



# SECURITY SOLUTIONS

DELETRON.RU



# DELETRON HELPS TO ENSURE SECURITY OF YOUR ENTERPRISE, WAREHOUSE, OFFICE, OR RETAIL SHOP

## READY TO JOIN YOU AT ANY STAGE:

From introducing end-to-end solutions to integrating individual solutions into existing infrastructure



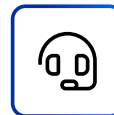
### PROJECT PRICES ARE LOWER THAN THOSE OF OTHER SUPPLIERS

We can afford it, because vendor companies are our partners.



### WE PERFORM FULL WORK CYCLE: SITE INSPECTION, SOLUTION DEVELOPMENT AND IMPLEMENTATION

Thanks to our own R&D Center, we can take on complex and non-routine tasks to ensure the safety of your facilities.



### WE PROVIDE CLIENT AND TECHNICAL SUPPORT

We develop individual solutions for your tasks. We advise on technical issues and provide equipment maintenance after its installation.



### WE LET THE CUSTOMER TEST EXPENSIVE EQUIPMENT

If additional equipment is needed during your work, we will provide it for testing. If it works for you, you can buy it, if it doesn't, return to us.

# SECURITY SYSTEMS



## 01 ACCESS CONTROL SYSTEMS (ACS)

Restriction and registration of entry/exit of people or vehicles through points of passage: doors, gates, or checkpoints. The system controls who can be let in, at what time, and to what territory. It also helps to maintain the personnel database, record working hours, perform alcohol testing, and contactless temperature measurement.

- ALCOTESTING SYSTEMS
- CHECKPOINTS
- LICENSE PLATES RECOGNITION
- VISITORS IDENTIFICATION SYSTEMS
- BIOMETRIC SYSTEMS
- THERMAL IMAGING SYSTEMS
- ACCESS CONTROLS DESKS

## 03 VIDEO SURVEILLANCE SYSTEMS

Monitoring employees' activities, technological processes, and ensuring industrial safety through video analytics.

- ONLINE VIDEO TRACKING IN A SYSTEM OF MULTIPLE SURVEILLANCE CAMERAS
- RETROSPECTIVE SEARCH IN VIDEO ARCHIVE BY THE SPECIFIED PARAMETERS
- DETECTOR OF THEFTS AND SUSPICIOUS BEHAVIOR
- OBJECTS AND VEHICLE TYPES RECOGNITION
- RECOGNITION OF DYNAMIC HAZARDOUS AREAS IN THE TECHNOLOGICAL PROCESS
- THERMAL IMAGE CONTROL
- AGGRESSIVE BEHAVIOR DETECTOR (FIGHTING, VANDALISM)
- VIDEO ANALYTICS OF POSTURE (SLEEPING, SMOKING, BODY POSITION)
- FACE RECOGNITION
- ANALYTICAL REPORTS



## 02 PERIMETER SECURITY

Identification of threats of invasion to the territory, prompt and correct response to incidents.

- SECURITY ALARM SIGNALING SYSTEMS
- SECURITY LIGHTNING SYSTEMS
- SECURITY POSTS CONNECTION

## 04 FIRE PREVENTION

Monitoring of fire hazardous areas or flammable objects - detection of temperature rise without visible fire on the territory. Fire warning, evacuation and fire extinguishing management.

- FIRE ALARM SYSTEM
- PUBLIC ALARM AND EVACUATION SYSTEM
- FIRE EXTINGUISHING SYSTEM
- RESTRICTED MOBILITY ASSISTANCE SYSTEM



# TECHNICAL SOLUTIONS



## 01 CONTACTLESS INSPECTION OF PEOPLE AND OBJECTS

Detection of objects that are prohibited from being carried to the site, including weapons, explosive devices. Contactless inspections are safe for the searched and, unlike manual ones, are faster.

Equipment to use:

- RADIATION MONITORS
- ACTIVE MICROWAVE SCANNERS
- PASSIVE TERAHERTZ SCANNERS
- STATIONARY METAL DETECTION FRAMES
- SHOE SCANNERS
- X-RAY TELEVISION UNITS

## 03 MACHINE VISION AND ARTIFICIAL INTELLIGENCE (AI)

To eliminate the human factor and obtain high-precision object recognition when monitoring the perimeter and technological processes, solutions based on deep learning algorithms are used.



VISITOR COUNTING, THERMAL MAPPING, QUEUE DETECTOR



FACE OR VEHICLE RECOGNITION IN THE FRAME, COMPARING IT WITH THE DATABASE SAMPLE



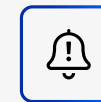
DETECTING OF USING THE REQUIRED PPE AND VIOLATION OF THE SAFETY DISTANCE BETWEEN EMPLOYEES



IDENTIFICATION OF DANGEROUS ACTIONS OF PERSONNEL, UNAUTHORIZED ACCESS TO EQUIPMENT



DETECTING THEFTS AND FACTS OF VANDALISM



DETECTION OF FAILURES IN THE TECHNOLOGICAL PROCESS WHICH MIGHT BE DANGEROUS FOR THE EMPLOYEES



## 02 UNIVERSAL INSPECTION EQUIPMENT

Technical means for inspecting people and objects.

- HAZARDOUS LIQUIDS DETECTOR
- DETECTORS OF ACOUSTIC, MAGNETIC, AND ELECTRIC FIELDS
- ENDOSCOPES
- DOSIMETERS-RADIOMETERS
- WEARABLE DETECTORS OF HIGH-THREAT SUBSTANCES, MATERIALS, AND PRODUCTS
- HIDDEN HOLLOW SPACES SCANNERS
- EXPLOSIVES DETECTORS

# SITUATION CENTER FOR MONITORING AND CONTROL

We integrate different security systems into a single management platform. The system allows obtaining analytical data, program algorithms for responding to incidents in order to reduce the human factor.

All security solutions used at the facility are combined into a single comprehensive monitoring system.

This centralizes the control over the activities of personnel, production processes and ensures the security of the facility, as well as prompt and correct responses to incidents.

The system not only notifies about violations or abnormal situations but also launches the necessary algorithm of actions.



ALL SECURITY SOLUTIONS USED AT THE FACILITY ARE COMBINED INTO A SINGLE COMPREHENSIVE MONITORING SYSTEM



THE SYSTEM NOT ONLY NOTIFIES ABOUT VIOLATIONS OR ABNORMAL SITUATIONS BUT ALSO LAUNCHES THE NECESSARY ALGORITHM OF ACTIONS

## ESTABLISHING SECURITY MONITORING AND CONTROL CENTER



IDENTIFICATION



VIDEO SURVEILLANCE



ENGINEERING SYSTEMS



CLASSIC SECURITY SYSTEMS



SPECIAL SECURITY SYSTEMS



LOCAL POSITIONING SYSTEMS



MANAGEMENT



SAFETY DEPARTMENT



OPERATOR

# RETAIL STORES

Our security systems help prevent shoplifting, increase the quantity and quality of sales with video analytics using artificial intelligence.

## 01 CREATING COMFORTABLE SHOPPING ENVIRONMENT

Control of goods availability on shelves, and free parking spaces, measuring temperature at the entrance, detecting queues, counting and informing about the safe customers number.



## 02 PREVENTION OF THEFTS BY STORE EMPLOYEES

- EMPLOYEE ACCESS CONTROL AND MANAGEMENT SYSTEM (ACS)
- CASH OPERATIONS CONTROL
- CONTROL OF LOADING AND UNLOADING OF GOODS

## 03 REVENTION OF SHOPLIFTING

Video surveillance systems with intelligent video analytics.



## 04 BUSINESS ANALYTICS TO IMPROVE STORE EFFICIENCY

Counting entering customers and analytics of data on the number of transactions performed. Control over the quality of supplied products by monitoring the area of unloading / loading of goods.

## 05 SINGLE CONTROL CENTER FOR ALL SYSTEMS

Helps reduce operating costs for security systems. Allows you to track violations in the store, unloading / loading area, at the entrance – monitoring, and incident response from one control point.

\* It is possible to implement a comprehensive solution or integrate individual equipment into the existing security system.

# RETAIL STORES

## 01 ENTRANCE

- CUSTOMERS COUNTING
- THERMAL IMAGING: CONTACTLESS TEMPERATURE MEASUREMENT FOR EMPLOYEES AND CUSTOMERS

## 02 CHECKOUT

- CASH OPERATIONS CONTROL

## 03 STORE AISLES

- CONTROL OF AVAILABILITY AND QUANTITY OF GOODS ON SHELVES

## 04 OFFICE

- VIDEO ANALYTICS CENTER
- BUSINESS ANALYTICS
- SECURITY

## 05 RESTRICTED AREA

- ACCESS CONTROL FOR EMPLOYEES

## 06 LOADING/UNLOADING AREA

- LOADING AND UNLOADING CONTROL



# WAREHOUSES AND LOGISTICS COMPANIES

Perimeter guard and employees' work supervision. We'll select the necessary equipment for each warehouse zone, whether it is loading, sorting, packing and other areas where control is required.






## 01 EMPLOYEES SUPERVISION AND THEFT PREVENTION

- ACCESS CONTROL SYSTEM (ACS)
- CONTROL OF EMPLOYEES COMPLIANCE WITH REGULATIONS
- ALCOHOL TESTING AND MEASUREMENT OF BODY TEMPERATURE OF EMPLOYEES AT THE CHECKPOINT



## 02 TRANSPORT SECURITY

-  AUTOMATIC RECOGNITION OF LICENSE PLATES FOR MANAGEMENT OF ENTRY TO AND EXIT FROM THE TERRITORY
-  LOADING AND UNLOADING CONTROL TO PREVENT THEFT AND BRIBERY
-  VEHICLE POSITIONING AND VIDEO REGISTRATION

## 03 FIRE SAFETY USING THERMAL IMAGING EQUIPMENT



## 04 SINGLE CONTROL CENTER FOR ALL SYSTEMS

Optimization of the number of personnel responsible for safety at the facility using video analytics :

- Perimeter border crossing control.
- Tracking violations and blocking false alarms.

\* It is possible to implement a comprehensive solution or integrate individual equipment into the existing security system..

# WAREHOUSES AND LOGISTICS COMPANIES

## 01 TERRITORY ENTRANCE

- LICENSE PLATE RECOGNITION SYSTEM
- ACS

## 02 CHECKPOINT WITH ACS

- TURNSTILES
- ALCOHOL TESTING
- FACE RECOGNITION
- THERMAL IMAGING COMPLEX:  
CONTACTLESS TEMPERATURE MEASUREMENT

## 03 PACKING/SORTING AREA

- PROCESS VIDEO SURVEILLANCE

## 04 ACCESS TO MONITORING CENTER

- ACCESS CONTROL SYSTEM

## 05 PERIMETER

- PERIMETER GUARD
- VIDEO SURVEILLANCE

## 06 MONITORING CENTER

- VIDEO SURVEILLANCE

## 07 WAREHOUSE

- VIDEO SURVEILLANCE

## 08 LOADING/UNLOADING AREA

- VIDEO SURVEILLANCE SYSTEM

## 09 PARKING AREA

- SPACE AVAILABILITY CONTROL



# INDUSTRY

Our solutions help control technological processes, employees and transport at industrial enterprises.

## 01 INDUSTRIAL SAFETY AND LABOR PROTECTION



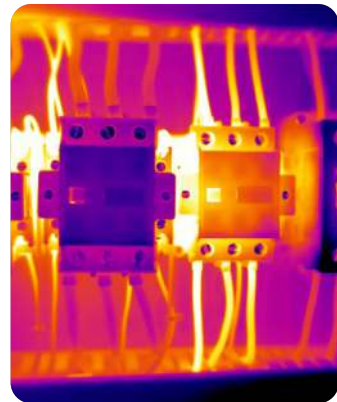
### MONITORING OF TECHNOLOGICAL PROCESSES:

Visual control of the production line and product quality monitoring.

Immediate response to problems and automatic adjustment of the conveyor operating mode.



### HAZARDOUS SUBSTANCES EMISSION CONTROL SYSTEM



## 02 FIRE SAFETY USING THERMAL IMAGING EQUIPMENT

- MONITORING OF FIRE HAZARDOUS AREAS OR FLAMMABLE OBJECTS - DETECTION OF TEMPERATURE RISE WITHOUT VISIBLE FIRE ON THE TERRITORY

## 03 TRANSPORT SECURITY



### VEHICLES CHECKPOINT:

Automatic recognition of license plates for management of entry to and exit from the territory.



### PEDESTRIANS CHECKPOINT:

Automatic measurement of employees body temperature, alcohol testing.



## 04 SITUATION CENTER FOR MONITORING AND CONTROL

- IMPLEMENTING TECHNOLOGIES OF ARTIFICIAL INTELLIGENCE AND MACHINE VISION
- CONTROL OF OPERATORS OF THE MONITORING CENTER, FOR EXAMPLE DECREASED PERFORMANCE
- OPTIMIZATION OF THE NUMBER OF PERSONNEL RESPONSIBLE FOR SAFETY AT THE FACILITY

# INDUSTRY

## 01 TRANSPORT ACCESS CONTROL SYSTEM

## 02 EMPLOYEES ACCESS CONTROL SYSTEM

- THERMAL IMAGING EQUIPMENT FOR TEMPERATURE CONTROL
- ALCOHOL TESTING
- FACE RECOGNITION SYSTEM

## 03 PERIMETER PROTECTION SYSTEM FOR HIGH-THREAT AREAS

## 04 CENTER FOR PROMPT MANAGEMENT OF SECURITY SYSTEMS

- VIDEO SURVEILLANCE
- INDUSTRIAL SAFETY
- TRANSPORT CONTROL
- SECURITY AND FIRE ALARM
- PERIMETER PROTECTION
- PROMPT RESPONSE TO INCIDENTS

## 05 TRANSPORT SAFETY

- VIDEO SURVEILLANCE SYSTEM

## 06 INDUSTRIAL SAFETY

- VIDEO SURVEILLANCE

## 07 PERIMETER PROTECTION SYSTEM

## 08 TERRITORY VIDEO SURVEILLANCE SYSTEM



## 09 HAZARDOUS SUBSTANCES EMISSION CONTROL SYSTEM

## 10 PROTECTION OF PERIMETER AND OPEN ENTRANCES TO THE TERRITORY

## 11 POSITIONING OF VEHICLES

- VIDEO SURVEILLANCE

# BUILDINGS

Implementation of security systems for office buildings, residential complexes, educational institutions, hospitals, government institutions and other commercial areas.



CLASSIC SAFETY SYSTEMS: PERIMETER AND FIRE PROTECTION



RECOGNITION OF LICENSE PLATES, PARKING SPACE AVAILABILITY CONTROL



IMPLEMENTATION OF DIFFERENT LEVELS OF ACCESS TO AREAS WITHIN THE SITE



DETECTING OF USING THE REQUIRED PPE AND VIOLATION OF THE SAFETY DISTANCE BETWEEN EMPLOYEES, BODY TEMPERATURE CONTROL UPON ENTERING THE TERRITORY

## SITUATION CENTER FOR MONITORING AND CONTROL



COMPARISON OF ACS DATA AND VIDEO ANALYTICS IN ORDER TO MINIMIZE THE HUMAN FACTOR



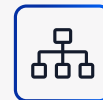
OPTIMIZATION OF THE NUMBER OF PERSONNEL RESPONSIBLE FOR SAFETY AT THE FACILITY



CONTROL OF OPERATORS OF THE MONITORING CENTER, FOR EXAMPLE DECREASED PERFORMANCE



AUTOMATIC DETECTION OF TYPICAL INCIDENTS AND REDUCTION OF RESPONSE TIME TO THREATS AND NON-STANDARD SITUATIONS



INTEGRATION OF ALL ENGINEERING SYSTEMS INTO A SINGLE INFORMATION INFRASTRUCTURE

\* It is possible to implement a comprehensive solution or integrate individual equipment into the existing security system.

# BUILDINGS

## 01 ACCESS FOR VEHICLES

- ACCESS CONTROL SYSTEM FOR VEHICLES

## 02 PARKING

- SPACE AVAILABILITY CONTROL

## 03 TERRITORY ENTRANCE

- ACCESS CONTROL SYSTEM
- THERMAL IMAGING EQUIPMENT FOR BODY TEMPERATURE CONTROL
- BIOMETRICS / FACIAL RECOGNITION SYSTEM

## 04 CENTER FOR MONITORING AND CONTROL OF SECURITY SYSTEMS

- VIDEO SURVEILLANCE
- ACCESS CONTROL SYSTEM FOR VEHICLES
- ACCESS CONTROL SYSTEM FOR EMPLOYEES AND CUSTOMERS
- FIRE AND SECURITY ALARM
- PERIMETER GUARD

## 05 OFFICES AND OPEN AREAS

- VIDEO SURVEILLANCE SYSTEM
- BIOMETRICS / FACIAL RECOGNITION SYSTEM
- FIRE AND SECURITY ALARM



## HOW WE WORK



### SITE SURVEY

- Analysis of existing equipment and assessment of the possibility of integration and refinement of the existing security system.
- Examination of the site in terms of technical feasibility of technical security system implementation from scratch.

# 01



### EQUIPMENT SUPPLY

We work with the equipment and software from companies: DAHUA, UNIVIEW, H3C, ISS, HITRON, IDIS etc. Equipment meets all up-to-date security systems requirements. We can offer equipment at special prices, with a possibility to fix the exchange rates and other advantages.

# 04



### SOLUTION SELECTION

Based on the data obtained at the site survey stage, our analysts will select the best solution depending on the client's needs. Specialists from Deletron Competence Center will provide several solutions that will help reduce the company's costs related to equipment or works.

# 02



### INSTALLATION

We perform all types of installation and commissioning works on security systems of any complexity. Our qualified specialists have completed all the necessary trainings and have standard certification.

# 05



### DESIGN

Design engineers prepare the project for your company based on the selected solution in compliance with all GOST standards and regulations.

# 03



### MAINTENANCE

We carry out maintenance and support of the implemented design solutions, organizational and technical measures for conducting preventive inspections, developed taking into account the requirements of the Fire Safety Regulations of the Russian Federation, SNiP (Construction Regulations), GOSTs and instructions of the manufacturers of the equipment used.

# 06

# OUR COMPANY



**150+**

EMPLOYEES



**10 000 SKU**

EQUIPMENT ITEMS



**16**

REGIONS OF SERVICE



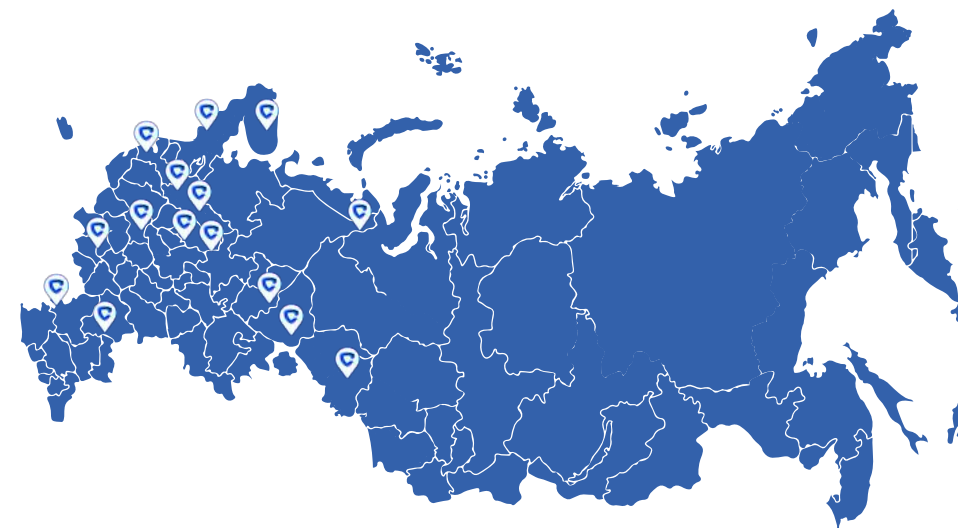
**15 YEARS**

AVERAGE EMPLOYEES' EXPERIENCE IN SECURITY



**R&D**

OWN COMPETENCE CENTER



- MOSCOW
- SVERDLOVSK REGION
- VOLGOGRAD
- KOSTROMA
- TYUMEN
- VOLOGDA REGION
- VORKUTA
- KOSTOMUKSHA
- PERM KRAI
- SAINT-PETERSBURG
- TAGANROG
- OLENEGORSK
- CHEREPOVETS
- OREL

Deletron LLC was established in August 2019. The founder, PAO Severstal, strove to use in its work the best world practices in the field of technical means of security, to attract qualified specialists to work and to reduce the costs of introducing security systems.

The company employed specialists in the design, installation and maintenance of engineering and technical security equipment, who at that time already had 10 years of work experience at the enterprises of the PAO Severstal group of companies.

## OUR CLIENTS



### TOUR OPERATOR TUI GROUP

- We modernized and re-equipped the video surveillance system and ACS.



### GOLD MINING COMPANY NORDGOLD

- We installed video surveillance systems and are now providing maintenance.



### BIRCH PLYWOOD MANUFACTURER SVEZA

- Delivered and installed thermal imaging equipment, security and fire alarms, installed an access control system and a video surveillance system, designed a solution for the introduction of artificial intelligence technology to assess the quality of raw materials acceptance, took the facility for maintenance.



### CHEREPOVETS STEEL MILL

- We have implemented a comprehensive security system with a Monitoring center, video surveillance, thermal imaging control, ACS, perimeter security, fire alarms, and alcohol testing.



### GOODS DELIVERY SERVICE UTKONOS

- We designed, supplied equipment and equipped a warehouse of 105,000 m2 with an integrated security system with three types of storage temperatures.



### RETAIL CHAIN LENTA

- Introduced face ID and video surveillance system.
- Installed equipment.
- Performed commissioning works.

# FEEDBACK



## ООО «SVEZA-LES»

Popov V.A., Director of Business support

On behalf of SVEZA-LES, we express our gratitude for the maintenance and repair, organization of video surveillance systems, and access control systems, as well as delivery, installation, and launching thermal imaging equipment in the shortest possible terms during the COVID-19 pandemic. We appreciate your professionalism and individual approach to clients.



## ООО «LENTA»

Ivanov D.A., Director of the store

In April 2020, within the framework of a pilot project, employees of your company performed pilot testing of video surveillance systems with the face recognition function in store 24 of Lenta chain (Cherepovets, 2 Sheksninsky prospect).

During the testing period, using these systems, persons who had previously violated regulations of the store were identified.



## АО «SEVERSTAL MANAGEMENT»

Artyukhin A.L., Administrative Director

Severstal Management expresses its sincere gratitude to Deletron LLC for the development and implementation of security solutions for our company, some of them during the COVID-19 pandemic!

The result of the work was a streamlined access control and management system with a face recognition system (Face ID), which allowed employees to almost completely abandon plastic access cards.



## NORDGOLD

Guzeev D.V., General Director

On behalf of Nordgold we would like to express our gratitude to you and the experts of Deletron LLC who are involved in the maintenance and repair work at the company's enterprises: Nordgold Management, Neryungri-Metallik mines, Taborny mine, Berezitovy mine.

High professionalism and responsible attitude of the employees of your organization have increased the reliability and safety of security systems equipment operation.



## R&D CENTER

Deletron LLC is one of the few companies in the security systems industry that has its own R&D Center.

Our R&D specialists monitor and analyze new solutions in the market of technical security systems used for various business sectors, including those based on artificial intelligence technology, for decision making on cooperation with equipment and software suppliers.

The Center employs leading analysts and technical specialists who are engaged in the search for optimal technical solutions for non-standard and complex tasks, as well as consulting, inspections of facilities, and design of project documentation.



DELETRON LLC HAS ITS OWN R&D CENTER



CENTER EMPLOYS LEADING ANALYSTS AND TECHNICAL SPECIALISTS



## THANK YOU FOR READING OUR PRESENTATION

Should you have any questions, please, don't  
hesitate to contact us:

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