

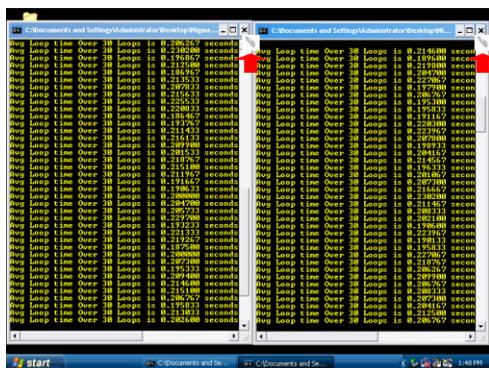
MigmaIntersection™

for detecting pedestrians at intersection crossings

Configuration Instructions

Monitor Connection

Connect the VGA and USB connectors of MigmaMonitor to the SBC. Close both programs (two screens with yellow prints) by clicking on the exit button (X) on top of each DOS window.



There are three ways to interfacing with SBC:

- MigmaMonitor™, a portable computer monitor with VGA connector and touch screen. This monitor can be left in the controller cabinet.
- A laptop using an Ethernet crossover cable (crossover cable is provided). You can find the remote login procedures in this guide.
- A regular desktop PC VGA monitor and USB mouse. This approach is suitable for configuration and test in the office.

Zone Configuration

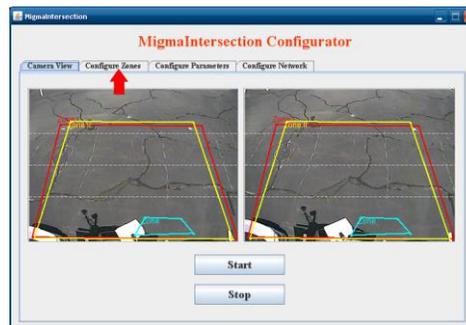
The configuration procedures for System1 and System2 are exactly the same. To configure the three zones for System1, please follow the steps under each Zone configuration.

On the desktop double click on the **System1_GUI** icon to start configuring the three zones.



Now that the configuration software application has started, select the tab named **Configure Zones**.

The camera view from System1 is shown. The default zones are in RED, YELLOW and BLUE. There are three zones which are referred to as **ZONE I**, **ZONE II** and the **AVOID ZONE**. As the name implies, objects within AVOID ZONE will be ignored. Therefore this zone should be made smaller.

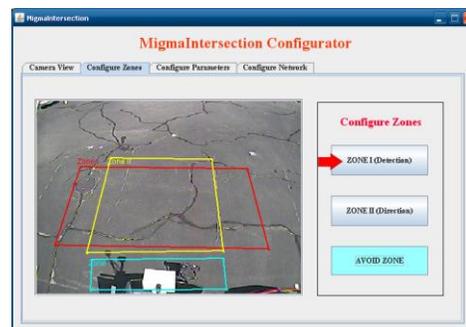


Note: You can always clear the zone and draw again if needed.

Configuring ZONE I (Locator Tone)

ZONE I is the zone in which the pedestrian will first enter. This zone will trigger the locator tone of APS button. It should be drawn to cover as much of the sidewalk as possible.

Step 1: Click on the **ZONE I** button.

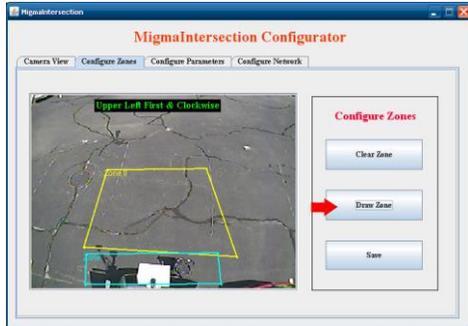


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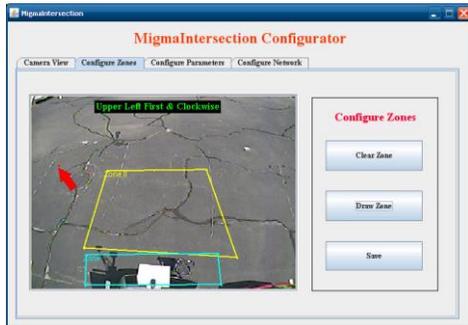
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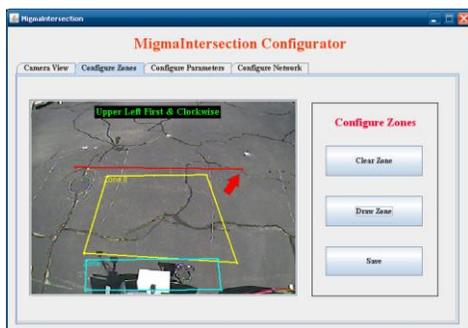
Step 2: Click on **Clear Zone** and then click on **Draw Zone** buttons.



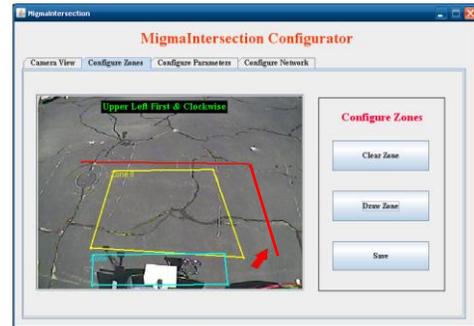
Step 3: Now using the stylus or mouse touch the upper left corner of the desired zone to start drawing.



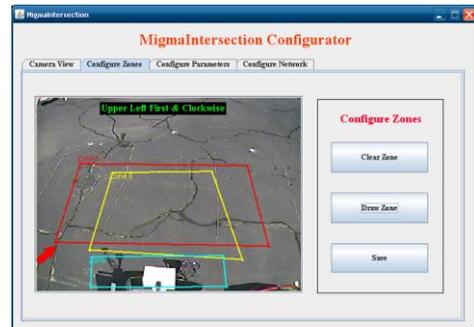
Step 4: Next touch the upper right corner of the zone with the stylus or mouse. This will connect the two points and there will be one red line drawn.



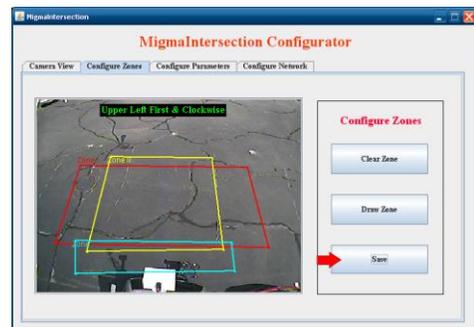
Step 5: Next touch the lower right corner of the zone and this will connect the three points. There will be two red lines drawn.



Step 6: Finally touch the lower left corner with the stylus or mouse and this will complete the zone by connecting all four points.



Step 7: After completing the zone configuration, click on the **Save** button. This will save the newly configured ZONE I to the system. This is the zone that will be used to detect pedestrians unless it is changed.



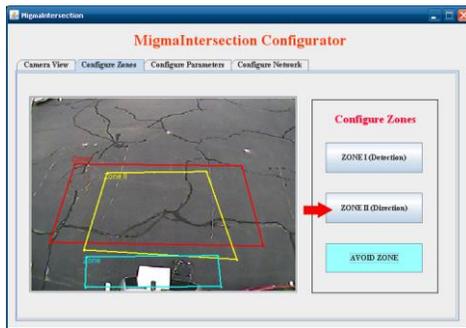
Configuring Zone II (Ped Call)

Step 1: Click on the **ZONE II** button to start configuration.

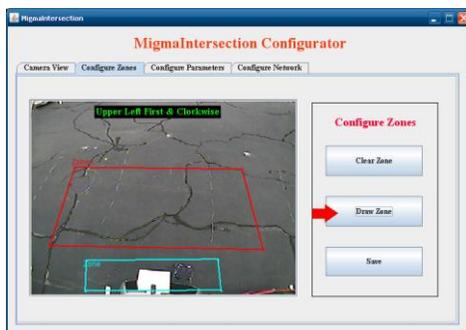
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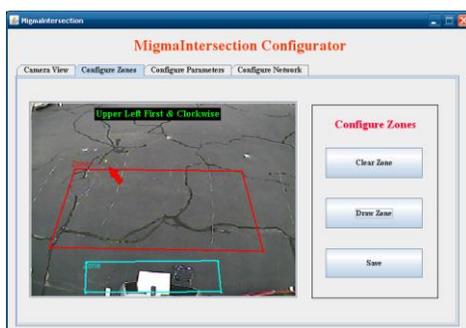
Configuration Instructions



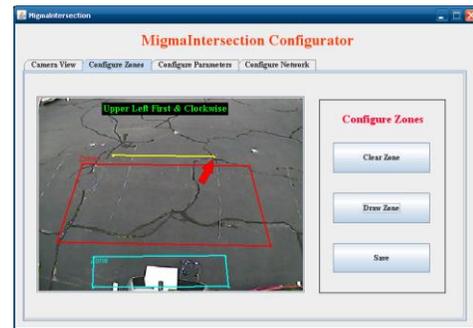
Step 2: Click on the **Clear Zone** button to clear the default zone and then click the **Draw Zone** button. Configuring the zone will be identical to **ZONE I** except that **ZONE II** will be smaller. This is the zone where the pedestrian will be detected after standing inside for about 4~5 seconds and the system will place the ped call automatically.



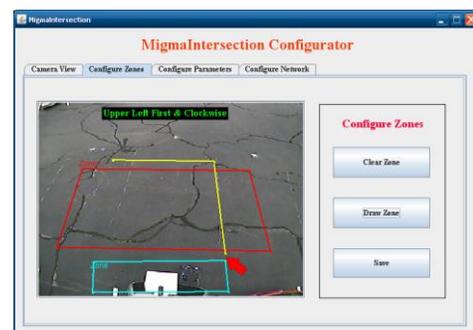
Step 3: Use the stylus or mouse and touch the upper left corner of the desired zone.



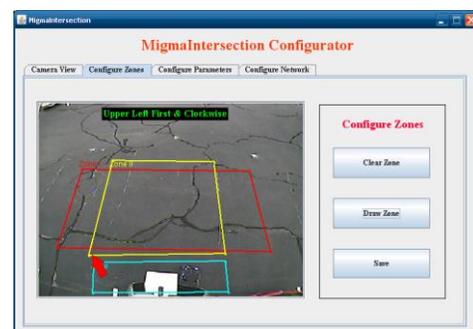
Step 4: Now touch the upper right corner with the stylus or mouse. This will connect the two points and there will be one yellow line drawn.



Step 5: Touch the lower right corner with the stylus or mouse. This will connect the three points and there will be two yellow lines drawn.



Step 6: Finally touch the lower left corner of the zone and this will complete the small zone.

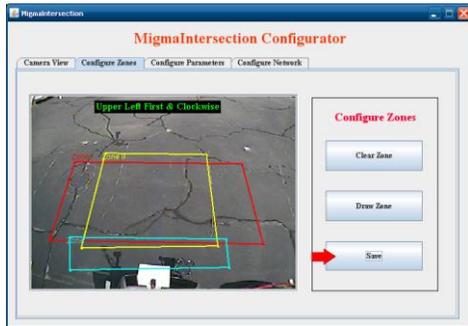


Step 7: Click on **Save** to save the zone configuration.

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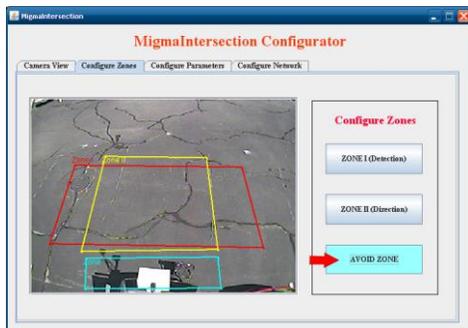
Configuration Instructions



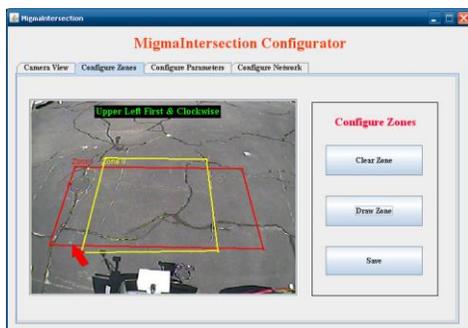
Configuring AVOID ZONE

The **AVOID ZONE** can cover a small area in which the objects will be ignored.

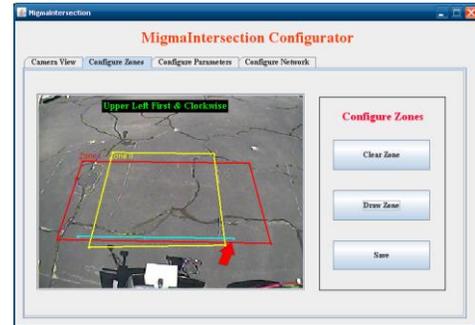
Step 1: Click on the **AVOID ZONE** button.



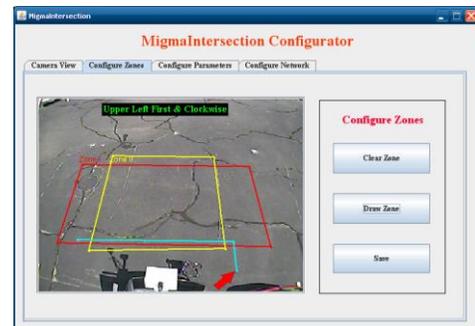
Step 2: Click **Clear** and then **Draw** to draw a new zone. Use the stylus or mouse to touch the upper left corner of the desired zone. Remember this zone will only cover a small section to avoid false detections.



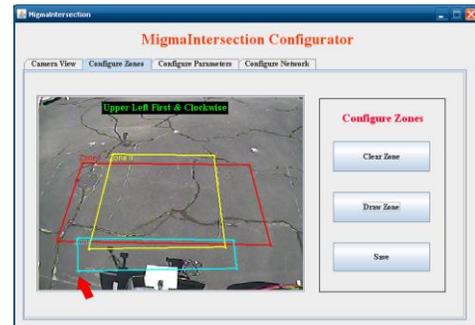
Step 3: Touch the upper right corner of the zone, this will connect the two points and there will be one blue line drawn.



Step 4: Now touch the lower right corner of the zone. This will connect the three points and you will have two blue lines drawn.



Step 5: Finally touch the lower left corner to complete the zone. Now you will see the zone complete in blue.

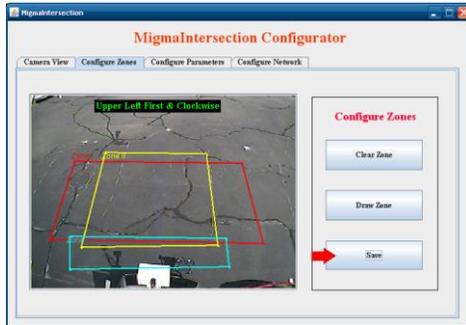


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Configuration Instructions

Step 6: Click on the **Save** button to save newly configured zone.



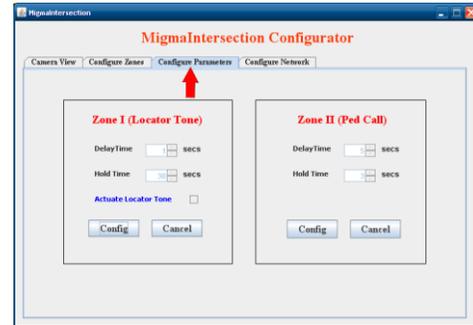
You have completed the System1 zone configuration. Now you need to configure the zones for System2 by following the same procedures for System1.

Parameters Configuration

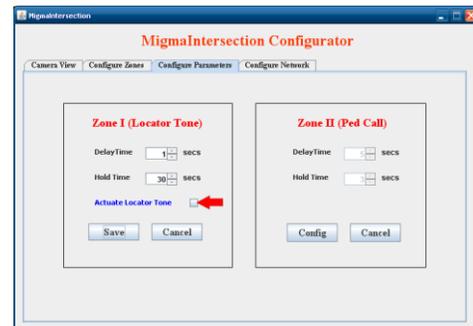
One can configure the delay time (*i.e. how long the pedestrian must be in the zone before being detected*) and the hold time (*i.e. how long ped call will be held by the system*). The default delay time for ZONE I (Locator Tone) is 1 second, meaning the pedestrian will be detected almost instantaneously. The default delay time for ZONE II (Ped Call) is 5 seconds, meaning the pedestrian will be detected only after he or she is in the zone for about 5 seconds. The default hold time for ZONE I is 90 seconds and for ZONE II is 3 seconds. You can use all of the default values.

The Actuation Locator Tone feature which is located in the ZONE I (Locator Tone) box allows the user to configure the locator tone. This will let the user control the locator tone whether it will sound all the time or only when a person walks in the detecting zone. If the box is checked the locator tone will sound only when a pedestrian walks into Zone I (Locator Tone). To have the locator tone on at all times, simply uncheck the box.

To configure Delay Time, Hold Time and Actuation Locator Tone, select the **Configure Parameters** tab to start the configuration. The screen is shown below.

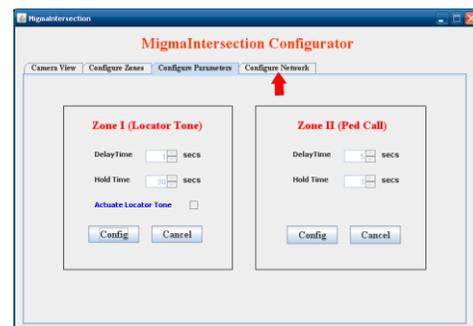


For each zone please click on the **Config** button to make the appropriate changes. Once you have configured the Delay Time and Hold Time, you can check the Actuate Locator Tone check box if desired. Click **Save** once the time configurations are complete.



Network Configuration

To configure the system to save images and count data locally and or remotely, click on the **Configure Network** tab.



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Configuration Instructions

Unit Location Configuration

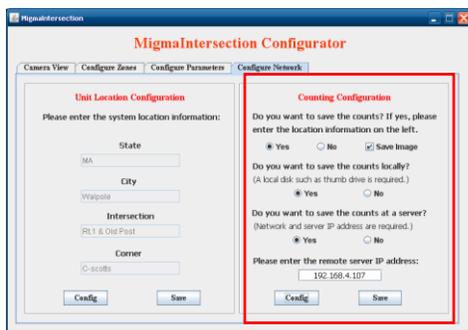
Enter the location information that will be used to organize the locator tone counts and ped call counts and associated images saved both locally and remotely. Entry lines have a space limit of 20 characters.

Click on the **Config** button to enter the information for State, City, Intersection and Corner. Please click on the **Save** button to save the location information entered.

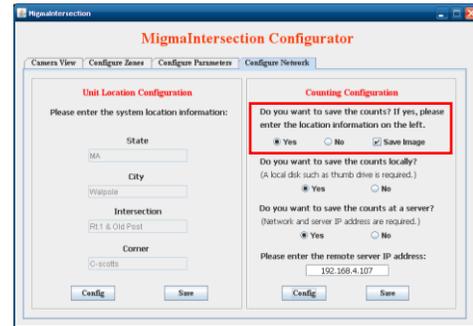


Data Saving Configuration

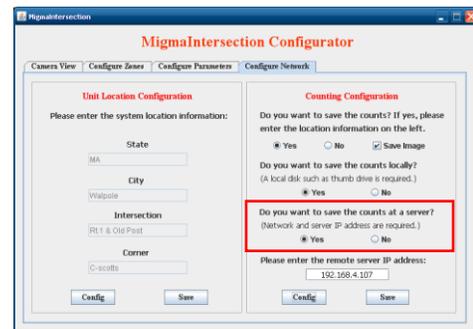
On the right hand side of the screen there are options for counts and image saving. Data can be saved locally in an external USB drive, and/or remotely using the MigmaServer™.



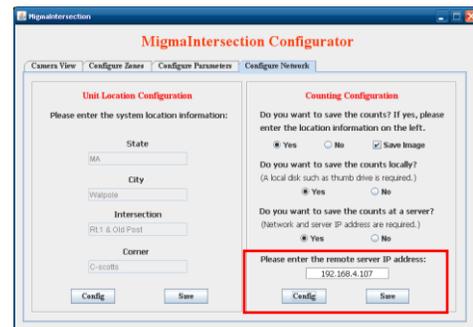
You can enable or disable data saving. The default is already YES. If you prefer not to save the counts simply click NO. If YES, you will also need to specify if the detection images need to be saved.



If you would like to save the counts and detection images locally click yes and insert a local disk such as a thumb drive.



If you prefer to save the counts and images remotely, please enter the remote server IP address. Migma server application must be installed at this remote server in order to receive the data from clients and save the data appropriately. Click on the **Config** button to add the IP address and click on the **Save** button once you are done.



You now have completed the System1 parameter configuration. You will need to configure System2 by following the same procedure for the System1 configuration.

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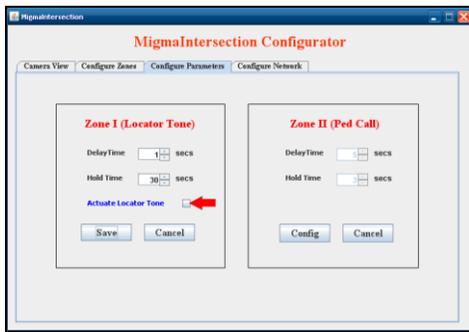
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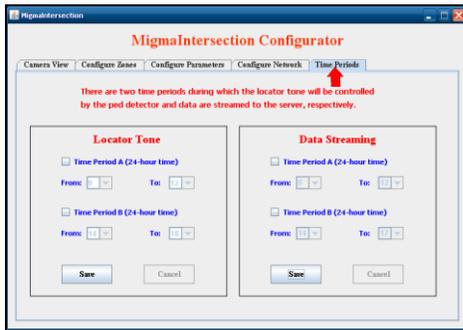
Time Period Configuration

The user can select specific time periods in which the locator tone will be controlled by the ped detector and data is streamed to the server. There are two time periods the user can configure. For example, one time period could be from 8am until 12pm and then 4pm until 8pm. The locator tone will only be controlled by the system during those time periods ONLY. If two separate time periods are not needed only one should be enabled by checking the box and then configured.

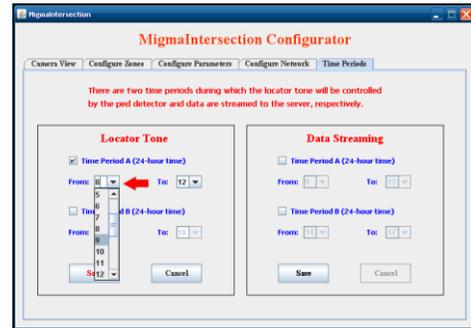
To use this feature the *actuate locator tone* in *Configure Parameters* MUST be checked.



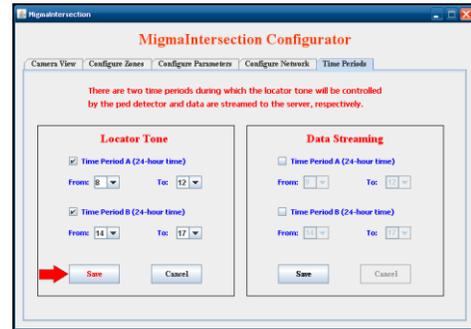
Click on the tab named *Time Periods*.



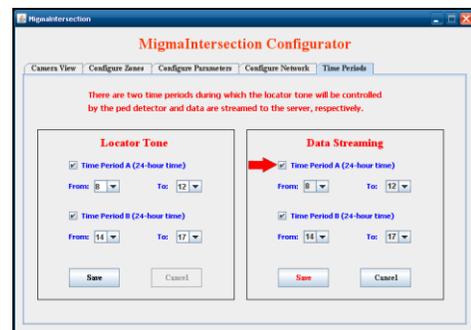
In the *Locator Tone* box you will need to check the box for Time Period A, this will enable the time selection fields. Using the drop down box in the enabled time selection, select the hour in which you would like to control locator tone, hours are listed as 0 to 23 (midnight until 11pm).



Once the time periods for controlling the locator tone have been configured you will need to click the *Save* button. The save button will be in red color until it is clicked, and then it will go back to the default black color. This is to let you know that the configurations have been saved.



To configure the time periods for streaming data to the server you will follow the same steps as the locator tone. Again, time periods selected will stream data to the server ONLY for the time periods configured. Under Data Streaming you will need to check the box for the Time Period A to enable the fields. Using the drop down boxes you can then select the hours for your desired time periods.

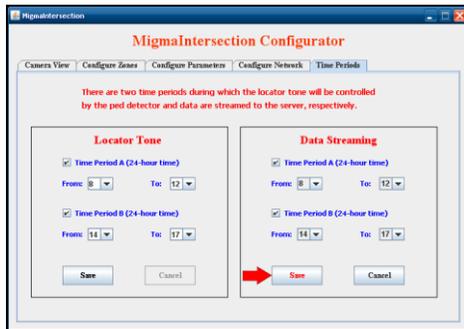


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Configuration Instructions

Once the time periods have been configured, click the *Save* button. Again, once you click *Save* the button will go back to the default black color.



Now that you have finished all configurations and ready to have the system operational, you **MUST** save all configuration data to the disk inside SBC.



To do this, on the desktop screen,

Double Click on the **Save** icon

The system will then save the data and automatically reboot. The system will use the new configuration data for detecting pedestrians at intersection crossings.

REMEMBER: Whenever you configure the system, you must click on the *Save* icon to save the configuration and reboot the system. Otherwise your configuration changes will NOT be saved.



Once the system has restarted, you may unplug the monitor and close the cabinet door. The system is ready for use.

Recommendation for ZONE I size

Make sure this zone is large enough. A pedestrian will be detected only after he or she walks about 2-3 steps inside the zone at normal walking speed.

Recommendation for ZONE II size

This zone should be relatively small and cover the waiting area. In order to have pushbutton actuated automatically, pedestrians must stay in this zone for 4-5 seconds.

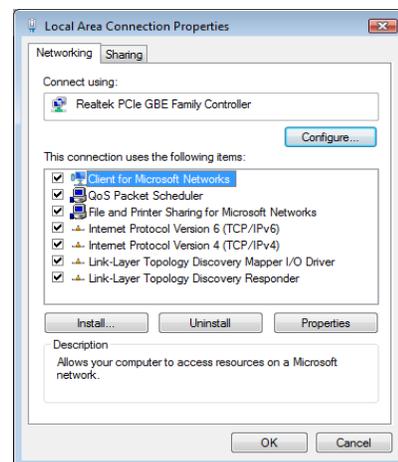
Recommendation for AVOID ZONE size

This zone should be relatively small and cover an area where you don't want to detect any objects.

Remote Login Configuration

Before logging into SBC remotely, you should configure your laptop you will use to connect to SBC with crossover Ethernet cable.

- Open **Properties** of **Local Area Connection** in **Network Connections** in **Control Panel**

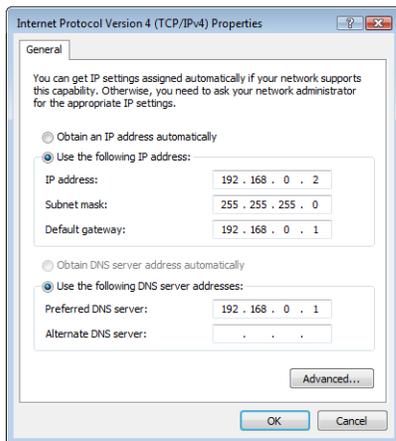


- Open **Properties** of **Internet Protocol version 4 (TCP/IPv4)**

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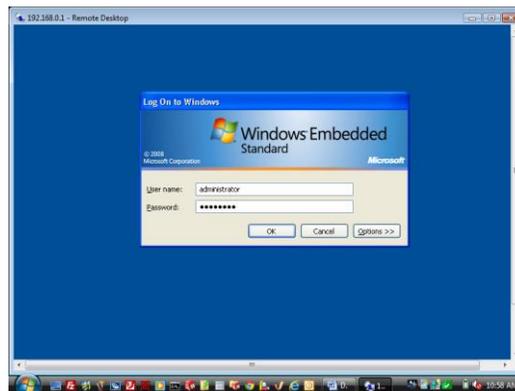
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Configuration Instructions



- **Username:** administrator
- **Password:** migmasys

Click on **OK** button to access the SBC.



- Select **Use the following IP address** and enter the following network information:
 - IP address: 192.168.0.2
 - Subnet mask: 255.255.255.0
 - Default gateway: 192.168.0.1
- Select **Use the following DNS server addresses:**
 - Preferred DNS server: 192.168.0.1
- Click on **OK** button to finish configuration of local area connection.

Remote Access

- Open **Remote Desktop Connection** in Windows
- **Enter 192.168.0.1** in **Computer**
- Click **Connect** button



A remote desktop login window appears. Enter the following information: