# EN HomePilot® HD Camera (outdoor) 9487
Instruction Manual for Installation and Commissioning

Item No.: 3200 43 29
Type: 9487

With your purchase of a **HomePilot® HD Camera (outdoor) 9487**, you have chosen a quality product manufactured by RADEMACHER. Thank you for the trust you have placed in us.

RADEMACHER products have been developed with the greatest possible convenience in mind. Having applied uncompromising quality standards and thorough testing, we are proud to be able to present this innovative product to you.

It's brought to you by all the highly-qualified personnel here at RADEMACHER.

# Contents

# i   1. These instructions...

...specify the installation and commissioning of the HomePilot® HD Camera (outdoor) 9487.

## i   1.1  Application of this manual

- ◆ Please read this manual through completely and follow all the safety instructions.
- ◆ This manual is a component of the product. Please store it in an easily accessible place.
- ◆ When passing the HD Camera on to a third party, this manual must be passed on as well.
- ◆ If this manual is lost, please request a replacement manual.
- ◆ Damage resulting from non-compliance with this manual and safety instructions will void the guarantee, see detailed operating instructions for configuration. We assume no liability for any consequential damage.

## i   1.2  Related instructions

You can find the detailed configuration of the HD Camera in the service section of our website:

**www.homepilot.de/manuals**

Enter the URL into the address field of your browser.

# i 2. Hazard symbols

The following hazard symbols are used in this manual to indicate safety instructions:

**Danger of fatal electric shock**

# i 2.1 Levels of danger and signal words

## ⚠ CAUTION!

This hazard may result in minor or moderate injury if not avoided.

## ⚠ ATTENTION!

This hazard may lead to property damage.

| Depiction | Description |
|-----------|-------------|
| **1.** | Steps to be taken |
| **2.** | |
| ◆ | Itemisation |
| **1) or a)** | Lists |
| **i** | further useful information |

## i    3. Glossary - Definition

**HomePilot®**

Central controller unit for RADEMACHER radio products.
Control is carried out via a tablet PC or Smartphone.

**LAN (Local Area Network)**

Abbreviation for a wired, local computer network

**WLAN (Wireless-LAN)**

Abbreviation for a local radio network.
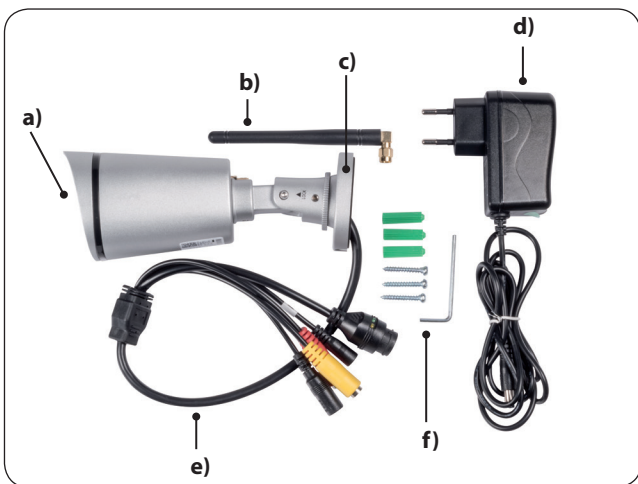
## Included in delivery

a) 1 x HD Camera 9487
b) 1 x WLAN antenna
c) 1 x Wall bracket
d) 1 x Mains adaptor
e) 1 x Connecting cable with electrical connectors
f) 1 x Installation set

Antenna connection

Antenna

Infrared (IR) LEDs, range approx. 20 m

Connections:

**1)**
**2)**
**3)**
**4)**
**5)**

Camera lens

Wall bracket
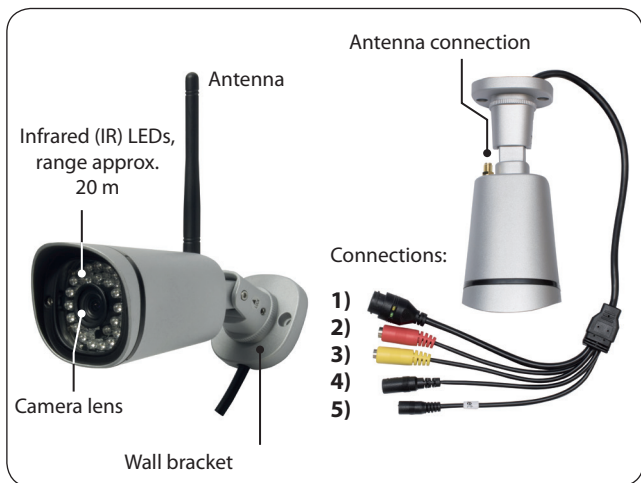
- **1)** LAN
- **2)** Audio input
- **3)** Audio output
- **4)** Power supply connection
- **5)** Reset button

The HD Camera is a network-compatible camera used to monitor outside areas. It transmits image data to the HomePilot®. The HD Camera can be installed in any desired place with the enclosed wall bracket.

**Integrated brightness sensor**

For day and night monitoring with infrared LEDs and automatic image adjustment when dark.

**Configuration and logging on to the HomePilot®**

The HD Camera can be configured via a PC using the HomePilot® user interface.

**Network port (LAN))**

The HD Camera must be connected to a free LAN port on a router to be able to register and use it in the HomePilot®.

**WLAN**

Once it has been registered to the HomePilot®, it is possible to operate the HD Camera via WLAN. For this, the WLAN access data must be entered via the HD Camera's user interface.

First, screw the enclosed antenna onto the HD Camera.

| Mains adaptor | |
| --- | --- |
| Operating voltage: | 230 V / 50 - 60 Hz |
| Output voltage: | 12 V $=$ / 1 A |

| HD Camera general | |
| --- | --- |
| Supply voltage: | 12 V DC $=$ via mains adaptor |
| Maximum current consumption: | 1 A |
| Consumption: | < 4.2 W |
| Authorised operating location: | Outside areas |
| Protection class: | II |
| Protection type: | IP66 |
| Permissible operating temperature: | -20°C to + 60 °C |
| Permissible relative humidity: | 10 % to 80 % rF |
| Dimensions (L x W x D): | 166 x 62 x 65 mm |

| Network interfaces: | |
| --- | --- |
| LAN: | Ethernet RJ45 |
| WLAN (IEEE): | 802.11 b/g/n, 2.4 GHz |

| WLAN security | |
| --- | --- |
| Supported WLAN Security algorithms: | WEP / WPA / WPA2 |

| Camera - Specifications: | |
| --- | --- |
| Sensor: | 1.0 Megapixel CMOS-Sensor |
| Resolution: | 1080 x 720 |

| Video specifications: | |
| --- | --- |
| Image compression: | H.264 / MJPEG |
| Framerate: | 23 frame/s |

**i** **8. System requirements**

**You require the following for installation:**

◆ Internet access.

◆ A router* with DHCP server and a free LAN port.

◆ A freely accessible mains socket (230 V / 50 Hz).

◆ A commercially available standard computer with Microsoft Windows and Internet Explorer (some features are restricted or not supported with other browsers).

◆ A HomePilot® with software version 4.1 x or higher ** The HomePilot® must be connected to the router and be accessible in the network via computer.

* or DSL modem with router functionality

** You can find the current software version on the HomePilot® user interface under:

   **Configuration / System / Firmware Update / display right**

**The use of defective equipment can lead to personal injury and damage to property (electric shocks / short circuiting).**

◆  Never use defective or damaged equipment.

◆  Check the components included in the delivery beforehand for damage.

**Risk of short circuit when using an incorrect mains adaptor.**

◆  Using a mains adaptor with a voltage other than that specified for the power unit included in the delivery may cause damage to the HD Camera or lead to a short circuit.

◆  Only use original accessories from RADEMACHER.

The mains socket and mains adaptor must be easily accessible at all times.

**There is a danger of life-threatening electrical shocks when using the mains adaptor and connecting plugs outdoors.**

◆ The HD Camera mains adaptor must not be used outdoors.

◆ The HD Camera connecting plugs are not weatherproof and must be protected against rain and all environmental effects. For this, use a terminal box with protection class IP66.

# ⓘ 11. Intended Use

Only use the HD Camera to transmit image data to the HomePilot® or an external storage device.

### Operating conditions

The installation and operation of the radio systems is only permitted for those systems and devices where a malfunction in the transmitter or receiver would not cause a danger to personnel or property or where this risk is already covered by other safety equipment.

> ⓘ Radio systems that transmit on the same frequency can cause interference.

# ⓘ 11.1 Incorrect use

The HD Camera must not be used to monitor public areas.

# i 12. Initial commissioning and logging on to the HomePilot® prior to installation

In order to commission the HD Camera it must be connected to the router using a LAN cable.

> **i** We recommend that you log on to the HomePilot® prior to outdoor installation.
>
> ◆ This will allow you to avoid unnecessary trips to the installed camera.

## i 12.1 Connecting the HD Camera to the router

**1.** Connect the HD Camera to a free LAN port on your router. For this, use the enclosed LAN cable.

**2.** Connect the mains adaptor plug with the corresponding HD Camera connecting cable.

*The example below shows connection prior to outdoor installation.*



LAN cable to the router

Mains adaptor connecting cable
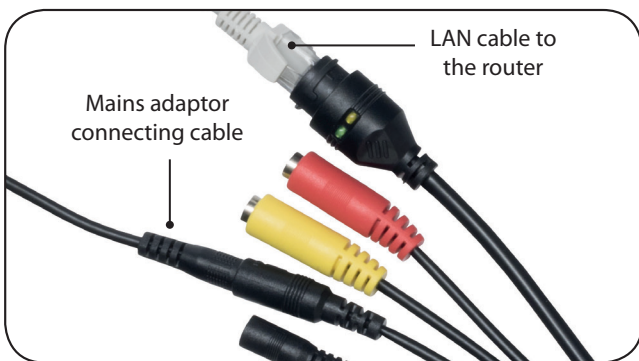
**3.** Next, plug the mains adaptor into a 230 V / 50 Hz mains socket.

**4.** Wait a few moments. The HD Camera now automatically carries out a self-test.

**5.** After this, the HD Camera is ready to operate and can be logged on to the HomePilot®.

**1.** Switch the HomePilot® to registering mode. To do this, select the „Add" function from the „Configuration / Cameras" menu.

**2.** The HomePilot® will automatically search for cameras that are in the same network and list these.

**3.** Select the HD Camera, specify a name and other individual descriptions.

**4.** Subsequently click on „save".

**5.** After this, the HD Camera will be listed on the HomePilot® user interface under „Cameras".

> **i** As additional protection against unauthorised access, we recommend that you carry out the steps described in chapter 13.1.

1. Select "Open detailed view" in the HomePilot® user interface.

2. The HD Camera user interface appears.

3. The following message appears above the input screen:
   *Plug-ins not found, click here to download.*

4. Click on the text and download the Plug-in (Version Windows 7 and Mac OS 10.11.3 or higher). Follow the on-screen information during installation.

   **i**    Depending on your computer settings and anti-virus programme, you may have to approve the download and installation.

5. Next, log on using the user name and password set in the factory.

   **Factory settings:**
   - ◆ User name = admin
   - ◆ Password = rademacher

6. After logging on for the first time, enter a new user name and secure password, in order to protect your HD Camera from being used without permission.

   **i**    It is essential that you enter a secure password.

7. The desired settings for the HD Camera can then be selected.

**1.** Switch the HomePilot® to log out mode. To do this, select the „Delete configuration / cameras / devices" menu.

**2.** Select the HD Camera and click on „log out manually".

**3.** Switch off the HD Camera's power supply and remove the LAN cable.

**i** **15. Deleting all settings - Reset**

**1.** Press and hold the reset button on the HD Camera for approx. 10 seconds.

**2.** After it has been successfully reset, a short audible signal is emitted and the HD Camera automatically carries out a self-test.

The HD Camera will then be reset to the default factory settings.
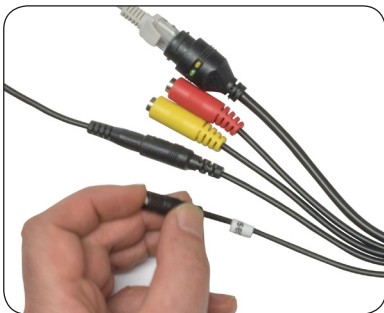
If you have, as recommended, logged on prior to installation, you must now separate the connected cables from one another again.

# i **17. Installation**

**There is a danger of life-threatening electrical shocks when using the mains adaptor and connecting plugs outdoors.**

◆ The HD Camera connecting plugs are not weatherproof and must be protected against rain and all environmental effects.

◆ For this, use a terminal box with protection class IP66.

◆ The terminal box must be equipped with screw connections of sufficient dimensions and thickness for inserting the connecting cables.

## ⚠ **ATTENTION!**

**If installed incorrectly, the HD Camera may be damaged and transmission problems / interference may occur.**

◆ Do not install the HD Camera in a place where it is exposed to direct sunlight.

◆ Do not install the HD Camera next to strong magnetic fields (e.g. speakers).

1. Select a suitable installation site for the HD Camera and terminal boxes.

2. Drill the required mounting holes and secure the HD Camera and terminal boxes.

3. Where necessary, drill a duct for all of the required cables (e.g. the mains adaptor plug cable) into the building structure.

4. Lead the required cables (the mains adaptor plug cable or the extension) outwards into the socket.

5. Lead the HD Camera connecting cable through the appropriate screw connection into the socket.

6. Connect the cables in accordance with the connection layout in chap. "5. Overview of the HD Camera 9487".

7. Check that the cable ducts and screw connections are sealed against leaks.

8. Close the terminal boxes.

9. Next, adjust the wall bracket using the enclosed hex key to the desired installation position.

**Mains adaptor extension cable**

Item No. 7000 01 07   Length = 2 m

Only use the original RADEMACHER extension cable. The cable may only be extended to a maximum overall length of 3.80 m.

**Connection box HD Camera (outdoor) 9487-A**

Item No. 7000 01 06   Surface-mounted installation

## ℹ 19. Simplified EU Declaration of conformity

$ C \in $ RADEMACHER Geräte-Elektronik GmbH declares that the HomePilot® HD Camera (outdoor) 9487 complies with the European directive **2014/53/EU (radio equipment directive)**.

The complete text of the EU Declaration of conformity is available under the following link:

www.rademacher.de/ce

RADEMACHER Geräte-Elektronik GmbH provides a 24-month warranty for new systems that have been installed in compliance with the installation instructions. All construction faults, material defects and manufacturing defects are covered by the warranty.

Your statutory warranty claims shall remain unaffected by this warranty.

**The following are not covered by the warranty:**

◆ Incorrect fitting or installation
◆ Non-observance of the installation and operating instructions
◆ Improper operation or wear and tear
◆ External influences, such as impacts, knocks or weathering
◆ Repairs and modifications by third parties, unauthorised persons
◆ Use of unsuitable accessories
◆ Damage caused by unacceptable excess voltages (e.g. lightning)
◆ Operational malfunctions caused by radio frequency overlapping and other such radio interference

For the warranty to be applicable, the new device must have been purchased through one of our approved specialist retailers. Proof of this can be provided by presenting a copy of the bill.

RADEMACHER will remedy any defects that occur within the warranty period free of charge either by repair or by replacement of the affected parts or by supplying a new replacement unit or one to the same value. There is no general extension of the original warranty period by delivery of a replacement or by repair as per the terms of the warranty.

\* 30 seconds free of charge, subsequently
14 cents / minute from German fixed line
networks and max. 42 cents / minute from
German cellular networks.