VOZROZHDENIE LLC

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APPROVED BY

B3P.248100.000LU

GATE
MODELK-14

B3P.248100.000OM
OPERATION MANUAL

32 sheets

2020

CONTENTS

This Operation Manual (OM) applies to Oxgard gate K-14 and its modifications (hereinafter referred to as the product).

The manufacturer reserves the right to change configuration, technical characteristics and appearance of the product without further notice.

Before using the product, please read B3P.248100.000 Logbook (LB) as well.

This OM is a document certifying the product's basic parameters and characteristics guaranteed by the manufacturer.

The Operation Manual is intended to instruct the user on the principle of operation, structure of the product to correctly operate the product, fully utilize its technical capabilities and maintain its constant readiness for operation.

1 DESCRIPTION AND OPERATION

1.1 Product description and operation

1.1.1 Gate Oxgard K-14 motorized is designed to control access and manage people traffic.

The product can be used at checkpoints of enterprises, organizations and banks, in educational institutions, sports and entertainment facilities, shops, terminal stations and other institutions.

1.1.2 The structural components of the product are detailed in Table 1.

Table 1 – Product components

Product designation	Product name	Quantity	Note
Gate	K-14	1	
Control panel (CP)	Universal control panel Praktika	1	
Power supply source*	the ACS and OPS cables		
Barrier section set*	Praktika barrier		

Note - Product components marked with (*) are optional.

1.1.3 The product specifications are given in Table 2.

Table 2 – Product specifications

Parameter	Value
Overall dimensions of the gate with glass (W×H×L) depending on the passage-way width, mm: - 600 mm - 800 mm - 900 mm - 1000 mm - 1200 mm	 800x1140x264 1000x1140x264 1100x1140x264 1200x1140x264 1400x1140x264
Overall dimensions of the gate with a metal tube flap (W×H×L) depending on the passage-way width, mm: - 600 mm - 900 mm - 1000 mm - 1200 mm	 810x1140x264 1110x1140x264 1210x1140x264 1410x1140x264
Weight of the gate with glass, kg at passage-way width, mm: - 600 mm - 800 mm - 900 mm - 1000 mm - 1200 mm	 50,0 54,0 56,0 58,0 62,0
Weight of the gate with a metal tube flap, kg at passage-way width, mm: - 600 mm - 900 mm - 1000 mm - 1200 mm	 50,0 56,0 58,0 62,0
Temperature range, °C: - operation - transportation and storage	 +1...+40 +1...+40
Relative humidity, %, max.	80
Width of formed passage, mm	600-1200

Throughput, pers./ min	10
Service life, years	8
Supplied voltage, V - rated - operational	 24,0 19,0...29,0
Average current in standby mode*, A	0,4
Average current in passage mode*, A	0,5
Maximum consumption current*, A	8,0

Note - * Values of current are given for rated supply voltage

ATTENTION: THE CAPACITY DATA WERE OBTAINED IN EXPERIMENTAL TESTING AT 600 MM FLAP, WITH NO PAUSES BETWEEN OPENING AND CLOSING.

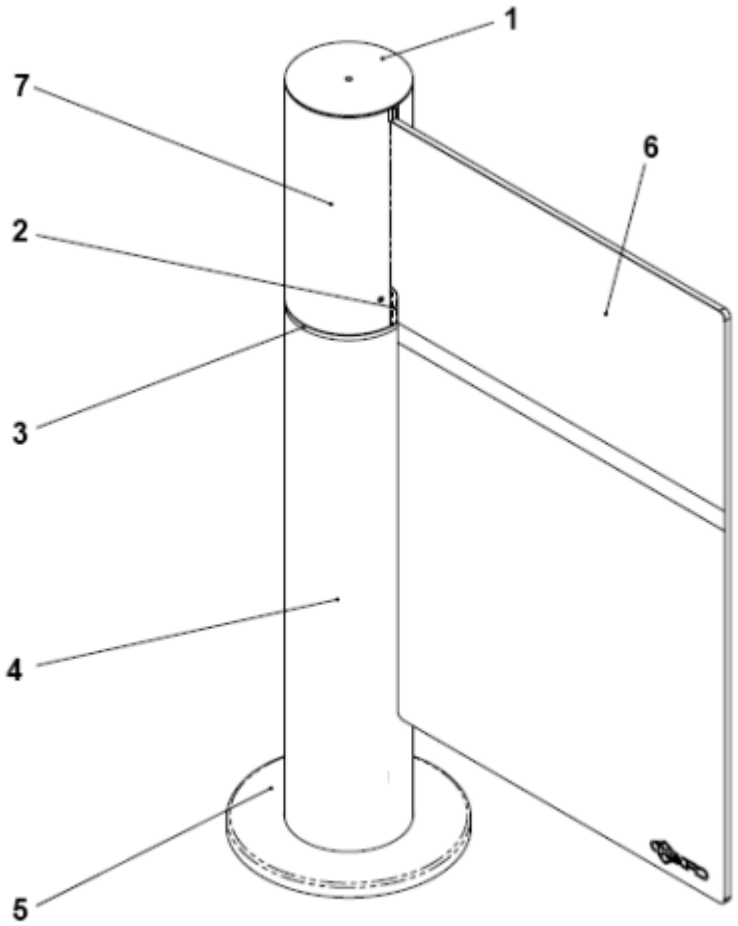
1.1.4 Product structure.

All gate structure members are made of polished stainless steel, the flap is made of hardened glass.

The gate includes a stationary stand with an enclosure, floor mounting cup, indication panel, upper rotary enclosure with electric drive and glass flap.

Gate flap rotation at 180° (+90°-90°) is available.

Figure 1 – gate overall view.



1 – Cover; 2 – Insert; 3 – Indication panel; 4 – Body enclosure; 5 – Cup; 6 – Glass; 7 – Upper enclosure; 8 – Motherboard location

Figure 1 – Gate overall view

1.1.5 Overall dimensions

Figure 2 – gate overall dimensions for passage-way width of 600 mm.

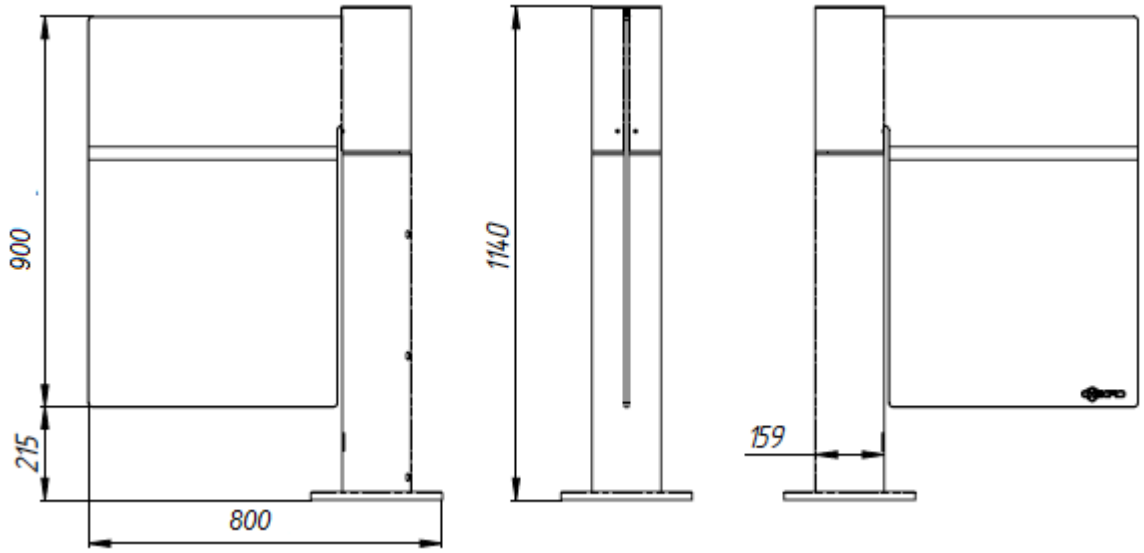


Figure 2 – Gate overall dimensions for passage-way width of 600 mm

1.1.6 Marking contains manufacturer's trademark, designation and serial number.

1.1.7 Overall dimensions of packing case.

Gate overall dimensions with glass, mm:

1) Gate with passage-way width of 600 mm – 940x685x110;
2) Gate with passage-way width of 800 mm – 985x940x110;
3) Gate with passage-way width of 900 mm – 985x940x110;
4) Gate with passage-way width of 1000 mm – 1080x940x110;
5) Gate with passage-way width of 1200 mm – 1220x940x110.

1.2 Product indication panel

The gate has a three-color indication(Figure 1 – 3, indication panel):

1) Green – passage is permitted (flap open);
2) Red – passage is forbidden (flap closed);
3) Yellow-green – powering initialization mode (during power supply).

2 INTENDED USE

2.1 Operating limits

 **ATTENTION:** FAILURE TO COMPLY WITH THE SAFETY REQUIREMENTS SPECIFIED IN THIS SECTION CAN RESULT IN DEATH AND DAMAGE TO HEALTH, COMPLETE OR PARTIAL LOSS OF PERFORMANCE OF THE PRODUCT AND/OR AUXILIARY EQUIPMENT.

 **ATTENTION:** THE PRODUCT SHALL BE INSTALLED BY QUALIFIED PERSONNEL IN ACCORDANCE WITH INSTALLATION MANUAL

 **ATTENTION:** THE CONTROL PANEL WORKS ONLY AT A DISTANCE OF 5 METERS FROM THE GATE. THIS IS THE DISTANCE OF THE STANDARD CABLE SUPPLIED WITH THE GATE.

 **ATTENTION:** MANUFACTURER WAIVES ANY RESPONSIBILITY FOR DEATH AND DAMAGE TO HEALTH, COMPLETE OR PARTIAL LOSS OF PERFORMANCE OF THE PRODUCT AND/OR AUXILIARY EQUIPMENT IF USER FAILS TO COMPLY WITH THE SAFETY REQUIREMENTS SPECIFIED IN THIS SECTION, AND ALSO VOIDS THE PRODUCT WARRANTY.

 **DO NOT:**

INSTALL THE POWER SUPPLY MODULE INSIDE THE PRODUCT BODY AS IT MAY RESULT IN ELECTRIC SHOCK TO PERSONS.

INSTALL THE PRODUCT OUTSIDE DRY AND HEATED ROOMS.

OBSTRUCT OR ACCELERATE THE PRODUCT FLAP MOVEMENT WHEN TURNING ON (OFF) THE ANTI-PANIC MODE.

APPLY PASTES AND LIQUIDS CHEMICALLY AGGRESSIVE TO MATERIALS OF THE HOUSING WHEN CLEANING THE PRODUCT.

2.2 Preparing the product for use

2.2.1 Safety measures during product preparation

 **ATTENTION:** TO AVOID INJURIES TO PERSONS AND PRODUCT BLOCKING, MAKE SURE THAT THERE ARE NO PERSONS AND FOREIGN OBJECTS WITHIN THE FLAP ROTATION AREA PRIOR TO THE PRODUCT CONNECTION.

2.2.2 Rules and procedures for visual inspection of the product

Visual inspection of the product before connecting to the mains shall be obligatory and include:

1) check for product housing mechanical damage: cracks, through holes resulted from fasteners drop-out;

2) thorough inspection of all connections of the product.

2.2.3 Turning on the product.

Connect the PSU to ~220 volts mains and turn it on. When turned on, the indication panel lights in yellow-green, calibration takes place. The product flap

shifts to the end position (the indication panel is displayed in red – stop mode). Calibration is complete, the product is ready to work.

When turning the product on, make sure that the control panel is working at the required data transfer rate of 1 Mbit.

If the panel is set correctly to 1 Mbit, when the gate turns on, all LEDs shall light on the panel, and the gate shall start calibration: the gate flap opens and moves to the end position, then goes to the middle position. Then, press the STOP button, all buttons except STOP will go out. Gate is ready for operation.

If the panel is set incorrectly (wrong frequency), the buttons will not light up when you turn on the gate. Set the panel to a different frequency. To do this:

1) Turn the gate power on;

2) Press and hold left (1) and right (3) buttons until the LEDs on the left (1) and right (3) buttons blink.

3) Press and release the stop (2) button.

4) Press and release the right (1) button.

5) Press and release the anti-panic (2) button a few times until indication on the gate lights up.

6) Reload the gate. All buttons on the panel will light up. Then, press and release the STOP button.

ATTENTION: There is a new panel modification where it will beep three times when connected to the gate, and set the required panel rate.

2.2.4 Control panel settings

Figure 3 – CP appearance. The product can be installed in different ways relative to the user. In some cases, it is necessary to swap left/right passage buttons. This can be done using the following procedure:

1) Turn power on;

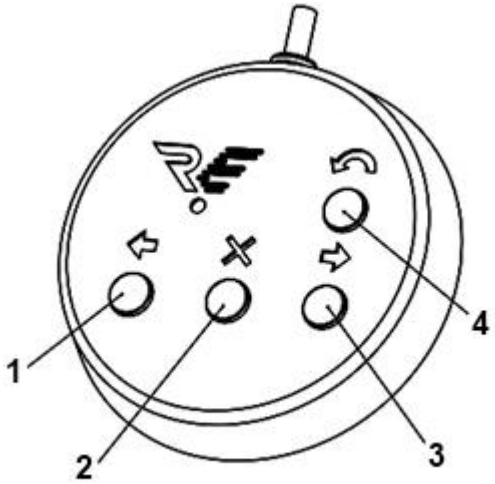
2) Press and hold **left** (1) and **right** (3) buttons until the LEDs on the **left** (1) and **right** (3) buttons blink. Turn power on;

3) Press and release the **stop** (2) button;

4) Press and release the **left** button (1).

Now when LEFT button is pressed, it will be allowed to pass to the right and vice versa. Current button assignment is stored and not reset when the power is turned off. To return to the initial setting, repeat the above sequence of operations.

Figure 3 – control buttons 1 (LEFT), 2 (STOP), 3 (RIGHT), 4 (ANTI-PANIC) and LED indicators of the product operating modes.



1 – left; 2 – stop; 3 – right; 4 - anti-panic

Figure 3 – Control panel appearance

2.3 Product operation

2.3.1 Product operating modes

Product can operate in several modes. Desired mode can be enabled using the CP or ACS. The indication of the operation modes is displayed on the panel in the form of mnemonic signs depicting authorization and non-authorization of passage. The product operation on the ACS basis is described in the IM.

2.3.2 Product operation from the control panel

Figure 3 – over every product button.

Gate calibration mode

The gate calibration mode starts every time the gate is turned on. In this mode, the gate's LED indication lights up in yellow color, the gate flap is driven clockwise until the variable inductance transducer actuates, then the flap moves to the middle position.

STOP mode

The "STOP" mode is set when the product is turned on. For switching to the STOP mode from any other mode, press button 2; the LED indicator over button 2 lights red. The passage in either direction is prohibited in this mode.

LED indication lights in red.

The gate glass may be deflected from its initial position to a small angle, within 5 degrees.

One-time passage mode

Button 1 (3) enables one-time passage mode to the left (right). When this mode is enabled, one pass to the left (right) will be allowed, followed by entering

the STOP mode. LED indication lights in green. The gate will open to the preset side.

On the CP, the LED indicator lights green over the permitted passage direction button and red over button 2. If a pass has not been completed within 10 seconds, the product is automatically switched to "STOP" mode.

Antipanic mode

For switching to this mode from any mode, press button 4.

LED indicator of control panel over button 4 lights yellow. LED indication blinks in green.

On the command, the gate goes to the position determined by J2, and remains in that position for 20 minutes, then returns to the closed position.

Gate operation in emergency situations:

If any object obstructs the flap movement during gate closure, the flap will lightly hit it three times, then return to the position where it started movement.

If you try an unauthorized opening of the gate in the “Stop” mode in any direction, the gate will not let you do it, and indication will be blinking in red.

2.4 Emergency procedures

To open passageway in emergency situation, use the ANTI-PANIC mode: in this mode, the product flap will be open and passageway will be free.

ATTENTION: WHEN OPERATING THE PRODUCT, NOTE THAT ELECTRIC CIRCUIT CAN BE A SOURCE OF FIRE DANGER IN CASE OF SHORT CIRCUIT, INSULATION BREAKDOWN AND SPARKING.

In case of fire, switch external power supply off. Use powder extinguishers to extinguish fire in the product, wiring and cables.

3 MAINTENANCE

3.1 General Provisions

Maintenance (hereinafter referred to as MNT) of the product shall be carried out in accordance with this Operation Manual.

3.1.1 To maintain product performance and ensure design service life, periodical in-service product MNT shall be performed, including during warranty period.

3.1.2 Scheduled maintenance shall be performed once a year. If a fault occurs, maintenance should be performed immediately after troubleshooting.

3.1.3 Maintenance is recommended to be performed by two persons who are qualified mechanical and electromechanical specialists (or electricians), at least category 3, and who have read and understood this Operation Manual.

3.2 Safety precautions

When performing maintenance, safety measures shall be observed. Maintenance shall be performed by specially trained technical personnel.

DO NOT:

PERFORM ANY WORK WITH THE PRODUCT POWER ON. FAILURE TO COMPLY WITH THESE SAFETY REQUIREMENTS CAN RESULT IN DEATH AND DAMAGE TO HEALTH, COMPLETE OR PARTIAL LOSS OF PERFORMANCE OF THE PRODUCT AND/OR AUXILIARY EQUIPMENT.

REMOVE ELECTRIC BOARD FROM ITS MOUNTS. OTHERWISE, THE MANUFACTURER'S WARRANTY WILL BE VOID.

3.3 Product maintenance procedure

Maintenance includes the following scope of work:

1) visual inspection of the product condition;
2) checking the fastening of product parts and components;
3) general check of the product operation.

3.4 Visual inspection of the product

3.4.1 Visually inspect the product. There should not be visible damage on the product.

3.5 Checking the product components

3.5.1 Clean the load-bearing frame from dirt.

3.5.2 Check that all cables are securely attached.

3.5.3 Check threaded connections of the product components; tighten, where necessary.

3.6 Product functional check

For functional check, perform several test passes.

If no any abnormal noises and operational disturbances are detected, the product is ready for operation.

If any defects in the product components are found during the product MNT, we recommend to contact service department for advice.

List of addresses of official distributors and service centers is given in Appendix A and is also available on website: www.oxgard.ru

4 ROUTINE REPAIRS

4.1 Routine repairs of the product

No routine repairs are provided for the product. When any fault listed in Table 3 occurs, follow the procedures below.

Table 3 – Typical product malfunctions

Malfunction	Action
PSU is connected, but product does not work	Check if the cables are connected correctly; Check the fuse on the motherboard.
The CP doesn't work	Check if CP is connected correctly. If +24 and GND terminals are connected correctly, try to swap the CL and CH terminals.

When any other problems occur, contact the service department.

4.2 Routine repairs of the product components

Routine repairs of the product components shall be carried out by replacing faulty parts with known good ones.

When such replacement is impractical or there are no known good components available for the product, a proprietary repair method shall be used.

4.3 Malfunctions during warranty period

When malfunction occurs during warranty period (Logbook B3P.248100.000 (LB)), please send a claim to the manufacturer. To do this:

1) prepare a technically substantiated Claim Report;
2) make extracts from the LB section "Repair".
3) make extracts from the LB section "Preservation".

5 STORAGE

The product shall be stored in dry (without moisture condensation) heated rooms at a temperature from +1 to + 40°C. The storage room should be free of acid or alkali vapors, or corrosive gases.

The short time product storage in original package shall be permitted for maximum 3 days in dry unheated rooms and enclosed transport bodies.

After storage in unheated rooms, prior to commissioning, the product shall be kept in a room with normal climatic conditions for 12 hours.

6 TRANSPORTATION

The product in the original package can be transported without limiting the range by air, closed motor road and rail transport provided it is protected against direct exposure to precipitation and dust.

When transporting and storing products on Euro pallets, it is allowed to stack boxes in 2 rows.

Loading and unloading operations should be carried out in compliance with safety regulations.

7 DISPOSAL

Upon expiry of its service life, the product shall be disposed along with its components.

Examples of such disposal can be product disassembly (dismantling) and sorting its components into groups of similar parts, converting the product into a learning aid or using for purposes other than intended use.

APPENDIX A — DISTRIBUTORS AND SERVICE CENTERS

Lists of official distributors and service centers are given in Tables 4-5 and are constantly updated. The latest information is available at website www.oxgard.com.

Table 4 – Distributors and service centers in Russia

No.	Company	Contact details	Status
1	Eliks trading house	107023, Moscow, 3, M. Semyonovskaya str., (Elektrozavodskaya metro station) 7(495)725–66–80 www.elics.ru, elics@elics.ru	Distributor Service center Warehouse
2	Luis + LLC	125040, Moscow, Center, 1st Street Yamskogo Polya, 28 7(495)637–63–17 , 7(495)280–77–50 www.luis.ru luis@luis.ru	Distributor Warehouse
3	Luis + LLC	192029, 70-3A, Obukhovskoy Oborony Ave. Saint-Petersburg, 7 (812) 331–40–41; www.luis.ru luis-spb@luis-spb.ru	Distributor Warehouse
4	Luis + LLC	400081, Volgograd, Bureyskaya str., 7 7 (8442) 43–97–98 www.luis.ru info@luis-don.ru	Distributor Warehouse
5	Luis + LLC	620100, 12, p. 6, Sibirsky trakt str., Yekaterinburg, 7 (343) 298–20–28 www.luis.ru info@luis-ural.ru	Distributor Warehouse
6	Luis + LLC	350051, Krasnodar, Dalnaya str., 2 7 (861) 273–99–03 www.luis.ru info@luis-don.ru	Distributor Warehouse
7	Luis + LLC	420059, apt.1, 128 Orenburg tract, Kazan, Republic of Tatarstan 7 (843) 204–22–33 www.luis.ru luis@luis.ru	Distributor Warehouse

No.	Company	Contact details	Status
8	Luis + LLC	603086, Nizhny Novgorod, Manufakturnaya str., 14, room 1 7 (831) 214 –71–17 www.luis.ru luis@luis.ru	Distributor Warehouse
9	Luis + LLC	630007, 10 Fabrichnaya str., Novosibirsk, 7 (383) 285–33–77 www.luis.ru luis@luis.ru	Distributor Warehouse
10	Luis + LLC	614064 Perm, Chkalov str., 7a 7 (342) 206–07–47 www.luis.ru luis@luis.ru	Distributor Warehouse
11	Luis + LLC	344029, Rostov-on-don, Menzhinsky str., 4 7 (863) 261–82–10 www.luis.ru info@luis-don.ru	Distributor Warehouse
12	Luis + LLC	443028, 18 km of Moscow highway, Samara, 7 (846) 203–04–24 www.luis.ru samara@luis.ru	Distributor Warehouse
13	Luis + LLC	625048, Tyumen, Ervye str., 9 7 (3452) 48–95–20 7 (3452)48–95–40 7 (3452)48–95–35 www.luis.ru samara@luis.ru	Distributor Warehouse
14	Luis + LLC	454090, Chelyabinsk, Lenin Ave., 35 7 (351) 220–00–72 www.luis.ru luis@luis.ru	Distributor Warehouse
15	Layta trading house	410056, Saratov, Ulyanovskaya str., 17A 7 (8452) 392–057, 7 (8452) 735–575 7 (8452) 524–586 www.layta.ru info@layta.ru	Dealer
16	Layta trading house	355000, Stavropol, Pirogova str. 20 A 7 (8652) 550–111 7(8652) 551–529 7 (8652) 552–311 7 (8652) 552–411 7 (8652) 553–211 www.layta.ru info@layta.ru	Dealer
17	Bezopasnost	Moscow, 12-th Parkovaya str., 5 7(495)150-10-71 (multi-channel) sales@podkontrolem.ru www.podcontrolem.ru	Dealer Service center
18	Pocketkey	123290, Moscow, Prichalny driveway, 8, building 1, room 502 7(495) 107-09-10 hello@pocketkey.ru www.pocketkey.ru	Dealer

No.	Company	Contact details	Status
19	Revelin LLC	Professor Popov str., 4 7(812) 327-50-32 ravelin@ravelinspb.ru, www.ravelinspb.ru	Dealer Service center
20	Corporate Business Systems	123181, Moscow, 33 Isakovsky str., bldg. 3 7(495) 234-68-51 www.cbs-group.ru sales@cbs-group.ru	Dealer Service center
21	Corporate Business Systems	344002, 8-10, 34, Solyanoy spusk lane, Rostov-on-don, 7(495) 234-68-52 www.cbs-group.ru sales@cbs-group.ru	Dealer Service center
22	Inforser Group of companies (Unified System Technologies)	109428, Moscow, Ryazansky ave, 24, building 2 7(495)660 17 33 www.inforser.ru	Dealer Service center
23	Benar	14, Neftyanaya, Khabarovsk, 8 962 587 11 69 бенар.рф sales@khab-tech.ru	Dealer Service center
24	ATM	Saint Petersburg, Shosse Revolyutsii, 31 7 (812) 640-85-84 7 (812) 655-62-05 www.atmcompany.ru info@atmcompany.ru	Dealer
25	CJSC Center for Security Systems	195197, Saint Petersburg, Polyustrovsky Ave., 32 Lit. K, office 201 7 (812) 240-31-00 market@cesb.ru ,http://www.cesb.ru/	Dealer
26	OOO SMNP-3	Magadan, Gorkogo str. 8 7 (41322)307 47 fuks@smnp-3.ru	Dealer Service center
27	IT-solutions for business	236009, Kaliningrad, Krasnokamennaya str., 42 7 (4012) 33-79-18 7 (4012) 76-79-18 it@it-sb.ru	Dealer
28	Intellectual systems	394006, Voronezh, Chelyuskintsev str., 145 7 (473) 250-20-01 inbox@int-sys.ru	Dealer
29	Intellectual systems	398026, office 307, 2 Zhelyabova str., Lipetsk, Lipetsk region, 7 (4742) 51-58-77 inbox@int-sys.ru	Dealer
30	Layta trading house	111141, 3rd floor, business center "Perovo Polye", 8 3rd Proezd Perova Polya, metro station "Perovo", Moscow, 7(495) 708-42-13 www.tinko.ru tinko@tinko.ru	Sub-dealer

No.	Company	Contact details	Status
31	OOO Satro-Paladin	129515, Moscow, Kondratyuka str., 9, bld. 1 7 (831) 272–55–75 7 (831)412–93–11 www.satro-paladin.com dir@nn.satro-paladin.com	Dealer
32	OOO Satro-Paladin	603070, Nizhny Novgorod, Meshchersky ave, 7, bld. 3, office 10 7 (831) 272–55–75 7 (831)412–93–11 www.satro-paladin.com dir@nn.satro-paladin.com	Dealer
33	OOO Satro-Paladin	400009, Volgograd, Tarifnaya str., 13 7 (8442) 56–49–94 7 (8442)71–08–01 7 (8442)76–56–29 www.satro-paladin.com dir@nn.satro-paladin.com	Dealer
34	OOO Videoglaz Center	105187, Moscow, Volnaya str., 35, p. 19 7–(495)–280–71–70 www.videoglaz.ru zakaz@videoglaz.ru	Dealer
35	Videoglaz	Saint Petersburg, 3rd floor, 266B Ligovsky Prospekt, 7(812)245-28-24 www.videoglaz.ru zakaz@videoglaz.ru	Dealer
36	Birzha LLC	109052, Moscow, Nizhegorodskaya str., 29-33, bld. 32, office 402 7 (495) 229-45-15 www.global-id.ru info@global-id.ru	Dealer
37	OOO STELS	Amur region, Blagoveshchensk, Artilleriyskaya str., 17 7 (4162) 777–888 7 (4162) 525–777 7 (4162) 519–777 www.global-id.ru ctb@stels-amur.ru sale@stels-amur.ru	Dealer Service center Warehouse
37	"Complex security systems" Group of companies	Vladikavkaz, Kolka Kesaeva str., 3 7 (8672) 40–35–4 7 (8672)40–58–94 www.ksb-rso.ru ksb-rso@mail.ru	Dealer Service center
39	OOO Profbezopasnost	Sochi, Roses str., 115/1 7 (800) 700-51-90 www.profbez.pro info@profbez.pro sale@profbez.pro	Dealer Service center
40	OOO APL	Saint Petersburg, 9-th Sovetskaya str., 4, office 312 7 (812) 401 63 34, 7 921 55 111 01 www.aplspb.ru info@aplspb.ru	Dealer Service center

No.	Company	Contact details	Status
41	ALPRO	Address: 194100, Saint Petersburg, Bolshoy Sampsonievsky Ave., 70, lit. "V", office 3N, POLAR Business Center 7 (812) 702-17-52 www.alpro.ru sales@alpro.ru	Dealer
42	OOO InfoTekh	Saint Petersburg, Moskovsky ave., 103/3 7 (812) 327 95 10 7 (812)327 95 06 www.infotec.ru contact@infotec.ru	Dealer
43	OOO ForTreid	196105, Saint Petersburg, Lyubotinsky ave., 5 LIT "B" office 310 8 (812) 309-58-53 www.fteq.ru 4trade@fteq.ru	Dealer
44	OOO “Grumant corporation”	630123, 27A Krasnogorskaya str., Novosibirsk 8 (383) 210–352–353 www.grumant.ru info@grumant.ru	Dealer
45	OOO “Grumant corporation”	107553, office 118, 25 1st Pugachevskaya str., Moscow 7 (495)783-29-60 7 (499)161-06-91. www.grumant.ru mf@grumant.ru	Dealer
46	OOO “Grumant corporation”	299038, Crimea, Sevastopol, Kolobova str., 35 / 4 7 (978) 744 38-86 7 (978) 744-38-59 www.grumant.ru krim1@grumant.ru krim2@grumant.ru	Dealer
47	OOO ModusTreid	644046, Omsk, Mayakovsky str., 14 7 (3812) 51-00-93 7 (3812) 51-07-29	Dealer

Table 5 – Foreign distributors and service centers

No.	Company	Contact details	Status

No.	Company	Contact details	Status
1	VZR System OU	Tulika tn 19, Tallinn 372 5844 4957 8 921 996 2746 www.vzrsystem.ee info@vzrsystem.ee	Distributor Warehouse
2	VZR System OU	39 39 95183 Feilitzsch-Zedtwitz Deutschland 372 5844 4957 8 921 996 2746 49 9281 140 11 65 49 928 1 140 11 16 www.multitrans.net ksemjonow@multitrans.net ue@multitrans.net	Distributor Warehouse
3	ТОО "ТД INTANT"	Republic of Kazakhstan, Almaty, Muratbayev str., 61 7 (727) 225–35–35 7 (727) 220–95–31 www. security.intant.kz intant@intant.net	Dealer Warehouse
4	«A+A Security» MMC	AZ1110, Azerbaijan, Baku city, Akhmad Bay Aga oglu str. 24B 8 (+994 12) 496-00-56 www.aasecurity.az info@aplusa-security.com	Dealer
5	Victiana S.R.L. (Videosecurity Moldova)	The Republic of Moldova, Chisinau, Hajdeu str., 66/3 373 (22) 876-000 373 (22) 876-001 www.videosecurity.md info@videosecurity.md	Dealer
6	Unitary enterprise "Security and Safety Systems"	Minsk, Petra Glebki str., 1 375 (17) 390-66-66 (multi-channel) Mob.: +375 (33) 340-11-11 (MTS) www.sob.by info@sob.by	Dealer Service center
7	OÜ Almasel	Mustamäe tee 102-106 Tallinn Harjumaa 12917 Tel +372 59192909 info@almasel.com	Service center

ABBREVIATIONS

The following abbreviations are used in this document:

LB — Logbook;

OM — Operation Manual;

IM — Installation Manual;

PSU - power supply unit;

CP - control panel;

ACS - access control system;

MNT — maintenance.

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ВОЗРОЖДЕНИЕ
ЗАВОД МЕТАЛЛОИЗДЕЛИЙ