

MRX.JunctionBox "DOME"



Camera connection box for MRX.camera, marine, 'Dome'

Quick Start Guide

System Overview

The MRX.marine system is a modular solution for use in port and offshore environments. It consists of:

- * One or more camera modules,
- * one or two touch monitors,
- * one or more distribution boxes, which carry all the electronics and offer connection to clients.



An MRX.JunctionBox is required to connect an **MRX.camera, marine, 'Dome'** to a distribution box.

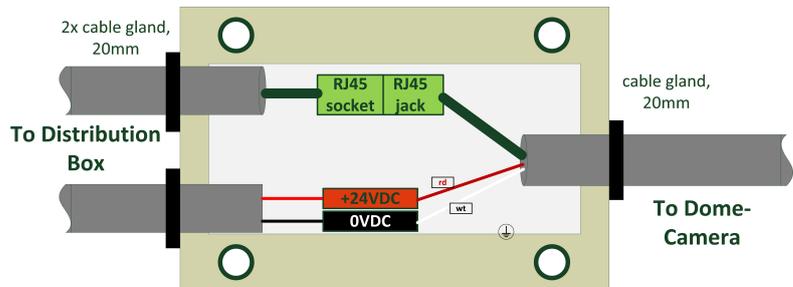
MRX.camera, marine, 'Dome' is supplied with an approx. 2 metre long cable. The cable is connected in the **MRX.JunctionBox 'Dome'** to the cables from and to the distribution box.

The JunctionBox comes with the necessary terminals and RJ45 socket required for connection.a.

Scope of delivery

- * 1x MRX.JunctionBox "Dome",
- * 1x installation set "Ethernet" (content: 1x RJ45 plug, 1x RJ45 socket to be mounted on CAT7),
- * 1x mounting & grounding set,
- * this QSG.

System Overview



Installation

MRX.JunctionBox can be mounted on a wall or floor using the external mounting brackets. MRX.JunctionBox must be placed close to camera! The connection cable of camera (2m) must reach the box.

Lock

Four screws fix the lid.



Connections

MRX.JunctionBox has three cable glands that are used to feed the connection cables to external components.

Power IN (DC)	Cable gland 12VDC from distribution box (MRX.SwichBox or MRX.ControlBox).
ETH	Cable gland for Ethernet from distribution box (MRX.SwichBox or MRX.ControlBox).
CAM	Cable gland for power/data cable to/from connected camera.
EARTH	2 threads (M5) are on the outside of the box to connect earth.

Internal wiring

Required tools

- * 1x Harting preLink crimping tool
- * 1x Phillips screwdriver
- * 1x wire stripper
- * 1x Allen key (4.0)

Procedure

The following steps are necessary to connect an MRX.camera, marine 'Dome' camera to the distribution box via the MRX.JunctionBox:

1. Ensure that the power cable from the distribution box is disconnected from the power supply!
2. Feed the camera cable through the 20 mm cable gland.
3. Feed the power cable from the distribution box through one of the two cable glands on the opposite side (20 mm) and strip the ends of both cables.:
 - a. Connect the red cable from the camera to the red cable of the power cable from the distribution box. Use one of the enclosed terminals for this.
 - b. Connect the white cable from the camera to the black cable of the power cable from the distribution box. Use one of the enclosed terminals for this.
4. Connecting the Ethernet cable from the distribution box:
 - a. FIRST(!) attach the preLink termination block of the enclosed RJ-45 socket to the Ethernet cable from the distribution box as described in the enclosed instructions.
 - b. THEN feed the Ethernet cable from the distribution box through one of the two cable glands on the opposite side (20 mm).
 - c. Plug the enclosed RJ45 socket onto the connection block.
 - d. Plug the enclosed RJ45 plug onto the connection block of the camera.
 - e. Connect the now connected RJ45 socket to the RJ45 plug.
5. The power cable can now be connected to the distribution box.

The following link gives you more information about installation:

youtube.com/watch?v=IEL7KiivLR4

