OF THREATS IDENTIFICATION, CLASSIFICATION, FALSE ALARMS FILTRATION



COMPACT SIZE, EASY INSTALLATION



FULL FUNCTIONALITY IN WIRELESS / WIRED / COMBINED MODE



UP TO 12 MONTHS OF FULLY AUTONOMOUS OPERATION



VARIETY OF SENSORS, CONNECTIVITY WITH ADDITIONAL MEANS OF SECURITY, INTEGRATION INTO EXISTING SYSTEMS

# MONITORING & CONTROL EQUIPMENT

• MOBILE CONTROL DEVICE



• COMMAND AND CONTROL BASE STATION

# FIELD EQUIPMENT

• INFRARED SENSOR



• COMBINED SEISMIC DEVICE



• COMBINED PHOTO DEVICE



## DETECTION RANGE:

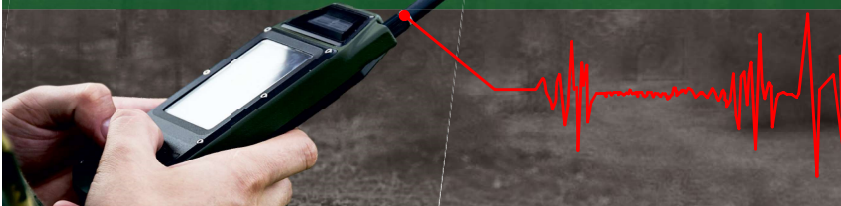
|                               |  |       |   |   |   |   |   |   |   |
|-------------------------------|--|-------|---|---|---|---|---|---|---|
| HUMAN - UP TO                 |  | 100 m | █ |   |   |   |   |   |   |
| VEHICLE - UP TO               |  | 300 m | █ | █ |   |   |   |   |   |
| LOW FLYING HELICOPTER - UP TO |  | 600 m | █ | █ | █ | █ |   |   |   |
| TRACKED VEHICLE - UP TO       |  | 800 m | █ | █ | █ | █ | █ | █ | █ |

## PRINCIPLE OF OPERATION

1 | AS AN INTRUDER APPROACHES THE PROTECTED PERIMETER, SPIDERNET PICKS UP THE GROUND VIBRATIONS



2 | ALARM SIGNAL IS TRANSMITTED TO THE MOBILE MONITORING DEVICE AND THE CONTROL CENTER



3 | PATROL PERSONNEL AND OPERATOR OF THE CONTROL CENTER RECEIVE THE ALARM AND TAKE PROPER RESPONSE ACTIONS



4 | PHOTO CAMERA TAKES A SERIES OF PICTURES (IN MANUAL OR AUTOMATIC MODE) TO CONFIRM AND IDENTIFY THE INTRUDER



5 | FOR ADDITIONAL CONTROL, A SEISMOGRAM OF THE INTRUDER'S MOVEMENT CAN BE DOWNLOADED TO THE CONTROL CENTER



6 | THE THREAT IS NEUTRALIZED



## COMMAND AND CONTROL BASE STATION

- Specialized software package
- Full-featured management of the complex
- Receipt of alarms, photographs and seismograms
- Based on a conventional or rugged laptop
- Integrated with the stationary transmit-receiving device
- Stationary installed or vehicle-based



## MONITORING AND CONTROL SOFTWARE

- Unique proprietary algorithms of seismic data analyses
- Filtering of interferences of natural and man-made origin
- Clear detection and classification of moving objects



### ADDITIONAL EQUIPMENT:

- Telescopic mast
- Mounting brackets
- Antennas of various type
- Extension cables for antenna and power
- SPTA (spare parts, tools and accessories)
- Backpack

# MOBILE CONTROL DEVICE

- Field equipment status monitoring and control
- Receipt of alarm notifications from sensors
- Receipt of photographs from photo camera
- Determining (searching) the locations of the sensors deployed in the field
- Configuration of all types of sensors

- Radio modem
- GPS / GLONASS receiver
- Built-in speaker for audio notification
- Silent vibration mode



## DESCRIPTION:

|  |                    |
|--|--------------------|
| Radio communication range between MCD and CSD, up to, m                                | 500                |
| Radio communication range within the line of sight (subject to antenna type), up to, m | 1500 – 15 000      |
| Display size, inches   | 3,2                |
| Operating frequency range, Mhz   | 433 or 868         |
| Ingress protection degree  | IP 66              |
| Battery life (in economy mode), up to, days  | 3                  |
| Case material  | Aluminium, plastic |
| Geolocation accuracy, m  | +/- 4              |
| Overall dimensions, mm   | 92 x 190 x 36      |
| Weight, not more than, kg  | 0,8                |

## COMBINED SEISMIC DEVICE

- Waterproof and dustproof
- Compact size
- Hidden installation into the ground
- Autonomous operation up to 12 months
- Connectivity with other means of security
- Detection and classification of intruders:
  - person - up to 100 m
  - vehicle - up to 300 m

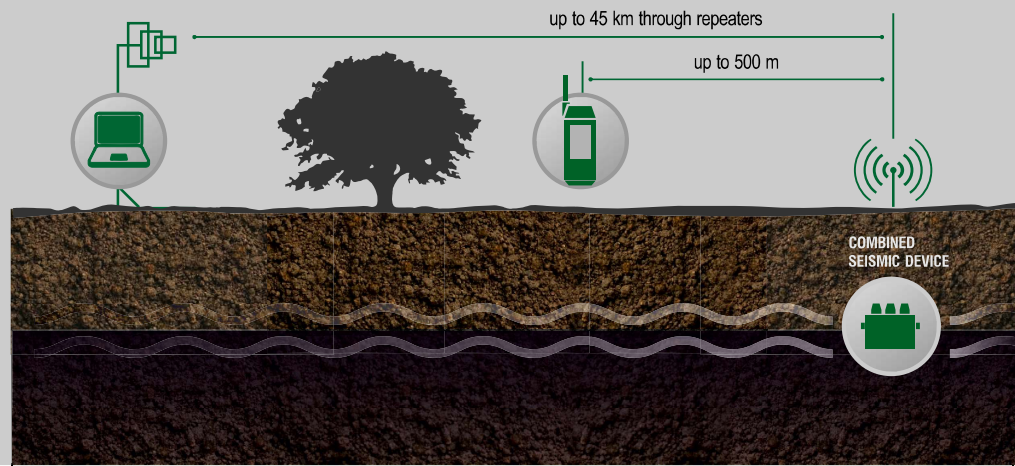


### DESCRIPTION:

|   |                |
|---|----------------|
| Number of recognized classes  | 3              |
| Radio transmission range within the line of sight (subject to antenna type), up to, m | 1 500 – 15 000 |
| Operating frequency range, MHz  | 433 or 868     |
| Battery life, up to, months   | 12             |
| Ingress protection degree   | IP 67          |
| Installation depth in the ground, cm  | 30-40          |
| Overall dimensions, mm  | 38 x 93 x 125  |
| Weight, not more than, kg   | 0.5            |

### TWO MAIN MODIFICATIONS:

- Portable with its own antenna and in-built power source
- Stationary with an external antenna and power source
- Both versions can operate in wireless and wired mode





# COMBINED PHOTO DEVICE

# COMBINED PHOTO DEVICE



- Waterproof and dustproof
- Infrared illumination
- Autonomous operation up to 2 months
- 60° viewing angle
- Detection range:
  - up to 100 m in the daytime
  - up to 50 m at night for vehicle
  - up to 30 m at night for human

640x480

320x240

160x120



Wired and wireless versions.  
 Complete with external antenna,  
 power source, mounting components

## DESCRIPTION:

|  |               |
|--|---------------|
| Maximum image resolution   | 640 x 480     |
| IR illumination  | YES           |
| Radio communication range within the line of sight (subject to antenna type), up to, m | 1500 – 15 000 |
| Operating frequency range, Mhz   | 433 or 868    |
| Battery life, up to, days  | 60            |
| Ingress protection degree  | IP 67         |
| Internal memory  | YES           |
| Overall dimensions, mm   | 80 x 80 x 140 |
| Weight, not more than, kg  | 0,8           |

## PROTECTION OF INDUSTRIAL OR ENERGY FACILITIES

COMBINED SEISMIC DEVICE



COMBINED PHOTO DEVICE



## TACTICAL OPERATIONS

COMBINED PHOTO DEVICE



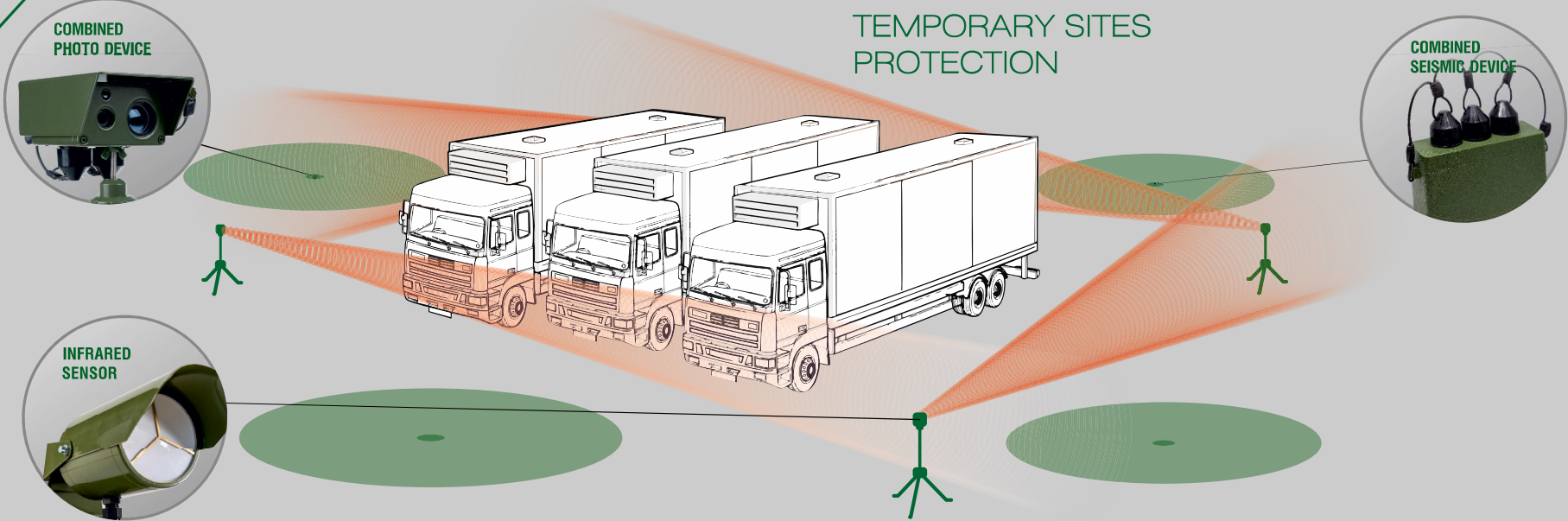
COMBINED SEISMIC DEVICE



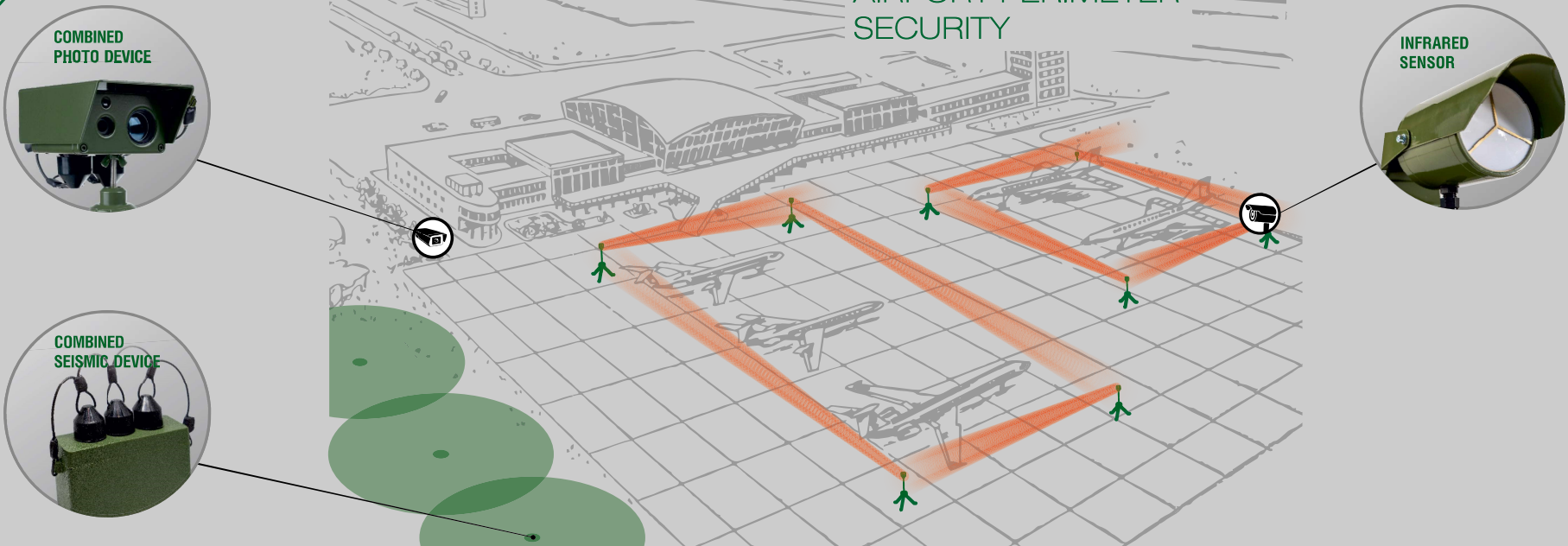
COMMAND AND CONTROL BASESTATION



### TEMPORARY SITES PROTECTION



### AIRPORT PERIMETER SECURITY



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Imagio Enterprises Inc.  
EIN # 83-2743410  
DOS# 5399852  
525 W. 52 St.  
Manhattan, New York. 10119

**Imagio Enterprises<sup>®</sup>**

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Paul Quiroga  
VICE PRESIDENTE  
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