M2D Gyro Stabilized
Gimbal ball turret for
Suas, UAV, multicopter,
hexacopter, unmanned
drones Cameras’ Pinout
Ver 1.0
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For Further information please contact

Sierra Pacific Innovations Corp

sales@x20.org
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1 Overview

The document describes the pinout of the M2-D camera.

2 Connector

The cameras are interfaced using single 1.25mm pitch 10-pin header connector (Molex_53047-1010) which carries power, control and video signals.

The wire harness connecting to the camera should include Molex (51021-1000) (10 pos / 1.25mm) connector.

2.1 Numbering plan

The numbering plan of the camera header connector (Molex_53047-1010) is depicted in Figure 1:

![Figure 1: Camera Header Connector Numbering Plan](image-url)
The numbering plan of the cable connector (Molex 51021-1000) is depicted in Figure 2:

![Figure 2: Wire Housing Connector Numbering Plan](image)

2.2 Pin Assignment

The pin assignment is depicted in the following table:

<table>
<thead>
<tr>
<th>Pin</th>
<th>NAME</th>
<th>DIR</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SYS_PWR</td>
<td>IN</td>
<td>System Power Input</td>
</tr>
<tr>
<td>2</td>
<td>GND</td>
<td>-</td>
<td>System Ground</td>
</tr>
<tr>
<td>3</td>
<td>RS232_IN</td>
<td>IN</td>
<td>RS232 Receive Input</td>
</tr>
<tr>
<td>4</td>
<td>RS232_OUT</td>
<td>OUT</td>
<td>RS232 Transmitter Output</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
<td>-</td>
<td>RS232 Ground</td>
</tr>
<tr>
<td>6</td>
<td>Reserved</td>
<td>-</td>
<td>Do not connect</td>
</tr>
<tr>
<td>7</td>
<td>Reserved</td>
<td>-</td>
<td>Do not connect</td>
</tr>
</tbody>
</table>
2.3 Power Supply

**Note**

Power supply range is specified at camera connector. One should consider the voltage drop on the wires connecting the camera to the power supply. Using +12VDC power supply is recommended.

**Warning**

The camera will be seriously damaged if power exceeds the maximum allowed voltage.

The camera will be seriously damaged if power polarity is reversed.

The camera will be seriously damaged if power is applied to video port.