



## INSTALLATION GUIDE

Imaging Module

# IM 900®

Edition 1.10 / 2016 – 03



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### Intended use

This device is an accessory for the HAAG-STREIT BQ 900 slit lamp which can be used to make digital photographs and videos for documenting the human eye.



#### NOTES!

This manual is ONLY intended for installation of IM 900 units.

**This manual is ONLY to be used by trained engineers that have attended an official HAAG-STREIT training course.**

Further important information:

- Operation of the appliance for performance of an examination, as well as the description of the EyeSuite software and the system messages and error list can be called up in the EyeSuite software using the 'F1' key.
- 'EyeSuite Setup manual' (7220060) regarding the installation of EyeSuite.
- 'Instructions for use' (7220506) regarding the purpose of use and description of the instrument.



#### NOTES!

**This manual is only intended for maintenance and repair on IM 900 units with part number 1022538 (model year 2015 and higher).**

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## 1. Safety Instruction

### 1.1 Special instructions in text

Safety instructions have been added throughout the text where applicable. They are classified according to importance, and designed to help avoid risk to patients and operating staff, while preventing damage to the IM 900 appliance and helping to ensure that it functions safely and remains in perfect working order.



#### **FORBIDDEN!**

Neglecting these notes will lead to material damage and the endangering of users and patients.



#### **WARNING!**

These signs must be strictly adhered to, to ensure safe operation of the instrument and to avoid endangering users and patients.



#### **NOTE!**

Important notes! Please read carefully.

## 2. Installation



### FORBIDDEN!

It is prohibited to disassemble any parts other than described in this manual. If not followed, all warranty claims are void.



### ESD – Electrostatic Discharge!

Electronic circuits of the IM 900 are sensitive to electrostatic discharges. ESD –Electrostatic Sensitive Device –, The technician must be grounded for all repairs. Keep parts sensitive to electrostatic discharges in static shielding bags for storage, transportation and shipping.

### 2.1 Attaching the label for automatic left/right detection



#### NOTE!

Clean the table surface before positioning the side identification sticker (1022535) Make sure that no oil and grease residue remains on the surface.



#### NOTE!

Make sure you use side identification sticker 1022535 together with RM02.

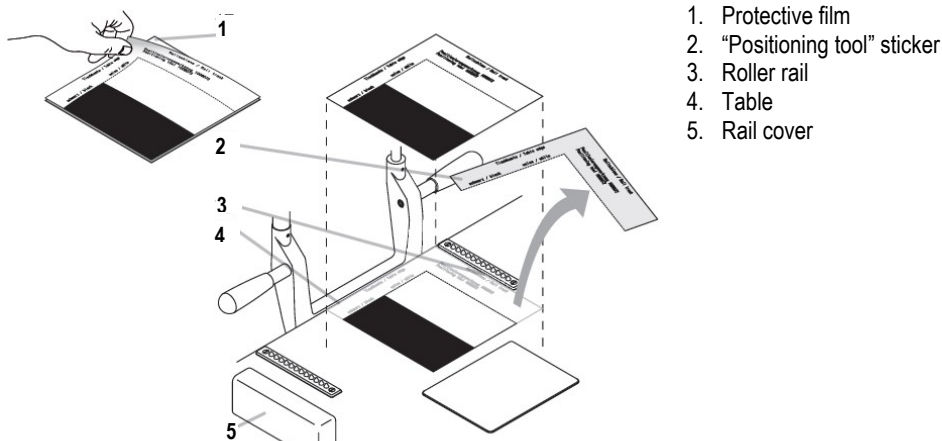
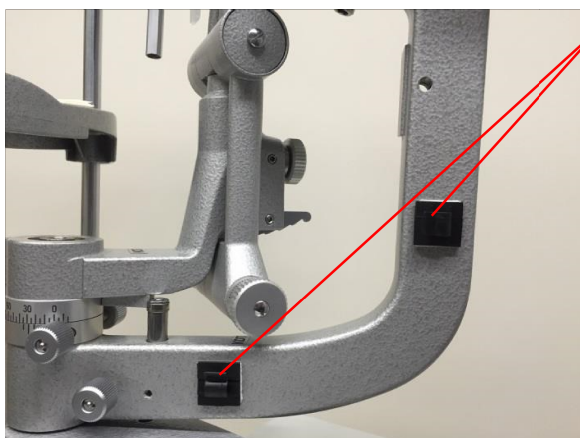


Figure 1

- Remove the rail cover (5) and move away the slit lamp. Clean surface of table.
- Remove protective film (1) from the back of the sticker. Start lifting it off carefully from the corner opposite the black area.
- Position the sticker against the right roller rail (3) and the edge of the table (4). Press the white-black surface, smooth out air bubbles.
- Carefully tear off the rest of the 'Positioning Tool' sticker (2) along the perforations.
- Mount the slit lamp and rail cover again.

## 2.2 Connecting the IM 900 to the optical path



Attach the cable holders (1022631) onto the microscope arm as shown in figure 2.

Figure 2



Position the module between binocular tube and magnification changer.

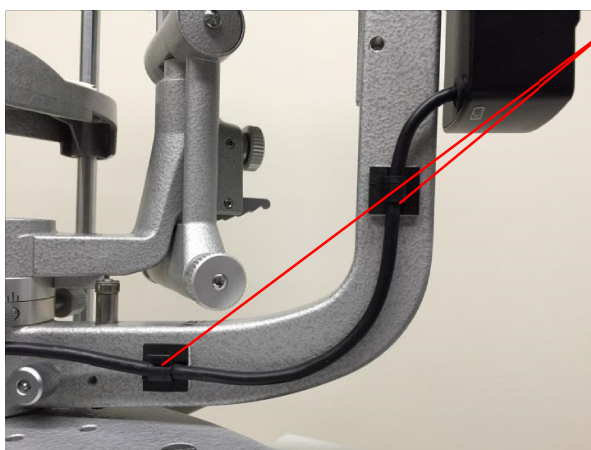
Figure 3



Align the marking points on the upper side of the parts to be connected.

Turn the locking ring in direction of the arrow to tighten.

Figure 4



Fix the cable in the cable holders.

Figure 5



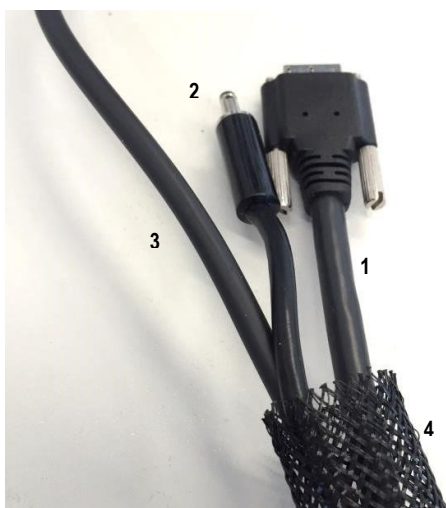
Mount the RM02 on the Slit lamp and connect the camera cable to the release module. Push the cable in the cable holder.

Figure 6



**NOTE!**

Only use the supplied USB 3.0 cable to connect the camera with the release module.



Pull the PC cable (1), power supply cable (2) and the headrest cable (3) through a braided sleeving (4).

Figure 7

Refer to the below drawing in case you need to know the cable functions on your installation.

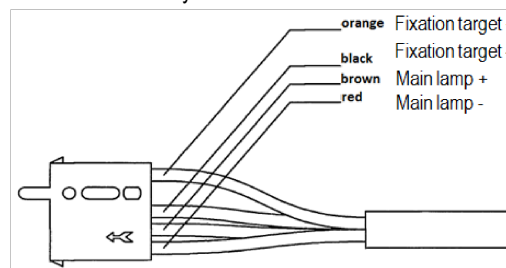




Figure 8

Connect the camera-, pc-, headrest- and the power supply - cable to the RM02 and to the corresponding plugs on the other end.

**NOTE!**

The RM 02 can be used in three setups:

- Camera + Illumination control
- Illumination control
- Camera control



Figure 9

Tighten the braided sleeving and fix it with cable binders on both ends.



Mount the cable cover.



Figure 10



## List of modifications

Edition	Date	Modifications
1.10	24.03.2016	Add information about functions of the headrest cables in fig. 7.
1.00	01.12.2015	First release.

For further questions please contact the HAAG-STREIT Customer Support at:  
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