

M^DERN EXPO

SELF-CHECKOUTS

OPERATION INSTRUCTION

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1. General information

Self-checkout terminals are advanced, automated devices that allow customers to scan, weigh and pay for goods without the need for a cashier.

Their innovative design combines scanning, payment and weight control modules, making them a universal solution for retailers. By introducing self-service checkouts, stores can significantly speed up customer service, optimise retail space utilisation, improve cash and non-cash management and increase security.

All the necessary payment functions are integrated into a single unit, providing convenience for customers and simplifying service for store staff. They help minimise queues, reduce operating costs and meet modern retail standards.

Self-service checkouts also reduce staff workload, allowing them to focus on customer service and other important tasks. They also support a variety of payment methods, including contactless payments, mobile apps and e-wallets, in line with current digital commerce trends.

2. Structure and principle of work

2.1. Self-checkout Seline LYRA

Fig. 1 shows an example view of the Seline LYRA self-service checkout, and Fig. 2 shows its electrical diagram.

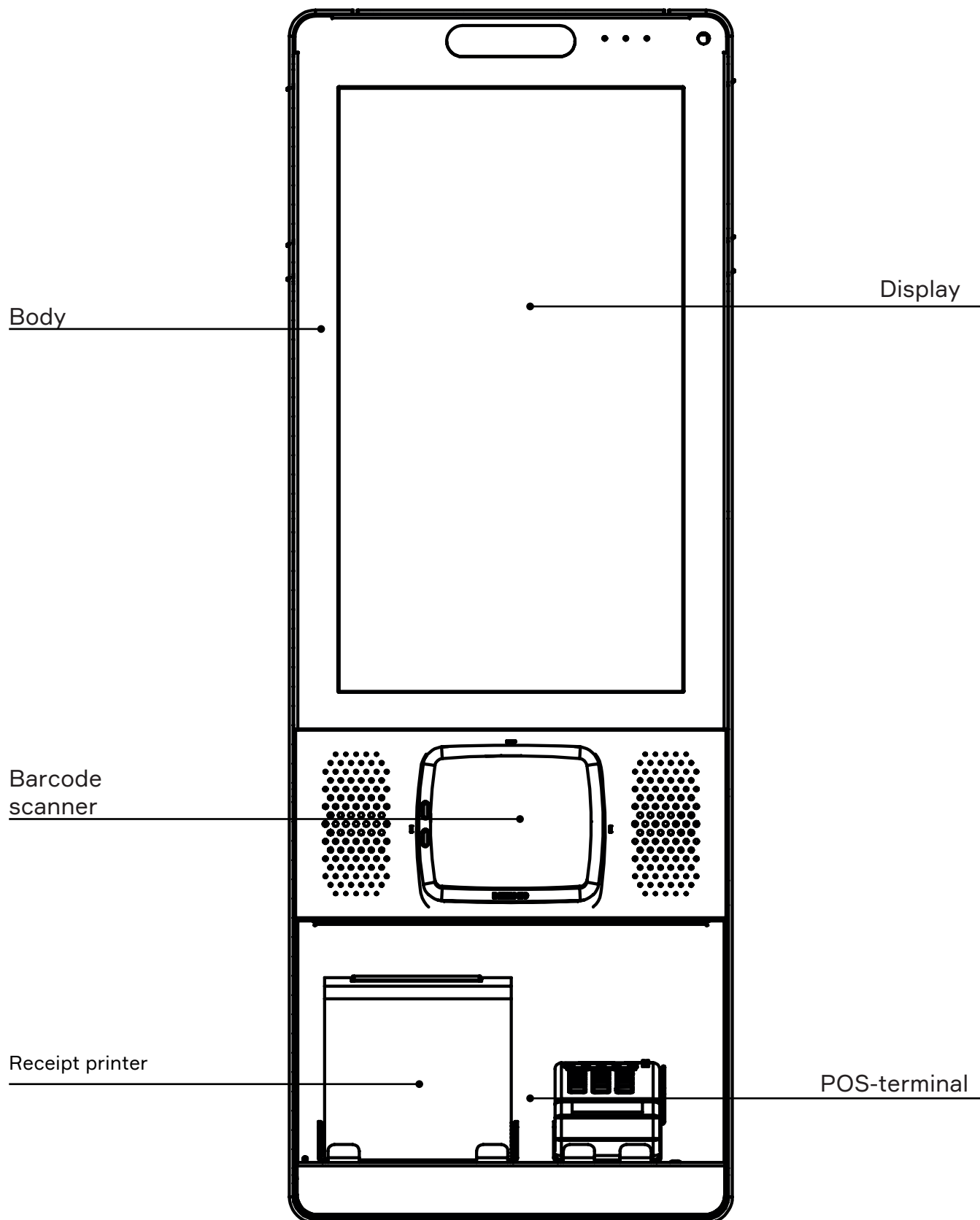


Fig. 1. Example front view of the Seline LYRA self-service checkout

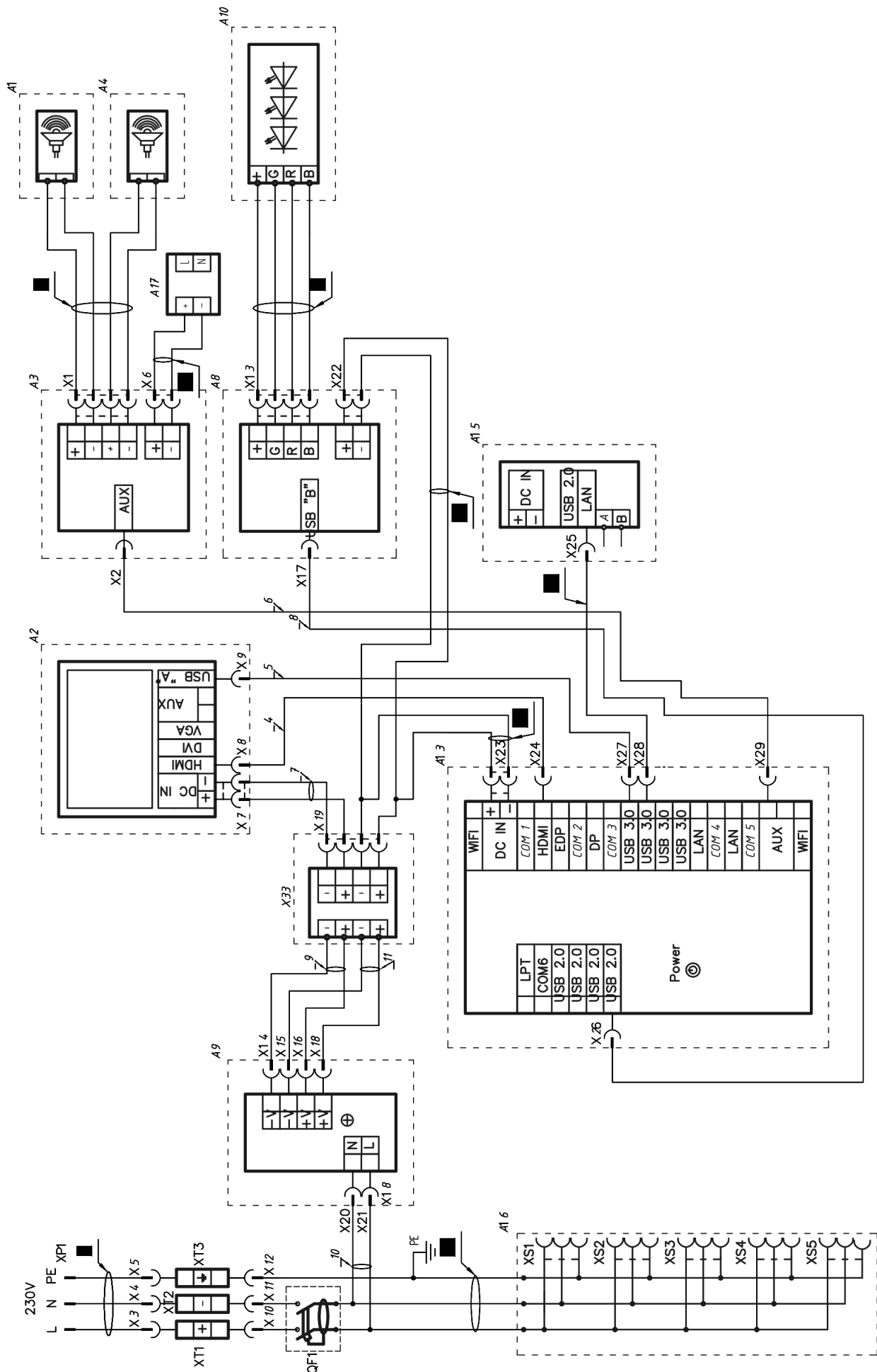


Fig. 2. Seline LYRA electrical diagram

Table 1 provides a complete list of components for the Seline LYRA self-service checkout

Table 1. List of Seline LYRA components

Marking	Name	Q-ty
A1	2-inch low-frequency speakers 10 W 4 Ohm	1
A2	Capacitive touch display 21.5	1
A	Sound amplifier 5*2 W in the case Z103	1
A4	2-inch low-frequency speakers 10 W 4 Ohm	1
A8	RGB controller MINT	1
A9	Power supply Mean Well 135.6 220 V/12 V (11.3 A) DIN	1
A10	RGB LED (upper illumination)	1
A11	Connector dfk-mstb 2.5/4-gf	1
A13	Computer Mini PC H4-i5-8250V	1
A15	Datalogic Magellan 3450VSi scanner	1
A16	Extension cord U05 5 outlets 2P + PE / 5 meters	1
A17	Power supply unit GL-LED-01	1
QF1	Автоматичний диференційний вимикач	1

2.2. Self-checkout Seline ROTO

Fig. 3 shows an example view of the Seline ROTO self-service checkout, and Fig. 4 shows its electrical diagram.

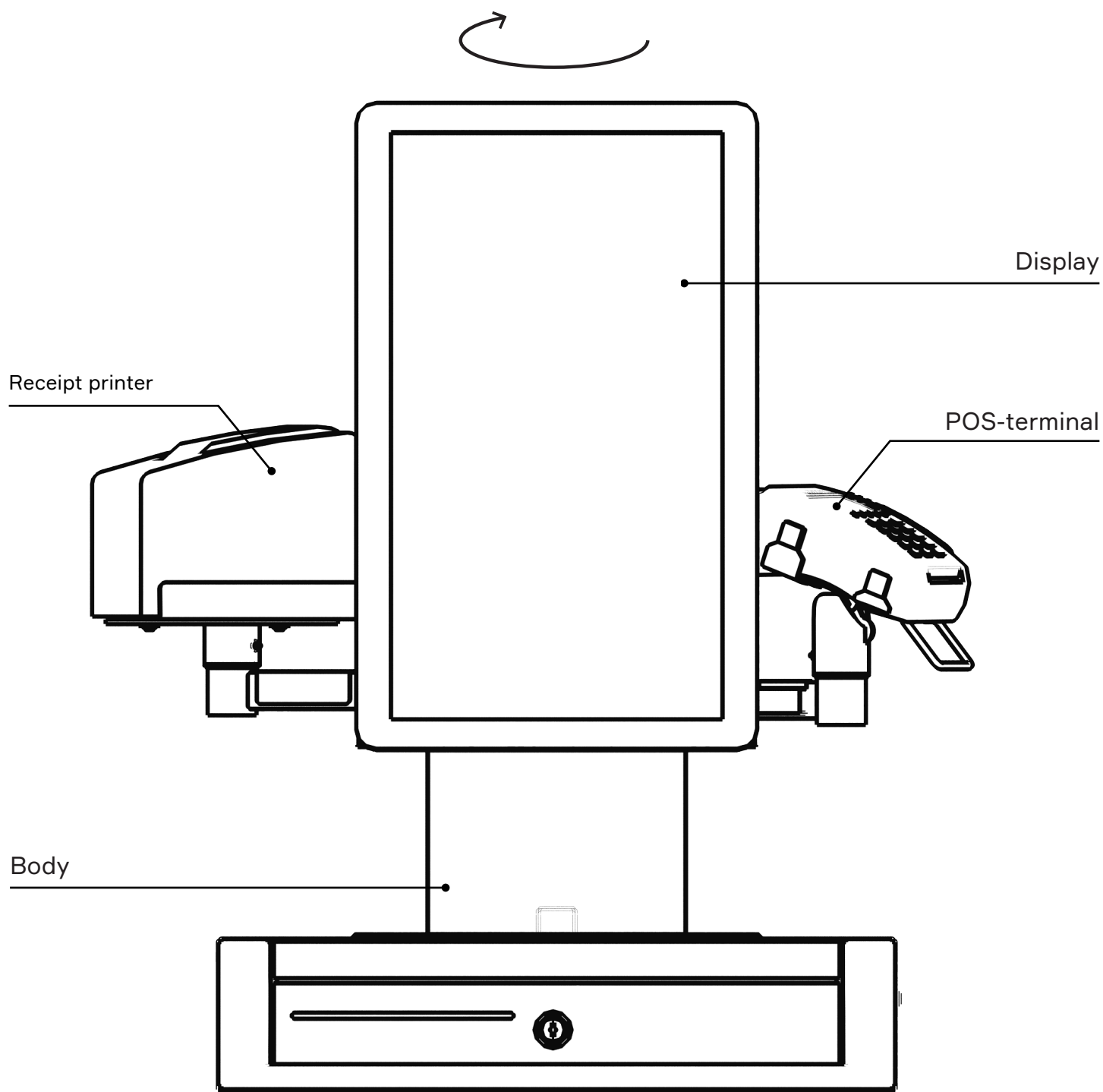


Fig. 3. Example front view of the Seline ROTO self-service checkout

Рис. 4. Seline ROTO electrical diagram

Tabl. 2 provides a complete list of components for the Seline ROTO self-service checkout.

Table 2. List of Seline ROTO components

Designation	Name	Q-ty
A1	2-inch low-frequency speaker 10 W 4 Ohm	2
A2	Capacitive touch display 15.6" (21.5")	1
A3	Audio amplifier TPA3116 2x50 W 5-24 V	1
A8	RGB controller 0.5A×3 channels; 12 V	1
A9	Power supply Mean Well 135.6 W/220V/12 V (11.3 A) DIN	1
A10	LED backlight for display stand	1
A11	LED workspace lighting	1
A13	Mini PC H4-i5-8250U	1
A15	Scanner Datalogic Magellan 3450VSi; 5.2VDC-12VDC; 5 W	1
A18	EMI filter CW4L2-20A-S_115/250V	1
QF1	Differential automatic circuit breaker 1P+N 16A B 30mA 2m Hager (AD916J)	1
X1, X2, X3	DC power connector 5.5/2.1	1
X4	Terminal block DG301-5.0-06P-12-00A (H)	1
X6	Terminal block 15EDGK-3.5-02P-14-00A (H)	1
X7	Terminal block 15EDGK-3.5-04P-14-00A (H)	1
X8	Wago MCS MIDI Classic 6pin_5.0 (231-606/019-000)	1
X9, X10	2-pin connector (speaker set)	2
X11	4-pin connector (LED backlight)	1
X12	4-pin connector (speaker set)	1
X13	4-pin connector (stand LED backlight)	1
X14	4-pin connector (workspace LED backlight)	1
XP1	AC cord 16A 250V Schuko plug	1
XS1-XS3	DIN rail socket 230 V/16 A	3
XT1-XT3	Feed-through terminal MRK 2.5 (PE)	3

3. Specifications self-service cash (Tabl. 3)

Table 3. Self-service checkout technical specifications

Characteristic	Value
Industrial PC	Mini PC H4
Processor	Intel i5-8250U
Memory	8 GB DDR4
Storage options	256 GB Solid state drive (SSD M2)
Touch Screen	21,5"/15,6" inch class A screen. Projective-capacitive touch sensor
Scanning	Datalogic Magellan 3450VSi Scanner-scales
Operating System	Windows 10
Systems management	LED indication. Sound system 2x3W
Power consumption	250 W
Nominal current	1 A
Network power	230 V – 50-60 Hz

4. Main safety measures

To reduce risks related to power grid voltage and to ensure efficient operation of the product, follow the rules below:

- do not use the equipment if the body or power cord is damaged;
- it is forbidden to use the equipment outside the premises, in open space, premises with a high concentration of dust/moisture;
- if the device arrived from a cold environment to a heated premise, condensation may appear. Before starting operation, the device must be completely dry. Stick to the equipment acclimatization period of at least two hours;
- follow the requirements regarding the operating conditions of self-checkouts;
- do not attempt to service or repair internal circuits or power supply of self-checkouts – contact the service center. Self-repair attempts can be life-threatening and void the warranty;
- connect the cables in such a way that they are not stepped on;
- make sure that foreign objects (such as paper clips) are not may get inside the device, as this may cause electric shock or short circuit;
- to avoid overheating the system, make sure that the self-checkout is
- provided with an appropriate level of ventilation. Ventilation holes must be free of obstructions to ensure sufficient air circulation;
- keep the device away from fire ventilation, exposure to vibrations, dust, humidity and excessive heat;
- in case of an accident (for example, damage of body influenced by water or foreign objects), turn off the device;
- transport the device only in the original packaging (to protect against impacts and damage).

5. Terms of use



Before the initial settings of the self-checkout and its further use, we recommend beforehand read the operating rules. It will ensure the proper and high-quality operation of the equipment for its intended purpose.

Putting the equipment into operation is allowed only after commissioning works with compliance with all diagnostic procedures, making notes in the SSC inspection checklist table, certified by the signature and seal of the responsible person or organization verified by the company Modern Expo.

Before starting the operation of the product, conduct a preliminary briefing on the conditions of operation of the equipment for the staff of the store. All persons who use the self-service cash register must follow the rules and instructions given in the operating instructions:

- Recommended operating temperature of self-checkout +5 ... + 45 °C.
- A safe distance from heating devices of other heat sources should be more than one meter.
- It is forbidden to expose the self-checkout to sudden temperature changes.
- It is recommended to use the equipment at a relative humidity of air that does not exceed 80% and in the absence of chemically active vapors and gases that contribute to the appearance of metal and plastic corrosion.
- Do not expose self-checkouts to strong magnetic or electric fields, including exposure to electromagnetic radiation exceeding safe standards.
- Avoid direct sunlight on the goods.
- In case of unstable operation of the power supply system and with frequent voltage drops, in order to prevent equipment malfunctions, additional use of network filters and voltage stabilizers, as well as uninterruptible power supply units, is recommended.
- Network power requirements ~ 230V AC + 10% / -15%; 50-60 Hz.
- The total electrical loading should not exceed 1000 W. If the power source is not designed for such loading, use another current source.
- Care of the self-checkouts should be carried out regularly and exclusively with the use of special detergents. Complex dirt is recommended to be removed using a brush with soft bristles. Remove dust with a vacuum cleaner and a dry cloth.
- During the operation of the equipment, it is forbidden to close the ventilation shutters located on the case.
- Do not disassemble or attempt to repair the self-checkout by yourself. If necessary, contact the specialized service center or the dealer (seller) that you purchased the equipment.
- Avoid contact of the product with sources of fire to prevent flash and/or explosion.



- **DO NOT** allow the equipment to contact with water or other liquids.
- It may lead to electric shock or appearance of malfunctions in the operation of the device.
- The manufacturer is not responsible for the loss of data or any damage to the device caused by incorrect operation or improper storage of the product.
- Avoid getting any foreign objects or substances into the product (its connectors).
- The product must be used only for its intended purpose. Any other operation of the equipment is considered incorrect and, accordingly, potentially dangerous. The manufacturer is not responsible for damage caused by inappropriate or incorrect use of the product. In these situations, the product warranty does not apply.

6. Paints and shade differences

For products, deviations from the RAL standard are allowed for powder coating standards.

These deviations may occur due to various factors, such as:

1. Features of paint production: different manufacturers may use different formulations and technologies, which affects the final shade.
2. Depending on the chosen paint structure: gloss, matte, semi-matte and others.
3. Lighting: the color may look different depending on the type of lighting (daylight, artificial light, etc.).
4. Subjective perception: each person, depending on their physiology, may perceive colors slightly differently.
5. Changes in the shade of the painted coating of the equipment due to climate or solar radiation.

7. Packaging. Storage. Transportation

All equipment is delivered to the customer in packaging. The type of packaging may vary at the discretion of the manufacturer depending on the type, dimensions, and quantity of the product.

Packaging provides reliable protection of the products during transportation, unloading, and storage. It fixes the elements on the pallet, prevents their displacement and friction with each other, provided that all requirements for storage, transportation and handling are met.

Transportation of the equipment must be carried out in a vehicle equipped with means of protection against environmental influences, mechanical damage and precipitation.

The equipment should be stored in a covered dry room protected from direct exposure to atmospheric precipitation, aggressive chemicals and mechanical damage. The equipment should be placed on wooden pallets or specially equipped racks at an air temperature of +10 °C to +25 °C and relative humidity of no more than 70%.

In case of long-term storage, check the condition of all structural elements of the equipment for mechanical damage or corrosion before installation.

7.1. Transportation

- Self-checkouts are transported in factory packaging and in a reliable condition, in which the checkout and / or its separate components (if they are transported by separate units) are fixed in a stationary position. The equipment is transported in assembled form, unless otherwise stipulated by the contract.
- The product, packaged by the manufacturer, can be transported by any type of transport over any distance.
- After transporting the equipment, at an air temperature below 0 °C, before connecting the self-checkout to the network, it should be left at a room temperature of 15-25 °C in a packed state for at least 2 hours.
- When transporting self-checkouts, it is important to avoid strong shocks and/ or vibrations, which can negatively affect the integrity and quality of the equipment's functioning.
- When transporting the equipment, do not allow moisture to get on the product packaging.
- Delivery to the installation site should be carried out in compliance with all the rules of rigging work, carefully, avoiding shocks and jolts. It is recommended to transport the equipment only vertically position, according to the "UP" and "DOWN" markings on the container.

7.2. Unpacking

- Before unloading, installing and connecting the equipment, it is necessary to consult with the supplier about the specific model of the LUNA self-checkout.
- Unpack the equipment and make sure that the packaging matches the information in the specification. If you notice any transport damage, functional defects or inconsistency between the packaging and the specification, notify the supplier immediately.
- It is recommended to keep the original packaging for possible future transportation.

7.3. Power supply

- If the power cord is damaged, it should be replaced with a special cord or kit provided by the manufacturer or service provider.
- At the power supply point, protective devices must be installed (differential switch, RCD or protection elements against surges, short circuits, overloads) in accordance with the equipment's power consumption.

7.4. Grounding



Improper use of the ground contact can lead to electric shock. The manufacturer does not carry responsibility for the consequences of non-compliance with electrical safety standards.

7.5. Installation

The installation of the self-service cash register in the working position must be carried out on a flat horizontal surface, with the mandatory fixing of the base of the cash register to the floor.

Put the product within reach of an electrical outlet.



IT IS FORBIDDEN to install self-checkouts near cold and wet walls.

Avoid direct sunlight. (When choosing a location, remember that the angle of inclination of the sun changes with the seasons.).

The safe distance from heating devices and other sources of heat is more than one meter.

8. Connection to the power grid

Installation and connection of the equipment to the power grid must be operated by qualified specialized personnel in accordance with current electrical safety standards.

Electrical diagrams of self-service cash registers (depending on the model) are given in the “Connection” section.

To properly connect the device to the electrical network, you must:

- connect the self-checkout to the power grid with grounding;
- make sure that the voltage at the point of supply meets the requirements of the mains supply;
- the equipment has a power cable with a wire and a ground contact in the plug.
- the plug must fit snugly to the outlet, which is properly installed and grounded;
- after connecting the self-checkout to the electrical network, according to the above instructions, you can turn on the equipment;
- the first inclusion of self-checkouts must be carried out by qualified personnel.

9. Cleaning

1. Internal electrical components

Dust that settles inside the computer can cause many malfunctions, broken electrical connections, errors and malfunctions in the operation of the computer:

- The self-checkout does not require frequent intervention and maintenance. Dust that settles inside electrical components can cause many malfunctions, broken electrical connections, errors, and computer malfunctions. To the internal electrical components of the self-checkout include power and control power supply units.
- It is not necessary to use any liquids to clean the internal electrical components, as they can get on the power elements and cause the self-checkout to fail.
- To clean the internal electrical components from dust, you must use a vacuum cleaner or a compressor (or a cylinder with compressed air).

- Any preventive work or work on cleaning internal electrical components should be carried out only by a service engineer trained in the principles of operation and structure of the self-checkout.
- Cleaning the system unit must be carried out only when the self-checkout is completely disconnected from the power grid.

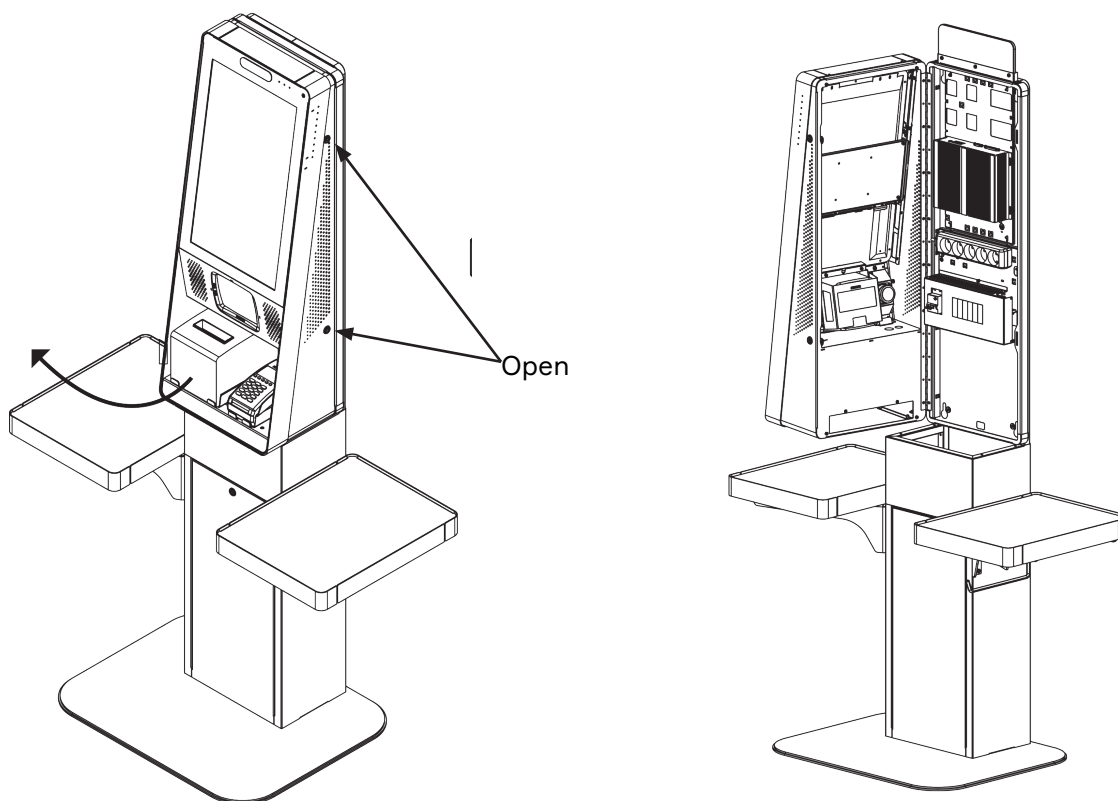


Fig. 5. Opening the LYRA checkout housing for cleaning

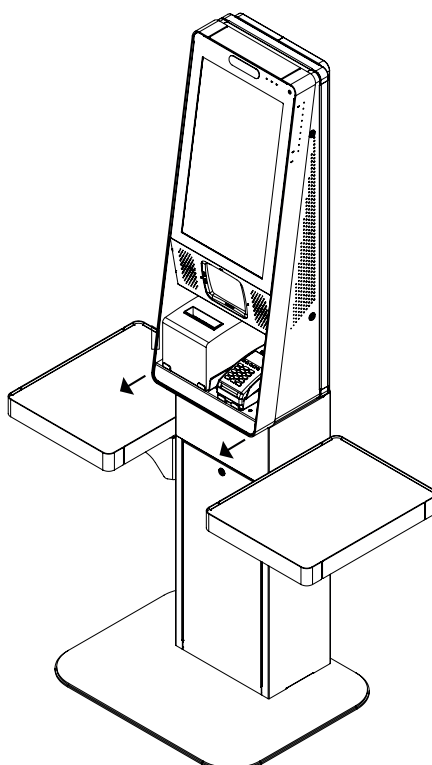


Fig. 6. Pulling out the trash tray

2. Scanner

It is designed for long continuous operation and rarely needs any maintenance. To remove dirt and fingerprints, you only need to clean the scanning window.

Scanner cleaning can be done while the scanner is operating. When cleaning the scanning window, wipe the glass with a soft cloth, not an abrasive cleaner, to avoid scratching and damaging the scanning window. Do not spray water or cleaner directly on the window.

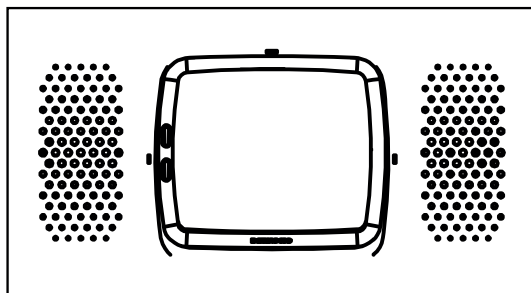


Fig. 7. Example view of the scanner

3. Weight and stainless steel elements

Inspections and all types of repairs are performed by specialized personnel who have undergone training and learned the principle of operation of the equipment. When using the scale, the consumer should perform daily maintenance: wipe the platform, the body of the scale with a dry cloth.

Solvents cannot be used to clean the weighing platform. The weighing platform can be washed with ordinary household detergents.

Caring for stainless steel elements is quite simple. They should be wiped with specially designed means that will ensure cleaning and protection. If such processing is regularly carried out, then the stainless elements of the self-checkouts will have their original appearance for a long time:

- in the care of stainless steel, you cannot use hard fine-grained abrasive substances that can scratch the surface. If scratches appear, use a polishing spray;
- do not use agents containing sand, chlorides, acids and soda – this can damage stainless steel;
- do not use hard sponges, brushes and other objects that can scratch the surface;
- when caring for stainless steel elements, use soft napkins and pieces of cloth, as well as liquids with a special composition that do not contain substances prohibited in the care of stainless steel;
- old and hardened contamination should be soaked and then removed with a dry cloth;
- the fat is washed off with warm water and a special means;
- fingerprints can be removed with a wax-based polishing spray. Aerosol should be applied once or twice a week, evenly distributing it over the surface and wiping with a smooth cloth;
- it is unacceptable to use disinfectants containing chlorine!
- when caring for a stainless steel surface, you should not use detergents that contain oil in their composition, because in this case, the oil only contributes to the attraction of dust, which will be more difficult to remove.

4. Display

It is necessary to wipe the display screen daily:

- To avoid electric shock, be sure to unplug the display before cleaning.
- Do not use alcohol (methyl alcohol, ethyl alcohol or isopropyl alcohol) and strong solvents (benzene, abrasives) for cleaning.
- To clean the display case, use a dry cloth or a cloth slightly moistened with a mild detergent.
- Avoid getting liquid inside the display. If the liquid still got inside, immediately turn off the display and call a qualified service specialist for this equipment to check its condition.
- Do not wipe the screen with a cloth or sponge, which can scratch the surface.
- Use a window or glass cleaner to clean the touch screen. Apply the cleaner to a clean cloth and wipe the screen. Wipe off the remaining liquid with a dry cloth.
- Do not apply cleaner to the touch screen.

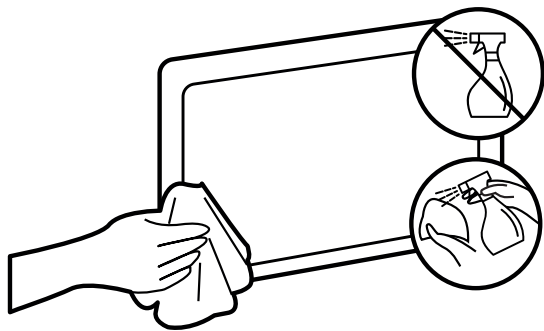
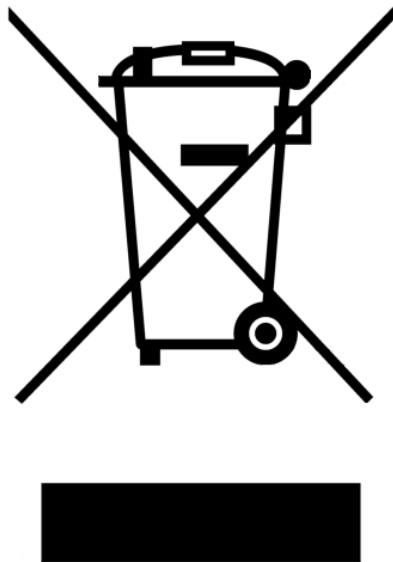


Fig. 8. How to wipe the display

10. Utilization

To reduce the risk of environmental pollution due to improper disposal of the self-checkout and its components:



- at end of life, dispose of all components (touch screen, PC, body, scanner, device adapter, etc.) in accordance with federal, state, and local requirements;
- disposal together with household waste is prohibited. After the end of the service life of the equipment, the device and its components must be disposed separately from household waste;
- in order to prevent a negative impact on the environment and human health, it is necessary to recycle the product separately from other types of waste;
- components and materials such as lamps, glass, plastic, seals, panels, electrical controls and any other electrical parts are subject to collection and disposal at special authorized sites and/or official waste disposal centers.

11. Maintenance and repairs

Maintenance and current repairs are carried out according to a pre-arranged annual schedule, in order to ensure the functionality and serviceability of the product during its intended use.

The network cable should be checked periodically for damage:

- it is forbidden to use the self-service checkout if the network cable is damaged;
- in case of damage and interruptions, contact the service staff;
- repair and maintenance work should only be carried out by qualified personnel using original spare parts and tools.

The list of equipment maintenance tasks and their frequency are listed in Table 4.

Table 4. List of equipment maintenance tasks

Type of works	Every day	Monthly	Quarterly
Functional test	+		
There are no foreign objects in the system unit			+
There is no dirt or dust inside and outside the cash register			+
Checking cable connections and connectors			+
There is no damage to the weighing module, the integrity of the connecting cable and connecting connectors			+
Cleaning the window of the scanning device	+		
Barcode reading range check (20 cm)			+
Cleaning the display screen	+		
Data port testing (USB, COM)			+
Checking cable connections and connectors			+
Capacitive touch screen calibration/ touch ease check		+	
Checking the reliability of fixing the moving elements of the cash counter			+
There are no traces of corrosion on the metal elements of the self-service checkout			+
Cleaning the surface of the self-service cash register		+	
Cables are arranged, fixed, and placed in cable channels			+
Checking for the absence of non-working LEDs of the light signal			+

Checking the system disk for errors and bad sectors			+
The cashier's receipt contains all the required details, they are correct			+
The print on the receipt is clear and has no gaps			+

12. List of potential malfunctions and action sequence

The list of possible equipment malfunctions during use and methods of their elimination are given in Table 5.

Таблица 5. List of possible equipment malfunctions and troubleshooting

Type of malfunction (breakdown)	Solution to the problem
Power is missing	Make sure the outlet is not being used to power another device. Check if another appliance works using the same outlet. If the outlet does not work, have the circuit breaker or fuse box checked by a qualified specialist. Otherwise, contact the distributor of the Modern-Expo company.
Scanner problems	The barcode on the scan object may be blurry or dirty. Try to use a product with a clean, high-quality barcode. Otherwise, contact the distributor of the Modern-Expo company.
Problems with the printer	If the device does not print receipts, make sure the printer's power switch is on, the printer is calibrated, and the printer paper is loaded and properly aligned.

13. Warranty obligations

JV Modern-Expo LLC guarantees the elimination of manufacturing defects of the equipment detected during acceptance, installation or operation within 12 months from the date of its activation, provided that the installation and activation were carried out no later than 1 month after the transfer to the buyer, and if the installation (supervision) of the equipment was carried out by representatives of the supplier (a subcontractor authorized by the supplier) or specialists certified by the supplier, which is confirmed by the commissioning certificate signed by the supplier or the relevant certification authority.

In other cases, the warranty period for the equipment is set at 14 calendar days from the date of its transfer to the buyer.

The warranty does not apply to the equipment in the following cases

- there are no protective devices (RCD (residual current device), differential circuit breaker, short circuit protection devices) at the power connection point in accordance with the power of the installed equipment;
- connection without protective grounding;
- any mechanical and chemical damage;
- damage to the paintwork;
- Damage caused during transportation, unloading, storage, and improper installation by the buyer and/or third parties;
- unauthorized changes in the design of the equipment;
- if the serial number (if any) is missing or changed;
- in case of equipment defects as a result of force majeure;
- failure of the buyer to comply with the conditions of warehousing, storage, transportation and operation of the equipment;
- interference in the design of the equipment by unauthorized persons;
- allowing persons who are not employees of the supplier or who do not have the authorization or authority of the manufacturer to perform any repair, adjustment, replacement of parts and components, and other work on the equipment;
- use of the equipment for other purposes;
- - non-compliance with the load standards, changes in the frequency or voltage of the power supply, when operating in a faulty condition;
- liquid, dust, insects, rodents, and other foreign objects getting into the equipment and causing damage;
- in the absence of regular maintenance by specialists authorized by the manufacturer with the appropriate fixation of dates and description of work.
- in case of natural wear and tear of the equipment structural elements (change/loss of color, scuffs, scratches resulting from use, etc);
- in case of damage to the equipment caused by its use with other equipment not provided by the manufacturer;
- in case of use of non-original spare parts, components and other resource and consumable materials;
- for unauthorized changes or updates to the software (software);
- in case of software failures caused by unstable operation of electrical networks;

- in the absence of resources necessary for the equipment to function (Internet connection, access to the power grid, water supply, waste disposal, etc.)

Actions and damages leading to void warranty:

- After the completion of 14 calendar days from the moment of commissioning and putting into operation, the equipment was not delivered for maintenance and accounting by a service organization authorized by the Modern-Expo company.
- Damage caused by natural phenomena (fire, flood, wind, earthquake, lightning strike, etc.).
- Damage or inconsistencies caused by improper installation or failure to ensure proper product operating conditions, including unstable connection to wired and wireless networks, poor or missing grounding, exposure to external electromagnetic fields, exposure to direct sunlight, high indoor humidity, and vibration.
- Damage caused by collision with other objects, as a result of falling, spilling liquids on the equipment or submerging it in liquid.
- Damage caused by unauthorized repair or disassembly of the product.
- Damage resulting from any other abuse, misuse, improper operation or misuse of the equipment:
 1. Damage caused by peripheral devices of third-party manufacturers (including visible damage to the motherboard or other electronic parts of the product, namely traces of electric discharges (blackened, burnt areas), overheating, melting, cracking, etc.);
 2. Any malfunctions caused by the use of software incompatible with the product, due to the effects of viruses, as a result of unauthorized modification of software and hardware (including BIOS systems) or installation of any third-party software components by the buyer.
- Mechanical damage that occurred after the delivery of the goods to the buyer:
 - damage due to careless, sloppy use, non-compliance with the rules, product care;
 - damage or incorrect functioning of the device caused by the following actions:
 1. Use of non-standard and / or low-quality consumables, accessories, spare parts, power cells, media of various types (including memory cards, but not limited to them), use of software products that were not installed by the manufacturer.
 2. Activities of virus programs.
- Changing, removing, erasing or damaging the serial number of the product (this also applies to stickers with serial numbers on its parts and components).
- Cracks and scratches on the display and plastic parts, as well as other defects that occurred as a result of transportation, loading/unloading or improper handling by the buyer.
- The presence of 4 (four) or less defective pixels on the device's display, which, according to the manufacturer's policy, is not considered a warranty defect. Warranty service is provided by an organization certified by the Modern-Expo company.
- Warranty services, in accordance with this warranty, are provided only if the corresponding claims were submitted during the warranty period.
- Before making a product defect claim, customers should back up all important data and, if necessary, delete all confidential, proprietary information and some of their personal data from the hard drive, flash drive. The manufacturer is not responsible for the damage or loss of any programs, data and other software or files located on the storage devices of the product.

- The Modern-Expo company disclaims responsibility for possible damages that were directly or indirectly caused by the company's products to people, pets or property in cases where this occurred as a result of violating the rules and conditions of product operation. Intentional or negligent actions of the buyer (user) or third parties, as well as for any damages, indirect and accidental damages or losses that are the result of certain circumstances, including economic and immaterial losses, loss of profit, income, information data, caused by damage or the impossibility of operating the products.
- The manufacturing company, its dealers or authorized representatives are no financial or moral responsibility to the buyer for material or moral damage caused due to product failure.
- The manufacturer does not guarantee software and hardware compatibility of the product with software and equipment that are not included in the product delivery set.

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