SYNERGY® Color Operator Console

Operations Manual

Weapons Control System

PLC Software: Vi45: 1/22/15, or later
Display Software: Vi43: 1/22/15, or later

Isotec Security Inc, 6424 W. 91st Ave, Westminster, CO 80031 303-452-0022 www.isotecinc.com

Operator Console Operation Manual

This document describes the screen images and controls available in Isotec Security's SYNERGY Touchscreen Consoles, as supplied with various Safety Entrance products. This document reflects features supported in the latest revision of the console software. Some features noted may not exist in previous releases.

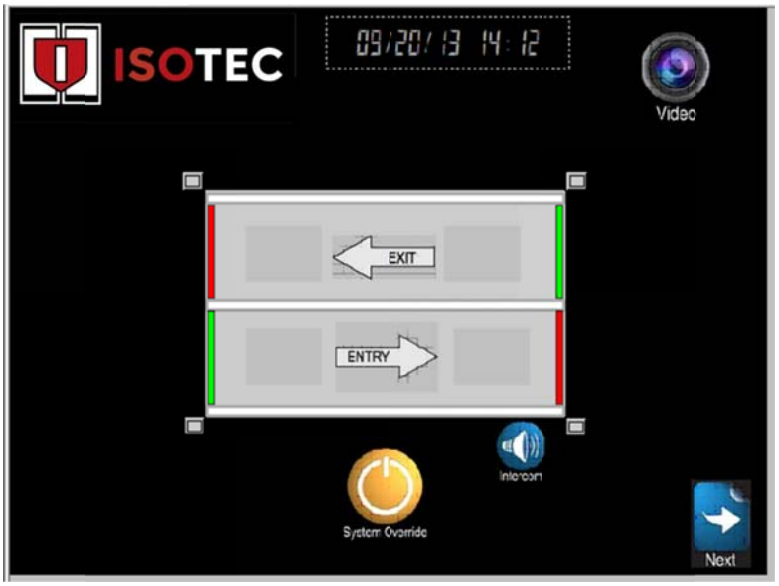
Throughout this manual, the examples are all shown for a dual lane system of an ANSI configuration. For Single Lane systems (one lane operates as both entry and exit lane), the descriptions of the operations are essentially identical. The only major difference is that the Single Lane system is normally in the Entry (Lane) mode, and it switches to the Exit (Lane) mode based on someone walking up to the interior (B) door. The Entry arrow on the screen will switch to an Exit arrow when the system is in Exit mode.

Note also that the main screen will be configured by the factory to most closely represent your physical installation. Hence, the portal orientation and shape may look different than what is shown in this document. The operation is identical.

The use of the touchscreen is quite intuitive and flows in a very predictable fashion. Each screen, and the various controls that show on that screen, are described in the following sections.

MAIN SCREEN

In normal operation, the Main screen will be displayed as follows:



The outline on the screen represents the Safety Entrance structure and doors, with the exterior (unprotected) part of the building shown on the left, and the entry lane shown on the bottom. Indicators are provided that show doors either open or closed and locked or unlocked (via colors), and whether a particular area is occupied. Also shown is a clock, showing the current time. The screen in the image above is shown with Entry and Exit lock switches hidden.

In addition to the controls related to status and operation of the Safety Entrance, the main screen also has controls for the Video system and the Intercom system.

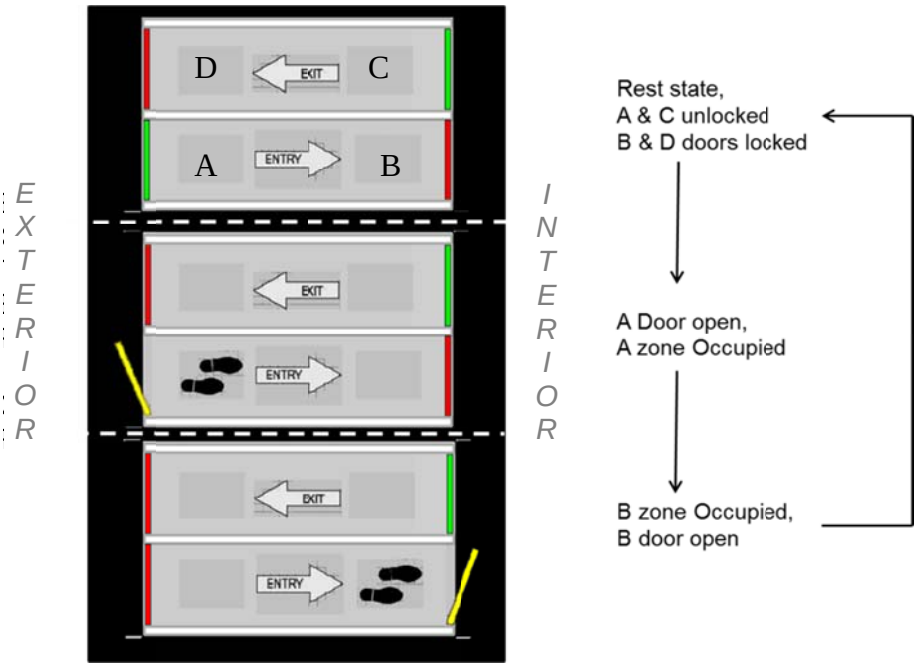
The **Video** button at the top right of the screen will switch the display to the Video viewing screen, which allows viewing the inspection tray camera.

The **Intercom** button shown below the B door symbol allows communication with the intercom station in the B zone. If a call is active, this symbol will turn yellow. If a person at the intercom remote station presses the call button, the symbol will flash yellow for 10 seconds or until the call request is acknowledged by pressing the symbol. An "incoming call" voice message is also played when the symbol is flashing.

Volume for both intercom and voice messages is controlled by the small knob on the lower panel to the right of the speaker.

Normal Entry Sequence:

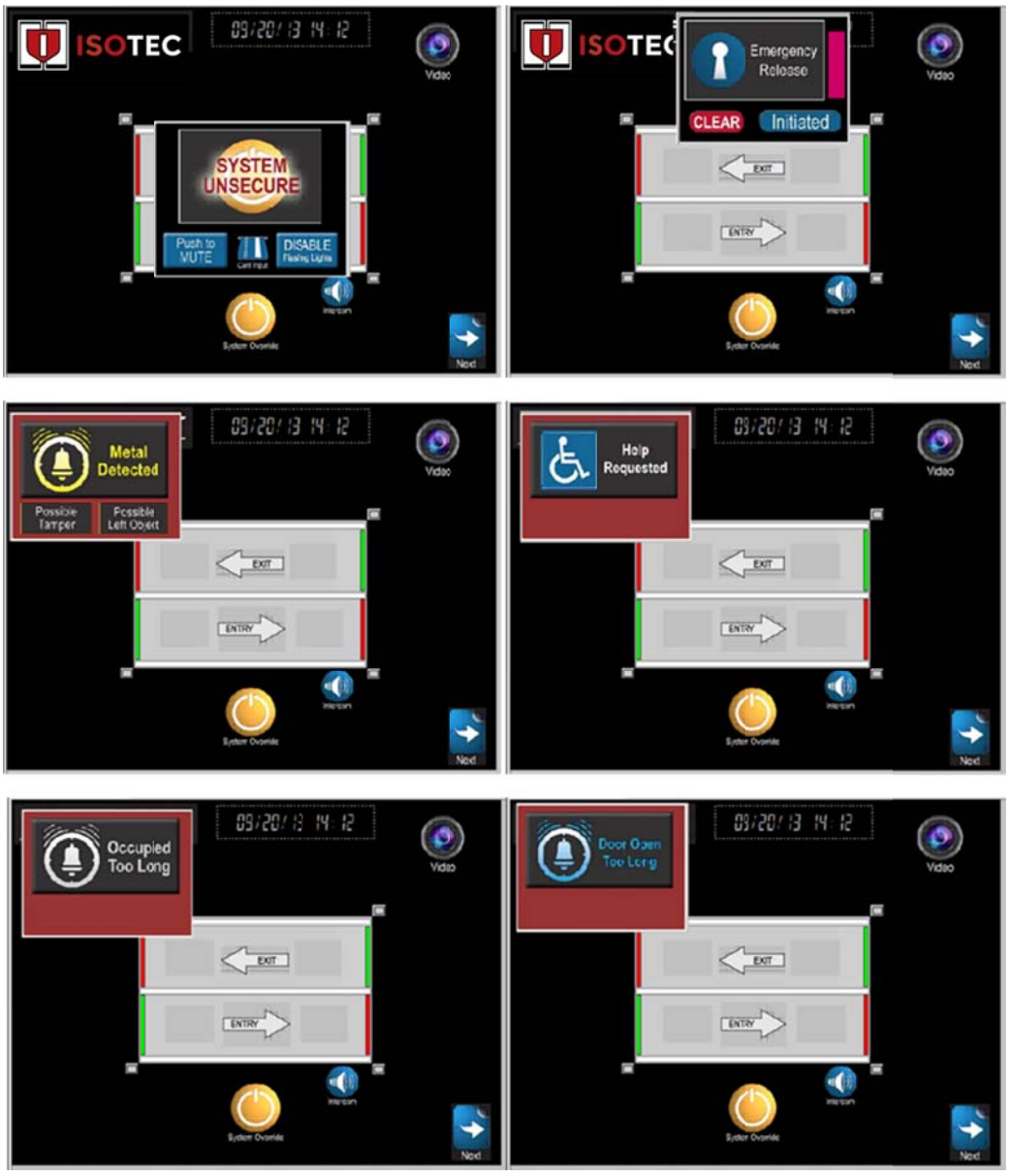
The static (unoccupied) condition is when all four doors (A-D) are closed, and the B and D doors locked (top view in the flow chart below). Note that when a door is locked and bonded, the door symbol will change from green to red. The person entering will open the 'A' door (which shows open and yellow), then will move into the 'A' zone (nearest the outer door). A footprint symbol appears showing the occupancy of the 'A' zone (middle view). As the 'A' door closes and the person moves toward the 'B' zone, he/she is screened by the metal detector in the center of the lane. If no metal is detected, the 'A' door will lock, the 'B' door will unlock (lower view), and the user may open the 'B' door to enter the facility. This sequence normally happens as a smooth, continuous transition, with minimum delays. Note that the 'B' door will not unlock until the 'A' door is closed and locked, the 'A' zone is unoccupied, and there is no metal detector alarm.



An exit sequence (not illustrated) works in the same fashion, and symbols are the same as the entry lane. Operationally, once the 'C' zone is occupied and the 'C' door closes, the 'C' door will lock and will not unlock until the exit lane is completely unoccupied and the 'D' door has re-closed. The 'D' door will unlock once the 'D' zone is occupied and the 'C' door is closed and locked .

ALERT SCREENS

There are six possible alert screens that may appear depending on various conditions that are described below. This chart shows the various screen examples. These indicators will appear as a popup at various locations on the screen. In the case of the bottom four alarms, the most critical one will appear on the screen first.



Metal Detected Alarm:

This popup will occur when someone moves from the 'A' zone to the 'B' zone carrying a metal object. The Alarm popup has a Red background, and is accompanied by a "metal detected" voice message at the operator console, as well as a flashing red light inside the 'B' door.

The operator then instructs the person (via the intercom) to place all metal objects in the inspection tray and walk back to the 'A' zone. If desired, the "metal detected" voice message can be muted with the "Mute" button. After inspecting the contents of the tray using the overhead video camera, the operator will press the **Metal Detected** button, resetting the alarm. The person can then move through the metal detector again to demonstrate that no additional metal is being carried. If no additional metal is detected, the 'B' door will now unlock as above.

Optionally, the system can be configured to automatically reset when the entering person moves back to the 'A' zone. This option provides less security, but eliminates the need to have the operator manually reset the alarm. Please see your Isotec Dealer if you would like to consider this configuration.

A box at the lower left of the popup area in the Metal Alarm mode may show the words "Possible Tamper". In normal operation, this will never be displayed; however if tampering with the electronics cabinet is detected, this symbol will be shown and a voice message will play. If this occurs, contact your dealer for troubleshooting. The alarm cannot be reset if tampering is detected.

If the system is equipped with a Left Object Detection System and an object is detected in the 'B' zone, the Possible Left Object symbol will show on the screen. The object should be removed before resetting the metal alarm.

If the "Auto Attendant" function is enabled, the tones and operator actions will be different. Refer to the section below describing the "Auto Attendant" operation.

System Override:

The System Override Popup Screen is displayed whenever one of the following events occur:

- Operator depresses the **System Override** button on the screen (this button will flash if it is pressed);
- The rear panel **Override Switch** (shown above) is moved to the “up” position (which displays a red light on the rear panel above the switch)
- The **Key Switch** on the Safety Entrance has been turned to the off position (red led);
- The building **Fire Alarm** system opens the contact across the fire alarm input.

During System Override, all doors are unlocked, and the status displays on the Safety Entrance alternate red and green. System Override displays the popup screen shown above on the operator console, accompanied by a “system unsecure” voice message. System Override can only be cancelled by resetting whatever caused it to occur (release the **Emergency Release** button, turn the **Key Switch** back on (green led), or end the **Fire Alarm**).

There is a Mute button located on the popup. Pressing this button will disable the alarm message. Once the Override is cleared, the Mute is automatically reset, and the message will be heard again the next time Override occurs

Similarly, there is a button to disable the alternating red/green lights in the Safety Entrance. This is typically used when the System Override button is used to disable the system during non-business hours, and the user does not want the lights flashing at that time. As with the Mute button, this disabling is canceled when the Override is cleared.

Note that during System Override, the metal detection is disabled.

Timeout Alarms

A Timeout Popup is displayed on the screen if any zone in the Safety Entrance is occupied for more than 45 seconds (default value) or any door is held open for more than 15 seconds (default value). These default values are adjustable by your Isotec Dealer. Either or both of these alarms can be disabled, or can be set to a different time, from the Dealer setup screens. A Timeout alarm can be cleared, by pressing the alarm symbol, without clearing the underlying cause, at which point a new timeout countdown will start if the Safety Entrance is still occupied. A timeout alarm does not disable any normal system operations. It is accompanied by an appropriate voice message alert.

Assistance Request

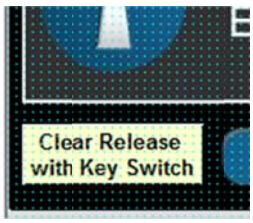
This popup is displayed if someone outside the Safety Entrance presses the **Assistance Request** button. It may be cancelled by pressing the **Help Requested symbol** on the popup, or will clear automatically after a 10 second timeout. The Assistance Request popup is accompanied by a “Help Requested” voice message.

The **Emergency Egress** popup is only shown if the system is equipped with emergency egress button(s) on the exit lane.

In normal operation, if the 'D' door is operating properly, the 'D' door will unlock when someone approaches that door from the inside, and the 'C' door is closed. If there is some failure in the system and the 'D' door does not unlock correctly, or if there is a need to unlock the whole lane in an emergency, a person can press an Emergency Egress button. This will start a 15 second (30 second optional) time out, during which a horn will beep in that lane. After the delay, the 'C' and 'D' doors will be unlocked and the horn will sound continuously.

Once the Emergency Egress button is pressed, a popup screen appears, showing the release has been initiated, accompanied by an "Emergency Egress Initiated" voice message. A bar graph on the right is also displayed showing the time remaining. At the end of the 15 second time, the screen shows "Emergency Release Activated" (while the doors are actually unlocked). At this point, the voice message also changes to "Emergency Egress Activated". The doors will remain unlocked until reset.
There are three methods by which the Emergency Egress event can cancelled. These are configured by the dealer during installation:

- By the system console, using the Clear button shown above
- Relock automatically 8 seconds after D door being opened and then closed. (no clear button shows in this case)
- With an external switch, such as a Keyed Switch located near the Entrance. In this configuration, a message will appear informing the operator to operate the remote switch.



Once the release countdown is initiated, it cannot be cancelled by the Safety Entrance occupant or the console operator until the door unlocks. Please contact your Isotec Dealer for more information on Emergency Egress configuration options.

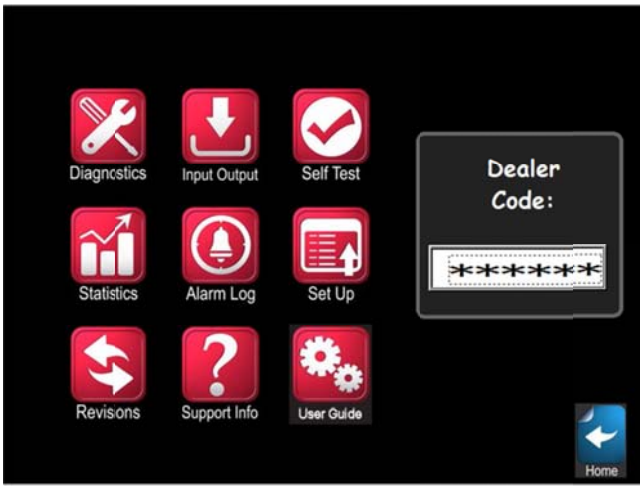
Alternate Timed Emergency Release: The System can also be configured with a timed release function, separate from the function invoked with the emergency egress pushbuttons described above. There are two features to this time release. If this mode is enabled, if either the 'C' or 'D' door is held open for the Release Time (Default = 15 seconds), both doors in the exit lane unlock. Secondly, if someone becomes disabled in the 'C' or 'D' zone, and/or the 'D' door does not unlock for some reason when the exit lane is occupied, after the Release Time, the 'D' door will unlock automatically.

When this occurs, the exit breached symbol will appear on the screen.

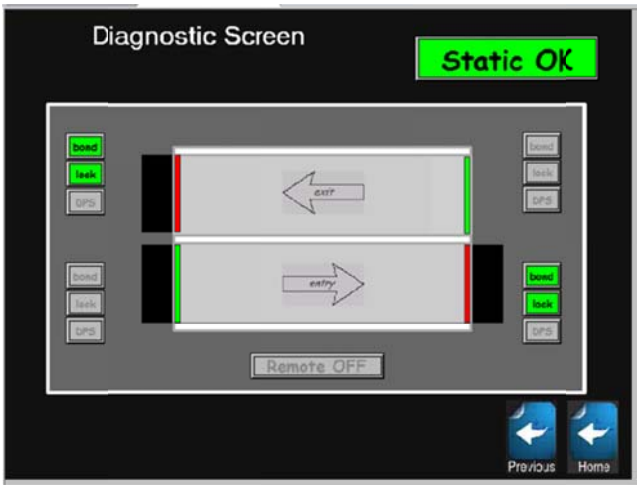
Menu Screen:

The Menu screen is reached by pressing the Next button on the Main Screen. This screen provides access to diagnostic and information screens via the red and white buttons on the left. These screens provide useful information and setup features. Additionally, this screen provides access to the Dealer Configuration Screens which are used by your dealer for initial setup, via a special password. From each of these screens, you can return to the Main Screen by pressing the "Home" symbol at the lower right of the screen.

(Note: On systems with the dual operator console option, the "Slave" console does not have access to the troubleshooting and setup screens. The right arrow on the Slave console only allows setting the clock.)



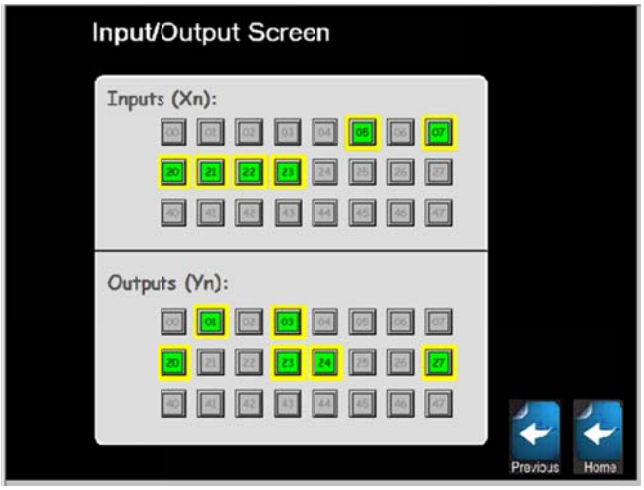
The **Diagnostic Screen** is reached by pressing the '**Diagnostic**' button on the Options screen.



This shows a graphic similar to the Main Screen. In addition, boxes indicate the state of the door position, occupancy, and door bonded sensors. This can be useful in troubleshooting a failed component or installation problem. Also shown is a rectangle on the top right side of the screen. If the system inputs are all in the condition they should be for the static mode, the words **Static OK** shows in the rectangle. All of the following conditions are required for **Static OK** to be displayed:

All doors closed;
B & D doors locked and bonded;
A & C doors unlocked and unbonded;
No occupancy in any zone;
No metal detector alarm.

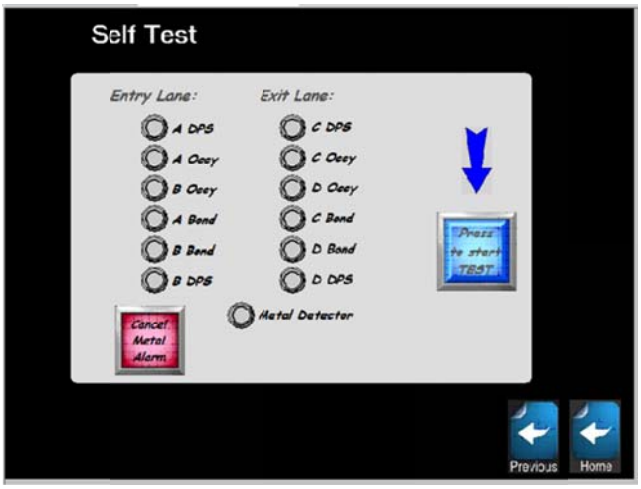
The **Input/Output List** screen is reached by the '**Input/Output**' button on the Menu Screen. This brings up a display of all the inputs and outputs of the PLC, for troubleshooting purposes.



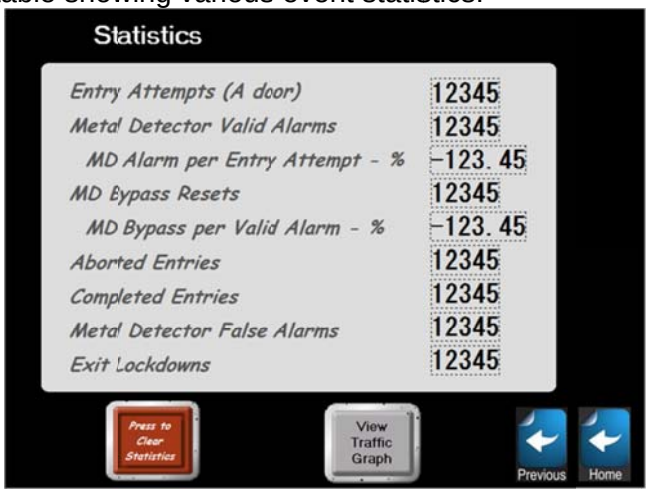
Yellow squares surround the symbols for the signals that should be on when the system is in the “static ok” configuration (unoccupied, all doors closed and locked properly). If any of these signals are off, or other ones are on, something is not operating correctly. (Your actual screen might look different than this example screen.)

The **Self Test Screen** allows the operator to start a self test process by simply pressing one button on the screen and having someone walk through the entry and exit lanes. Pressing the “Press to start Self Test” button clears all the prior values. As the person walks through the Safety Entrance, each device is tested, and if it is operational, the small circle for that device turns dark. After a complete entry and exit, all the circles should show “on”. If any one does not turn “on”, that device has not cycled. They should illuminate in order, so the first one that does not illuminate is the likely failed component. The example below shows the screen at the start of self test.

In order to test the metal detector, a Manufacturer’s Test Piece should be carried during the entry test. The operator can clear the metal alarm from this same screen to complete the entry cycle.



The Statistics Screen allows viewing various statistics associated with the system. Pressing the button brings up a table showing various event statistics:



Entry Attempts is the number of times the 'A' door has been opened (ie, someone entered the Safety Entrance from the exterior door). This is a different value than the Completed Entries Counter, which is the number of times the 'B' door has been opened.

Metal Detector Valid Alarms is the number of times the metal detector has gone off when someone is inside the Safety Entrance.

MD Alarm per Entry Attempt is the percentage of the entries that resulted in a metal detector alarm. This may be helpful in determining the sensitivity settings on the metal detector.

MD Bypass Resets is the number of times that the operator clears a metal detector alarm when the B zone is occupied, letting someone in who may be unscreened.

MD Bypass per Valid Alarm is the percentage of the Metal Detector Alarms that are cleared by an MD Bypass event.

Completed Entries is the total number of persons that passed through the B door. This counter is separate from the Customer Counter on the Setup screen and is reset along with the other statistics.

Aborted Entries is the number of times someone entered the entry lane, and turned around and left via the 'A' door. This event would most likely occur when setting off the metal detector alarm, and the person leaving to remove additional metal objects.

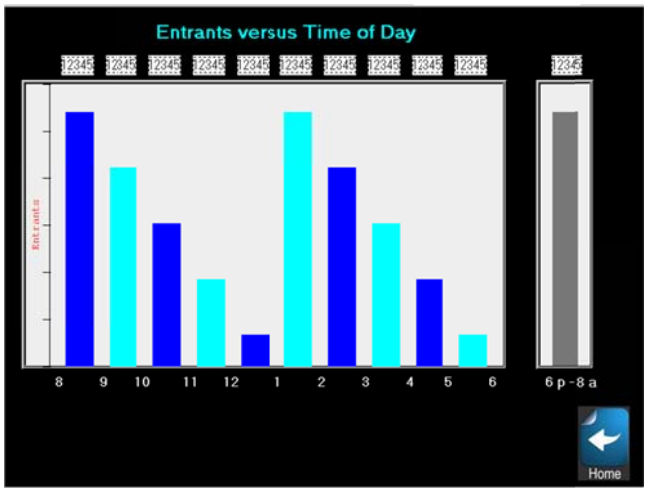
Metal Detector False Alarms is the count of times the metal detector went off when no one is in the Safety Entrance. A high value here is generally an indication of external noise that should be corrected.

Exit Lockdowns is the number of times that the Exit Lock function is invoked by the operator or via the remote switches.

A button is provided on this screen to allow resetting the counters to zero. This button can be enabled or disabled from the Dealer Setup section. Default is enabled.

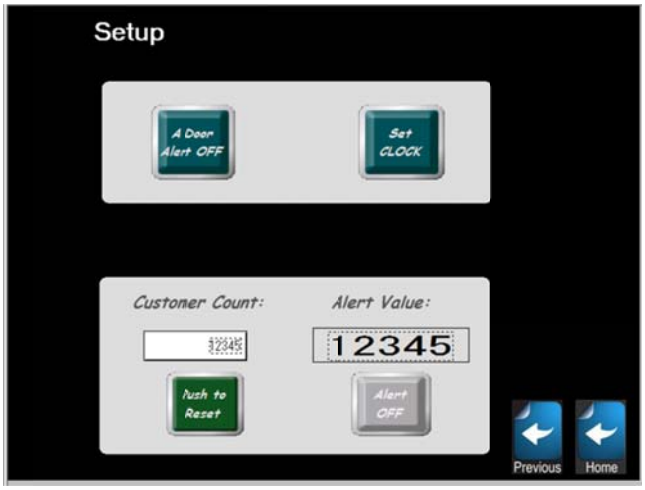
The system can count up to approximately 30,000 events. In order to not display erroneous values, the system will "Auto-Reset" when the entry attempts counter gets to 30,000.

A second button is provided to access the **Traffic Graph**. This graph shows the number of entries versus the time of day.



The data on this screen is reset using the Reset button on the Statistics Screen.

The **Setup Screen** deals with the customer counter and alert, the entry alert tone, and setting the clock:

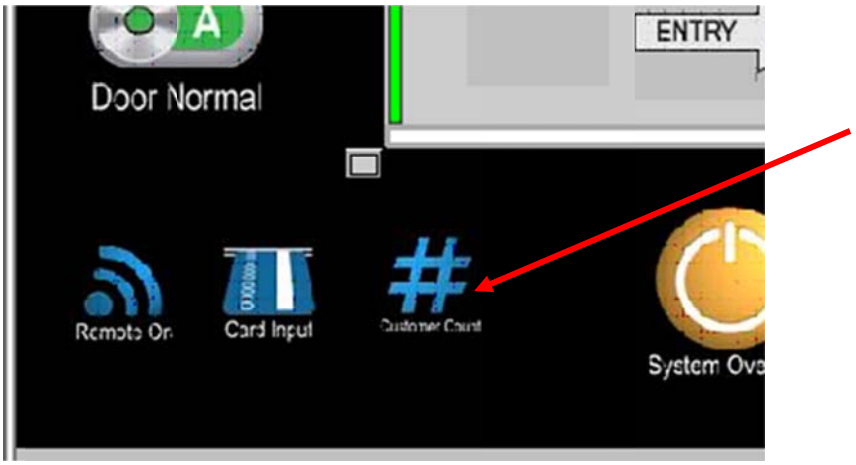


The Console can be configured to play a voice message for the operator when the 'A' door is opened. The button on the top left of this screen (shown as "OFF" in the view above) can be toggled ON and OFF to enable or disable this message. The factory default is OFF.

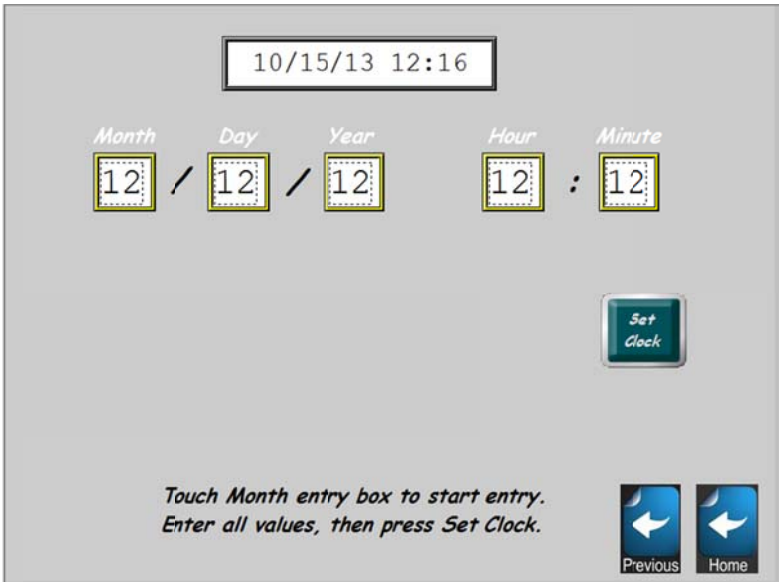
The Customer Counter totals the number of times the 'B' door has been opened. This gives an approximation of the number of people that have passed thru the system. This counter can be reset by pressing the green Reset button located adjacent to the counter indication. This count IS maintained when power is removed from the system.

The system can alert the operator when a specified number of entries has occurred. Toggling the Alert ON/OFF button enables this alert (the default is OFF). The trigger value can be set by

touching the alert value box, and entering the new value on the keyboard that will appear. Hit the ENT key on the keyboard to set the new value into memory. When the counter reaches this value, the “Customer Counter” symbol will flash on the Main Screen

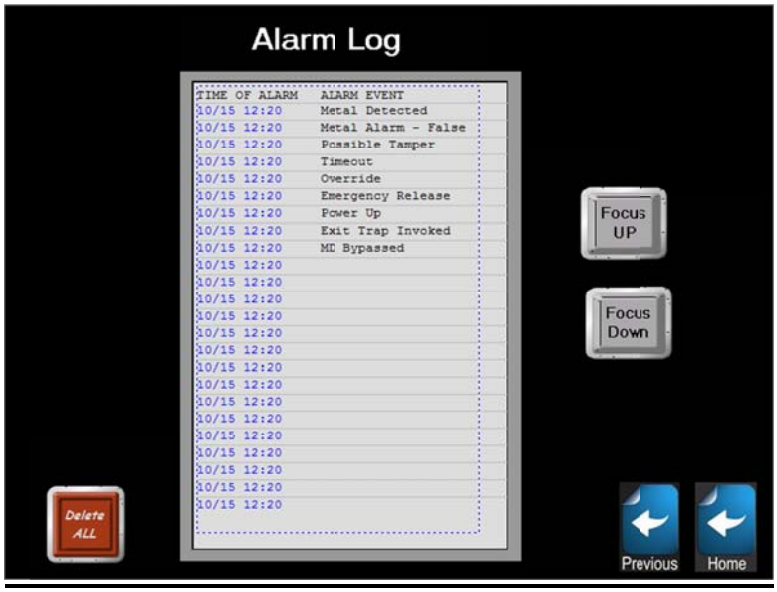


The Time and Date can be set by pressing the “**Set Clock**” button. That brings up the following screen:



Set the time and date by touching each field and entering the correct value. When done, press the **SET CLOCK** button to save the settings. Press the **Previous** button to return to the Setup Screen or the **Home** button to go to the Main Screen.

Alarm Log brings up a screen that provides a historical record of various alarm indications and when they occurred.



The Alarms that might be displayed, and their meanings, are as follows:

Metal Detected – the metal detector has detected a metal object when the Safety Entrance is occupied.

Metal Detect – False Alarm – the metal detector has detected a metal object when the Safety Entrance is not occupied.

Possible Tamper – shows if the system thinks that the electronics cabinet has been opened.

Timeout – either the Safety Entrance was occupied too long or a door has been held open too long. The times for these timeouts can be set by your dealer.

Override – whenever one of the override devices has been tripped. (see System Override above for those conditions.)

Emergency Release – the emergency release button has been pressed.

Power Up – time when power was applied to the system

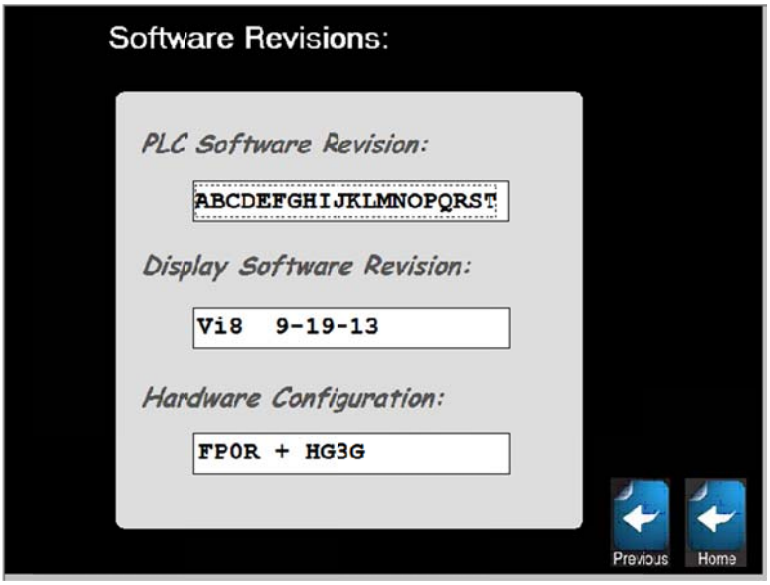
Exit Trap Invoked – the Exit Lock button has been pressed

MD Bypassed – an operator has cleared a metal alarm when someone was in the B zone. The normal procedure is to have the person move back to the A zone before clearing the alarm, so they can be rescreened after putting items in the inspection tray.

The Alarm Log Screen has **Focus UP** and **Focus DOWN** buttons for scrolling up and down the history log. These move the focus about one page at a time. Hold the button to scroll multiple pages. To erase the Alarm History, press and **Delete All** button and the alarm list will clear.

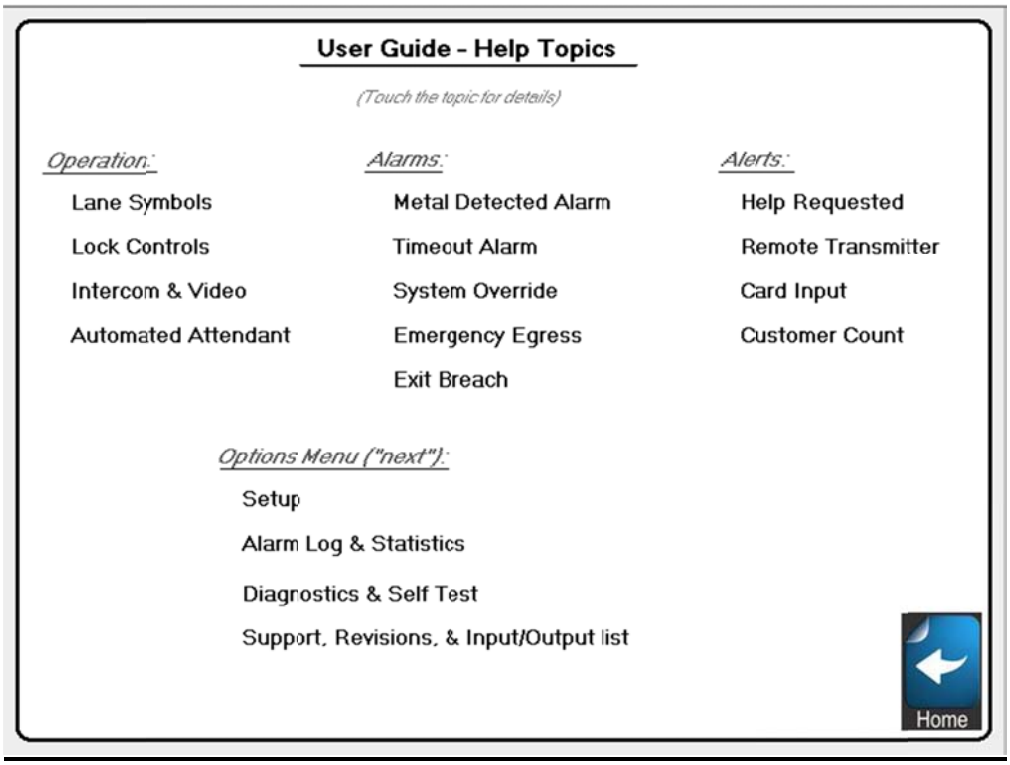
The Alarm Log Screen stores the most recent 1000 events, even if the power to the system is removed.

The **Revisions screen** displays the revision of the software in the Touchscreen and also displays the revision of the software loaded in the system processor.



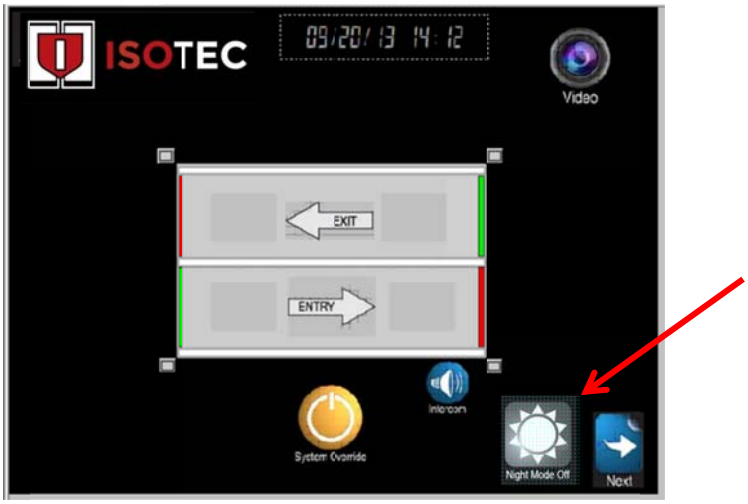
The **Support info Screen** displays contact information for service on your system. Your dealer's name and phone will appear where the characters are in this view:

The **User Guide Screen** provides access to short explanations of the more common topics encountered in operating the system. Contents will vary based on the current software.



Night Mode:

If Night Mode is enabled on your system, a Night Mode selection button will be visible on the main page:



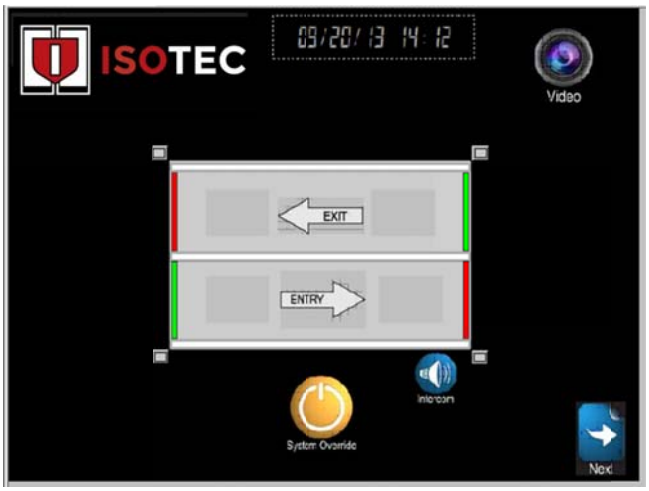
Putting the system in Night Mode On will lock the A door and require a card reader input to unlock the entry lane. Night Mode also disables the metal detector.

Night Mode Off lets the entrance operate normally.

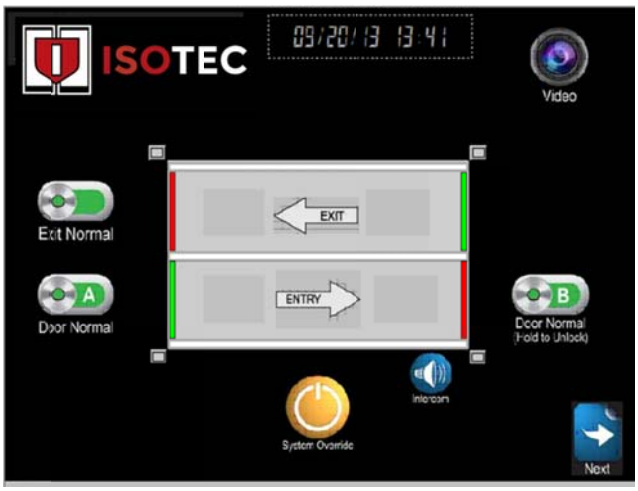
LOCK BUTTONS

Isotec Safety Entrances have the option to be configured so that doors can be locked from the Touchscreen, overriding the normal Safety Entrance logic. This locking may or may not be allowed by local code authorities; your Isotec Dealer can assist you with determining if these features are allowed, & if so, can enable those desired.

The functions available are Lock 'A' door, Lock 'B' door, and Exit Lane Lock If these features are enabled by your dealer, the screen lock buttons will be displayed as shown below:

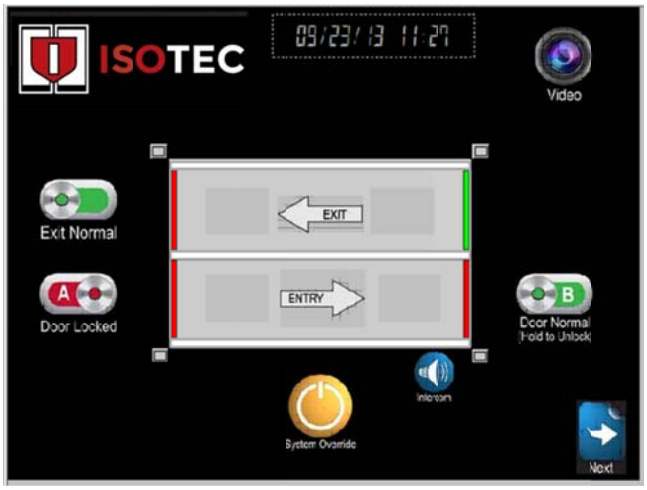


Switches hidden



Switches displayed

The **A Door Normal** and **B Door Normal** buttons each lock their respective door when touched. **Door Normal** indicates that the door locks work per the normal Safety Entrance logic; **Door Locked** is displayed when the button is touched to lock the door. The following shows the 'A' door locked with the lower left button:



Note that the 'A' door button shows **LOCKED**, and also that the 'A' door symbol (the red vertical bar) will be displayed as flashing red.

The **Exit NORMAL** button on the top left may be used to detain someone in the exit lane. If this button is depressed, then the 'C' door will remain unlocked until someone enters the exit lane. Once 'C' door closes with the exit lane occupied, the 'C' door will lock, and the 'D' door will remain locked, rather than unlocking as it would in a normal exit. Thus the occupant of the lane is trapped until the Exit Lock button is toggled back to **Normal**. Once the Exit Lock is turned off, the occupant can leave via the 'D' door.

In addition to locking the Exit lane, the system can be configured to also lock either the 'A' door, the 'B' door, or both, when the Exit Locked button is engaged. Your dealer can configure this option for you.

'B' Door Momentary Unlock

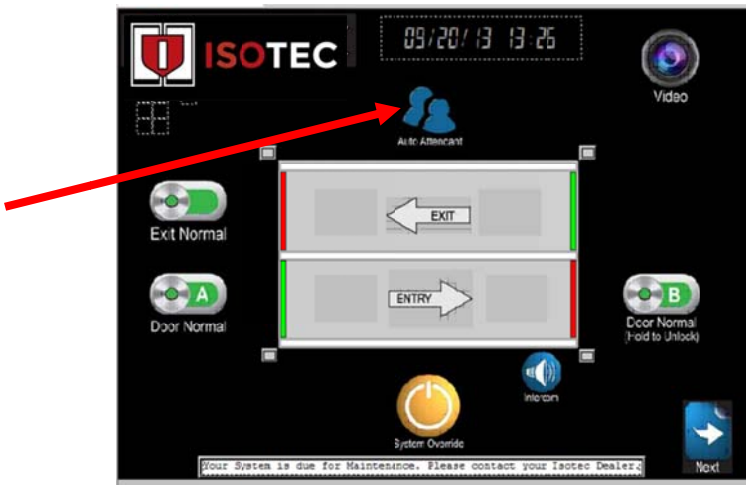
Your system has the option to allow the operator to unlock the 'B' door temporarily to allow someone inside the building to enter the Safety Entrance at that door to assist someone, such as a person in a wheelchair who cannot move far enough through the metal detector to avoid a metal alarm. It is NOT to be used to let someone exit from the Safety Entrance via the 'B' door after setting off the metal alarm – that should be done by clearing the metal alarm. The default for this function is "off", so if it is required in your application, please ask your dealer to enable the function. When enabled, "hold to unlock" will appear below the 'B' Lock button.

The 'B' Door Unlock is performed by pressing and holding the 'B' Door Lock button. After two seconds, the 'B' door will unlock (and the 'A' door will lock if it is closed) and will remain unlocked as long as the button is held.

The 'B' door unlock" can also be operated via the right button on a wireless remote (see below). This button must be held for 6 seconds before the door will unlock, and will stay unlocked as long as the button is held.

AUTOMATED ATTENDANT

The system can be configured for 'Automated Attendant' operation by your dealer. Certain portions of the Automated Attendant function are optional. When the 'Automated Attendant' is in operation, a symbol will appear on the console screen:



The ‘Automated Attendant’ feature allows reduced operator workload. It should only be used in conjunction with the voice prompt option alerting the occupant as to what action to take in the case of a metal alarm, and it is recommended that the ‘B’ Zone Left Object Detection option also be installed, and no inspection tray be installed.

The operation is as follows: If an individual enters the entry lane and triggers the metal detector, they will hear a voice prompt that instructs them to turn around, exit the Safety Entrance, remove all metal objects, and reenter the Safety Entrance. Once the individual exits the Safety Entrance, both doors are closed, and no occupancy is detected, and no objects are detected in the high zone, the metal alarm is automatically cleared, allowing the next person to enter. The console operator will see the metal detector alarm popup, but will not hear any voice message during this sequence.

If the person remains in the ‘B’ zone after the voice prompt for 10 seconds, the “Metal Detected” voice message will play at the console, alerting the operator that action is required. At this point, the operator would need to contact the occupant via intercom to provide further instructions or resolve the situation.

If an “Left Object” (i.e., a weapon) is detected in the ‘B’ zone after a person exits the Safety Entrance via the ‘A’ door, after a few seconds, the “Metal Detected” voice message will play on the console, alerting the operator that something has been left behind and action is required. The Metal Alarm will not be reset automatically if a left object has been detected. When a left object is detected during a metal alarm, a warning text box is displayed adjacent to the Metal Detector Alarm symbol. Note that the Left object detector will not only detect objects on the floor, but will also trigger if someone is still standing in the ‘B’ zone.

After the Safety Entrance is empty and a Left Object alarm occurs, the operator should manually lock the ‘A’ door via the ‘A’ Door button, evaluate what is left in the Safety Entrance via the video monitor or direct inspection, and remove the offending object before clearing the metal alarm.

As part of the ‘Automated Attendant feature set, a second voice prompt in the lane is available. If someone enters the Safety Entrance and remains in the A zone, or two people enter and one remains in the ‘A’ zone, after 5 seconds, a voice prompt is played telling the person to move forward through the metal detector. This eliminates the requirement for an operator to direct people in this situation.

CREDENTIAL RESET:

As a further method to reduce operator workload, the Safety Entrance also has the capability to be outfitted with a Credential system (card reader/pin device and/or biometric reader) that can be configured to allow a person entering the Safety Entrance who set off the metal detector to clear the metal alarm by presenting their credentials. These credentials would of course only be given to "trusted" individuals who the facility wishes to enter the facility with metal objects. The operation requires no action on the part of the system operator; the entrant simply presents the credential after passing through the metal detector (if an alarm is triggered). The Alarm resets and the person can continue through the Safety Entrance. This system is often utilized in conjunction with the Automated Attendant feature to reduce operator interaction to almost zero.

REMOTE TRANSMITTERS:

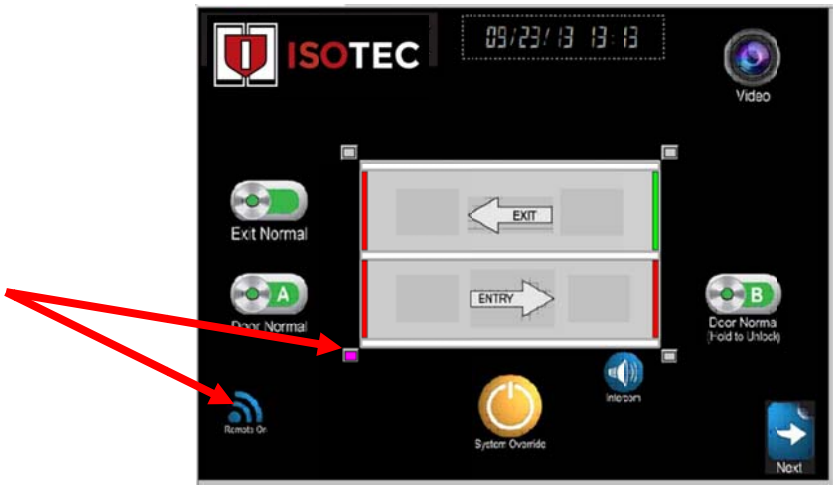
Isotec offers the options of either single or two button remote control transmitters, which allow certain functions to be implemented without having to go to the operator console. This might be useful for other officers in the bank to operate the system in parallel with the console operator.

The Single Button Remote, or the top left button on a Multi-Button Remote, is used to clear the metal detector alarm. Depressing that button and holding it for 1 second (to prevent inadvertent presses) ends the alarm immediately. At that point, the Safety Entrance will work normally (for example, the B door will unlock if all the normal logic conditions are met)

On the two button remote option, the right button function is programmable by your Isotec Dealer. The functions available are:

- 'A' door Lock
- 'B' door Lock
- Entry Lock (both 'A' and 'B' doors locked)
- Exit Lock (same operation as the Exit lock on the Touchscreen)
- Release All (same function as depressing the Override button on the console – releases all doors.)

In the case of the first four functions, the operation of the button is "alternate action" – in other words, the first press turns on the function (hold for 1 second – a flashing red light indicates the remote has triggered and you can release the button), and the second press turns off the function. Note that if one transmitter is used to turn on the function, either that transmitter or another transmitter can be used to turn off the function. There is an indicator on the Operator Console that shows when the function is toggled "ON" as shown by the words "Remote On" on the screen example below. Note also the purple rectangle next to the 'A' door lock symbol, indicating that is what the remote is controlling:



In the case of the **Release All** function, the remote button acts as a momentary push button (it does not latch as the other functions do). In order to preclude inadvertent operation of the **Release All** function, this button must be held depressed for 1.5 seconds before the doors release. This button must then be held down to keep the doors released. Holding this button will only hold the doors open for about 10 seconds and is only intended for a temporary door release. If the system needs to be overridden for a longer time period, use the **OVERRIDE** button on the Operator Console.

Similar to the 'B' door touchscreen button, if the "Unlock B" remote function is selected, and the 'B unlocks after hold 6 seconds' setting is enabled, the right button on the remote can be used to unlock the 'B' door as well. When using the remote to unlock the 'B' door, the button must be depressed for 6 seconds, to avoid inadvertent unlocking. The door will remain unlocked as long as the button continues to be held. Note that the red indicator light on the remote will stop flashing after about 3 seconds of pressing. The default for the "unlock after hold-remote" is "Disabled".

Third Remote Button: Isotec systems, starting with software rev Hr2, can have a third remote button. This button is hard wired as a ''B' Door Lock' function. This allows the 2nd button to be used for another function besides 'B' Door Lock. This button is Alternate Action as well – press to lock, press to unlock (as with the other buttons, you must hold it on for 1 second). Remote On will also show when this button is active, as will the small diamond by the 'B' door.

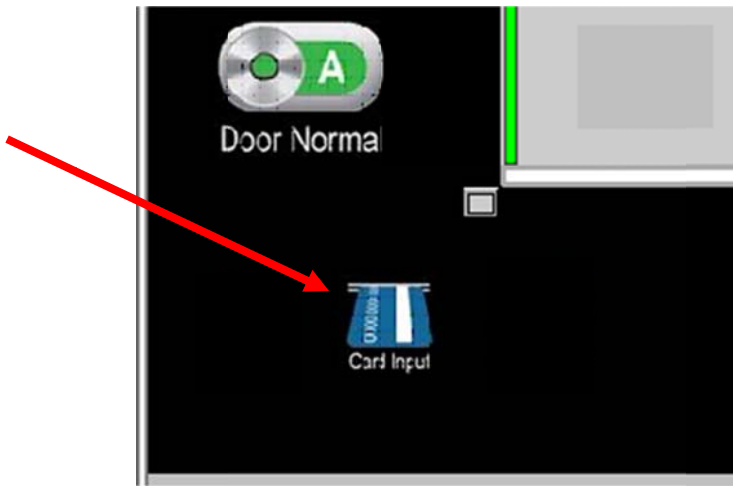
EXTERNAL CARD INPUTS:

The system has the capability to be wired to one or more external contacts that can be used to unlock various doors or lanes. This would be wired by your dealer as part of the installation. These inputs could be used for external card readers or as a remote "override" capability. The inputs available are:

'A' door Card in
'B' door Card in
Exit Lane Unlock in

Each of these inputs uses a dry contact closure input to activate the function. Closing the contact for the ‘’A’ door Card in’ unlocks the ‘A’ door, depending on the configuration settings. Similarly for the other two inputs. To unlock multiple doors, the external contact(s) can be wired to multiple inputs in parallel. For example, wiring the ‘A’ and ‘B’ card input’s together unlocks the whole entry lane.

When one of these inputs is active, a symbol shows on the main screen indicating that one of the inputs is on:



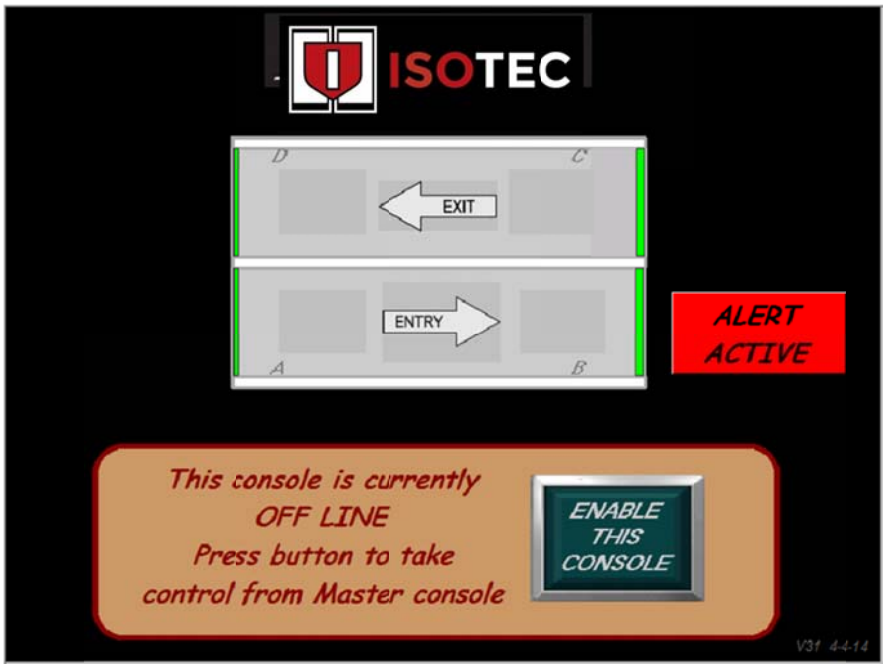
If both the ‘’A’ door unlock’ and the ‘’B’ door unlock’ switches are closed, the metal detector alarm is turned off until either or both of the switches reopen.

ANTI-TAILGATING SYSTEM

If your system is equipped with Anti-Tailgating (ATG) detectors, the operation is slightly different. In the entry lane, when the occupant approaches the B door, the ATG system will determine if more than one person is detected. If multiple occupants are detected, the B door will not open. When the ATG detectors are triggered, a small yellow box will appear near the B Occupancy symbol.

Also, if the ATG system is triggered *after* the B door unlocks, an ATG Alarm will pop up in the same area as the metal detector alarms, and will need to be cleared by pressing the alarm box.

Multiple Console (Master-Slave) Option:



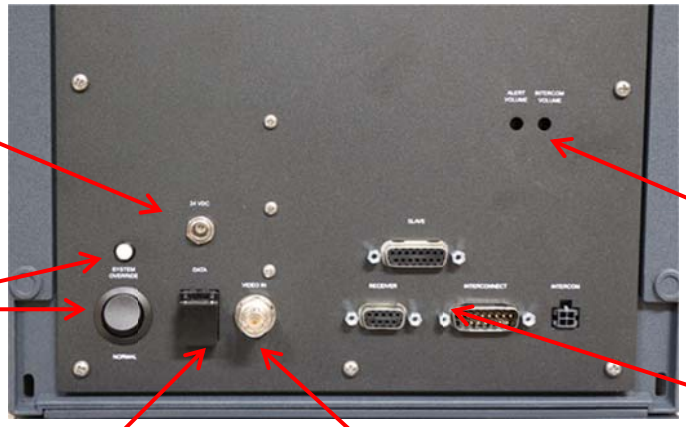
Synergy is available with a dual console option, which provides a second Synergy console that operates as alternate or 'slave' operator station. The operation is "one at a time" – only one console can be in control of the system at a time. Switching from one console to the other is done by touching the "Enable This Console" button on the current 'Off Line' console, which takes the other console 'Off Line' and brings control to the enabled console. The Off Line Screen for the Slave console is shown above; the Offline Screen is similar on the Master station.

The Master console has the 'Next' button on the lower right corner of the Main operator screen to provide access to the various setup and data options. The Slave console only allows use of the main control screen, and has no "Next" button and no clock display. All setup and data information is accessed using the Master station.

The 'Off Line' console will provide audio alerts when alarm events occur, even if the station is 'Off Line'. If these alerts are not desired, the volume on that station can be turned down with the volume control. When an alarm occurs, a flashing 'Alert Active' icon will show on the 'Off Line' station. Similarly, if the portal is in a 'System Override' condition, a 'System Override' icon will display. Only the 'On Line' station can deal with these alerts, control the portal, and utilize the intercom and video functions.

Physical User Interface:

The operator console has a few physical controls that may be needed, as follows:



Alert and Intercom Balance

The Alert and Intercom Balance controls allow the adjustment of the relative volume between the Alerts that sound when an alarm occurs, and the incoming intercom station sound level. The default is to have the two potentiometers set at roughly 2/3rds clockwise. Using a small flat blade screwdriver, turn down one or the other if you desire that sound to be relatively less than the other. The Main Volume on the front panel adjusts both together.