

MigmaIntersection™

for detecting pedestrians at intersection crossings

Installation Guide

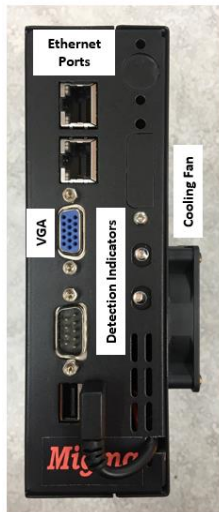
General Description

One MigmaIntersection™ 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.

Top View



Front View



Back View



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 “Sys 1”. Similarly connect Cat5e cable marked as “System 2” to the connector labeled as “Sys 2”.



APS Locator Tone Muting

On the back of stereo camera, there is a long white cable with two conductors. It is the dry contact relay cable. They can be connected to APS button of your choice to mute the locator tone. Please consult with APS manufacturer for relay wire connection details.



To APS
button for
muting
locator tone

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. Please note that the wiring scheme of RJ45 connector follows T-568B.

Ped Call Relay Connection

On the back of SBC, there is an RJ45 connector. It can be connected to an ethernet splitter of two dry contact relays for ped calls associated with System 1 and System 2. There are labels indicating which one is for System 1 and which one is for System 2.



Plug the ethernet splitter to the "Ped Call Relay" connector.



Now connect each relay to the push button terminals in the cabinet. Please follow the labels for System 1 and System 2.



System 1 (one side of crosswalk)

Red wire from splitter → Button terminal
Black wire from splitter → Button terminal

System 2 (the other side of crosswalk)

Red wire from splitter → Button terminal
Black wire from splitter → Button terminal

Power for Stereo Cameras

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