

MigmaPD™

A Family of Products for Pedestrian Detection

INSTALLATION INSTRUCTIONS

General Installation

One MigmaPD™ unit comprises of one Single Board Computer (SBC) and two stereo cameras. Each SBC needs to be placed inside a cabinet. The two stereo cameras should be mounted to the existing signal poles or pedestals at a desired height above the ground, typically 15 - 20 ft.

Camera Wiring

Unscrew the waterproof Ethernet connector at the back of the stereo camera, carefully push the Cat5e cable through the connector, and then crimp the RJ45 connector to the Cat5e cable. Now screw back the connector and tighten it.

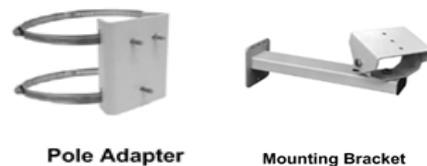


Mount the cameras on the signal poles. Mark the Cat5e cable connected to each camera as "System 1" or "System 2". At the back of SBC, there are two RJ45 connectors. Connect Cat5e cable marked as "System 1" to RJ45 connector labeled as "System 1". Similarly connect Cat5e cable marked as "System 2" to the connector labeled as "System 2".



Camera Mounting

- ◆ Attach the pole adapter to the signal pole
- ◆ Connect mounting bracket to the pole adapter
- ◆ Mount the stereo camera on the bracket

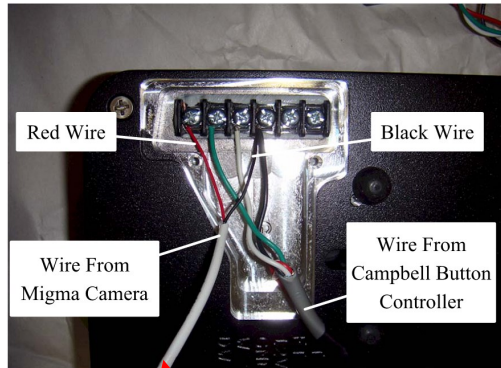


Power for Stereo Cameras

The stereo cameras are powered over Cat5e cable (PoE).

Relay Connections for MigmaIntersection™

Connection of Campbell AGPS (STN1) for Locator Tone Triggering



System 1 (one side of crosswalk)

Red wire at camera → Indicated in figure

Black wire at camera → Indicated in figure

System 2 (the other side of crosswalk)

Red wire at camera → Indicated in figure

Black wire at camera → Indicated in figure



Relay red & black wires

Connection of Campbell AGPS (STN1) for Pushbutton Actuation

System 1 (one side of crosswalk)

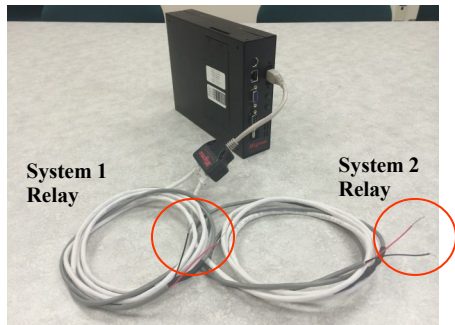
Red wire from splitter → Button terminal in cabinet

Black wire from splitter → Button terminal in cabinet

System 2 (the other side of crosswalk)

Red wire from splitter → Button terminal in cabinet

Black wire from splitter → Button terminal in cabinet



Button terminals in the cabinet