| | |
|---|---|
| Integration Note | |
| Manufacturer: | Mobotix |
| **Model Number(s):** | **MOBOTIX T25** |
| Comments: | Board Revision 4.4, Bootloader 7.3.0.0, OS Release 2.6.37.6+, FS Release MX-V4.4.2.51-r1<br>Minimum Core Module 7.2.xxx |
| Document Revision Date: | 7/12/17 |

## OVERVIEW AND SUPPORTED FEATURES

The MOBOTIX T25 SIP Door Station is a network based SIP Door Station solution with an integrated video camera for monitoring door activity. ELAN integration with this door station supports the following features:

1. **Paging-** When the "Call" button is pressed on the Door Station, it will call all appropriate Intercom Stations based on the configured dial plan of the ELAN System. Refer to the Intercom Training Guide on the ELAN dealer site for extensive details on setting up dial plans.
2. **2 Way Calls-** A user at an Intercom Station can converse with the person who pressed the "Call" button.
3. **Video Monitoring-** The camera in the Door Station may be accessed from any Intercom Station to view the caller. Additionally, as of version 8.0 of ELAN the video may be previewed prior to answering a call on the intercom clients when the doorbell button is pressed.
4. **Relay/Door Strike Actuation through the UI and Event Mapper**- As of the release of ELAN 7.3, Relays and Door Strikes are supported through the Door Station Interface. See "Setting up the ELAN Mobotix IP relay control driver" below.

## INSTALLATION OVERVIEW

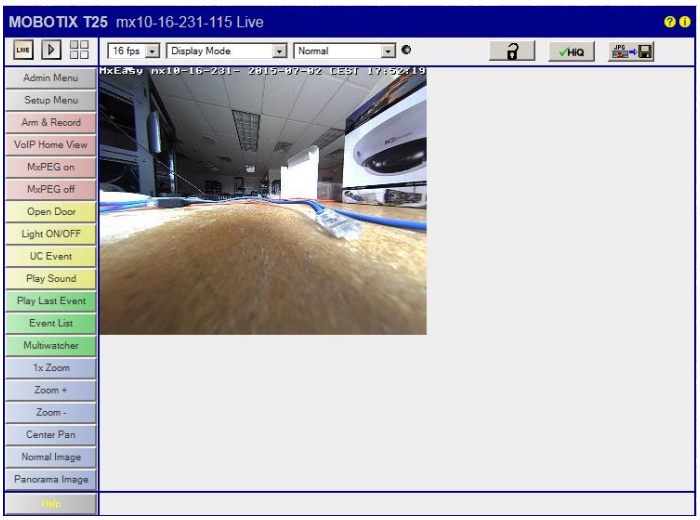
The MOBOTIX T25 Door Station connects to ELAN via Ethernet to provide communication between it and the various ELAN clients. The door station will need to be configured as follows for proper operation with the ELAN system.

1. Run a CAT5 or better network cable from the location of the door station back to a PoE (power over Ethernet) port the ELAN control network.
2. Physically install the door station and configure it for the ELAN system. Refer to Mobotix Configuration below.
3. Configure the ELAN controller for the Mobotix door station. Refer to ELAN Configuration Details below.
4. Test the door station for proper operation with the ELAN system.

## MOBOTIX CONFIGURATION

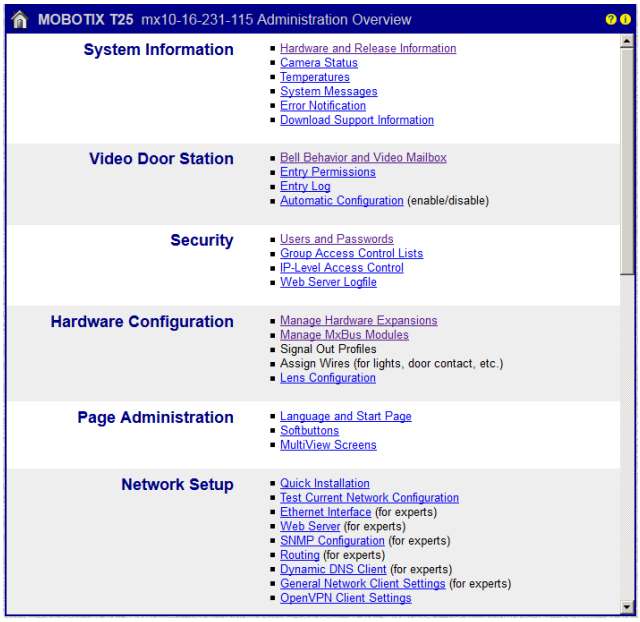
The MOBOTIX T25 door station must be configured as described below for proper operation with ELAN. The following procedure is based on the door station at its factory default state and running the firmware listed at the top of the page.

1. Power up the door station on the network and let it boot and acquire an IP address. These units are set to DHCP by default.
2. Find the door station's IP Address. Use the MOBOTIX MXEasy utility (available for download from the MOBOTIX web site) or alternatively, you can use a network IP address scanning utility to locate the device.
3. Enter the door station's IP Address into a Web Browser. You will be taken to the login page for the Door Station. Log in to the door station. By default, the user name is **admin** and the password is either **t25** for US versions or **meinsm** for euro versions**.** You will be taken to the Configuration Utility as shown below:

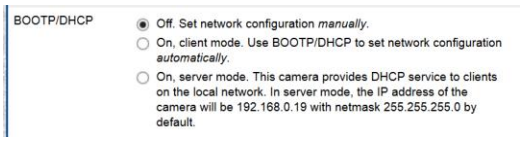


4. Select the “Admin Menu” button on the left to access the Administration Overview screen.

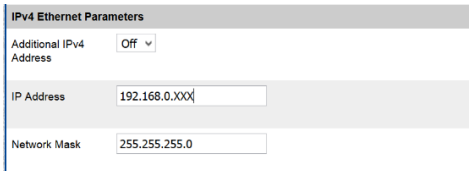
   Note: If a Quick Installation window pops up then click the Skip button at the bottom to access the page shown below:


:

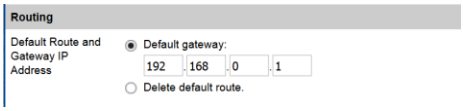
5. Scroll down to the Network Setup section and click the link for Ethernet Interface (for experts).
   a. Under the General Interface Setup section set the “BOOTP/DHCP” to Off.




   b. Under the IPv4 Ethernet Parameters section set the following:
      i. Additional IPv4 Address to Off
      ii. IP Address to a the static IP address you have chosen for this device on your network.
      iii. Set the network mask to 255.255.255.0



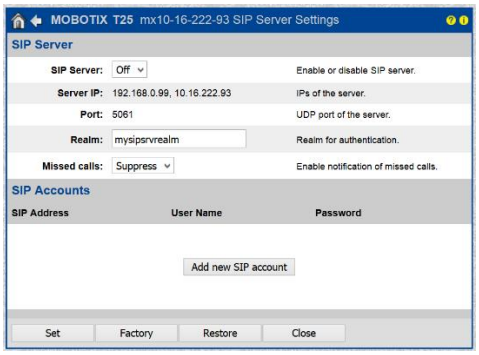

   c. Under the Routing section set the “Default Route and Gateway IP Address: to Default gateway and enter the gateway address for your network.



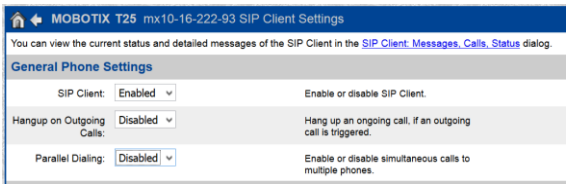

   d. Click the Set button at the bottom.
   e. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.

6. Scroll down to the Configuration section and Select the “Store” link.
    i. Click the “Store Permanently” button.
    ii. Follow the on-screen setups to Reboot the camera.
7. Wait for the camera to come back online then browse to the camera at its new IP address. Click the Admin Menu to continue configuring the door station.

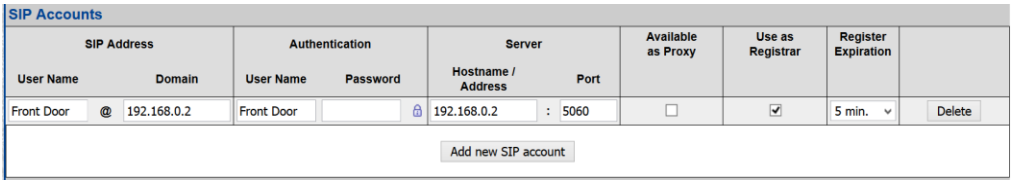
    Note: If a Quick Installation window pops up then click the Skip button at the bottom to access the admin setup menu.
8. Scroll down the screen to find the “Audio and VoIP Telephony” section
    a. Select the SIP Server Settings link
        i. Set SIP Server to “Off”
        ii. Click the Set button at the bottom.
        iii. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.



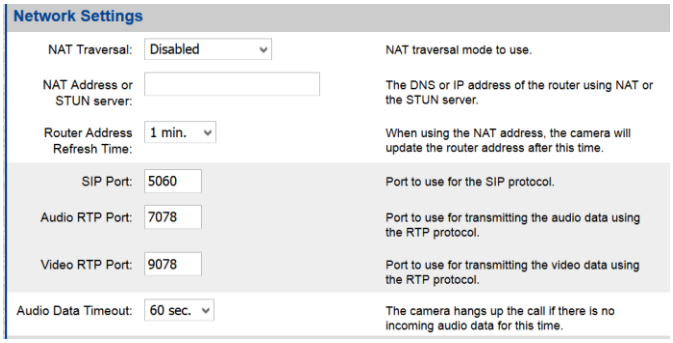

    b. Select the SIP Client Settings link
        i. Scroll to the bottom of the page and change “Setup Mode” to “Expert Setup”
        ii. At the top of the page, under General Phone Settings
            1. set SIP Client to Enabled
            2. Set Parallel Dialing to “Disabled”




        iii. Under the SIP Accounts heading, click the “Add new SIP account” button
            1. Set the SIP Address Username as the name of the door station
            2. Set the SIP Address Domain as the IP Address of the ELAN Controller
            3. Set the Authentication User Name as the name of the door station (this will show in Configurator. The Authentication password field is not used and should be left blank.
            4. Set the Server Hostname/Address as the IP Address of the ELAN Controller and set the port to 5060
            5. Check the “Use as Registrar” box
            6. All other settings can remain at default

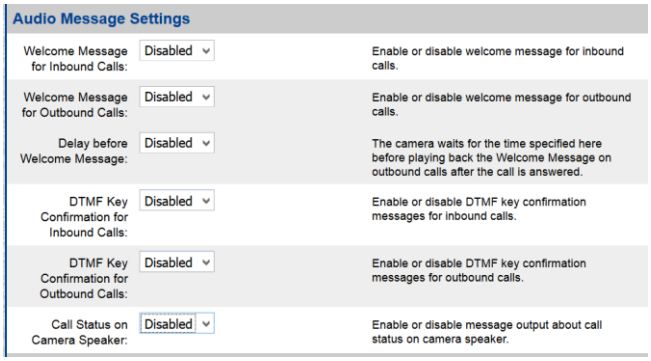



iv. Under “Network Settings” change the “Audio Data Timeout” to “60 sec.”



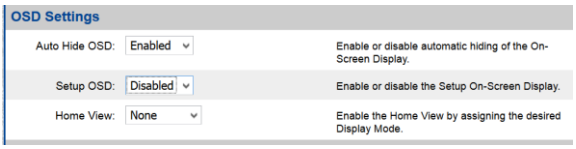

v. Under Audio Message Settings

1. Change “Welcome Message for Incoming Calls” to “Disabled”
2. Change “Welcome Message for Outbound Calls” to “Disabled”
3. Change “Delay Before Welcome Message” to “Disabled”
4. Change “DTMF Key Confirmation for Inbound Calls to “Disabled”
5. Change “DTMF Key Confirmation for Outbound Calls” to “Disabled”
6. Change “Call Status on Camera Speaker” to “Disabled”



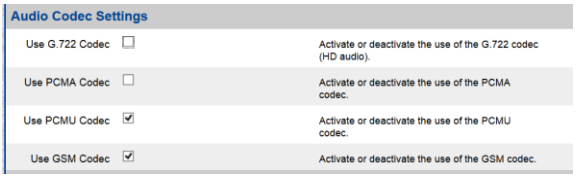
vi. Under OSD Settings

1. Set “Auto Hide OSD” to “Enabled”
2. Set “Setup OSD to “Disabled”



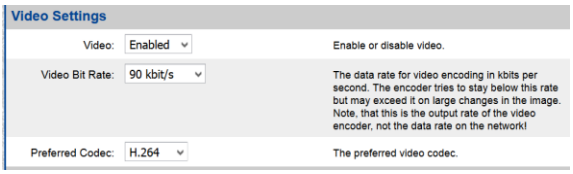

vii. Under Audio Codec Settings

1. Uncheck Use G.722 & PCMA Codecs
2. Check Use PCMU & GSM Codecs




viii. Under “Video Settings”

1. Set “Video” to “Enabled”
2. Set “Video Bit Rate” to “90 kbit/s”
3. Set “Preferred Codec” to “H.264”



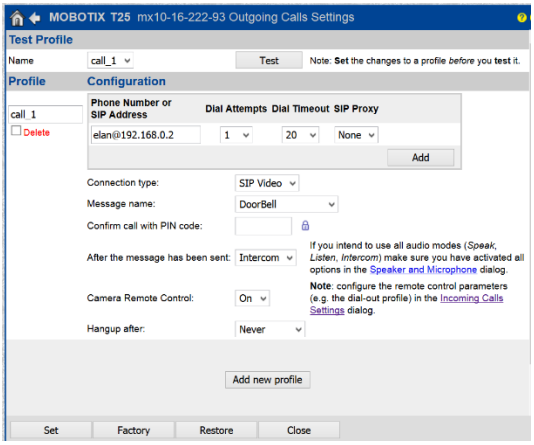

ix. Click the “Set” button in the lower left to save all the changes

x. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.

c. Select “Outgoing Call Settings”

   i. Click the “Add new profile” button to create a new Profile

      1. Set “Phone Number or SIP Address” to elan@x.x.x.x, where x.x.x.x is the local IP Address of the ELAN controller
      2. Set “Connection Type” to “SIP Video”
      3. Set “Message Name” to “DoorBell”
      4. Leave “Confirm Call with PIN Code” blank
      5. Set “After the message has been sent” to “Intercom”
      6. Set “Camera Remote Control” to “On”
      7. Set “Hangup after” to “Never”
      8. Click the “Set” button in the lower left
      9. Click the Test button at the top of the screen
      10. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.



d. Select “Incoming Call Settings”

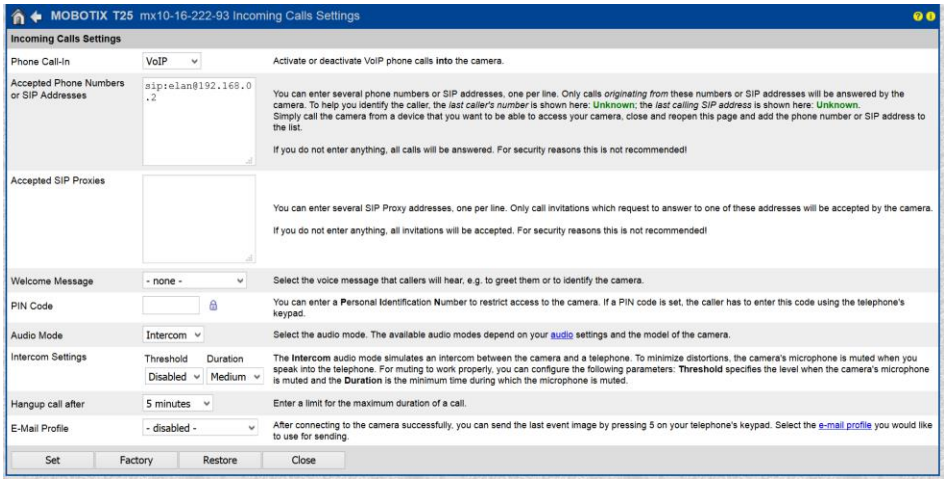
i. Set “Phone Call-In” to “VoIP”

ii. In the “Accepted Phone Numbers or SIP Addresses” field, enter sip:elan@x.x.x.x, where x.x.x.x is the local IP address of the ELAN Controller

iii. Clear out the Pin Code field.

iv. Click Set in the lower left corner.

v. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.




e. From the “Video Door Station” heading, Select the “Bell Behavior and Video Mailbox” link

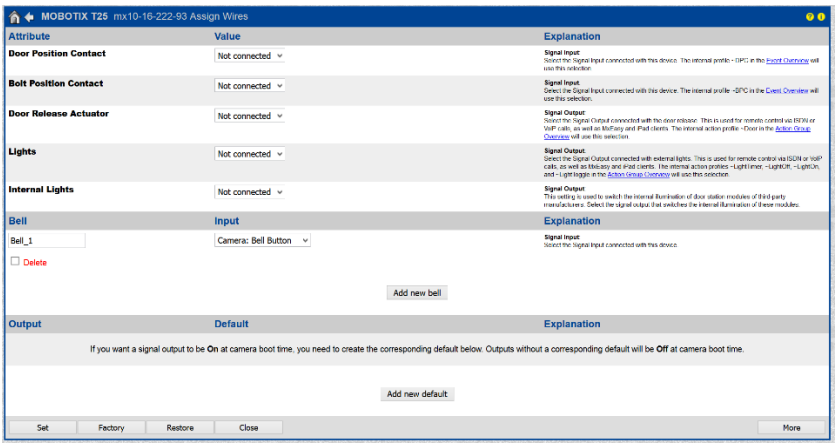
i. Click the “More” button in the lower right

ii. Scroll down to “Assign Bell Button/Contact Number”. Click the “Assign Wires” link in the description of the Bell Buttons section.

1. In the Bell section click Add New Bell button and set the input to Camera: Bell Button.

2. Click Set at the bottom of the page.

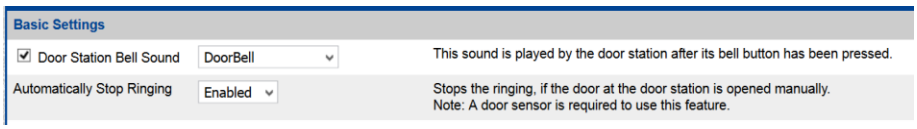
3. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.



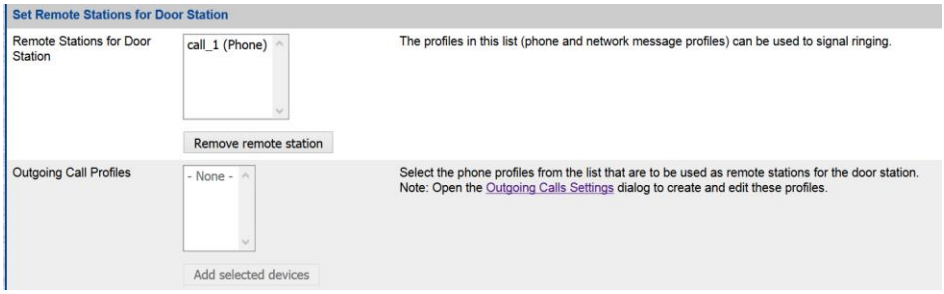
f. From the “Video Door Station” heading, Select the “Bell Behavior and Video Mailbox” link

i. Click the “More” button in the lower right.

ii. Optional: Under Basic Settings, Check the box for Door Station Bell Sound and select DoorBell in the dropdown.

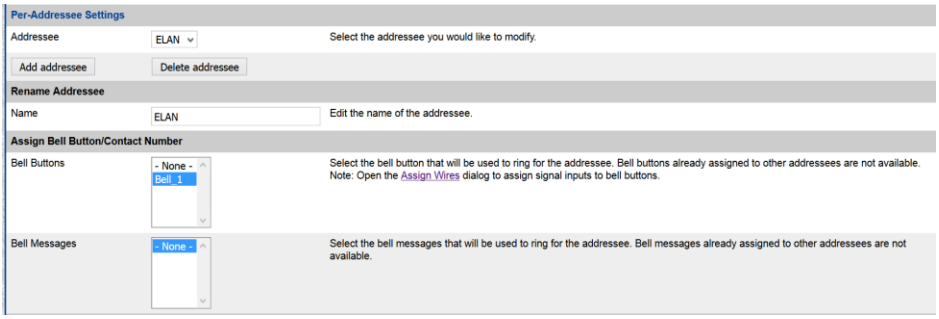



iii. In the section labeled “Set Remote Stations for Door Station”, select the Call Profile added previously from the “Outgoing Call Profiles” heading then click the “Add selected devices” button to add the profile as a “Remote Station for Door Station.”



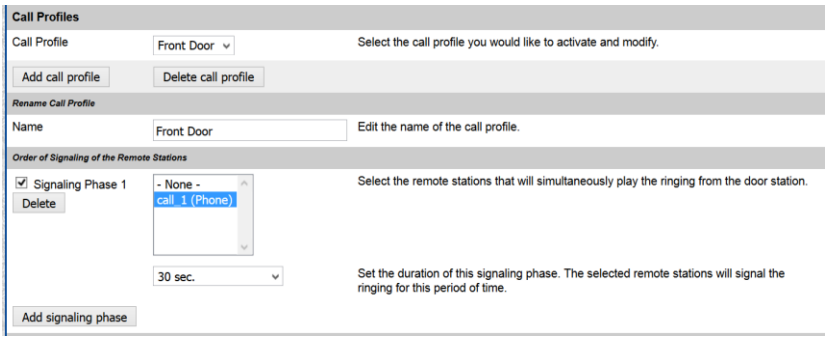

iv. Scroll down to “Per-Addressee Settings.” Click the “Add Addressee” button.

v. Under the Assign Bell Button/Contact Number, select the Bell_1 that was created previously.




vi. In the Call Profiles section, click the “Add Call Profile” button.

vii. In the “Order of Signaling of the Remote Stations” section, select the Call Profile created previously and then check the “Signaling Phase 1” check box.




viii. Click Set on the lower left.

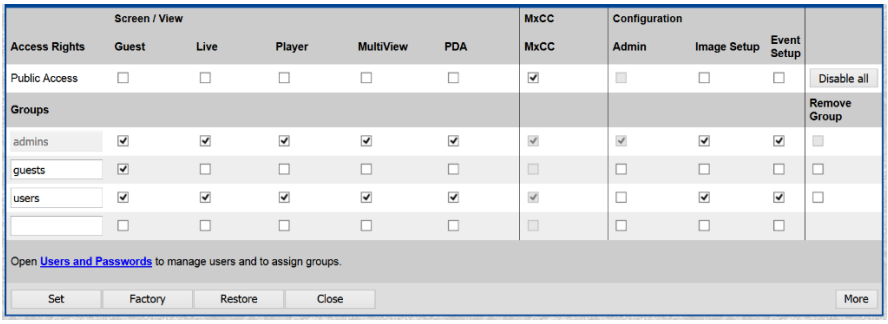
ix. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.

g. From the Security heading select the Group Access Control Lists

   i. Verify the MxCC box under the Public Access settings is checked.

   ii. Click Set on the lower left.

   iii. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Admin menu page.




h. From the Hardware Configuration section select the Signal Out Profiles link.

   NOTE: This step is for configuring the relay outputs on the door station. Since some of the Mobotix units do NOT support this functionality this link maybe inactive. If this is the case then skip to the next step to Store the configuration below.

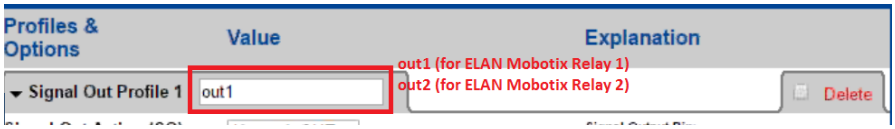
   i. Click the “Add New Profile” button.

   ii. Enter the Value as out1 for the first output.

   iii. Set the Signal Out Action (SO) as the Relay Output 1 On.

   iv. Repeat for the second output using the Value as out2 and the (SO) as Relay Output 2.

   v. Click the Set button on the lower left.

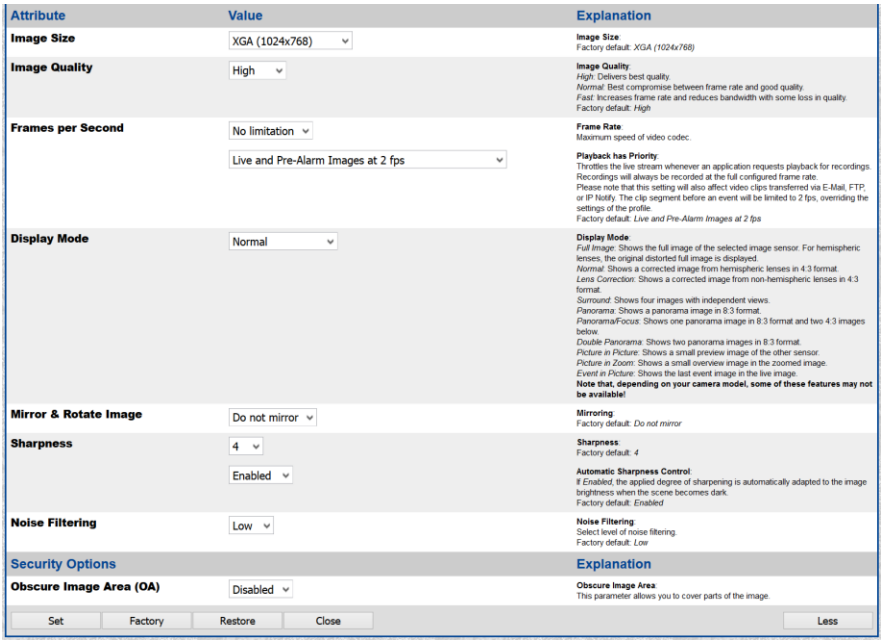



i. Scroll down to the Configuration section and select the “Store” link

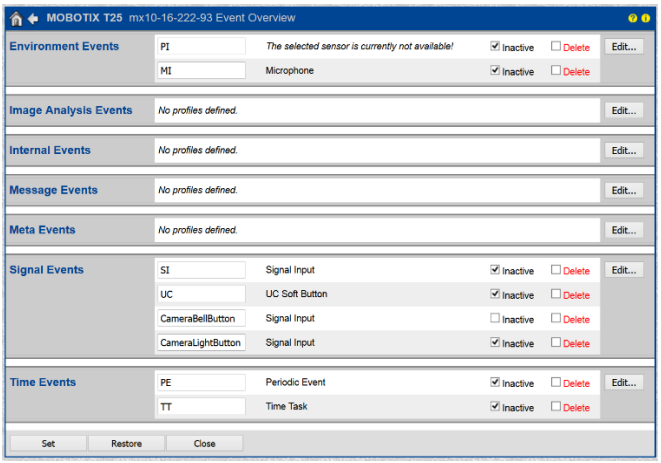
   i. Click the “Store Permanently” button

   ii. Follow the on-screen setups to Reboot the camera to complete Admin Setup.

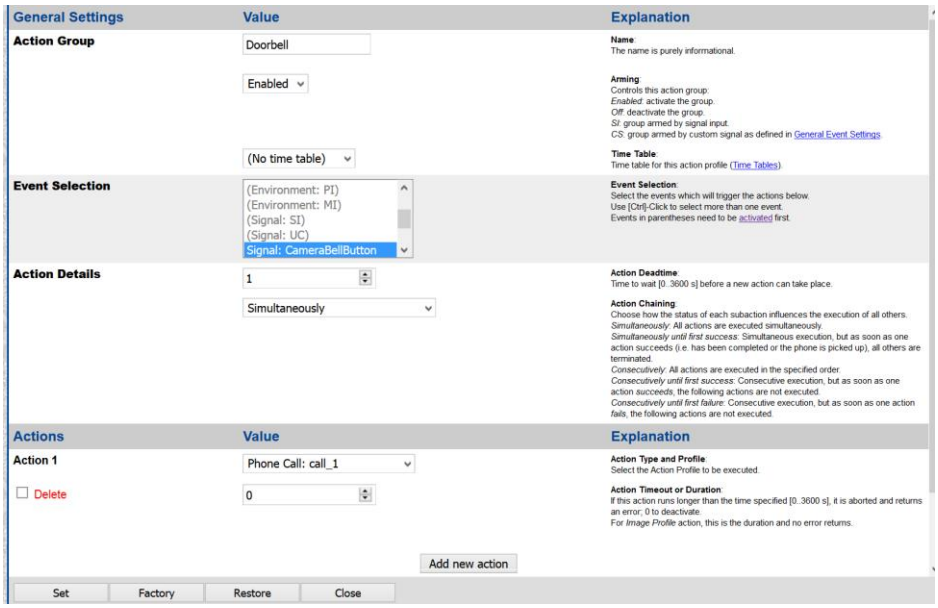
9. Once the door station has come back online, navigate back to its web interface and click the Setup Menu (not the Admin Menu).
    a. Under the Image Control section, select “General Image Settings.”
        i. Set the Image Size to XGA (1024x768).
        ii. Set the Display Mode to Normal.
        iii. Click Set on the lower left.
        iv. Click the Return to Menu button (left arrow) located in the header of the page to go back to the Setup Overview menu page.




    b. Under the Event Control section, select “Event Overview.”
        i. Scroll down to Signal Events then uncheck the Inactive box next to the CameraBellButton Signal Input.
        ii. Click Set on the lower left.
        iii. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Setup Overview menu page.



c. Under the Event Control section, select “Action Group Overview.”
    i. Click the Edit button
    ii. Set the Action Group drop down to “Enabled.”
    iii. Set the Event Selection drop down to (Signal: CameraBellButton)
    iv. Under the Actions section, set the Action 1 value to Phone Call: <Call Profile>
    v. Click Set on the lower left.
    vi. Click the “Return to Menu” button (left arrow) located in the header of the page to go back to the Setup Overview menu page.

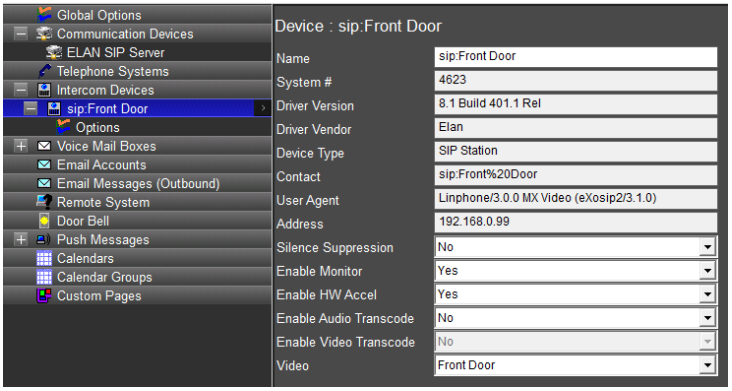



d. Close the Setup Menu and open the Admin Menu. Scroll down to the Configuration section and Select the “Store” link.
    i. Click the “Store Permanently” button.
    ii. Follow the on-screen setups to Reboot the camera to complete Admin Setup.

# ELAN CONFIGURATION DETAILS

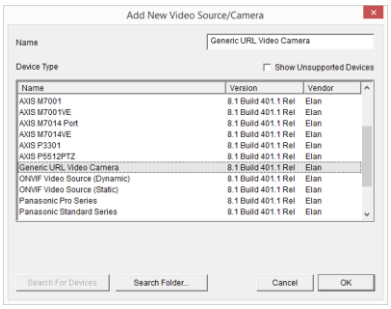
## CONFIGURE THE DOOR STATION

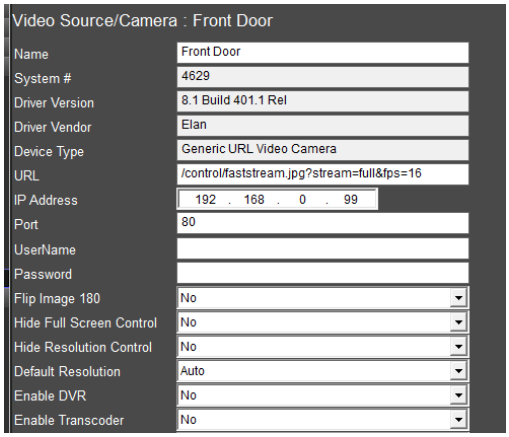
The SIP Door Stations require that the ELAN controller has the ELAN SIP Server enabled. To enable the ELAN SIP Server in configurator, add an ELAN SIP Server communication device on the Messaging tab. Confirm the Option is set as Enrollment Open. (Note: Setting this to Enrollment Closed will not allow any SIP Door Stations to be added to ELAN). The Door Station should connect to the ELAN Controller as soon as it has been configured and is online on the controller network. When it connects, it will automatically populate under the Door Station heading on the Messaging tab in Configurator as shown below:




## CONFIGURE THE VIDEO CAMERA

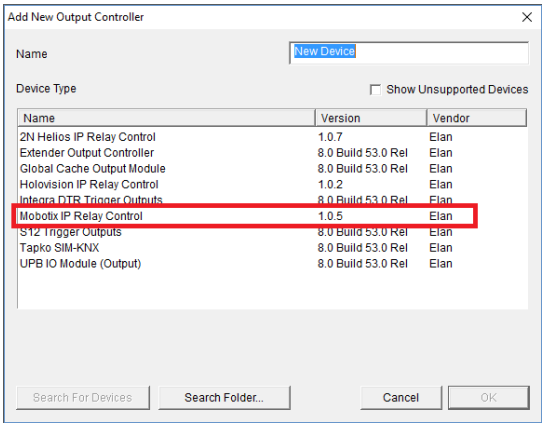
In order to provide video to the Door Station in the viewer, a video camera must be added to ELAN and assigned to the door station using the Video drop-down selection as shown above. On the Configurator Video tab add the Mobotix built in camera using the ELAN Generic URL Video Camera as shown below. Set the IP Address field to match the IP of the Mobotix unit. On the Configurator Messaging tab select the camera as the Video on the door station as shown above.



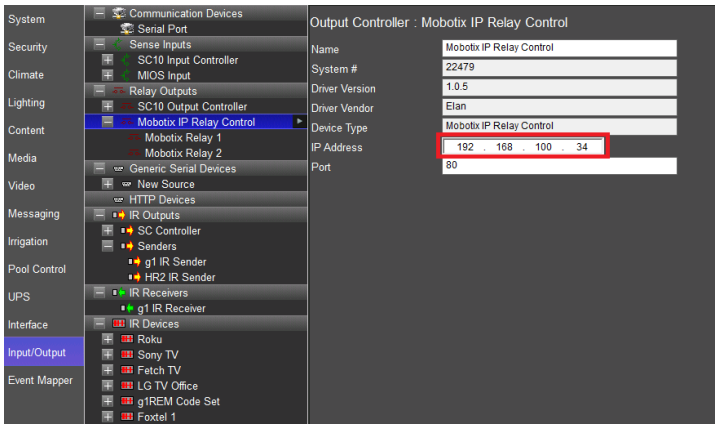



## CONFIGURE THE RELAY OUTPUTS

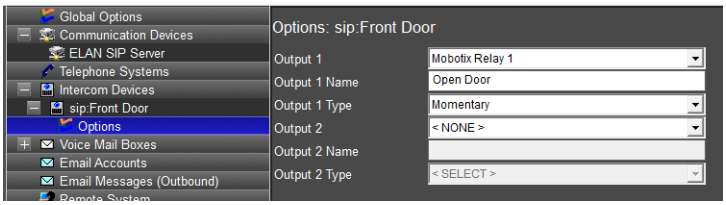
As of the release of ELAN 7.3, the relays on the Mobotix door station may be controlled from a button on the ELAN UI. This allows the end user to press a button in the interface to open the door after verifying to whom they are speaking. Before this feature can be used, the Relay driver must be added on the Input/Output tab. To do this go to the “Relay Outputs” section, right click and select “Add New Output Controller” and select Mobotix IP Relay Control:




Select the Mobotix IP Relay Control node and add the IP address of the Mobotix unit you wish to control.




Once the relays have been configured on the Input/Output tab, they can be added to the Door Station on the Messaging tab. Select the correct Door Station from the Tree and expand the list by clicking on the “+” sign next to the heading. Select the “Options” tree item and you will be able to assign the relays to buttons in the interface. Up to two buttons per door station may be enabled in the Door Station UI (Labeled as “Output 1” and “Output 2” in Configurator), any other relays may be actuated with the Event Mapper. Use the Dropdown labeled “Output” to assign the correct relay. The Interface button will be populated with the Name in the Output 1 Name field. The type of relay (Toggle or Momentary) may be selected from the “Output Type” dropdown as shown below.



## COMMON MISTAKES

1. Door station not populating in configurator.
    a. Verify all Mobotix configuration per above.
    b. Verify the door station is on the same network as the ELAN controller.
    c. Verify the configurator ELAN SIP Server is configured and the option is set to Enrollment Open.
2. Doorbell does not call when button is pressed.
    a. Verify all Mobotix configuration per above.
    b. Verify the Dial Plans are properly configured and the ELAN system is in the correct System Mode for the Dial Plan. Refer to the ELAN Intercom Training Guide for details on setting up Dial Plans.
3. No Video.
    a. Verify the Video drop-down for the Door Station on the Messaging tab has the correct video camera selected.
    b. Verify the Video camera IP address and URL is set correctly. Refer to Configuring the Video Camera above.