



# MigmaCount™ for Pedestrian and Cyclist Counting



**MigmaCount™** is an outdoor passive pedestrian and cyclist detector and counter at street crossings or bike trails. It can count multiple pedestrians/cyclists in groups through advanced tracking technology. The pedestrian/cyclist counting sensor consists of stereo camera and scanning laser. Advanced features include:

- △ High resolution IR LED stereo camera for day/night detection
- △ High resolution laser scanner for separation of peds and cyclists
- △ Industrial single board computer (SBC) running Windows OS
- △ Counting large number of pedestrians and cyclists in groups and in two directions simultaneously with accuracy over 95%
- △ Pedestrian/cyclist counts and/or images are saved locally in USB drive and/or remotely at the server in traffic control center
- △ Stored data are organized in terms of timestamps and location names such as state, city, intersection and corner
- △ Standalone system utilizing city network for data transmission
- △ Sensor is powered over Ethernet (PoE)
- △ Simple wiring and connection using CAT5e Ethernet cables
- △ Low power consumption for solar power

In addition to accurate pedestrian counting, **MigmaCount™** also provides intersection performance measure that include:

- △ Pedestrian volume at different time
- △ Pedestrian average walking speed
- △ Pedestrian occupancy per signal phase

A standalone desktop software application can be used to remotely access pedestrian counts and intersection performance measure stored at the server and can be graphically displayed at local computers.



**MigmaCount™** is designed to meet the traffic engineering requirements for pedestrian detection and counting in the outdoor environment. Built-in IR LEDs are turned on under the low illumination for night time operation. Specifications:

- △ Image Sensor: 1/3" Sony CCD Chip
- △ Camera Mounting Height: 12 ~ 14 ft
- △ Activation Time: 1 ~ 2 s
- △ IR Range: 100 ft (~30m) in total darkness
- △ S/N Ratio: ≥ 48 dB
- △ Cable and Power: Cat5e and power over Ethernet (PoE)
- △ Ambient Temperature: -22 °F ~ 140 °F (-30 °C ~ 60 °C)
- △ Operating Humidity: 0% ~ 96%
- △ Operating Environment: All weather, day and night
- △ Failsafe and watchdog timer support



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