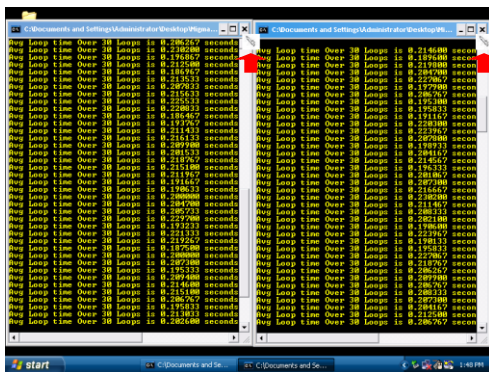


SBC Display

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 (not provided). You can find the remote login procedures in this guide.
- A regular desktop PC VGA monitor and USB mouse/keyboard. This approach is suitable for configuration and test in the office.



Once connecting to SBC using one of these methods, close both programs (two screens with yellow prints) by clicking on the exit button (X) on top of each DOS window.

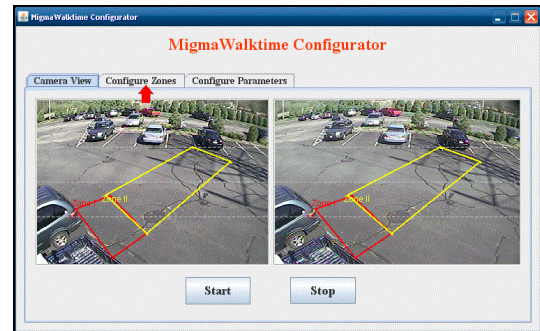
Zone Configuration

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

On the desktop double click on the **System1_GUI** icon to start the configurator for System1.



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

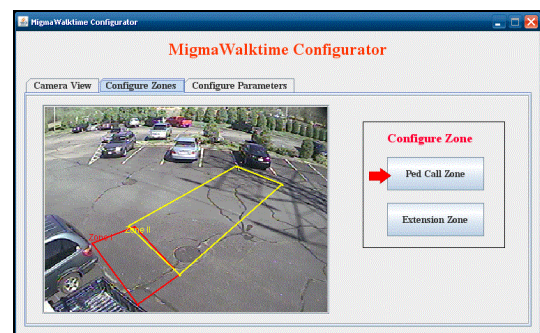


The camera view from System1 is shown. The existing zones are in RED and YELLOW. There are two configuration zones, one for automated ped call, and the other for walk time extension.

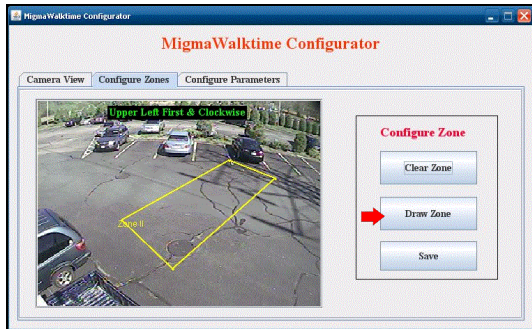
Configuring Ped Call Zone

Ped Call Zone is a zone in which the pedestrian will enter and wait for green light. Once the pedestrian is detected in this zone, a ped call will be placed automatically. It should be drawn to cover as much of the waiting area as possible. **Ped Call Zone** will be shown in color red.

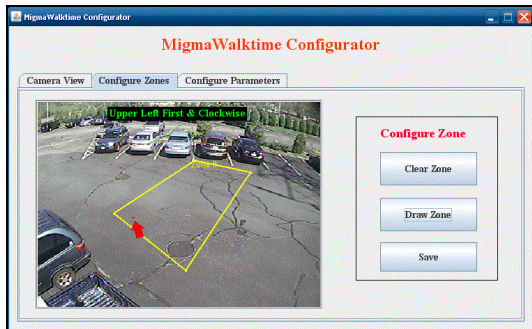
Step 1: Click on the **Ped Call Zone** button.



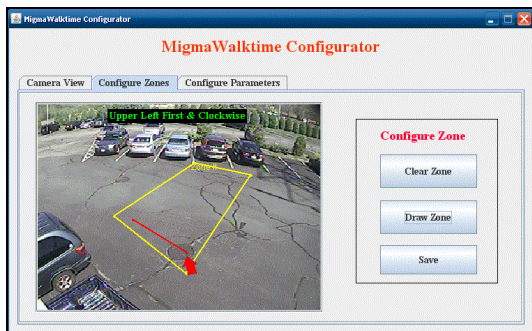
Step 2: Click on **Clear Zone** and then click on **Draw Zone** buttons.



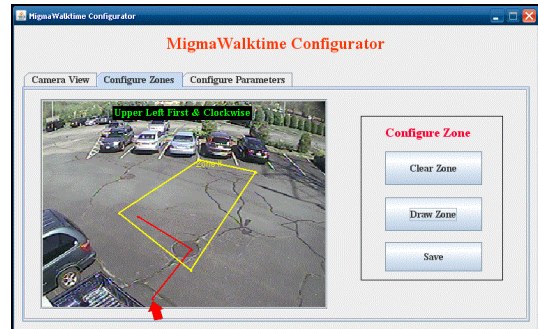
Step 3: Now using the stylus or mouse touch the *upper left corner* of the desired zone to start drawing.



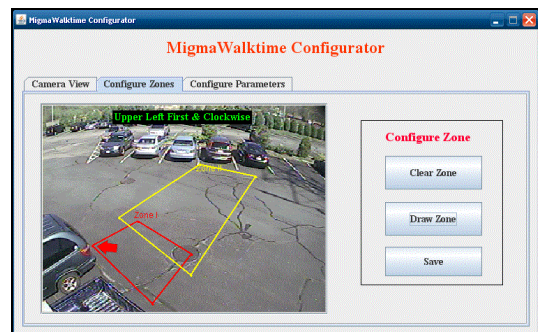
Step 4: Next touch the upper right corner of the zone with the stylus or mouse. This will connect the two points and there will be one red line drawn.



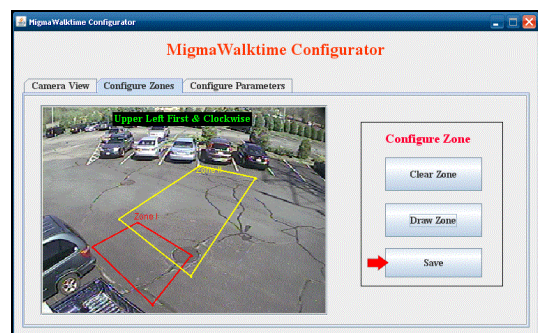
Step 5: Next touch the lower right corner of the zone and this will connect the three points. There will be two red lines drawn.



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



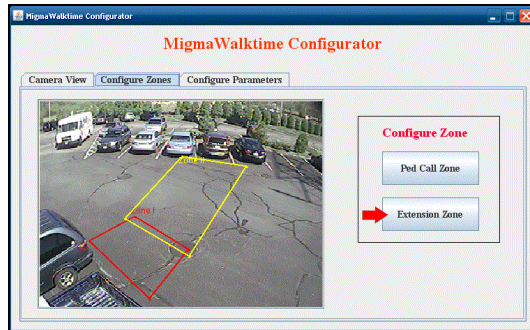
Step 7: After completing the zone configuration, click on the **Save** button. This will save the newly configured **Ped Call Zone** to the computer. This is the zone that will be used to detect pedestrians and place a ped call.



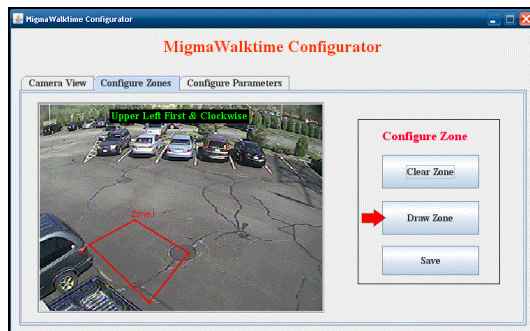
Note: All configured zones can be cleared and drawn again.

Configuring Extension Zone

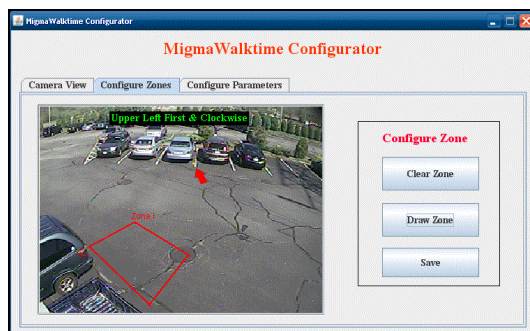
Step 1: Click on **Extension Zone** button to start configuration.



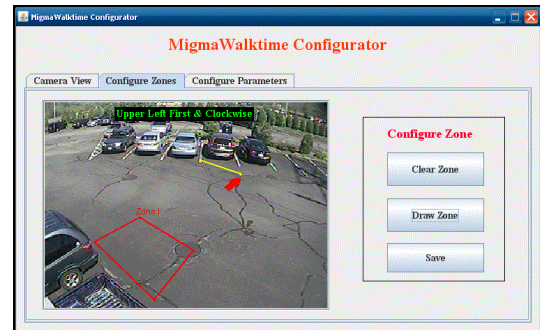
Step 2: Click on the **Clear Zone** button to clear the existing zone and then click the **Draw Zone** button. The **Extension Zone** should cover as much of the crosswalk as possible. As long as there are pedestrians detected in this zone, the walk time extension request (i.e., relay contact closure) is sent to the controller until he or she is out of this zone.



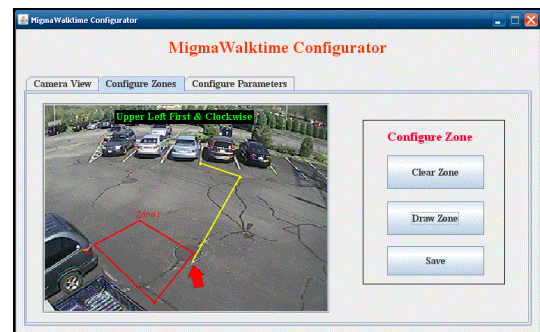
Step 3: Use the stylus or mouse and touch the upper left corner of the desired zone.



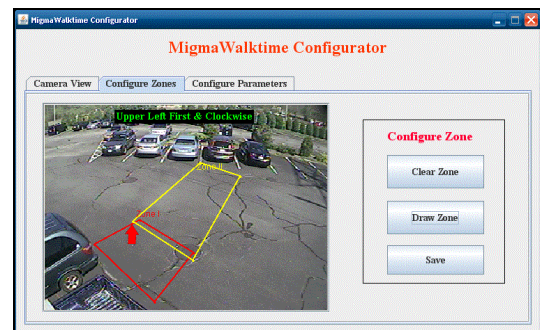
Step 4: Now touch the upper right corner with the stylus or mouse. This will connect the two points and there will be one yellow line drawn.



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.

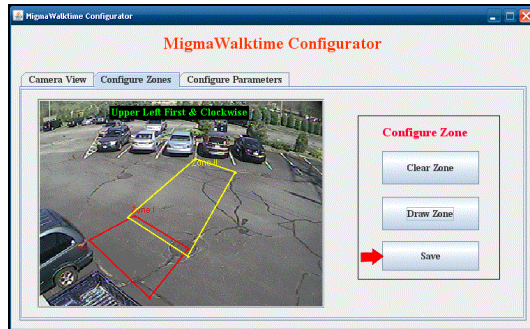


Step 7: Click on **Save** to save the zone configuration.

Migma Walktime™

for pedestrian detection and walk time extension

Configuration Instructions



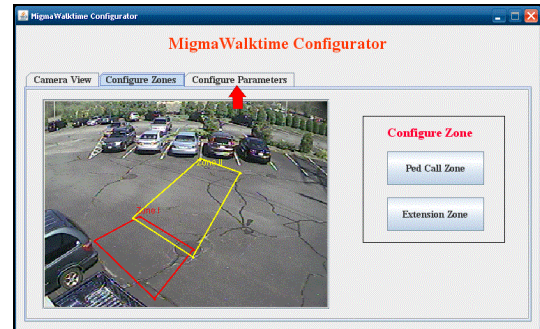
You have completed the System1 zone configuration. Now you need to configure two zones for System2 by following the same procedures outlined for System1.

Parameters Configuration

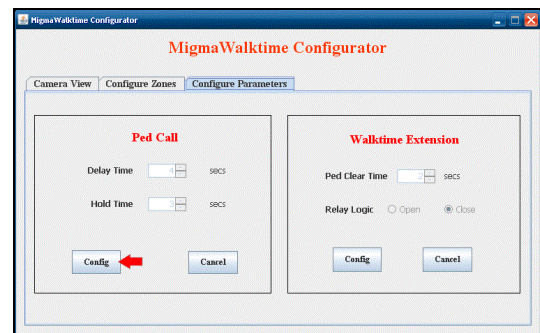
For **Ped Call** part, you can configure the Delay Time (*i.e. how long the pedestrian must be in the ped call zone before being detected*) and the Hold Time (*i.e. how long ped call will be held by the system*). The default Delay Time for **Ped Call** is 4 seconds, meaning the pedestrian will be detected after staying in the zone for 4 seconds. Default time for the Hold Time is 3 seconds (*i.e., relay will be closed for 3 seconds*).

For **Walktime Extension** part, you can configure Ped Clear Time (*i.e. how long the extension is released once the pedestrian is no longer in the crosswalk*). The default Ped Clear Time is 2 seconds, meaning the extension will be cleared in 2 seconds after a pedestrian leaves the crosswalk. The Relay Logic can be used to set whether or not the extension relay should be *close* or *open* when the system makes the extension request to the controller. It should be set based on the controller you use.

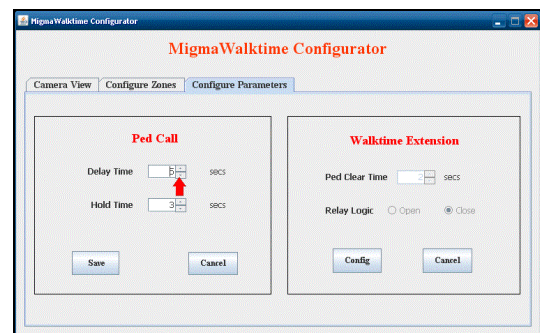
To configure Delay Time and Hold Time, please select the **Configure Parameters** tab to start the configuration. The screen is shown below.



For both **Ped Call**, click on the **Config** button to configure the system for your specific needs.



Simply click the Up or Down arrow to adjust the time to your application. Once the time configurations are complete, please click on the **Save** button.

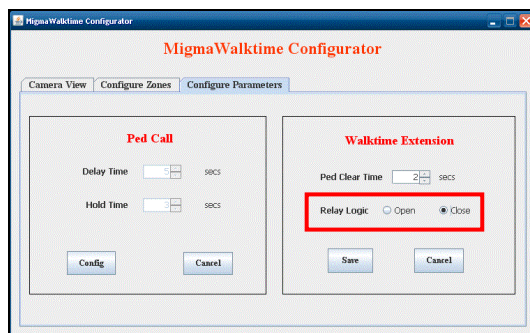
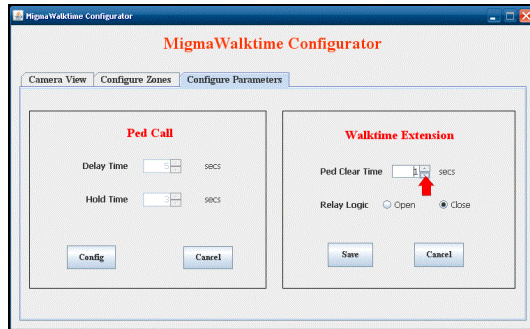


Configuring the **Walktime Extension** is identical to the **Ped Call**. Click on the Config button, select your preferred time for Ped Clear Time and your choice for Relay Logic.

MigmaWalktime™

for pedestrian detection and walk time extension

Configuration Instructions



You have completed the System1 parameter configurations. Now you will need to configure System2 by following the same procedures outlined for System1.

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 and extend walk time at street intersections.

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

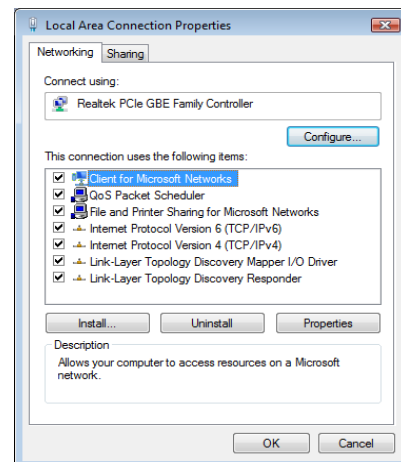


Once the system has restarted, you may unplug the monitor and close the cabinet door. The system is ready for use.

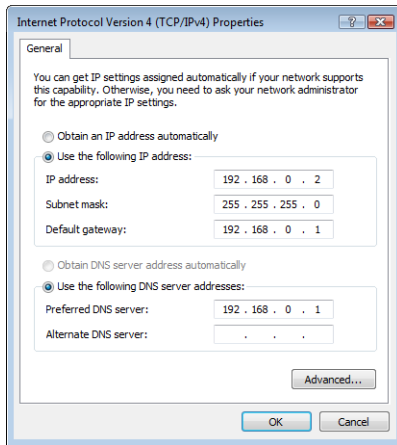
Remote Login Configuration

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)**



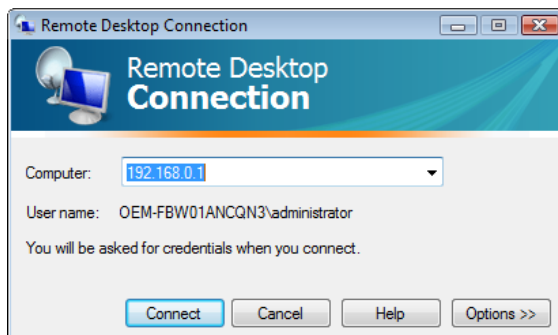
- Select **Use the following IP address** and enter the following network information:
 - IP address: 192.168.0.2
 - Subnet mask: 255.255.255.0
 - Default gateway: 192.168.0.1

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:

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

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

