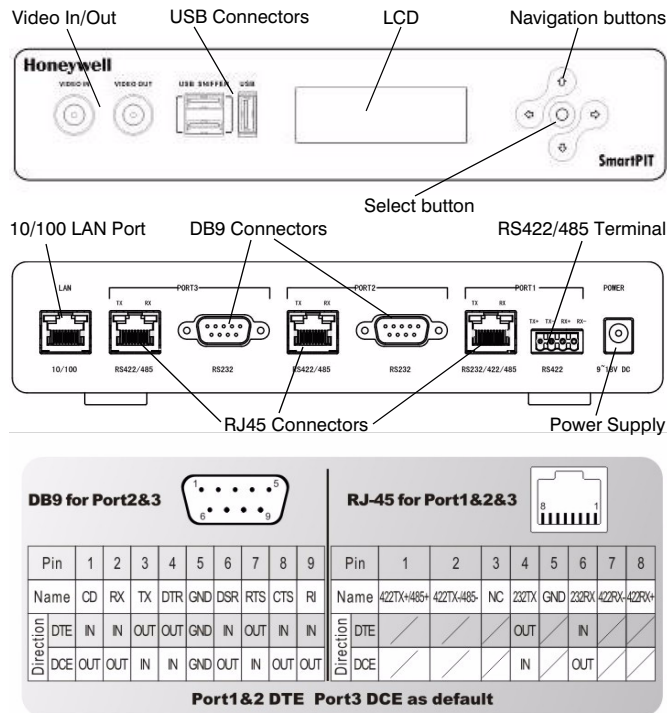


SmartPIT™ Quick Install Guide

1 Installing SmartPIT

Port connections



- In the **User** field enter 'smartpit' and in the **Password** field enter 'password' and click **Logon**.

Using a PC to connect to SmartPIT via a Crossover Cable

- Connect network crossover cable to Lan Port on SmartPIT.
- Via the Windows Network Connection options, set your PC to a static IP address of 192.168.10.152.

Default network settings for SmartPIT:

- IP address 192.168.10.153
- Subnet Mask 255.255.255.0
- Gateway 192.168.10.1

- In Internet Explorer (6.0) enter the following URL:
<http://192.168.10.153/hfs/home.asp>
- In the **User** field enter 'smartpit' and in the **Password** field enter 'password' and click **Logon**.

Procedures

Go to **2** for IP ATM configuration

Go to **3** for POS configuration

Go to **4** for ACUIX PTZ configuration

NOTES:

Common Configuration

Setting the date and time via the LCD Menu

- Go to **Main Menu** ➤ **Admin Menu** ➤ **Date/Time** ➤ **Set Date** and set the date, formatted *dd/mm/yyyy*.
- Go to **Set Time** and set the time, formatted *hh:mm*.
- Go to **Set Option** to select if the date/time is displayed.
- Go to **Set Location** to set where the date/time is displayed on **Video Out** and select **Exit** when finished.

Note: Date/time settings can also be done via your PC

Using a PC to connect to SmartPIT via a LAN

- Connect network cable to Lan Port on SmartPIT
- Go to **Main Menu** ➤ **Ethernet Config** option on the LCD menu to set the IP address, Subnet Mask and Gateway.
- In Internet Explorer (6.0) enter IP address in the Address bar.
e.g. <http://164.178.45.221/hfs/home.asp>.

Note: SmartPIT is compatible with Windows 2000, Windows 2000 Server, Windows XP Pro (Service Pack 2) and Windows Vista Home Premium. Minimum PC requirements are Intel Pentium(R) 4, 1.6 GHZ processor and 256 MB RAM.

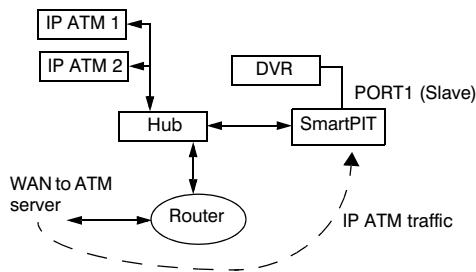
2 IP ATM configuration

SmartPIT monitors network traffic and extracts transaction data that match the IP address of designated ATMs. The data is decoded and sent to serial interface devices.

Connecting SmartPIT to the ATM system

1. Choose either Hub or Port Mirroring.
2. On SmartPIT connect the DVR to Port1 and network connection to LAN 10/100.
3. Connect PORT1 to a Honeywell DVR. Use the included DVR connector (RJ45 – D9), with a standard CAT5 straight through cable from PORT1 RJ45 to DVR connector.

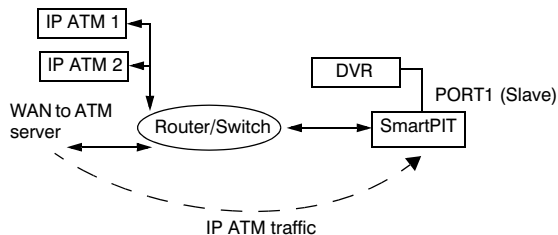
IP ATM via a Hub



Note: Must be hub (not switch).

Note: LAN speed (10/100mbps) must be the same between the router, SmartPIT and ATMs for ATM traffic to mirror to SmartPIT.

IP ATM via Port Mirroring



Note: Router or switch must be configured to mirror ATM traffic from WAN to SmartPIT.

Configuring the ATM application via the LCD menu

1. Go to **Main Menu** ► **Admin Menu** ► **Application** ► select **ATM**.
2. Go to **Main Menu** ► **Application** ► **ATM** ► **Slave Port** ► select **PORT1**.
3. To set PORT settings to DVR, Go to **Main Menu** ► **Serial Config** ► **PORT1**
For RE/IDM/FUSION/HRXD set as follows: **9600bps, No Parity, 1 Stop Bit, 8 Data Bits, RS232**.
4. Go to **Main Menu** ► **Application** ► **ATM** ► **Output Format** and select **Rapid Eye(IDM)** or **Others** for **HRXD, Fusion**.
5. Go to **Main Menu** ► **Application** ► **ATM** ► **ATM IP Config** ► **1 (ATM M/C 1)**.

6. **Set IP for ATM1**.
7. **Set Port No** for ATM1 at default value of 00000(Ignore).
8. Set **Protocol** to **Diebold 911/912** and select **Exit** to return to the **ATM M/C Menu**.
9. Repeat **step 5** to **step 8** for each additional ATM.
10. Select **Exit** to return to the Main Menu, saving the ATM application setup and the LCD confirmation message is displayed: *ATM Verifier*.

Configuring the ATM application using a PC

1. Use your PC to logon to SmartPIT, see *Installing SmartPIT* for details.
1. Go to **Configuration** ► **Common Configuration** ► **Edit**.
2. Go to **Application**, select **ATM**.
3. Go to **Operating Mode**, select **Realtime**.
4. Got to **PORT1 settings** and select the following: **9600bps, No Parity, 1 Stop Bit, 8 Data Bits, RS232** and click **Save**.
5. Go to **ATM Configuration** ► **Edit** ► **Application Settings** and set **Slave Port** to **PORT1**.
6. Set **Output Format** to **Connected to Rapid Eye** or **Connected to Others** for HRXD and Fusion.
7. Go to **ATM Machine 1 Settings** and configure the **IP Address** and set **Protocol** to **Diebold 911/912**. Leave **TCP Port** at 00000 (Ignore).
8. Repeat **step 7** for each required ATM, then click **Save**.

NOTES:

3 POS configuration

Connecting SmartPIT to a POS application

Connect the POS to SmartPIT as follows:

- POS data IN connects to **PORT 3** (RS232/422/485)
Use included adapters as required
- POS data OUT connects to **PORT 2** (Optional)
- Filtered data OUT to DVRs connects to **PORT1** (RJ45)
Use included DVR connector and RJ45 cable

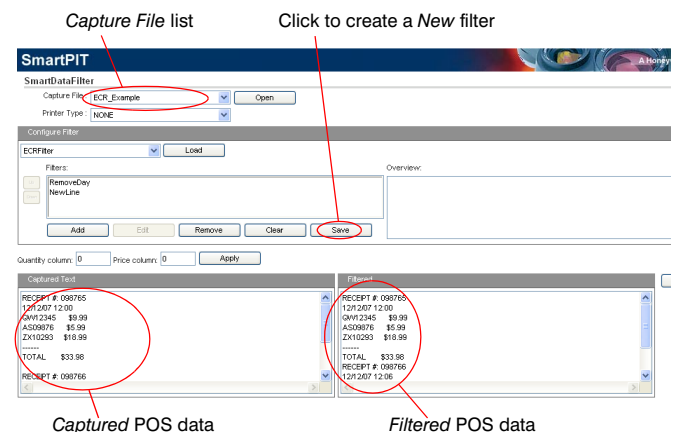
Configuring SmartPIT for a POS application

1. Use your PC to logon to SmartPIT, see *Installing SmartPIT* for details.
 2. Go to **Configuration ► Common Configurations ► Edit** (at bottom of screen).
 3. Configure the Ports as follows:
 - a. Set **Application** to **SmartDataFilter**, and **Operating Mode** to **Realtime**.
 - b. Set **Port 3** settings to match POS data input.
 - c. Set **Port 2** settings to match POS data input (optionally, used if data is being passed through the SmartPIT for sniffing between a POS and its printer)
 - d. Set **Port 1** settings (Filtered Data out) to match DVR. Typically 9600 - 8 - N - 1
 4. Click **Save** to commit the changes.
 5. Go to **SmartDataFilter Configurations ► Edit** and set Filter File to `_backup_` (or select from list). Set **Interface Device** to Rapid Eye, IDM or Others for HRXD, HRDV, HRDVS or Fusion. Set **Video Port** to **None**. Click **Save** to commit the changes.
 6. Verify correct cable and communications settings and that POS data is being received in one of the following ways:
 - Using SmartPIT Capture Files with Web browser:
Go to **Configuration ► Common Configurations ► Edit**.
Set **Operating Mode** to **Capture** and click **Save** (No data out PORT1 to DVR).
Send transactions from POS
Go to the **Edit SmartDataFilter** tab. Select **CaptureFile** and click **Open**.
View **Captured Text** window and verify data has been stored.
If there is no data modify/verify cable and communication settings and repeat above steps.
- Note:** Data is captured successively in 20KB Capture Files from 0 to 5. Once full, the existing files are overwritten beginning at 0.
- View live data passed through Port 2 to a PC:
Go to **Configuration ► Common Configurations ► Edit**.
Set **Operating Mode** to **Real Time** or **Capture**.
Send transactions from POS.
Connect a PC with Hyper terminal to Port 2.
Observe the POS data.
If there is no data modify/verify cable and communication settings and repeat above steps.

7. If your SmartPIT system already contains the required SmartDataFilter proceed to *step 10*
– or –
to import an existing SmartDataFilter proceed to *step 8*
– or –
to create a new SmartDataFilter proceed to *step 9*.
8. Go to **System Administration ► Filters** to browse to the .flt SmartDataFilter file and send it into your SmartPIT system. Proceed to *step 10*.
9. Creating a new SmartDataFilter:

Note: Typically used to format output data to appear the same as a physical POS receipt

 - a. Go to **Configuration ► Common Configuration ► Edit**.
 - b. Go to **Application**, select **SmartDataFilter**.
 - c. Go to **Operating Mode**, select **Capture** and click **Save**.
 - d. Go to the **Edit SmartDataFilter** tab and select a **Capture File** and click **Open**.
 - e. In the **SmartDataFilter** section click **Save** to enter the name for a new filter and click **OK**.



- f. Below the **Filters** list click **Add** to display the **Sub Filters** dialog box and create a new sub filter:
 - i. Enter a name in the **Filter Name** field.
 - ii. From the **Conditions** list select one of the following:
 - with **specific characters** and proceed to *step iii*
 - with **specific type of character** proceed to *step iv*
 - with a **specific data type** and proceed to *step v*.
 - iii. Enter the string to be identified from the capture text and click **Add**. Proceed to *step vi*.

Note: To copy and paste specific characters you must first copy the required content from the **Captured Text** window by highlighting the text / characters with the mouse, then right-click and select **Copy** from the **Shortcut** menu. To paste the content, click **Add** to display the Sub Filters dialog box and in the **String** field right-click the mouse button and select **Paste**.
 - iv. Select one of the following character types and proceed to *step vi*: **Number**, **Alphabet**, **Alphanumeric**, **Empty space**, **Printable** or **Non-printable**.

- v. Select one of the following options for presenting numbers contained in a capture file: **Numbers without point**, **Numbers with/without point** or **Numbers with point**.
- vi. From the **Actions** list select the required action that corresponds to the condition type and click **Add**.
- vii. Scroll down and click **Save** to add the sub filter to the SmartDataFilter.

Filter Name: RemoveDay

Conditions: With specific characters

String:

Add

With a specific type of character

With a specific type of character

With specific characters

With a specific type of character

With a specific type of character

Remove

Actions: Remove the characters

Add

Remove 'n' previous characters

Remove

Summary

and next Character Type is Numbers
and next string = '/'
and next Character Type is Numbers
and next Character Type is Numbers
and next Character Type is Empty Space
then
remove previous 3 character(s)

The **Summary** field displays the complete sub filter with the added conditions and actions.

http://164.178.45.221/dfs/AddFilter.asp?selected=0&dir Internet

- g. View the effect of the sub filter by clicking **Refresh**.
 - h. Create/edit sub filters if required and when complete click **Save** in the **SmartDataFilter** section to save the new filter.
10. Go to **Configuration ► Common Configuration ► Edit**.
 11. Go to **Application**, select **SmartDataFilter**.
 12. Go to **Operating Mode**, select **Realtime** and click **Save**.
 13. Go to **SmartDataFilter Configuration ► Edit**, select the required **Filter File**, **Interface Device** and set **Video Port** to **None**.
 14. Click **Save** to finish configuring your POS application.

NOTES:

4 ACUIX™ PTZ configuration

Connecting SmartPIT to an ACUIX PTZ system

Connect the ACUIX PTZ system to SmartPIT as follows:

- PTZ camera output connects to **PORT 1**
- Input from MAXPRO-Net and VideoBloX connects to **PORT 3**

Configuring the PTZ application via the LCD menu

1. Go to **Main Menu** ➤ **Application** ➤ **SmartPTZ**.
2. Go to **Unit Address** and enter the required address value, up to a maximum of **799** for MAXPRO and **1024** for VideoBloX.
3. Go to **Input Port** and select **Port 3**, which is to be connected to MAXPRO-Net or VideoBloX.
4. Go to **Input Protocol** and select either **MAXPRO** or **BOSSWARE**.
5. Go to **Output Port** and select **Port 1**, which is to be connected to the PTZ camera.
6. Go to **Output Protocol** ➤ **Intellibus** and then go to **Exit** to return to the **Main Menu**.
7. Go to **Main Menu** ➤ **Serial Config** ➤ **COM1**.
8. Go to **Baud Rate** ➤ **38.4 Kbps**.
9. Go to **Parity** ➤ **No Parity**.
10. Go to **Stop Bits** ➤ **1 Stop Bit**.
11. Go to **Data Bits** ➤ **8 Data Bits**.
12. Go to **Protocol** ➤ **RS485**.
13. Go to **Exit** to return to the **Serial Config** menu and select **COM3**.
14. To configure **COM3** for a VideoBloX CPU proceed to *step 15* or for a MAXPRO-Net CPU proceed to *step 16*.
15. Configure the VideoBloX CPU settings as follows: **9600bps/19.2kbps/57.6kbps/115.2kbps, Bossware Parity, 1 Stop Bit, 8 Data Bits, RS422, DTE**.
16. Configure the MAXPRO-Net CPU as follows: *any bps/kbps, Even/Odd/No Parity, 1 Stop Bit, 7/8 Data Bits, RS232, DTE*.
17. Go to **Exit** to return to the **Main Menu** and save the configuration changes.

Configuring the PTZ application using a PC

1. Complete *step 1 to step 6* in *Configuring the PTZ application via the LCD menu*.
2. Use your PC to logon to SmartPIT, see *Common Configuration* for details.
3. Go to **Configuration** ➤ **Common Configurations** ➤ **Edit**.
4. Go to **Application**, select **SmartPTZ** application.
5. Go to **COM1 settings** and configure the settings as follows: **38.4kbps, No Parity, 1 Stop Bit, 8 Data Bits, RS485**.

6. To configure **COM3 settings** for a VideoBloX CPU proceed to *step 7* or for a MAXPRO-Net CPU proceed to *step 8*.
7. Configure the **COM3 settings** section for VideoBloX as follows: **9600bps/19.2kbps/57.6kbps/115.2kbps, Bossware Parity, 1 Stop Bit, 8 Data Bits, RS422, None, DTE**.
8. Configure the **COM3 settings** section for MAXPRO-Net as follows: **any bps/kbps, No/Odd/Even Parity, 1 Stop Bit, 7/8 Data Bits, RS232, None/Hardware, DTE**.
9. Click **Save** to complete the procedure.

Note: You must ensure that the ACUIX PTZ camera switch settings on the camera assembly circuit board have been configured to use the Intellibus protocol for the SmartPIT PTZ application to work correctly.
Set the DIP switches as follows: SW5 – 00000001 (positions 1–8) and SW6 – 01100000 (positions 1 – 8).

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Honeywell

**www.honeywellvideo.com
+1.800.796.CCTV (North America only)
HVSsupport@honeywell.com**

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