

## 1 Introduction

Gratulation, purchasing the HENSEL Radio Flash Trigger and Power Control System RC/RF you have got state-of-the-art technology of radio remote control. The low energy consumption of the Radio Transmitter provides a long-lasting life of the unit with one and the same battery pack. The radio technology allows you to operate independent of environmental factors like ambient light that interfere with the receiver. You can even trigger flashes if your flash units are out of sight – a fact that favors the radio technology over the IR technology. In addition, HENSEL flash units with built-in Radio Receiver will enable you to adjust the flash power of the HENSEL flash units and to switch between different modeling light options. And what more do you want?

So that you are able to successfully and productively work with this system for many years, we are giving you some advice on the use of this high tech product.

If you should have any questions on the use, then feel free to ask us at any time.

HENSEL Studiotechnik



Set (Code 387)

## 2 Scope of delivery

The Radio Transmitter (Code No. 390) as well as the Set of Radio Transmitter and Receiver (Code No. 387) come with a synchronization cable with 2.5 mm synchronization plug.

## 3 Proper use – improper use

The HENSEL Radio Receiver RC/RF-TS is used for triggering flashes, adjusting the flash power and switching the modeling lamp between FULL/OFF/PROP in HENSEL flash units with built-in receiver (PORTY Premium power pack and PLUS versions of the EXPERT PRO / INTEGRA PRO series) via radio signal.

For all other flash units not fitted with a built-in Receiver HENSEL Studioteknik offers the usage of an external receiver as accessory. In connection with the Radio Transmitter flashes can be triggered, but additional features like flash power adjustment and changing modeling light options (FULL/OFF/PROP) are not available. Every use of the equipment that differs from its prescribed use is prohibited. In particular, controlling of electrical items or machines other than described above is prohibited.

### 3 Safety instructions

Changing this unit is strictly prohibited. The housing is splash-proof but not watertight. Therefore protect the equipment from humidity. The operation during rain is not recommended because over the years moisture might ingress into the housing causing damage to the electronics.

### 4 Overview of Controls

#### Radio Transmitter – Controls -

- 1a Flash Power Down and Modeling light options\*
- 1b Flash Power Up button\*
- 2 Channel selector for 4 channels (DIP switch)
- 3 Test button for flash triggering
- 4 Socket for Sync Cable, Ø 2.5 mm
- 5 Locking Screw for mounting to the Hot Shoe of the camera
- 6 Gap for opening the battery compartment

#### Radio Receiver – Controls -

- 7 Channel selector for 4 channels (DIP switch)
- 8 LED green (sync voltage applied)
- 9 LED red (low battery)
- 10 Interface socket
- 11 Gap for opening the battery compartment

\* Additional features only available in flash units with built-in receiver.

## 5 Start-up and channel selection – Receiver

For operation with flash units not equipped with a built-in receiver the external receiver is to be attached to the synchronization socket of the flash unit. After switching the unit ON by using the main switch the green LED **8** of the receiver is flashing. For channel selection the DIP switch of the receiver is used. Combining both setting positions for the DIP switches four different options are available. For channel setting, please refer to the figure on page 1 of this manual.



The built-in receiver of the PLUS versions of the EXPERT PRO / INTEGRA PRO series is switched on by pressing the RC button. The channel can be selected by pressing the Flash Control Switch once. By turning the knob channels from 1 to 4 can be selected as shown on the LED display above. After 3 seconds delay the channel is set and the display changes to the flash power setting.



The built-in receiver of the PORTY Premium power pack will be powered on together with the flash unit. The channel selection can be performed by turning the knob lateral on the housing by means of a screwdriver.

## 6 Start-up and channel selection - Transmitter

The Radio Transmitter has no built-in main switch for switching the unit ON. The transmitter is to be connected to the camera either by attaching it to the Hot Shoe of the camera or by connecting the camera to the synchronization socket **4** using the provided synchronization cable. If the transmitter is connected to the Hot Shoe the unit must be carefully tightened using the locking screw **5**. Using the DIP switch **6** at the bottom side of the unit the working channel can be set. Combining both setting positions for the DIP switches four different options are available. The same channel must be set at the corresponding receiver. For channel setting, please refer to the figure on page 1 of this manual.

**Default  
factory setting:  
Channel 1**

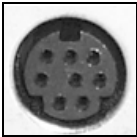


## 7 Flash triggering

With correctly installed receiver and transmitter and proper channel selection flashes can be released by pressing the TEST button **3** or by releasing the camera shutter.

## 8 Additional features for flash units with built-in receiver

The buttons **1a** and **1b** allow further options for HENSEL flash units with a built-in receiver. A single click on the respective button reduces and increases the flash power by 1/10 f-stop. Pressing button **1a** for longer than 3 seconds the modeling light switches from FULL to OFF and PROP, respectively.



The Receiver is equipped with an interface socket **10** for HENSEL power packs.

## 9 Maintenance

The HENSEL Remote Control System RC/RF is almost maintenance-free. Because of the low energy consumption of the transmitter a battery lifetime of 1 to 2 years can be assumed depending on the degree of utilization.

The battery of the Radio Transmitter can be exchanged by unscrewing screw **6** at the bottom of the unit. This provides access to the electronics and the battery can be removed from the clips and exchanged. Before reinstallation of the new battery the polarity must be observed. The positive pole should be pointed at that side of the unit where the Power Down **1a** button is located.

When an exchange of the battery of the external Radio Receiver is required, the red LED 9 turns on. Opening of the battery compartment is done by means of a coin, inserted into the lateral slot. The batteries can be removed from the clips and exchanged by three new AA batteries under observation of the polarity.

## 10 Technical data

Technical Data	Transmitter	Receiver
Type / Code No.	RC/RF-TS / 390	RC/RF-R / 388
Sync socket:	2,5 mm jack plug, Mono	-----
Sync. voltage / Sync. current	3 V / < 1mA for 5 $\mu$ s	< 60 V / -----
Switching ON/OFF	-----	By applying Sync voltage
Channels:	4, selected by DIP- Switch	
Sync plug	-----	6,3 mm jack plug, plus pole front
Serial port:	-----	Mini DIN socket 8 pol.
Shutter time for Synchronization:	1/125 s	
Dimensions in cm [inch] (width x length x height)	5,5 x 6,3 x 4,8 [2.2 x 2.5 x 1.9]	6,5 x 3,7 x 14,1 [2.6 x 1.5 x 5.6]
Weight (no battery):		84 g
Weight (with battery):	53 g	157 g
Type of battery:	CR2, 3 V, 1pc.	AA, 3 pcs.
Battery life:	1 - 2 years	approx. 6 months
Range:	> 40 m (131 feet) free visibility	
Frequency:	433,92 MHz	

This product conforms to the radio standards ETSI EN300220 and FCC15.231.

## 11 Source of supply and service

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Technical data are subject to change. No guarantee for misprints. The listed values are guide values and should not be understood as binding in a legal sense. The values can differ due to tolerances in used components.