

RemoBox

For Easywave



User Manual

User Manual V1.00
RemoBox for Easywave

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1 Intended Use - Safety Guidelines:

- Use of the device is not permitted if there might be any danger to health, life and tangible assets!
- Installation of the Netti switchbox may be effected only in dry rooms!
- The voltage and current values in the Technical Data are to be observed!
- Repair work may be effected only by persons skilled in the art.
- Tools may be used on devices, component parts or assemblies only if it has been ensured that the devices are disconnected from the supply voltage and that electrical charges which are stored in the components contained in the device have been discharged beforehand.
- Voltage-carrying cables or lines to which the device, component or assembly is connected, must always be investigated for insulation faults or breaks.
- Detecting a fault in the supply line, the device has to be taken out of operation promptly, until the defective line has been replaced by a person skilled in the art.
- Please note that operating and connection errors are beyond our control. Understandably we cannot assume any liability for any damages arising as a result thereof.
- All wiring work shall only be carried out in a voltage-free state.

2 Device Description

RemoBox converts infrared signals to Easywave compatible radiosignals. The RemoBox allows using infraredcode for controlling the complete product range of the Eldat Easywave Radio-System.

RemoBox controls the Easywave receivers according to their presetting. Easywave receivers can handle three different switchmodes:

- Two button switch mode (one button for ON and one button for OFF)
- One button switch mode (toggle ON and OFF)
- Timerfunction (7min ON)

The receivers may additionally be controlled with Easywave handtransmitters or other RemoBoxes.

Eldat Easywave receivers guarantee transmission security through the ELDAT telegram structure together with the teach-in procedure. So unintentional switching is blocked.

To be downwards compatible, RemoBox has a special mode, working with the former IRS Infraredsocket system. This only limits you to a maximum use of only four receivers.

RemoBox provides an additional socket with a normally open and a normally closed contact. The contactswitch is directly controlled by infrared. It may be used to trigger a nurse call.

RemoBox can teach your environmental control. Connected to a PC, all of your needed IR codes may be generated with an intuitive PC software. You don't need an extra remote control any longer

2.1 Specifications

- Powersupply: miniUSB socket for USB wall charger (cable and adapter included), USB powerpack (not included), or PC.
- Addressrange: Controls 16 Easywave-channels, each with up to four functions. So up to 64 single radioreceivers may be addressed.
- all radio and IR telegrams may be generated via PC software
- 3,5 mm (1/8") stereo phonejack to access two potential free relay contacts (normally open and normally closed) **max voltage 48V, max current 170mA**
- Wide range transmission, that may be further improved with additional Easywave repeaters.
- Magnetic bottom that fits the RemoBox on ironstripes or -tubes or at the additional accessory mounting plate.
- Small outline dimensions 2" x 2" x 1" (50mm x 50mm x 25,7 mm)
- Current consumption: max. 50mA transmitting, < 15 mA idle mode.

2.2 Operation mode

RemoBox acts as an infrared controlled transmitter for ELDAT receivers. Each ELDAT function is assigned to an infrared code. The transmitter has to be taught into the receivers memory beforehand. RemoBox can transmit on 16 different channels, each channel with up to four functions.

The additional potential free relay contacts may also be switched by infrared. It provides a normally closed and a normally open contact, accessible via a 3,5 mm stereo phonejack. (max current 160mA)

Controlled by an intuitive PC software, the RemoBox generates the infrared-codes you need to teach your environmental control. So an additional remote control is not necessarily required any longer. Transmission of the radio codes may also be triggered by the PC software.

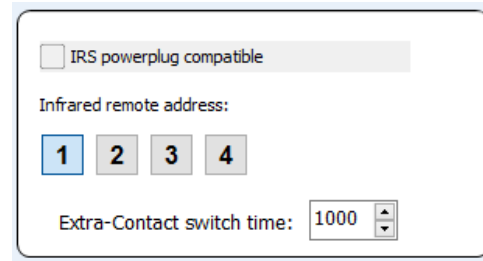
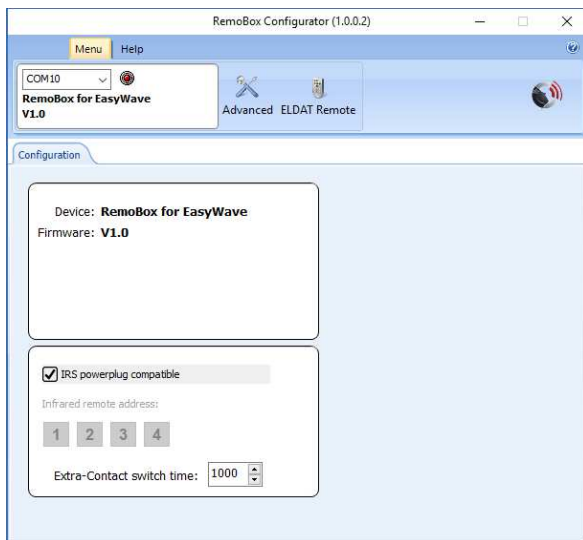
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2.3 PC-Software

The *RemoBox Configurator* software is designed for Windows Vista, Windows 7, 8, 8.1 and Windows 10. The setup file for *RemoBox Configurator* installs all needed drivers.

After installing, start the RemoBox Configurator and plug the RemoBox with the attached cable to an USB port on your PC. The Configurator software will recognize the RemoBox automatically.



Main window

IRS Infraredsocket compatible:

☐ IRS powerplug compatible

RemoBox may be used together with an ELDAT plug-in socket receiver like an IRS infrared socket system. In IRS mode, RemoBox works with four different addresses. So environmental controls that are programmed for the IRS system may keep on using their teached codes.

Normal mode:

Infrared remote address:



Select the addresse for receiving infrared telegrams. By using different infrared addresses, several RemoBoxes may be used in one room.

Impulse Time

Extra-Contact switch time: 1000

Set the impulse time for the RemoBox's additional relay contact.

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2.3.1 On-Screen Remote-Control



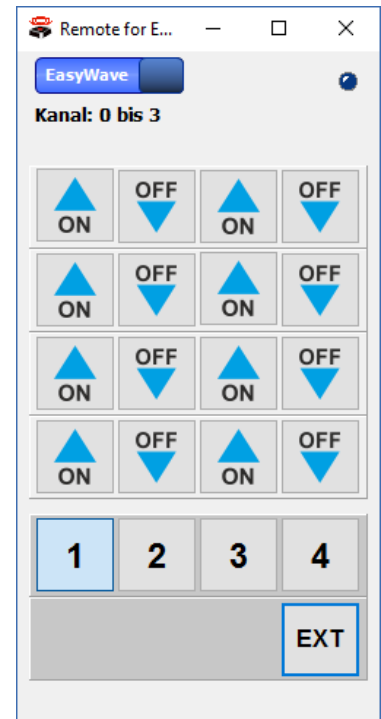
Opens the On-Screen ELDAT Remote Control.

Select the desired channel by clicking the area buttons (1-4). Area 1 shows channel 0-3 in rows 1-4,... area 4 shows channel 12-15 in rows 1-4. Each channel has four functions (ON, OFF) The functions are shown in columns 1-4.

Clicking a key on the On-Screen Remote-Control triggers a transmission of the according radio telegramm



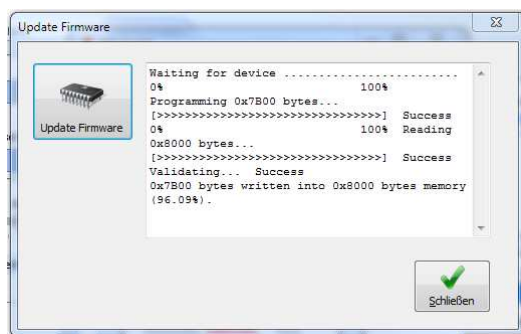
Click the EXT- button to switch the RemoBox's additional relay contact.



Use the Easywave/Infrared slider to select the transmitted output format.

Teach your environmental control with the slider in the *Infrared* position. Clicking on the keys will trigger a transmission of the corresponding infrared code. Consider to keep your environmental control in a range of approx. 4 inch (10 cm) to the RemoBox.

2.3.2 Firmware update (via Advanced)



The RemoBox Configurator includes the latest version of RemoBox firmware.

After you clicked the "Update Firmware" button, the current firmware will be updated. The download progress is displayed in the window.

Be careful to keep the RemoBox plugged in while firmware update is processing.

3 Teaching an ELDAT receiver

The teach-in procedure is explained exemplary with an ELDAT plug-in socket receiver RCP05

3.1 Operation modes

Use the programming button on your receiver to set the operation mode. The different operation modes are indicated by different LED flashing

Operating mode	Function	LED Flashing
1	ON/OFF - 2 button operation	
2	On/OFF Togglemode - 1 button operation , (press transmitter button for more than 1,6 s)	
3	Timer-Function - 1 button operation 7 minutes, retrigger,	

3.2 Programming the transmission codes

Briefly press the programming button on your receiver. The receiver stays in learning mode for approx. 30s. The LED flashes show operation mode 1. To change the operating mode, press the programming button. Repeat until the LED flashes show the desired mode.

Use the On-Screen Remote-Control to match a transmission code with the selected operation mode.

Note:

When using 2 button operation, you only have to teach one code. The receiver is linking the missing second code automatically.

1. Briefly press the programming button on your receiver. (shorter than 1,6 Sekunden). The LED flashes show operation mode 1. To change the operating mode, press the programming button. Repeat until the LED flashes show the desired mode.
2. Click and hold the key in your On-Screen Remote-Control you want to switch your receiver with. Hold the key until the code is programmed to receivers memory. The LED than lights up (approx. 2s) and the receiver switches into the selected operation mode.
3. Repeat step 1 and 2 to teach in more transmitters. You can store up to 32 transmission codes in the receivers memory.
4. To cancel the programming process, wait until the receiver returns to operating mode after 30 seconds or press the programming button multiple times until the LED turns off.

4 Appendix

4.1 Save the environment

This electronic device contains recyclable materials and must not be disposed of with the household waste. When you dispose of this device, hand it in at a collection point for electronic devices (You can get information on collection points in your region from the local authorities).

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Technische Änderungen vorbehalten.