



VOZROZHDENIE LLC

OKPD 27.90.40.190

ТУ 27.90.40-001-33120038-2018

APPROVED BY

B3P.2499-00.00.000LU

GATE MODELK-17

B3P.2499-00.00.000OM OPERATION MANUAL

32 sheets

2020

CONTENTS

1	Description and operation	4
1.1	Product description and operation	4
1.2	Product color indication	8
2	Intended use	9
2.1	Operating limits	9
2.2	Preparing the product for use	10
2.3	Product operation	13
2.4	Emergency procedures	14
3	Maintenance	16
3.1	General Provisions	16
3.2	Safety precautions.....	16
3.3	Product maintenance procedure.....	17
3.4	Visual inspection of the product.....	18
3.5	Checking the product components	18
3.6	Product functional check	18
4	Routine repairs	19
4.1	Routine repairs of the product	19
4.2	Routine repairs of the product components	19
4.3	Malfunctions during warranty period	19
5	Storage	20
6	Transportation	21
7	Disposal	22
	APPENDIX A — Distributors and service centers	23
	Abbreviations	29

This Operation Manual (OM) applies to Oxgard gate K-17 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.2499.00.00.000 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 Electromechanically locked reversible Калитка Oxgard K-17 gate is intended for the access control and human flow management.

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-17	1	
Power supply source*		1	
Barrier section set*	Praktika barrier	1	



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

Individual features of the product's modifications:

1.1.3 The product specifications are given in Table 2.

Table 2 – Product specifications

Parameter	Value
Overall dimensions (W×H×L) depending on the passage-way width, mm: - 870 mm - 930 mm	870x993x145 930x993x145
Weight, kg	20,0
Temperature range, °C: - operation - transportation and storage	+1...+40 +1...+40
Relative humidity, %, max.	80
Service life, years	8
Supplied voltage, V - rated - working	24,0 21,6...26,4
Maximum consumed current*, A	3,5



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

1.1.4 Product structure.

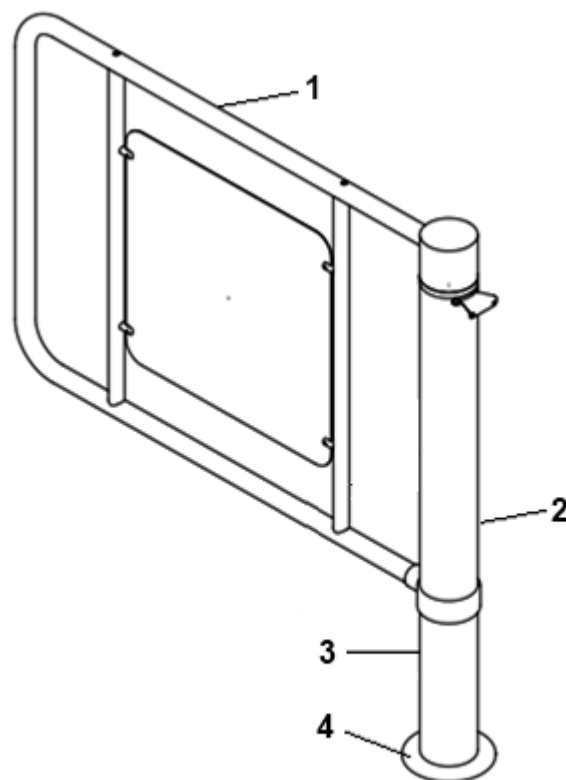
All gate structure members are made of polished stainless steel.

A gate consists of fixed post designed as pipe with flange anchored to floor and hinged flap designed as cylindrical head with the blocking arc.

Blocking arc of the flap is equipped with shield, which can be marked with passage direction arrow sign on its front side and a passage prohibition sign on the back side.

Figure 1 – gate appearance.

Flap, post, base, base cover



1 - створка; 2 - стойка;
3 - основание; 4 - крышка основания

Figure 1 – Gate overall view

Gate is controlled from control panel.

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

Gate design provides locking in closed (initial) position by means of the electromechanical latch.

Flap is moved to “open” position by pressing the proper panel button.

Flap is returned to initial position automatically:

- when using the control panel, in 7 seconds after the proper direction button is pressed.
- when using the ACS, gate opens for 7 seconds in pulse control mode or for the time set by ACS in potential control mode

1.1.5 Overall dimensions

Figure 2 – gate overall dimensions for passage-way width of 870mm.

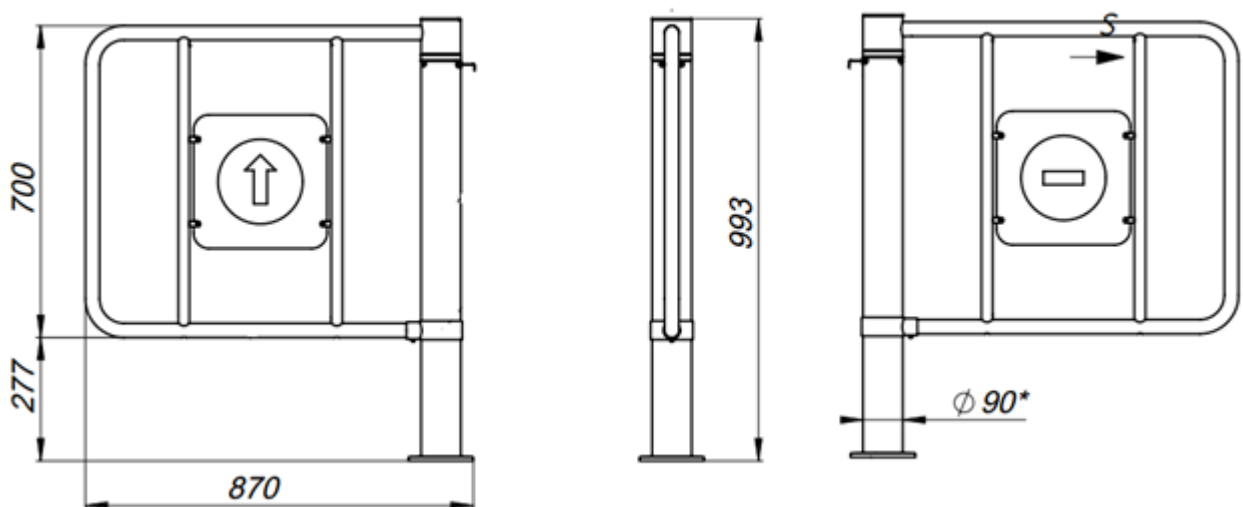


Figure 2 – Gate overall dimensions for 870mm size

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

1.1.7 Overall dimensions of the wood chipboard packing case

Gate length – max. 930mm

Option #1 — 2 gates per case, dimensions:

- 1) Height 220 mm;
- 2) Width 1030 mm;
- 3) Length 1070 mm.

Option #2 — 1 gate per case, dimensions:

- 1) Height 200 mm;
- 2) Width 1030 mm;
- 3) Length 1070 mm.



Note — packing option is decided by manufacturer

1.2 Product color indication

Gate is equipped with two-color light indication:

- 1) Green – passage is permitted (flap opens in either of directions);
- 2) Red – passage is forbidden (flap is locked by the electromechanical latch).
- 3) Flashing green (flap opens in either of directions by “Anti-panic” signal). The opening direction can be either in traffic direction or against the traffic.

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: 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:

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 GATE BLOCKING, MAKE SURE THAT THERE ARE NO PERSONS AND FOREIGN OBJECTS WITHIN THE FLAP ROTATION AREA PRIOR TO THE GATE CONNECTION.

2.2.2 Rules and procedures for visual inspection of the product

Visual inspection of the product before connecting it 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 the product on.

Connect the PSU 24V to ~220V mains and turn it on. The blue or white indicator lights up, depending on the set gate control mode. Gate flap starts smooth movement to either of fully open gate positions, whereupon it returns to the closed position. The red gate indicator lights up, red LED indicator on the CP lights up. Gate is ready to operation.

2.2.4 Visual inspection and verification of the product readiness for use:

Figure 3 – available free travel of gate flap in "STOP" mode makes 5 degrees in each direction.

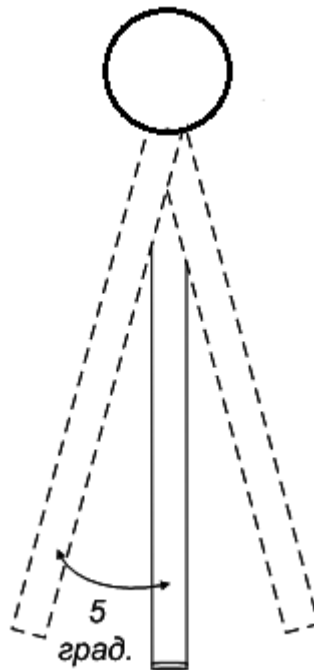
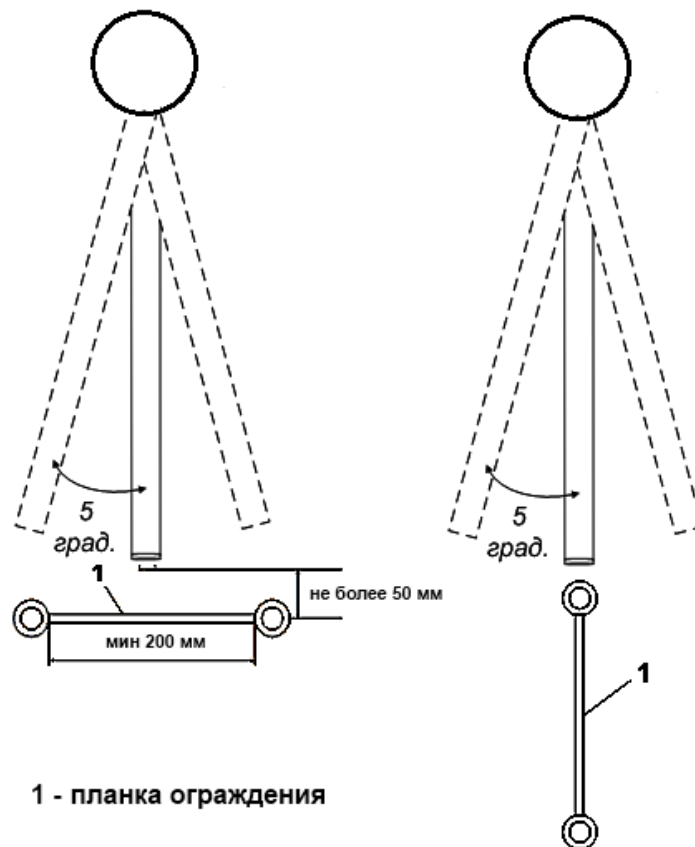


Figure 3 – Available free travel of bar in "STOP" mode

2.2.5 Guidelines on product orientation.



ATTENTION: THE PASSAGE ZONES SHALL BE ARRANGED SO THAT TO ALLOW PASSAGE RECORDING DURING ACS-CONTROLLED GATE OPERATION AND TO AVOID UNAUTHORIZED PASSAGE.



Recommended layout

Not recommended layout

Figure 4 – Gate passage zone arrangement

2.2.6 Control panel settings

Figure 5 – 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 **LEFT** (1) and **RIGHT** (3) buttons blink. Turn product power on.
- 3) Press and release **STOP** button (2).
- 4) Press and release **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 5 – control buttons 1 (LEFT), 2 (STOP), 3 (RIGHT), 4 (ANTI-PANIC) and LED indicators of the product operating modes.



Left, stop, right, anti-panic

Figure 5 – Control panel appearance

2.3 Product operation

2.3.1 Product operating modes

Product can operate in several modes. Desired mode can be enabled from the CP or ACS. Operation modes are displayed by means of LEDs at the gate top. With green indicator, gate opens in either of directions. With red indicator, gate is closed in both directions. The product operation from the ACS is described in the IM.

2.3.2 Product operation from the control panel

Figure 5 – LED indicator displaying the gate operation mode is located over each CP button.

"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.

One-time passage mode

Button 1(3) enables one-time passage mode to the left (right). When this mode is enabled, single pass to the left (right) is allowed; gate opens in permitted direction and then switches to "STOP" mode. The green indicator lights on the indication panel showing a free passage to the left (right).

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 7 seconds, the product is automatically switched to "STOP" mode.

"Antipanic" mode

For switching to this mode from any mode, press button 4. Green LEDs at the gate top are flashing. LED indicator of control panel over button 4 lights yellow. Note that gate can open in either direction; opening direction is set from panel (see Installation Manual).

2.4 Emergency procedures

For the emergency passage opening, switch product power off, passage through gate will be permitted in both directions.



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 every 6 months. 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 the proper connection of power cables.
Control buttons do not operate	Check the proper connection of control buttons. Check the control cables integrity.

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.2499.00.00.000 (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 should 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 range limitation by air, closed 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 4 rows.

Loading and unloading operations shall 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.ru.

Table 4 – Distributors and service centers in Russia

No.	Company	Contact details	Status
1	Elics 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	OOO Luis +	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	OOO Luis +	192029, Saint-Petersburg, Obukhovskoy Oborony Ave., 70, bld. 3A 7 (812) 331-40-41; www.luis.ru luis-spb@luis-spb.ru	Distributor Warehouse
4	OOO Luis +	400081, Volgograd, Bureyskaya str., 7 7 (8442) 43-97-98 www.luis.ru info@luis-don.ru	Distributor Warehouse
5	OOO Luis +	620100, Yekaterinburg, ul. Sibirsky trakt, 12, p. 6 7 (343) 298-20-28 www.luis.ru info@luis-ural.ru	Distributor Warehouse
6	OOO Luis +	350051, Krasnodar, Dalnaya str., 2 7 (861) 273-99-03 www.luis.ru info@luis-don.ru	Distributor Warehouse
7	OOO Luis +	Republic of Tatarstan, 420059, Kazan, Orenburg tract, 128, building 1 7 (843) 204-22-33 www.luis.ru luis@luis.ru	Distributor Warehouse

No.	Company	Contact details	Status
8	OOO Luis +	603086, Nizhny Novgorod, Manufakturnaya str., 14, room 1 7 (831) 214 –71–17 www.luis.ru luis@luis.ru	Distributor Warehouse
9	OOO Luis +	630007, Novosibirsk, Fabrichnaya str., 10 7 (383) 285–33–77 www.luis.ru luis@luis.ru	Distributor Warehouse
10	OOO Luis +	614064 Perm, Chkalov str., 7a 7 (342) 206–07–47 www.luis.ru luis@luis.ru	Distributor Warehouse
11	OOO Luis +	344029, Rostov-on-don, Menzhinsky str., 4 7 (863) 261–82–10 www.luis.ru info@luis-don.ru	Distributor Warehouse
12	OOO Luis +	443028, Samara, 18 km of Moscow highway 7 (846) 203–04–24 www.luis.ru samara@luis.ru	Distributor Warehouse
13	OOO Luis +	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	OOO Luis +	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 Isakovskiy str., bldg. 3 7(495) 234-68-51 www.cbs-group.ru sales@cbs-group.ru	Dealer Service center
21	Corporate Business Systems	344002, Rostov-on-don, Solyanoy spusk lane, 8-10, 34 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	Khabarovsk, Neftyanaya, 14 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, Polyustrovskiy 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 fuchs@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, Lipetsk region, Lipetsk, Zhelyabova str., 2, office 307. 7 (4742) 51-58-77 inbox@int-sys.ru	Dealer
30	Tinko trading house	111141, Moscow, 3rd Proezd Perova Poly, 8 (business center "Perovo Polye", 3 rd floor), m. Perovo 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, Ligovsky Prospekt, 266B 3 rd floor 7(812)245-28-24 www.videoglaz.ru zakaz@videoglaz.ru	Dealer
36	OOO Birzha	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 ForTraid	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, Novosibirsk, Krasnogorskaya str. 27A 8 (383) 210-352-353 www.grumant.ru info@grumant.ru	Dealer
45	OOO "Grumant corporation"	107553, Moscow, 1st Pugachevskaya str., 25 office 118 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 ModusTraid	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	Hofer Str. 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	TOO "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. (Vidosecurity 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;

MNT — maintenance.

VOZROZHDENIE LLC

192289 Saint-Petersburg

66, Sofiiskaya str.

Telephone/Fax +7 (812) 366 15 94

www.oxgard.com

info@oxgard.com



