For the S14D/S15D/S16 FlexMount cameras, two sensor modules with integrated lens, image sensor, LEDs and microphone are connected (via connector plugs) to the camera housing, which is installed hidden behind a wall or ceiling panel.

With the MOBOTIX DualMount two sensor modules are positioned directly next to each other and in parallel. This orientation of the sensor modules for the same area being surveilled makes the S14D/S15D/S16 a suitable camera for day and night use – the same image area can be seen as a color image during the day and a black/white image at night. The DualMount can be used with all available sensor modules and enables an installation of the lenses on the ceiling with a downward tilt of 25°. The DualMount can also be installed outdoors, e.g., under eaves, bridges, etc.

Installation

Before installing the sensor modules, make sure that the sensor cables will reach the intended mounting position without placing a strain on the cables. Separate the sensor modules from the sensor cables before installing the modules.

Further information on the individual camera connectors can be found in Section 2.2.1, "Overview Of Cable Connections" of the S14/S15 camera manuals.

1. Prepare opening
Prepare an opening at the desired mounting position of the DualMount that is large enough (diameter about 30 to 40 mm) to allow the sensor cables to pass through so that you can connect them.

2. Lead the sensor cables through the opening
Lead the sensor cables through the opening in the ceiling and allow them to protrude through (the longer they extend, the easier the installation).

3. Attach the hinged ferrites
Attach one hinged ferrite to each sensor cable (maximum distance to the connector 10 cm).

4. Select mounting type
Select the appropriate mounting type. Depending on the material and the thickness of the mounting surface, you can mount the DualMount:

   • directly to the ceiling using the five stainless steel wood screws (item 1.6) with or without the dowels (item 1.7).
   • to the ceiling (max. thickness 12 mm) using the backing plate (item 1.2) and the five stainless steel Allen screws (item 1.8). To do this, you have to push the screws through the ceiling and tighten them to the backing plate positioned to the back of the ceiling.

Sealing

Ceiling

Backin ng plate

DualMount

Delivered Parts, Dimensions

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Variants

MX-OPT-FM
MX-FLEX-OPT-DM-BL
1. Set dowels or prepare screw holes. Depending on the desired mounting type, you either set the dowels or prepare screw holes (for the backing plate). In the second case, you can also use the drilling template provided at the end of this document or use the backside of the housing as a drilling template.

2. Mount the housing. Plug the sealing (item 1.1) on the DualMount housing (item 1.1). Attach the housing with or without dowels (item 1.2). If the housing is to be mounted using stainless steel wood screws (item 1.4) behind ceiling boards or roof lining use the stainless steel Allen screws (item 1.4). You will need a special screwdriver for the wood screws; for the Allen screws you will need a 2.0 mm Allen wrench provided in the package.

3. Attach sensor modules. Attach the sensor cable to each sensor module (one cable through each 7. Connect sensor cables provided in the package. You will need the 3 mm Allen wrench for the wood screws; for the Allen screws you will need a 2.0 mm Allen wrench provided in the package.

4. Replace sensor module. To replace a sensor module you need the removal tool, which is included with the delivered parts. After disconnecting the sensor module from the sensor cable, proceed as described in Installation (7. Connect sensor cables, 8. Attach sensor modules, 9. Secure sensor modules).

5. Loose set screws. Loosen the two set screws on the underside of the housing using the provided 1.5 mm Allen wrench.

6. Mount sensor module. Turn the sensor module with the black module wrench (provided with the S14D/S15D/S16 to the left until it reaches the stop (MOBOTIX lettering in the “9-o’clock position”). Remove the black module wrench.

7. Remove sensor module. Place the removal tool (provided in the package) onto the sensor module. Turn the sensor module with the black module wrench (provided with the S14D/S15D/S16 to the left until it reaches the stop (MOBOTIX lettering in the “9-o’clock position”) as shown in the figure. Turn the sensor module with the black module wrench provided with the S14D/S15D/S16 to the right until it reaches the stop.

8. Attach sensor modules. Make sure that the MOBOTIX lettering on the front of the sensor module is pointing to the “6-o’clock position” as shown in the figure. Turn the sensor module with the black module wrench provided with the S14D/S15D/S16 to the right until it reaches the stop.

9. Secure sensor modules. Tighten the two set screws on the underside of the housing to secure each of the sensor modules. To do this, use the provided 2.0 mm Allen wrench.

Warning: Do not overtighten the screws (plastic housing!).

Additional Mounting Options

Wall mounting of the DualMount To ensure e.g., an atrium area, the DualMount can also be mounted directly above a door. Before you mount the housing, ensure that the sensor cables are long enough so that they can be stowed away together with the hinged ferites in the DualMount housing. For that we recommend to maintain a distance of 10 cm between the opening of the housing and the bend relief of the plug.

Surface mounting of the sensor cables (with ceiling or wall mounting) The two sensor cables can also be laid openly to the DualMount. For that you need to pry open two of the four cable openings (see right image) on the backside of the housing.

Recommended Mounting Steps:

1. Prepare screw holes (using drilling template on the backside) When selecting the mounting positions for the DualMount and the cameras housing, ensure that the sensor cables are long enough so that they can be stowed away together with the hinged ferites in the DualMount housing. For that we recommend to maintain a distance of 10 cm between the opening of the housing and the bend relief of the plug.

2. Lead the sensor cables into the housing and attach the hinged ferites. Attach the hinged ferites to each sensor cable. We recommend to maintain a distance of 2 cm between the ferite and the bend relief of the plug.

3. Attach housing. Insert the crossed sensor cables into the mount and place the sealing (item 1.1) on the housing. Attach the Housing to the wall or ceiling and make sure that the sealing is seated properly.

4. Connect sensor cables. Attach and secure sensor modules Follow the steps 1 to 9 described in section Installation.

Replacing Sensor Modules

The MOBOTIX sensor modules can be used with the DualMount. To replace a sensor module you need the removal tool, which is included with the delivered parts. To do this, use the provided 2.0 mm Allen wrench.

1. Loose set screws. Loosen the two set screws on the underside of the housing using the provided 1.5 mm Allen wrench.

2. Loose set screws. Loosen the two set screws on the underside of the housing using the provided 1.5 mm Allen wrench.

3. Remove sensor module. Place the removal tool (provided in the package) onto the sensor module. Turn the sensor module with the black module wrench (provided with the S14D/S15D/S16 to the left until it reaches the stop (MOBOTIX lettering in the “9-o’clock position”). Remove the black module wrench.

4. Remove sensor module. Place the removed tool (provided in the package) onto the sensor module. Turn the sensor module with the black module wrench (provided with the S14D/S15D/S16 to the left until it reaches the stop (MOBOTIX lettering in the “9-o’clock position”). Remove the black module wrench.

5. Secure sensor modules. Attach the sensor cable to each sensor module (one cable through each 7. Connect sensor cables provided in the package. You will need the 3 mm Allen wrench for the wood screws; for the Allen screws you will need a 2.0 mm Allen wrench.