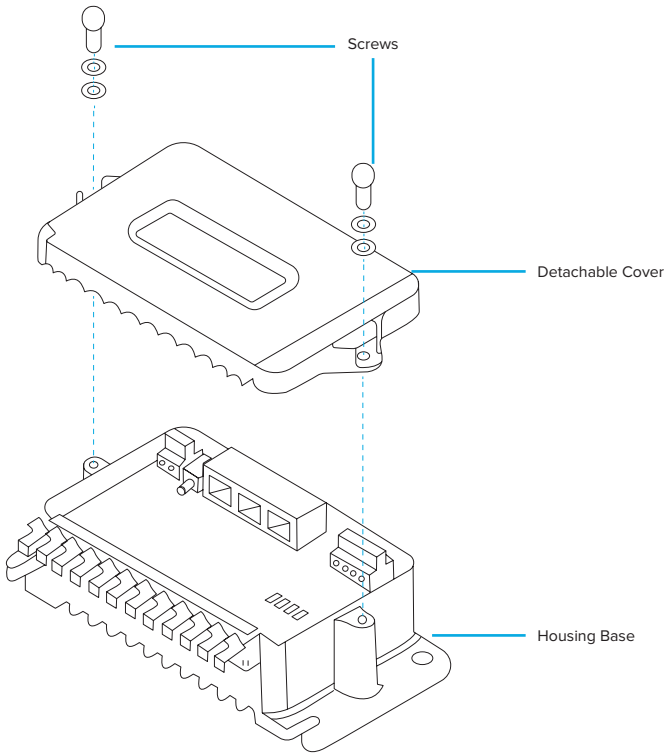


3.4 Installing the Junction Box

The Junction Box is the main interface that handles communication between the components. It also distributes the power supply to the Camera Turret and the Joystick Controller.

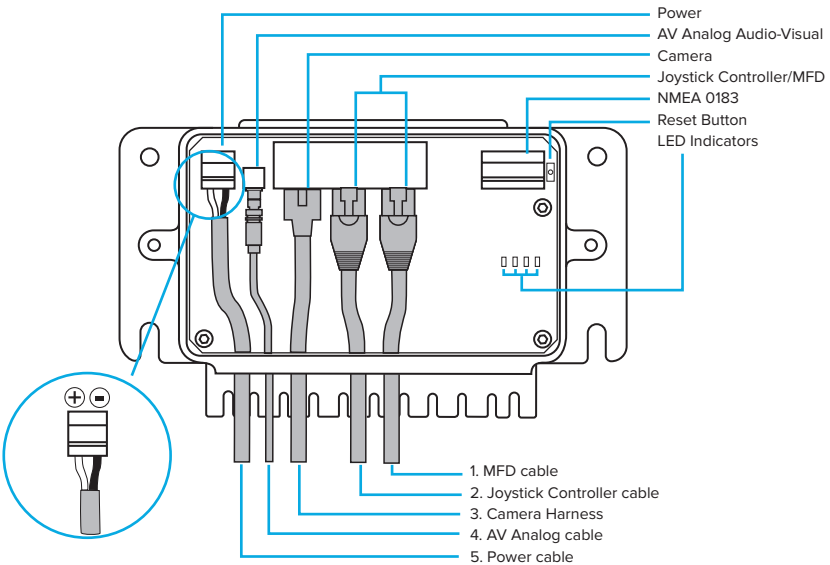
The Junction Box consists of the housing base, a see-through polycarbonate cover and it is secured by two M5 studs on each side of the box. To access the internal sockets, remove the retaining fasteners and the polycarbonate cover.

Create necessary openings for cables on the weather rubber seal found at the cable seat.

Once cabling connections are completed, replace the polycarbonate Junction Box cover. Cables can be further secured to the cable seat by the cable ties provided.

Please note that the Junction Box is not weatherproof and should be installed in an area protected from the elements.

We recommend installing the Junction Box onto a bulkhead with a cable outlet facing down and within practical connecting distance to the display/MFD and Joystick Controller, if used.



1. **MFD cable** - Connect one end of the ethernet cable to your MFD and the other to the ethernet port on the Junction Box marked “Controller/MFD”.
2. **Joystick Controller cable** - Connect one end of the ethernet cable to the controller and the other to the ethernet port on the Junction Box marked “Controller/MFD”.
3. **Camera Harness** – Connect mating end to connector found at the base of the camera and the remaining end of the Camera Harness to the ethernet port in the Junction Box marked “Camera”. To create a proper waterproof connection, ensure connection to the camera base is properly secured and locked.
4. **AV Analog cable** – If you are using an analog monitor, connect one end of the AV Analog cable to the [AV] port in the Junction Box and the other end to an analog monitor.
5. **Power cable** - Connect the power cable provided to the [Power] ports in the Junction Box and the DC power source on your vessel. It is recommended that you use either a 12V or 24V DC power. The power cable consists of one inner black and white wire. Please ensure that the correct polarity is inserted into the right terminal.
   Black for (-) negative, White for (+) positive
6. **NMEA 0183 socket** - Your Ulysses Micro system may have functions that require input from NMEA 0183 devices. To utilize those functions, connect your NMEA 0183 data source to the [NMEA] socket in the Junction Box using 24-20 AWG cables. Connect the NMEA data output from the NMEA device to the Rx pins in the Junction Box.
7. **Reset Button -** Press the reset button for 10 sec to reset the Junction Box to it’s the default IP. To re-connect the Junction Box to the system, you will need to set the camera‘s IP back to the default IP. The equipment should be connected thereafter.
8. **LED Indicators** - The LED indicators provide you with a visual indication of the functioning of the equipment connected to the Junction Box. Please refer to the Troubleshooting guide in Chapter 8 for explanations on the LED indicators.