



## Waldmann CHEKOV Desk Sensor Instruction Manual

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# Waldmann

Instructions For Use



**CHEKOV  
DESK SENSOR**

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## Welcome to Waldmann

Thank you for having purchased a product of the Waldmann brand. The highest product quality and a customer-friendly service are the basis for the successful distribution of Waldmann products throughout the world. If you want to make use of our service, our service team can be reached at:

Service-Hotline: +49 (0) 77 20 / 6 01 – 170

Service-E-Mail: [service@waldmann.com](mailto:service@waldmann.com)

Your Waldmann team

## For your Safety

The device has been developed and manufactured according to state-of-the-art technology. Nevertheless, personal injury or property damage can occur during use.

Read all the enclosed instructions and information and follow the safety instructions and warnings.

Only use the device in perfect technical condition. Keep this document on hand near the device.

Please also follow all information and warnings of other documents from connected devices, including, but not limited to, the USB power supply.

Only operate in dry rooms.

Do not operate in rooms with a potentially explosive atmosphere.

## Intended use

The device is a presence detector for desktop workspaces with an integrated display for e.g. reservations.

The device is connected to a cloud-based service via Wi-Fi or a BlueRange mesh network.

For configuration purposes also an NFC transponder is included.

The device is powered via a micro-USB connector.

## Repairs

Always have repair work carried out by the manufacturer, a service technician assigned by the manufacturer, or by a comparably qualified person. Only use spare parts approved by the manufacturer.

## Cleaning

Clean the device with a cloth and a mild cleaning agent. To avoid property damage through the wrong cleaning agents, please check at an unremarkable position.

## Disposal

Dispose of the device separately from domestic waste at the responsible and state-specified sites.

You avoid negative consequences for humans and the environment by disposing of the product properly.

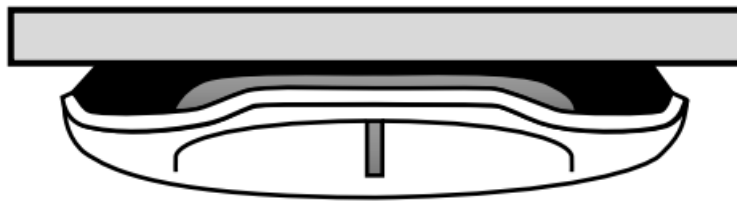
## Scope of supply

- Desk Sensor “Chekov”
- Micro-USB cable (1.8m length)
- Adhesive pad (for installation under tabletop)

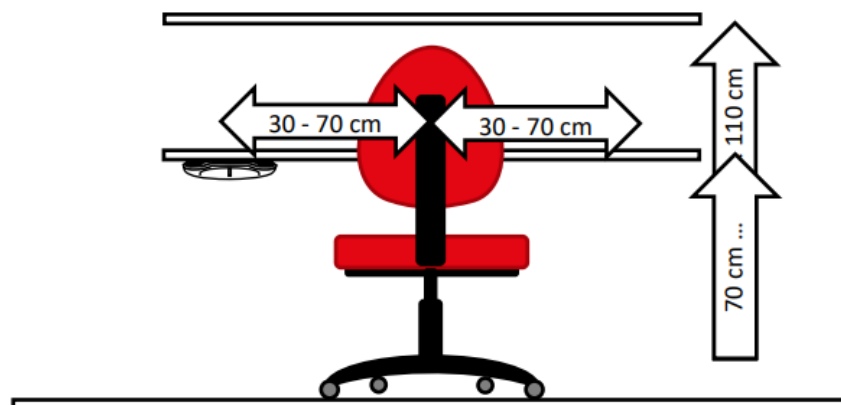
## Components

- PIR sensor with shutter (rotatable)
- Status-LED (RGB)
- 2x User Push Button
- QR code for BlueRange Enrollment
- NFC Transponder
- Config Push Button
- USB-connector
- Expansion Port (for later use)
- Mounting holes (optional)

## Installation

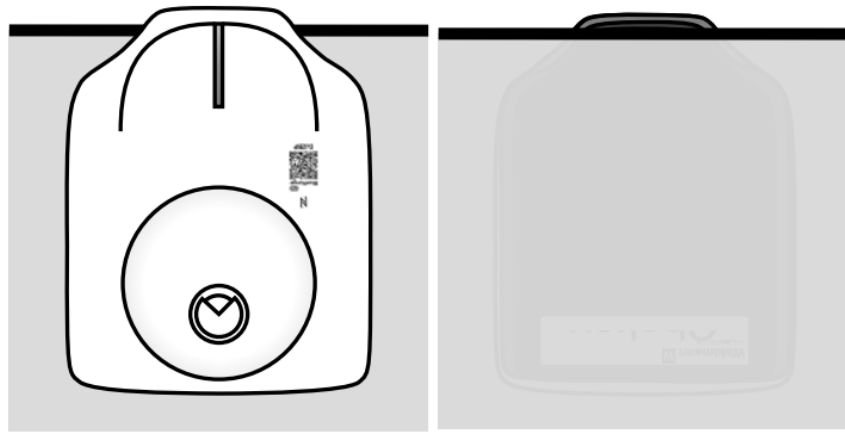


The device is intended to be installed under the tabletop of desks or high tables or adjustable desks (app. 70cm to 110cm height). Place the device 30cm to 70cm left or right from the seating position. Please keep in mind, that the chair does not cover the sensor, as the user then cannot see the status of the workplace.



The sensor can be installed using the included adhesive pad. Please keep the surface free of dust and grease. Alternatively, you might also use screws (not included) and attach the sensor through the mounting holes.

The front of the device with the status-LED should be aligned with the table's edge.



bottom view

top view

### USB-connection

The device will be powered through its micro-USB connector. Please use the included cable to connect the device with a USB power supply (5V, not included).

A multi-port USB power supply can support multiple devices at the same time, providing sufficient power per port (see also Technical Data).

Please keep in mind, that the cable does not block the sight of the sensor. Please also avoid putting tension on the cable. Do not kink.

### Initial commissioning Wi-Fi



After power-up, the status-LED will show pulsating purple.



As no configuration data is present, the device automatically switches to the configuration mode. The status-LED will blink three times.



While the device prepares for configuration, the status-LED will pulsate orange. Please hold on.



When the device is ready for receiving its configuration data, the status LED will show static orange.



On your mobile device, please go to the LVE App.



Enter your configuration data.

Wi-Fi: SSID, Password

MQTT: Account, Password



Transfer the data via NFC to the sensor. The NFC transponder is located under the sticker showing a QR code on the white cover. The position of mobile device NFC can vary depending on the model.



The device confirms a successful transmission with three times green blinking. In case of an error, the status-LED will blink 3 times red. In such case, please retry transmitting the data.



Subsequently, the device connects to the Wi-Fi as configured and the status-LED will pulsate in blue.



Afterward, the device logs into the MQTT server as configured and the status-LED will pulsate in cyan.



After successful connection, the device switches to normal operation and the status-LED starts showing the default color green (might be different for specific installations).

In normal operation, the status-LED and the reaction to the user pushbuttons are under the control of the cloud application.

## Initial commissioning BlueRange



After power-up the status-LED will show pulsating purple.



As no configuration data is present, the device automatically switches to the configuration mode. The status-LED will blink three times.



While the device prepares for configuration, the status-LED will pulsate orange. Please hold on.



When the device is ready for receiving its configuration data, the status LED will show static orange.



On your mobile device, please go to the LVE App (or BlueRange Admin App) and log in.

Select the Blue range network where you want to add the new devices.

Use „+“ and select either „Search for devices in range“ (BT-Nearby) or „scan QR-Code“.



Wait until the device is found and add it to the enrolment list. You might add multiple devices to this list.



When done, start enrollment for the whole list.



After successful enrollment, the device restarts and the status-LED is pulsating purple.



Afterward, the device connects to the MQTT cloud service via the BlueRange mesh network.



During this time the status-LED first pulsates blue and then cyan.



After successful connection, the device switches to normal operation and the status-LED starts showing the default color green (which might be different for specific installations).

In normal operation, the status-LED and the reaction to the user pushbuttons are under the control of the cloud application.

## Configuration mode

If no valid configuration is stored in the device, it will enter and stay in the configuration mode automatically.

If the device is already commissioned, the configuration mode can be entered manually by holding the configuration push button on the back of the device for longer than 5 seconds.



This will be confirmed by the status-LED with 3 times orange blinking.



While preparing for the configuration the status-LED then will pulsate in orange.



When the configuration can start, the status-LED will show static orange.

If no configuration is started within the next 2 minutes, the devices will automatically exit the configuration mode. While in configuration mode, the following options are enabled:

- NFC read of device information, such as version, serial, MAC address, etc.
- NFC write of configuration data or executing special functions (depending on the currently running network mode)
- BlueRange P2P Access for changes on the enrollment status.

#### Change from Wi-Fi to BlueRange

Enter the configuration mode.

On your mobile device, please go to the LVE App (or BlueRange Admin App) and execute the BlueRange enrollment.

#### Change from BlueRange to Wi-Fi

Enter the configuration mode.

On your mobile device, please go to the LVE App and execute the Wi-Fi commissioning.

#### What to do if?

The status-LED keeps pulsating blue:

The sensor is unable to connect to the Wi-Fi. Please check, that the configured Wi-Fi network is available and/or contact your system administrator.

The status-LED keeps pulsating cyan:

The sensor is unable to connect to the cloud MQTT server. Due to maintenance, such service might be temporarily unavailable. If the status remains, please contact your system administrator.

The status-LED keeps showing static orange:

The device is in configuration mode. This mode will be disabled after 2 minutes and the device connects to the cloud and returns to normal operation automatically.

If the status-LED constantly does not change from orange, the device has not been commissioned so far and cannot operate as intended. Please contact your installer for commissioning.

The status-LED keeps pulsating purple:

Due to an internal error, the device is unable to start up. Please contact customer service.

#### Technical data

- Supply voltage: 5 VDC +/- 10 % (micro-USB)
- Power consumption: app. 0,5 W
- Dimensions: 137 x 108 x 23 mm (L x W x H)
- Weight: app. 108 g
- Ambient temperature: +5°C bis +40°C (operating)
- Maximum ambient temperature for presence detection (PIR): +28°C
- IP rating: IP20
- Protection class: SK III
- Wireless transmitter-receiver: Bluetooth, Wi-Fi, 2.4 GHz, NFC 13.56 MHz
- Transmission Power Bluetooth: + 4 dBm
- Transmission Power WiFi: + 19 dBm
- Bluetooth Declaration ID: D050374
- Colour: white


## Conformity

Herbert Waldmann GmbH & Co. KG hereby declares that the wireless system type CHEKOV complies with Directive 2014/53/EU. The complete text of the EU Declaration of Conformity is available at the following internet address: [www.waldmann.com/conformity](http://www.waldmann.com/conformity)

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## Documents / Resources

	<p><a href="#">Waldmann CHEKOV Desk Sensor</a> [pdf] Instruction Manual CHEKOV Desk Sensor, CHEKOV, Desk Sensor</p>
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## References

- [W service@waldmann.com](mailto:service@waldmann.com)
- [W Waldmann - Engineers of Light - Home](#)
- [W Waldmann - Engineers of Light - Conformity](#)