Installation and Operation Manual
for Perenio® Red Atom
IR Remote Control

November, 2019
Introduction

The Red Atom infrared remote control is designed to manage IR-compatible household appliances (TV, air conditioning, etc.) through the Perenio Smart mobile app and/or virtual voice assistants. Perenio® Control Gateway or IoT Router is not required to operate the device.

The present Manual contains a detailed description of the device, as well as instructions for its installation and operation.

Copyrights

Copyright of ©Perenio IoT spol s r.o. All rights reserved.

The Perenio® trademark is owned by Perenio IoT spol s r.o. (hereinafter referred to as the Perenio IoT). All other similar trademarks and names, as well as logos and other symbols are the property of their respective owners*.

All materials under Perenio® tradename contained therein are protected in accordance with international and local laws including Acts on Copyrights and related rights.

Any reproduction, copying, publication, as well as further distribution or public display of materials contained in the present document (whether in full or in part) shall not be allowed until an appropriate permission of the copyright owner is obtained. Any unauthorized usage of materials contained herein may lead to civil liability and criminal prosecution in accordance with applicable laws.

Any eventual mentioning of other company names and equipment in the present document is made solely for the purpose of clarifying and describing the device operation and shall not infringe on the third party’s intellectual property rights.

*ZIGBEE is the registered trademark of ZigBee Alliance; Bluetooth is the registered trademark of BLUETOOTH SIG, INC.; iOS is the registered trademark of CISCO TECHNOLOGY, INC.; Android is the registered trademark of Google Inc.; Google Play and Google Home are trademarks of Google Inc.; Apple Store, Apple HomeKit and Siri is the registered trademark of Apple Inc.; Linux is the registered trademark of Linus Torvalds; Yandex is the registered trademark of YANDEX LLC.
Responsibility and Technical Support

The present document is prepared in accordance with all necessary requirements and contains detailed information on the device installation, configuration and control valid as of the date of its issue.

*Perenio IoT* reserves the right to modify the device and make corrections or changes to this document without prior notice of the User, and shall not be responsible for any potential negative consequences which may arise from the use of an outdated version of the document, as well as for any possible technical and/or typographical errors, either omitted or accidental, or any related damage that may result from the document transfer or the use of devices.

*Perenio IoT* shall make no guarantee with respect to any data contained herein including but not limited to the device merchantability and fitness for a particular purpose.

For any technical issues, please contact your local *Perenio IoT* representative or the Tech Support Department at [perenio.com](http://perenio.com).

The most common problems may be found in Section 7 of the present document and at [perenio.com](http://perenio.com) where you can also download the latest version of this Installation and Operation Manual.

Manufacturer:

*Perenio IoT spol s r.o.*
Na Dlouhem 79, Ricany – Jazlovice 251 01, Czech Republic
[perenio.com](http://perenio.com)
Conformance to Standards

The device is CE certified and complies with requirements of the following Directives of the European Union:

- 2014/53/EU Radio Equipment Directive (RED);
- 2014/35/EU Low Voltage Directive;

The device has passed all procedures of assessments established in Technical Regulations of the Customs Union and conforms with standards of the Customs Union.

The device complies with the requirements of Restriction of the Use of Certain Hazardous Substances in Electronic and Electrical Equipment (2011/65/EU Directive)

The device complies with requirements of the Technical Regulations of the Republic of Belarus TR 2018/024/BY (Telecommunications. Security)

The national conformity mark of the Ukraine indicating that the device meets requirements of all applicable technical regulations.

The device and supplied batteries must not be disposed of as a household waste in accordance with the Waste Electrical and Electronic Equipment Directive (2002/96/EC)

For the purpose of protection of the environment and human health, both the device and batteries must be disposed of in accordance with approved instructions on safe disposal. For more information on proper disposal, please contact your device supplier or local authorities responsible for waste management.

Details on available Certificates are specified in Section 6 of the present document. For copies of Certificates and Reports, please visit a corresponding Section at perenio.com.
# Table of Contents

Introduction ........................................................................................................ 3  
Copyrights ........................................................................................................ 3  
Responsibility and Technical Support ................................................................. 4  
Conformance to Standards ................................................................................ 5  
Table of Contents ............................................................................................... 6  
1 General Description and Specifications ............................................................ 8  
   1.1 Device Purpose .......................................................................................... 8  
   1.2 Technical Specification .......................................................................... 10  
   1.3 Scope of Delivery .................................................................................... 11  
   1.4 Packaging and Labelling ....................................................................... 12  
   1.5 Safe Operation Rules ............................................................................ 12  
2 Installation and Setup ..................................................................................... 13  
   2.1 Initial Installation and Configuration ....................................................... 14  
      2.1.1 Activation in the Perenio Smart Mobile Application .................. 14  
      2.1.2 Connection of Managed Appliances ............................................ 18  
      2.1.3 Viewing the List of Managed Appliances ..................................... 20  
      2.1.4 Management via Google, Yandex and Amazon Applications ...... 20  
   2.2 Changing the Room or Location for the IR Remote Control ................. 20  
   2.6 History and Push-Notifications .............................................................. 21  
3 Maintenance and Repair ................................................................................. 23  
4 Warranty Obligations ...................................................................................... 24  
5 Storage, Transportation and Disposal of Devices .......................................... 27  
6 Other Information .......................................................................................... 28  
7 Troubleshooting .............................................................................................. 30  
8 Glossary .......................................................................................................... 31
Figures and Tables

Figure 1 - The Device Exterior ................................................................. 8
Figure 2 - Buttons, Ports and Indicators .................................................. 9
Figure 3 - Scope of Supply .......................................................................... 11
Figure 4 - Example of Installation .............................................................. 13
Figure 5 – Add new device procedure (The IR Remote Control) ....................... 18
Figure 6 – Add new appliance process (Air conditioner) .................................. 19
Table 1 – LED Indicator Statuses .................................................................. 9
Table 2 – Basic Technical Specifications ..................................................... 10
Table 3 – Typical Errors and Troubleshooting Methods ................................... 30

Connection to the Perenio Smart Mobile App

A. INSTALLATION OF THE PERENIO SMART MOBILE APP ...................... 14
B. DEVICE ACTIVATION .............................................................................. 16
C. LOCATION AND ROOM SETTING.......................................................... 17
D. CONNECTION OF MANAGED APPLIANCES .......................................... 19
1 General Description and Specifications

1.1 Device Purpose

The Perenio® Red Atom infrared remote control simulates the operation of a typical remote control via the user interface implemented in the “Perenio Smart: Building Management System” mobile application, as well as third-party virtual voice assistants.

Key features of the Red Atom device are as follows:

- Support for Wi-Fi;
- iOS (10.1 and higher) and Android (5.1 and higher) smartphone compatibility;
- Integration with Yandex Smart Home (Alice), Google Home (Google Assistant) and Amazon Alexa;
- Low power consumption;
- Library of IR compatible devices;
- Wide angle of infrared radiation;
- Possibility to mount on a vertical surface;
- Remote control via a free Mobile App.

![Figure 1 - The Device Exterior](image)
Buttons, Ports and Indicators

**LED Indicator**
Blue LED for various device states (See Table 1)

**MicroUSB Port**
The cable port used to connect a USB-MicroUSB Cable and supply power to the device

**Reset Button**
The button used to reset the device to factory settings or activate it in the **Perenio Smart** app

Table 1 –LED Indicator Statuses

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>On</td>
<td>The device is switched on but not activated in the mobile app; or the device is switched on and activated in the mobile app, but there is a Wi-Fi network failure</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>The device is in the process of being activated in the mobile application</td>
</tr>
<tr>
<td></td>
<td>Flashing once</td>
<td>The device transfers data to the Remote Server</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>The device is operating normally</td>
</tr>
</tbody>
</table>
ATTENTION! All Products and the Mobile Application of the Company (including any future software and hardware whether in-house or third-party developed) are not intended for emergency responses and cannot be used as fire-extinguishing equipment and/or for emergency intervention, including but not limited to fires, flooding, gas leaks or explosions, burglary and theft, as well as natural disasters and other force majeure circumstances leading to damage and/or losses incurred by the Client or caused to their estates, personal property and/or other products, devices, personal data and privacy.

1.2 Technical Specification

Table 2 – Basic Technical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article</td>
<td>PETRA01</td>
</tr>
<tr>
<td>Communication Technology</td>
<td>Wi-Fi (IEEE 802.11b/g/n)</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>2.4GHz</td>
</tr>
<tr>
<td>Wi-Fi Coverage</td>
<td>up to 100 meters (open area)</td>
</tr>
<tr>
<td>Compatibility</td>
<td>iOS (10.1 and higher) and Android (5.1 and higher)</td>
</tr>
<tr>
<td>Integration</td>
<td>Yandex Smart Home, Google Home and Amazon Alexa</td>
</tr>
<tr>
<td>Server</td>
<td>Remote Server</td>
</tr>
<tr>
<td>Infrared Range</td>
<td>Up to 10 meters</td>
</tr>
<tr>
<td>Infrared Frequency</td>
<td>38KHz</td>
</tr>
<tr>
<td>Infrared Radiation Angle</td>
<td>360°</td>
</tr>
<tr>
<td>Power</td>
<td>Rated input voltage: 5V</td>
</tr>
<tr>
<td></td>
<td>Input current: 1A Max</td>
</tr>
<tr>
<td></td>
<td>Operating voltage: 4.75V to 5.25V</td>
</tr>
<tr>
<td></td>
<td>Standby power: 0.4W Max</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C to +50°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>10% to 85% RH</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>0°C to +70°C</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>5% to 95% RH</td>
</tr>
</tbody>
</table>
### Installation and Operation Manual for the Perenio® Red Atom IR Remote Control

©Perenio IoT spol s r.o. All Rights Reserved

---

### Parameter | Value
--- | ---
Installation | On a horizontal or a vertical surface. For indoor installation only.
Casing Material | ABS
Color | Black
Dimensions (L x W x H) | 50 x 50 x 19 mm
Weight | 27 g
Warranty Period | 2 years
Service Life | 4 years
Certification | CE, EAC, RoHS, UA.TR
Data Protection | GDPR Compliance

---

### 1.3 Scope of Delivery

The following items and accessories are supplied within the **Perenio® PETRA01 Red Atom** package:

1. PETRA01 IR Remote Control (1 pc.)
2. USB-MicroUSB Cable (1 pc.)
3. Quick Start Guide (1 pc.)
4. Warranty Card (1 pc.)
5. Polyurethane Adhesive Sticker (1 pc.)
6. Perenio® Sticker (1 pc.)

---

*Images of accessories are provided for informational purposes only*
1.4 Packaging and Labelling

The Perenio® PETRA01 Red Atom device is supplied in a carton Gift Box of 104 x 104 x 25 mm (L x W x H) containing the full name and marking of the device, the list of accessories provided and basic technical specifications thereof, as well as the date of manufacture and information about the manufacturing plant of devices.

Weights of the package are as follows:

- Net weight: 27 g;
- Gross weight: 130 g.

1.5 Safe Operation Rules

For the proper and safe operation of the IR Remote Control, follow the instructions and safety procedures described in the present Manual. The Manufacturer shall not be liable for any damage caused as a result of improper operation of devices.

Safe Operation Conditions

1. The device shall be installed indoors only.
2. Users shall observe storage/transportation conditions, as well as the operating temperature mode of the device as declared by the Manufacturer.
3. Do not use the device in areas with high humidity or extreme temperature variations.
4. Users must not drop, throw or bend the device, as well as disassemble or attempt to repair the device on their own.
5. In order to avoid personal injury, it shall not be allowed to use the cracked or in any other way damaged device.
6. Use dry cloth or cloth soaked in a small amount of water for cleaning (don’t use harsh chemicals/cleaning agents). The device must be powered off before cleaning.
7. Children shall not be allowed to use the device unsupervised and/or play with it.
2 Installation and Setup

Before installation, the User shall select one of the following possible locations and mounting modes for the device:

- On a horizontal surface;
- On a vertical surface (wall, furniture, etc.

**NOTE.** An adhesive polyurethane sticker may be used to mount the device in order to provide additional stability.

Also, make sure that the selected location meets the following requirements:

- Availability of a mains socket near the installation site of the IR Remote Control;
- No clutter and obstructions in the infrared range area.

**NOTE.** It is not recommended to install the device in areas with interior ceilings and other obstacles in the IR coverage area, since it may block the wireless signal transmission.

Below see possible locations for the IR Remote Control:

![Figure 4 - Example of Installation*](image)

* Images of accessories are provided for informational purposes only

The entire setting-up process can be divided into several key steps as follows:

- Logging in to the **Perenio Smart** User Account;
- Activation of the device via the Mobile App;
- Adding virtual remote control layouts to manage IR-compatible appliances.
2.1 Initial Installation and Configuration

2.1.1 Activation in the Perenio Smart Mobile Application

To connect the infrared remote control via the Perenio Smart application, the following steps shall be performed:

1. Unpack the device and connect it to the source of power using the USB-MicroUSB Cable.

   **NOTE.** Any suitable USB Charger (Output: 5V/1A) may be used to connect the device to the mains socket.

2. Login to your **Perenio Smart Building Management System** User Account (See par. **A** below).
3. Activate the device in the mobile application (See par. **B** below).
4. Enter the desired device name and Room of installation.

---

**A. INSTALLATION OF THE PERENIO SMART MOBILE APP**

The Red Atom device shall be managed through a free mobile application available for downloading in Google Play or Apple Store.

In order to log in to the User Account, follow the steps below:

- **a.** Connect your smartphone to the Wi-Fi Network and download the **Perenio Smart Building Management System** app from Google Play or Apple Store;

- **b.** Register a new User Account (See par. **A.1.** below) or sign in to an existing User Account (See par. **A.2.** below).
A.1. NEW USER ACCOUNT REGISTRATION

a. Fill in your e-mail address, user name and password (8 or more symbols including at least one capital letter and one number), then select the country of residence;

b. Agree to General Terms and Conditions, Privacy Policy and provisions for personal data protection (accessible by the link);

c. Click on the **SIGN UP** Button. The User will receive an email to verify the User Account (Follow the link);

d. Log in to the User Account.

A.2. LOGGING IN TO THE EXISTING USER ACCOUNT

a. Enter your e-mail address and password in the login screen.

b. Click on the **LOG IN** button.

**NOTE.** If the password is lost, the User can restore it by clicking on a corresponding link on the screen.

To restore a forgotten password, use the e-mail address linked to your User Account, as instructions on changing the password will be sent thereto.
B. DEVICE ACTIVATION

a. Click on the “+” icon in the upper right corner of the Devices tab, select “Add new device” and then the “IR Remote Control” device in the list;

b. Start searching for Sensors;

c. Press and hold the reset button until the LED Indicator starts blinking.

B.1. SENDING WI-FI NETWORK DATA TO THE DEVICE

Do as follows after the screen to connect the device to the Wi-Fi Network will be displayed:

a. Enter the password from the Wi-Fi Network or select another network;

**NOTE.** The device may be connected to Wi-Fi Network of 2.4GHz only.

b. Click on the **CONNECT** button.
B.1. CONNECTION ERRORS

The connection failure of the device may occur due to one of the following reasons:

a. Wi-Fi Network connection was lost;

b. Device connection period timeout;

c. An internal Server error occurred;

d. During the connection, the device was not detected.

**NOTE.** To eliminate connection failures, follow instructions specified on corresponding screens of the smartphone.

C. LOCATION AND ROOM SETTING

After successful connection of the device, the User may specify the following:

a. Device name;

b. Device Location;

c. Room.

You can also select an image for the device by clicking on the “Tap to change image” link.

After completion, click on the **DONE** button.

The IR Remote control will be displayed in the Devices tab.

The entire process of the Red Atom activation in the Mobile App is shown below.
2.1.2 Connection of Managed Appliances

After activation of the IR Remote Control in the Perenio Smart application, the User may connect various household appliances to be controlled remotely.

Connection of such appliances shall be performed in the control panel of the IR Remote Control (See Figure 6 below).

Figure 5 – Add new device procedure (The IR Remote Control)
D. CONNECTION OF MANAGED APPLIANCES

a. Click on the “+” icon in the upper right corner of the IR Remote Control panel;

b. Select the type of your managed appliance;

c. Select the manufacturer of your managed appliance.

d. Select the virtual remote control layout to be used for control of your appliance;

NOTE. To select an operating layout of the virtual remote control, and make sure that at least 3 (three) buttons on it are enabled and functioning (See Figure on the right).

Buttons are activated after the User switches the appliance to the ON mode on the smartphone screen. In this case, the managed appliance shall physically switch on.

e. Enter the desired name for the selected virtual remote control and save settings.

Figure 6 – Add new appliance process (Air conditioner)
2.1.3 Viewing the List of Managed Appliances

After virtual remote controls were successfully set up for the managed appliances, the User will be able to see them in the “Devices” tab, as well as in the control panel of a selected Red Atom device (See Figure on the left).

To view the list of managed appliances, click on the “View” button.

![Connected Devices](image)

2.1.4 Management via Google, Yandex and Amazon Applications

To connect the IR Remote Control via the Google Home application and/or Amazon Alexa, the device must be previously activated in the Perenio Smart application (See par. 2.1.1 above).

To connect the IR Remote Control via the Yandex Smart Home application, it can be activated as a Yandex remote control device.

**NOTE.** When activating the Red Atom device in third-party applications, the User shall follow instructions therein.

2.2 Changing the Room or Location for the IR Remote Control

When using the Red Atom device, it may be necessary to change its installation area. The following options are possible:

1. **Change the room/location** (The Wi-Fi Network remains the same):
   a. Disconnect the IR Remote Control from the source of power (The status of the device will be changed to “Offline”);
2. Change the room/location (The Wi-Fi Network will also be changed):
   a. Log in to the Perenio Smart app and select the Location where the IR Remote Control is activated;
   b. In the Devices tab, select the required IR Remote Control from the list and click on the icon (Settings);
   c. In the pop-up window, choose “Disconnect device”;
   d. Wait for around **3 minutes** in order for the IR Remote Control to disconnect from the current Wi-Fi Network;
   e. Disconnect the IR Remote Control from the source of power;
   f. Move the IR Remote Control to another room/location and connect it to the source of power;
   g. In the User Account, select the Location where you want to move the IR Remote Control;
   h. Activate the IR Remote Control in the Mobile App according to par. 2.1 “First Installation and Configuration” of this document.

2.6 History and Push-Notifications

All notifications and other messages including changes in **Perenio®** device statuses are displayed in the History tab. At the same time, the most important events are shown online in the notification window (اجتماع) in the User Account.

Available types of notifications are as follows:

- **Alarms** (These are always received like push-notifications on a smartphone, as well as recorded in the notification window and in the History tab in the Mobile Application);
- **Important messages** (These are recorded in the notification window in the Armed Mode, as well as always recorded in the History tab);
- **Standard events** (These are recorded in the History tab only).

**Alarms.** The most important messages such as device actuation notifications when in the Armed mode, including all alarms from both the Smoke Sensor and the Leak Sensor (even if in the Disarmed mode), as well as changes in the Control Gateway Online/Offline status.
**Important messages.** Notifications of the start and completion of the Control Gateway firmware update process, as well as low battery notifications and changes of the Armed/Disarmed mode for the Location.

**Standard events.** Various news and other information from *Perenio IoT*, as well as alerts from both the Door&Window Sensor and the Motion Sensor when in the Disarmed mode.
3 Maintenance and Repair

The Perenio® Red Atom does not require special maintenance in the normal course of operation. However, in order to maintain the proper state and stable operation of devices it is recommended to perform the following actions from time to time:

- Comply with safety operation rules for the device;
- Clean the device casing from dirt and dust at least once every six months;
- Check for updates of the Perenio Smart app;
- Check for the power adapter condition and replace it in a timely manner;
- Repair mechanical damages to the device (in Service Centers).

The IR Remote Control repairs shall be carried out in Service Centers, because casings will have to be opened in the case of any element failure.

In the case of warranty repairs or replacement, the User shall provide the Seller with the sales receipt and the purchased device.

For details on the replacement and repairs of the IR Remote Control, please contact your local Company representative or the Tech Support Department at perenio.com.
4 Warranty Obligations

The warranty period for the IR Remote Control shall be **Twenty-Four (24) months** from the date of sale to the End User.

The warranty period for components and accessories shall be as follows:

- External chargers, cables and other accessories: Six (6) months from the date of sale to the End Customer.

The Warranty Card shall be deemed valid provided that it is correctly and completely filled in by the Seller. Upon the purchase, the Customer shall check that both the Serial Number and the Model name of the device correspond to those indicated in the Warranty Card.

Incomplete or illegible Warranty Card shall be deemed not valid. In this case, it is recommended to contact the Seller and ask for a duly filled in Warranty Card. It shall be also allowed to provide the original of the sales/cashier’s receipt or such other documentary evidence of the fact and the date of sale of the device. The date of sale shall be the date indicated on the sales/cashier’s receipt or other relevant document. If the date of sale is not possible to be determined, the start of the warranty period shall be the date of manufacture of the device.

The Manufacturer shall guarantee that all materials, components and assemblies of Perenio® devices are free from defects under normal operation within the warranty period. The limited warranty shall be applied to the first End Customer of Perenio® devices only and cannot be transferred to a subsequent customer.

For warranty replacement, the device must be returned to the Seller along with its receipt. Warranty obligations for Perenio® devices shall be provided in the country of their purchase only.

**WARRANTY SERVICE PROCEDURE**

In the case of any alleged defect or deficiency of the device detected, the Customer shall contact the Authorized Service Center before the warranty period expiration and provide the following:

1. The device with an alleged defect or deficiency.
2. The Warranty Card filled out in accordance with the applicable legal requirements, or the original of the document confirming the purchase of the device, including clear indication of the name and the address of the Seller, as well as the date when this device was sold.
LIMITATION OF LIABILITY

Perenio® devices SHALL NOT BE SUBJECT TO a free warranty service in the case of identification of at least one of the following damages or defects:

- Any damage caused by force majeure, accidents, and willful or careless acts (omissions) of the Customer or third parties;
- Any damage caused by the impact of other objects including but not limited to exposure to moisture, dampness, extreme temperatures or environmental conditions (or jumps in such conditions), corrosion and oxidation, as well as penetration of food or liquid, and the effects of chemicals, animals, insects and byproducts thereof;
- In the event when the device (accessories and/or components) was unsealed (the seal integrity was violated), modified or repaired by any party other than the Authorized Service Center, including repair works using unauthorized spare parts;
- Any defects or damage caused by improper or unintended use of the device, including operation contrary to available manuals;
- Any defects caused by attempts to connect to incompatible software;
- Any defects caused by natural wear and tear of Products, including bags, casings, batteries or Installation and Operation Manuals;
- In the event when the Serial Number (Name Plates), the date of manufacture or the Model name on the device casing was in any way removed, erased, affected, altered or made illegible;
- In the case of violation of operating procedures and conditions, as well as the device installation instructions described in relevant Manuals;
- Cracks, scratches and other defects caused as a result of transportation and/or operation of the device by the Customer or acts of negligence on their part;
- Mechanical damages that occurred after transferal of the device to the Customer including damage caused by sharp objects, bending, squeezing, falling, etc.;
- Any damage caused by non-conformity with the standards of power supply, telecommunication and cable networks or similar external factors.

THE PRESENT LIMITED WARRANTY IS AN EXCLUSIVE AND THE ONLY PROVIDED GUARANTEE THAT SHALL REPLACE ANY OTHER EXPRESS AND IMPLIED GUARANTEES. THE MANUFACTURER SHALL PROVIDE NO GUARANTEES, WHETHER EXPRESS OR IMPLIED, BEYOND THE DESCRIPTION CONTAINED IN THE PRESENT DOCUMENT, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE CUSTOMER MAY USE DEFECTIVE OR INAPPLICABLE DEVICE AT HIS/HER OWN DISCRETION. THE MANUFACTURER SHALL NOT BE RESPONSIBLE FOR DAMAGE TO OTHER PROPERTY CAUSED BY DEVICE DEFECTS, THE LOSS OF USABILITY OR TIME OR FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGE OR LOSS INCLUDING BUT NOT LIMITED TO COMMERCIAL
LOSS, LOSS OF PROFITS, LOSS OF CONFIDENTIAL OR OTHER INFORMATION, AS WELL AS DAMAGES CAUSED BY BREAKS IN COMMERCIAL OR PRODUCTION ACTIVITIES DUE TO THE FACT THAT THE DEVICE WAS RECOGNIZED AS FAULTY, DEFECTIVE OR NOT ALLOWED FOR USAGE.

The present limited warranty shall provide the Customer with certain legal rights. The Customer may also have other rights in accordance with the local consumer protection laws that vary from country to country and may not coincide with this limited warranty. For full understanding of the Customer’s rights, you shall read local acts.

**NOTE.** The Manufacturer does not produce equipment for *Vital Tasks*. Vital Task Products shall include life support systems, medical equipment, implantation-related medical devices, commercial transportation, nuclear equipment or systems, and any other fields of application where equipment failures may do harm to a humans’ health or cause their deaths, as well as result in a property damage.
5 Storage, Transportation and Disposal of Devices

The Perenio® Red Atom device may be shipped by any kind of covered vehicles (by rail, or road or in sealed heated airplane compartments, etc.) in accordance with the requirements of current regulatory documents applicable to fragile goods sensitive to moisture.

Similar conditions shall apply to the device storage at the Seller’s warehouse.

It is also required to comply with the temperature and humidity conditions of storage and operation specified in the Table of technical specifications of the present Manual.

For disposal of devices and/or batteries, the User shall observe rules of the Directive on Waste Electrical and Electronic Equipment (WEEE) according to which all electric and electronic products, as well as batteries must be disposed of separately at the end of their service life. Such devices and accessories must not be disposed of together with unsorted municipal waste due to their potential to cause harm to the environment.

For the device disposal purposes, it shall be returned to the point of sale or to the local processing center.

For detailed information on recycling of the present device, please contact your waste management company.

**NOTE.** The User must comply with the temperature and humidity conditions of storage and transportation specified in the Table of technical specifications of the present Installation and Operation Manual.
# 6 Other Information

## Manufacturer

<table>
<thead>
<tr>
<th>Name</th>
<th>Perenio IoT spol s r.o.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Na Dlouhem 79, Ricany – Jazlovice 251 01, Czech Republic</td>
</tr>
<tr>
<td>Contact Info</td>
<td>perenio.com, <a href="mailto:info@perenio.com">info@perenio.com</a></td>
</tr>
</tbody>
</table>

## Manufacturing Plant

<table>
<thead>
<tr>
<th>Name</th>
<th>Shenzhen Forever Young Technology Co., Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>4/F, No.5 Bldg, Fuhong Industrial Park, Fu Yong Town, Bao'an District, Shenzhen, China</td>
</tr>
</tbody>
</table>

## Importing Company

### Croatia

<table>
<thead>
<tr>
<th>Name</th>
<th>ASBISc-CR d.o.o.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Slavonska avenija 24/6, 10000 Zagreb, RH</td>
</tr>
</tbody>
</table>

### Czech Republic

<table>
<thead>
<tr>
<th>Name</th>
<th>ASBIS CZ, s.r.o.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Obchodní 103, Čestlice, 25101</td>
</tr>
</tbody>
</table>

### Poland

<table>
<thead>
<tr>
<th>Name</th>
<th>ASBIS POLAND Sp. z o.o.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Ul. Szyszkowa 43, 02-285 Warszawa</td>
</tr>
</tbody>
</table>

## Quality Claims Acceptance and Warranty Service Company

### Croatia

<table>
<thead>
<tr>
<th>Name</th>
<th>ASBISc-CR d.o.o.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Slavonska avenija 24/6, 10000 Zagreb, RH</td>
</tr>
</tbody>
</table>
Czech Republic
Name  ASBIS CZ, s.r.o.
Address  Obchodní 103, Čestlice, 25101

Poland
Name  ASBIS POLAND Sp. z o.o.
Address  Ul. Szyszkowa 43, 02-285 Warszawa

Info on Certificates and Declarations

<table>
<thead>
<tr>
<th>Certificates</th>
<th>Certificate of conformity #TB181020104 as of October 25, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Declarations, reports</td>
<td>Report TB-RoHS162401 as of ; LVD Test report #TB181020104 as of October 26, 2018; EMC Test report #TB181020104 as of October 20, 2018;</td>
</tr>
</tbody>
</table>

Addresses of Service Centers are available at perenio.com in the ‘Support’ Section.
7 Troubleshooting

Table 3 below shows typical errors and problems that may occur in the process of connection and configuration of the Perenio® Red Atom device.

Table 3 – Typical Errors and Troubleshooting Methods

<table>
<thead>
<tr>
<th>Item No</th>
<th>Problem</th>
<th>Possible Reasons</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The device does not activate in the mobile app</td>
<td>Incorrect Wi-Fi router settings</td>
<td>Add the Access Point of 2.4 GHz</td>
</tr>
<tr>
<td>2</td>
<td>LED Indicator is off</td>
<td>No power is supplied to the device</td>
<td>Make sure that the device is plugged in and switched on, or contact the Tech Support Department</td>
</tr>
<tr>
<td>3</td>
<td>Remote control function does not work</td>
<td>Wrong virtual remote control layout was selected to manage an appliance</td>
<td>Select another remote control layout in the application, or check that the distance from the Red Atom device to the managed appliance corresponds to the declared IR range</td>
</tr>
</tbody>
</table>
8 Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amazon Alexa</td>
<td>Virtual assistant that is able to listen to the User's voice commands and respond thereto with specific messages</td>
</tr>
<tr>
<td>Google Home</td>
<td>Wireless speaker for management of smart devices with the personal Google Assistant</td>
</tr>
<tr>
<td>IoT</td>
<td>The Internet of Things is a system of Internet-connected devices able to collect and exchange data coming from built-in services</td>
</tr>
<tr>
<td>Location</td>
<td>General designation of a building or premises where Perenio® devices are installed</td>
</tr>
<tr>
<td>Perenio Smart</td>
<td>Software developed by Perenio IoT for remote control of devices from smartphones</td>
</tr>
<tr>
<td>Yandex Smart Home</td>
<td>Application that allows the User to control smart devices through the Alice voice assistant</td>
</tr>
<tr>
<td>ZigBee</td>
<td>A network protocol designed for secure transmission of data at low speeds, which is recognized for an extremely low power consumption</td>
</tr>
</tbody>
</table>