

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.

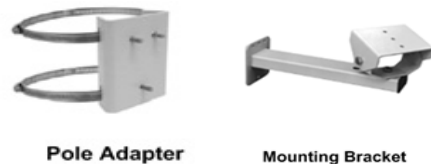


Mount the cameras on the signal poles. Mark the Cat5e cable connected to each camera as “ System 1 ” or “ System 2 ” . At the back of SBC, there are two RJ45 connectors. Connect Cat5e cable marked as “ System 1 ” to RJ45 connector labeled as “ System 1 ” . Similarly connect Cat5e cable marked as “ System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



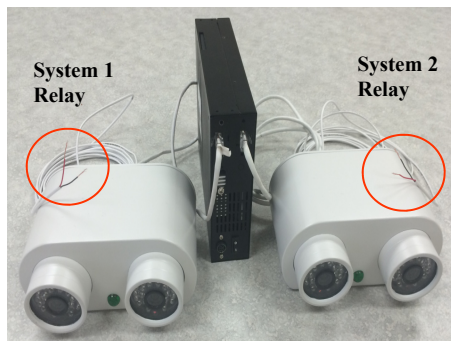
Power for Stereo Cameras

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

Relay Connections

Connection for Flashers

Each camera has a relay cable. Please use this relay cable to connect to the flasher at one side of crosswalk.



System 1 (one side of crosswalk)

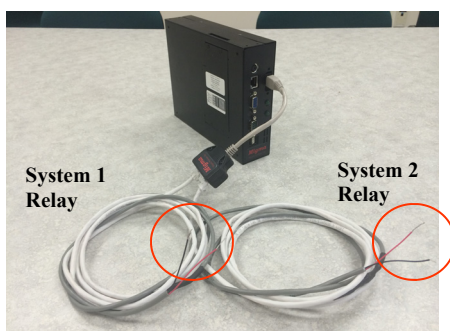
Red wire (COM) —————> Flasher relay
Black wire (N.C.) —————> Flasher relay

System 2 (the other side of crosswalk)

Red wire (COM) —————> Flasher relay
Black wire (N.C.) —————> Flasher relay

Connection for Polara EN25BB1-B-EB APS Pushbutton

Connect Migma Ethernet splitter to the RJ45 connector located at the front of SBC and labeled as Relay. Plug two relay cables marked as System 1 and System 2 to the splitter. System 1 is associated with System 1 camera mounted to one side of a crosswalk. System 2 is associated with the System 2 camera at the other side of the crosswalk.



System 1 (one side of crosswalk)

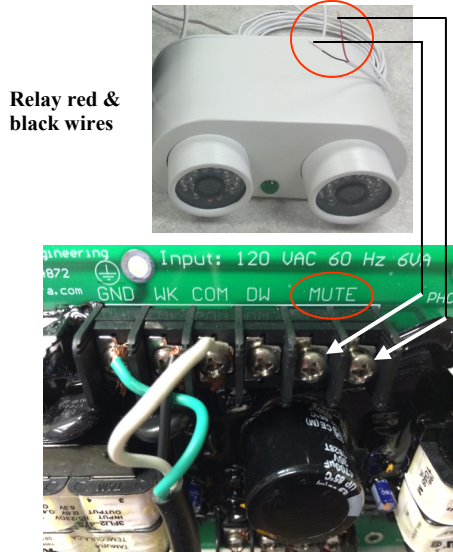
Red wire (COM) —————> Button terminal in cabinet
Black wire (N.C.) —————> Button terminal in cabinet

System 2 (the other side of crosswalk)

Red wire (COM) —————> Button terminal in cabinet
Black wire (N.C.) —————> Button terminal in cabinet

Relay Connections for MigmaIntersection™

Connection of Polara PHCU4W-M for Locator Tone Triggering



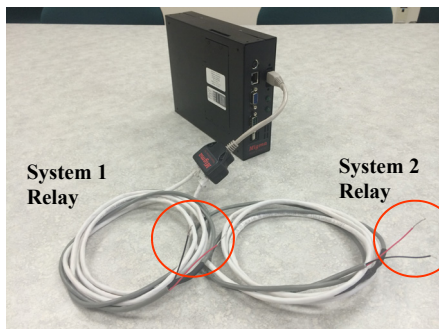
System 1 (one side of crosswalk)

Red wire at camera → MUTE terminal
Black wire at camera → MUTE terminal

System 2 (the other side of crosswalk)

Red wire at camera → MUTE terminal
Black wire at camera → MUTE terminal

Connection of Polara PHCU4W-M 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