Perenio Smart: Building Management System Mobile App Manual

(For smartphones based on Android 5.1 and higher)

March, 2020
Introduction

Perenio Smart Building Management System (hereinafter referred to as the Perenio Smart) is a mobile application for smartphones based on Android and iOS operating systems that is designed specifically for remote control of Perenio® Devices.

The mobile application is free and available for download on Google Play and App Store.

The present Manual contains a detailed description of the User interface, as well as steps for installation and configuration of the same.

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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.

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For any technical issues, please contact your local Perenio IoT representative or the Tech Support Department at perenio.com.

The most common problems may be found in Section 3 of the present document and at perenio.com where you can also download the latest version of this Installation and Operation Manual.

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1 General Description and Specifications

1.1 Description and Intended Use

The Perenio Smart Building Management System mobile application allows Users to remotely control and manage all connected devices from a single or several User Accounts, as well as optimize their operation based on requirements for a particular room/building.

A simple and intuitive interface makes it possible to combine a large number of surveillance cameras, sensors and other security devices into a single harmonized system, while notifications of various severity, as well as distribution of devices by Locations simplify identification of incoming alarms.

The Perenio Smart mobile app interface consists of the following four tabs and a side menu:

1. Devices.
2. Scenarios.
3. Rooms.
4. History.
5. Left Side Menu.

Each tab contains general and special icons and buttons of specific functionality.

For a detailed description of each tab, see Section 2 of the present document.

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 Hardware and Software Requirements

For installation and stable operation of the Perenio Smart Mobile App, the User will need a smartphone based on the Android 5.1 operating system and higher with the Internet access allowed.
1.3 Installation of the Mobile Application

Management of Perenio® devices is carried out through a free mobile application available for downloading from the Google Play (Android). To install the application on a mobile device, follow the steps below:

1. Connect your smartphone to Wi-Fi Network.
2. Switch to Google Play and enter the mobile app name (Perenio Smart) in the search bar.

1.4 Safe Operation Rules

To enhance the level of security when using the Perenio Smart app, it is recommended to follow below rules:

1. Download official Perenio IoT applications available in Google Play.
2. Install antivirus software on your smartphone and update it in a timely manner.
3. Do not leave your smartphone unattended to prevent third parties from using the Mobile App.
4. Do not tell unauthorized persons your User Account login and password.
5. Not to give access to control your devices to any persons who may use them for purposes other than intended.

NOTE. To login to the Perenio Smart Mobile App, the User shall enter both the email address and the password specified during registration of his/her Account. If the application requests any permissions that are suspicious or clearly do not correspond to its functionality, it is recommended to deny such permissions.
2 Perenio Smart App Operation

The remote control of purchased Perenio® devices shall be performed from the Perenio Smart User Account. To get started with the mobile application, the following steps shall be performed:

- Login in to your User Account;
- Activate the Perenio® Camera, IR Remote Control, Control Gateway or IoT Router (hereinafter referred to as Wi-Fi Devices);
- Connect sensors or other ZigBee devices (if any) to the Control Gateway or IoT Router.

For further settings, custom scenarios, etc., see the User interface description below.

2.1 Logging in to the User Account

A. NEW USER ACCOUNT REGISTRATION

a. Start the Perenio Smart App and click on SING UP Button;

b. 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;

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

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

e. Login in to the User Account.
B. LOGGING IN TO THE EXISTING USER ACCOUNT

a. Start the Perenio Smart App and click on **LOG IN** Button;

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

c. Click on the **LOG IN** Button.

**NOTE.** If the password was 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, to which instructions on changing the password will be sent.

2.2 Wi-Fi Device Activation in the Mobile App

To activate the Wi-Fi Device in the **Perenio Smart**, the User shall perform the following steps:

1. Unpack the device and plug it in.
2. Scan the QR Code, or enter the Wi-Fi Device data manually (See par. C below).
3. Enter your Wi-Fi Network data (See par. D, as well as par. 2.4 for network frequency selection).
4. Enter the desired Wi-Fi Device name, Location and Room (See par. E below).

**ATTENTION!** The Device must not be switched off or disconnected from the mains for at least **5 MINUTES** after the RESET Button is pressed, as well as for at least **10 MINUTES** after the firmware update process is started.
C. DEVICE ACTIVATION BY QR CODE SCANNING

a. Switch to the QR Scan screen as follows:

- **For new Users**: The QR Scan screen will be displayed immediately after the first login to the Perenio Smart App User Account;
- **For existing Users**: After login to the Perenio Smart App User Account, click on the “+” icon in the upper right corner of the Devices tab, then click on “Add new device” and select the activated device from the list (See Figure 1).

b. Click on the **SCAN QR CODE** button;

c. Confirm the permission to access your Wi-Fi Device in the pop-up window (It may not be available for certain smartphone models);

d. Find the QR Code sticker on the back of the Quick Start Guide supplied with the Wi-Fi Device or on the bottom of the Wi-Fi Device and place the smartphone 15-20 cm away from it, so that the QR Code is completely visible on the smartphone screen (See the picture on the left).

**NOTE.** In the event that the QR Code can’t be scanned, you may activate the device manually (see par. C.1. below).
C.1. MANUAL ACTIVATION OF THE DEVICE

If the QR Code was damaged or lost, you can enter the device data manually as follows:

a. Click on the ENTER MANUALLY button at the bottom of the QR Code scan screen (See the figure in par. C);

b. Enter the Device ID and the Password specified in the Quick Start Guide or on the bottom of the device (ID and Password lines next to the QR Code);

c. Click on the CONNECT button.

D. 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.

**NOTE.** Before connecting, make sure that the Wi-Fi Device is powered on and that the smartphone is located at a distance of not more than 2 meters from it.
D.1. CONNECTION ERRORS

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

a. The device is switched off or at a too long distance from the smartphone;

b. The device was already activated in the current or some other User Account;

c. The device ID and/or password or Wi-Fi Network data was entered incorrectly;

d. Internet Provider failures.

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

---

E. 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 Wi-Fi Device will be displayed in the Devices tab.

The entire process of the Wi-Fi Device activation in the Mobile App is shown below.
Figure 1 – Add new Wi-Fi Device procedure (The CG activation process)
2.3 Connection of Sensors to Wi-Fi Devices

Currently, sensors and other Perenio® ZigBee devices are activated in the mobile application through pre-installed Control Gateway or IoT Router only.

In order to connect the sensor, it is necessary to perform the following steps:

1. Unpack the Sensor and switch it on.
2. Login in to the Perenio Smart Building Management System User Account (See par. B above).
3. Connect the Sensor to the Mobile App (See par. F below).
4. Enter the desired Sensor name and select the Room of installation.
5. Install the Sensor in the selected room.

F. CONNECTION TO THE CONTROL GATEWAY

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

b. Select the Wi-Fi Device to which the Sensor shall be connected (This screen will be displayed, only if there are several Control Gateways/IoT Routers were activated in the User Account).

NOTE. The Control Gateways/IoT Routers must be connected to the mains and the Internet, as well as activated in the Perenio Smart App.

c. Start searching for Sensors;

d. If the LED flashes slowly after the first power on of the device, proceed to the Step e, otherwise press and hold the reset button as specified in the screen of your smartphone.

NOTE. Several sensors may be connected to the Control Gateways/IoT Routers at once.

e. After successful connection, enter the Sensor’s name and select the Room.
F.1. CONNECTION ERRORS

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

a. The device is switched off or at a too long distance from the Control Gateway (4.5 meters);

b. The Control Gateway is offline;

c. The LED Indicator was blinking before start of the sensor connection (You should remove the sensor battery and insert it back into the casing).

**NOTE.** To eliminate connection failures, follow instructions specified on corresponding screens of the smartphone.
The entire process of the Sensor connection in the Mobile App is shown below.

![Sensor connection process](image)

**Figure 3** – Add new device (Sensor) procedure

### 2.4 Wi-Fi Router Frequency Settings

Most of Perenio® Wi-Fi Devices may be connected to the Wi-Fi Network of 2.4GHz only. Due to this fact, the User shall make sure that your Wi-Fi Router is set to the above frequency before proceeding to par. **D. “SENDING WI-FI NETWORK DATA TO THE DEVICE”**.
Currently, Wi-Fi routers of most manufacturers support both frequencies, but in the case your local Wi-Fi is set to 5GHz only, it is necessary to add the access point of 2.4GHz as well.

**NOTE.** Your Wi-Fi router frequency settings shall be performed according to instructions of its manufacturer.

### 2.5 The Use of MicroSD

Images and video files recorded by the Camera can be stored in the MicroSD Card, which is not included in the delivery package. To use a MicroSD Card, you may just purchase it and insert it into a special slot.

In the case appropriate settings are made in the Perenio Smart Mobile App, it is possible to automatically save video records in the case of motion detection to the MicroSD Card.

It should be noted that in the case of video and image storage on the MicroSD Card, the number of saved files will depend on its capacity (up to 64GB), as well as on the duration and quality of the recorded video files.

**ATTENTION!** There is no possibility to view third-party files from the MicroSD Card via the Perenio Smart Mobile App.

### 2.6 Changing the Room or Location for the Wi-Fi Device

When using Cameras, the Control Gateway or the IoT Router, it may be necessary to change their installation area. The following options are possible:

1. **Change the room/location** (The Wi-Fi Network remains the same):
   a. Disconnect the Wi-Fi Device from the mains (The status of the device will be changed to “Offline”);
   b. Move the Wi-Fi Device to another room/location and connect it to the mains;
   c. Wait until the Wi-Fi Device is rebooted (It usually takes no more than 2 minutes) and the status of the device is changed to “Online”;
   d. Change the Room/Location in Wi-Fi Device settings.
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 Wi-Fi Device is activated;
   b. In the Devices tab, select the required Wi-Fi Device 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 Wi-Fi Device to disconnect from the current Wi-Fi Network;
   e. Disconnect the Wi-Fi Device from the mains;
   f. Move the Wi-Fi Device to another room/location and connect it to the mains;
   g. Wait until the Wi-Fi Device is rebooted (It usually takes no more than 2 minutes);
   h. In the User Account, select the Location where you want to move the Wi-Fi Device;
   i. Activate the Wi-Fi Device in the Mobile App according to par. 2.2 “Wi-Fi Device Activation in the Mobile App”.

2.7 **Changing the Room or Location for Sensors**

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

1. **Change the room/location** (The CG remains the same) as follows:
   a. Demount the Sensor and move it to another room;
   b. Make sure that the Sensor is at an allowable distance from the CG;
   c. Install the Sensor in a new room (Use a new 3M tape, if required);
   d. Change the Room in Sensor settings in the User Account.

2. **Change the room/location** (Connection to another CG is required) as follows:
   a. Login in to the Perenio Smart app and select the Location where the Sensor is activated;
   b. In the Devices tab, select the required Sensor from the list and click on the icon (Settings);
   c. In the pop-up window, choose “Disconnect device”;  
   d. Demount the Sensor and move it to another room/building;
   e. Make sure that the Sensor is at an allowable distance from the CG;
   f. In the User Account, select the Location where you want to move the Sensor;
g. Initiate the Sensor search by the Control Gateway through the Perenio Smart application according to par. 2.3 “Connection of Sensors to Wi-Fi Devices”;

h. Install the Sensor in a new room (Use a new 3M tape, if required).

**NOTE.** The User can manually disconnect the Sensor from the Control Gateway. To do this, press and hold the Reset button on the Sensor until the LED flashes (It usually takes no more than 5 seconds).

To check that the Sensor was successfully disconnected, you should update the list in the Devices tab (Pull the screen down until the progress icon appears and the data is updated). If the sensor is disconnected, it will disappear from the list of connected devices.

### 2.8 Using the Camera Speaker

The User can watch videos captured from the Camera in a real time mode. However, when switching to the video viewing screen, it should be remembered that the Camera speaker is **enabled by default**. To watch video in a mute mode, you should turn off the speaker by clicking on a corresponding icon (🔇) in the Camera panel.

### 2.9 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 (🔔) 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 motion detection notifications when in the Armed mode, changes in the Camera Online/Offline status, as well as in cases when there is not enough memory space on the SD Card to keep video recording.
Important messages. Notifications of the start and completion of the Camera firmware update process, as well as changes of the Armed/Disarmed mode for the Location.

Standard events. Various news and other information from Perenio IoT.

2.10 Perenio Smart App User Interface

For easy navigation and use of the Perenio Smart application, several tabs and Left Side Menu are provided therein. See detailed description in sub-pars. 2.10.1 to 2.10.5 of the document.

2.10.1 Devices Tab

Information about all Cameras, Control Gateways and sensors located in the current location is automatically displayed in the Devices tab after logging in to the User Account.

Device Tab functionality is as follows:

- Overview of general information and statuses of connected devices within the Location;
- Option to change settings of connected devices;
- Option to add new devices;
- Switching to the device control panel;
- Overview of notifications and alarms.

The Table below contains a detailed description of icons and buttons.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Switching to the Left Side Menu of the Perenio Smart app</td>
</tr>
<tr>
<td></td>
<td>Option to search for and filter the list of displayed devices</td>
</tr>
<tr>
<td>Icon</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>📬</td>
<td>The list of unread messages and notifications</td>
</tr>
<tr>
<td>🔍</td>
<td>The icon to activate a new device in the Location</td>
</tr>
<tr>
<td>🛠️</td>
<td>The list of connected devices (For Control Gateways/IoT Routers only)</td>
</tr>
<tr>
<td>🎥</td>
<td>The list of video records (For video recording devices only)</td>
</tr>
</tbody>
</table>

Device settings. The following is available:

- Overview of the device firmware version;
- Rename the device;
- Change the device image;
- Change the device Location;
- Add the device to the Room;
- Change the quality of video stream;
- Enable the SD Card recording;
- Disconnect the device.

To switch to the device control panel, you should click on its image in the list.

**DEVICE CONTROL PANEL (CAMERA)**

The following tabs are available in the control panel:

- **Control**: Management of the device;
- **Presets**: Predefined position of the camera rotary head (For Motor Cameras);
- **Records**: The list of video records taken from the Camera.
### Figure 4 – Camera control panel tabs

#### Table 2 – Buttons and icons of the Camera Control Panel

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔖</td>
<td>Return to the Devices tab</td>
</tr>
<tr>
<td>🔔</td>
<td>The list of unread messages and notifications</td>
</tr>
<tr>
<td>🔒</td>
<td>Device settings. The following is available:</td>
</tr>
<tr>
<td></td>
<td>• Overview of the device firmware version;</td>
</tr>
<tr>
<td></td>
<td>• Rename the device;</td>
</tr>
<tr>
<td></td>
<td>• Change the device image;</td>
</tr>
<tr>
<td></td>
<td>• Change the device Location;</td>
</tr>
<tr>
<td></td>
<td>• Add the device to the Room;</td>
</tr>
<tr>
<td></td>
<td>• Change the quality of video stream;</td>
</tr>
<tr>
<td></td>
<td>• Enable the SD Card recording;</td>
</tr>
<tr>
<td></td>
<td>• Disconnect the device.</td>
</tr>
<tr>
<td>⌚️</td>
<td>Rotate the screen 90°</td>
</tr>
<tr>
<td>📸</td>
<td>Take a screenshot from the camera</td>
</tr>
<tr>
<td>🌪</td>
<td>Stop video streaming</td>
</tr>
<tr>
<td>Icon</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>🎧️</td>
<td>Enable/disable camera speaker</td>
</tr>
<tr>
<td>📸🔍</td>
<td>Expand image to full screen</td>
</tr>
<tr>
<td>📸</td>
<td>Take a picture from the camera</td>
</tr>
<tr>
<td>⏪</td>
<td>Scroll the video back</td>
</tr>
<tr>
<td>⏯️</td>
<td>Play video or start live streaming</td>
</tr>
<tr>
<td>⏫</td>
<td>Scroll the video forward</td>
</tr>
<tr>
<td>⬆️ ⬇️</td>
<td>Virtual joystick to rotate the Camera head (Displayed for Motor Cameras only)</td>
</tr>
</tbody>
</table>

**INFORMATION.** A preset is a predefined angle of pan/tilt of the Camera to which it will automatically return after a specified period of time if it was changed by the User.

The User can watch videos captured from the Camera in a real time mode. However, when switching to the video viewing screen, it should be remembered that the Camera speaker is **enabled by default**. To watch video in a mute mode, you should turn off the speaker by clicking on a corresponding icon (🎧️) in the Camera panel.
DEVICE CONTROL PANEL (CONTROL GATEWAY, IOT ROUTER)

The Control Gateway control panel consists of a single tab, where you can see the data on the number of devices connected, as well as the current firmware version.

The following settings are also available:

- Rename the device;
- Change the device image;
- Change the device Location;
- Add the device to the Room;
- Disconnect the device.

DEVICE CONTROL PANEL (SENSOR)

In the control panel of the sensor, you can view information about the battery level, enable or disable sounds of push-notifications to the User smartphone, as well as the number of related scenarios, and the event history.

The following settings are also available:

- Rename the device;
- Change the device image;
- Add the device to the Room;
- Disconnect the device.
2.10.2 Scenarios Tab

In this tab, the User can arm all devices in the Location, and in such a way receive push-notifications when any device is triggered.

**NOTE.** Both the Smoke Sensor and the Leak Sensor are always in the Armed Mode regardless of enabled scenarios.

If the Armed Mode is enabled, the User will be receiving all alarms as push-notifications to the smartphone.

If the Armed Mode is disabled, messages about Sensor triggering, as well as device firmware updating, low battery charge, etc. will be displayed in the “History” tab.

2.10.3 Rooms Tab

In this tab, the User may get information about Rooms created in the Location, as well as add a new room, and also change the name and/or image for the room, or delete it.

If you click on the desired room in the list, all devices added to it will be displayed.
2.10.4 History Tab

In this tab, the User will see the list of records of device events, namely:

- Change of application statuses;
- Device triggering;
- Low battery notifications and other messages;
- Start and completion of firmware updates, etc.

The User can view the entire history or only alarms for a certain period of time (configurable).

2.10.5 Left Side Menu

The Left Side Menu is designed to navigate through general sections of the mobile application and change the current Location/User Account. The following sections are available:

- **Current Location and the User Account**: The list of all Locations and Accounts available to the User will be displayed. The following actions are possible:
  - Exit the current Location;
  - Create a new Location to your Account;
  - Edit the Location (name, image) or delete it;
  - Delete an existing User Account;
  - Add a new User Account.

- **My Account**: Information on the User Account where the User may change username, sign out or delete the Account;

- **Blog**: Link to the Perenio IoT web-site;
- **Shop**: Link to online store where you can purchase Perenio® products;
• **Help:** Switching to the Technical Support section of the web-site.

### 2.11 Setting the Time Zone

The User may set the time zone for any new and existing Locations in the User Account, which allows to correctly display the time of events and notifications.

The following ways to set the time zone are possible:

- **For new Location:** Switch to the Side Menu, click on the current location, and then on the “+” icon in the upper right corner of the pop-up window displaying the list of Locations. The screen for creating a new Location will be displayed. Click on the “Time Zone” to see the list of cities and related time zones. Enter the desired city (capital) in the search bar and select it in the list. After that, click on **CREATE NEW LOCATION** button.

- **For available Location:** Switch to the Side Menu, click on the current Location to see the pop-up window displaying the list of Locations. Click on the **箩** icon in the upper right corner of the desired Location. The screen to edit Location data will be displayed. Click on the “Time Zone” to see the list of cities and related time zones. Enter the desired city (capital) in the search bar and select it in the list.

### 2.12 Exiting and Deleting the User Account

Logging out as well as deleting the User Account shall be performed from the Side Menu as follows:

- Switch to the Side Menu;
- Select “My account” in the list;
- Select “Logout” to exit the User Account (during the next log in, the User will have to re-enter both the username and the password), or “Delete account” to delete the User Account from the Perenio Smart app.
2.13 Perenio Smart Mobile App Updating

*Perenio IoT* is committed to continuous improvement of its product quality, so an updated version of the *Perenio Smart Building Management System* application is uploaded to the Google Play on a regular basis.

In this regard, it is recommended to allow automatic updating of our application on your mobile device.
## 3 Troubleshooting

Table below shows typical errors and problems that may occur in the process of installation and configuration of the Perenio Smart Mobile app.

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>Slow operation of the Camera or video loss</td>
<td>Camera and/or Internet connection failure</td>
<td>Try to reconnect the Camera or wait until the connection to the network is restored</td>
</tr>
<tr>
<td>2</td>
<td>The Camera is offline (Video is unavailable)</td>
<td>Camera and/or Internet connection failure</td>
<td>Try to reconnect the Camera or wait until the connection to the network is restored</td>
</tr>
<tr>
<td>3</td>
<td>Initial connection of the CG to Wi-Fi failed</td>
<td>Incorrect settings of the Control Gateway</td>
<td>Restore factory settings by pressing the reset button on the Control Gateway</td>
</tr>
</tbody>
</table>
## 4 Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG</td>
<td>The Perenio® PEACG01 Control Gateway</td>
</tr>
<tr>
<td>Location</td>
<td>General designation of a building or premises where the Perenio® Control Gateway</td>
</tr>
<tr>
<td>MicroSD</td>
<td>A small-sized electronic memory device that is used for storage of digital information</td>
</tr>
<tr>
<td>Perenio Smart</td>
<td>Software developed by Perenio IoT for remote control of devices from smartphones</td>
</tr>
<tr>
<td>QR Code</td>
<td>The quick response code which represents a matrix barcode containing information about the object to which it is linked</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>The area that falls into the field of view of the Camera. The viewing angle depends on the focal length of the Camera lens and the image sensor size</td>
</tr>
<tr>
<td>Wi-Fi Device</td>
<td>Perenio® IoT Routers, Cameras, IR Remote Control and the Control Gateway that are to be connected to a Wi-Fi Network and activated in a mobile application by scanning the QR Code or entering data manually</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>