
PanelMate Headline Manager Users Guide

Preface

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FAX: 614-882-3414

EMAIL: RepairCHA@eaton.com

If you have questions regarding the repair or upgrade of an OI/IPC, contact your local distributor. Additional support is also available from our well-equipped Repair and Upgrade Service department.

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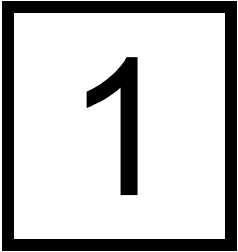
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Chapter 1: Introduction



In this chapter, you will learn about the PanelMate Headline Manager.

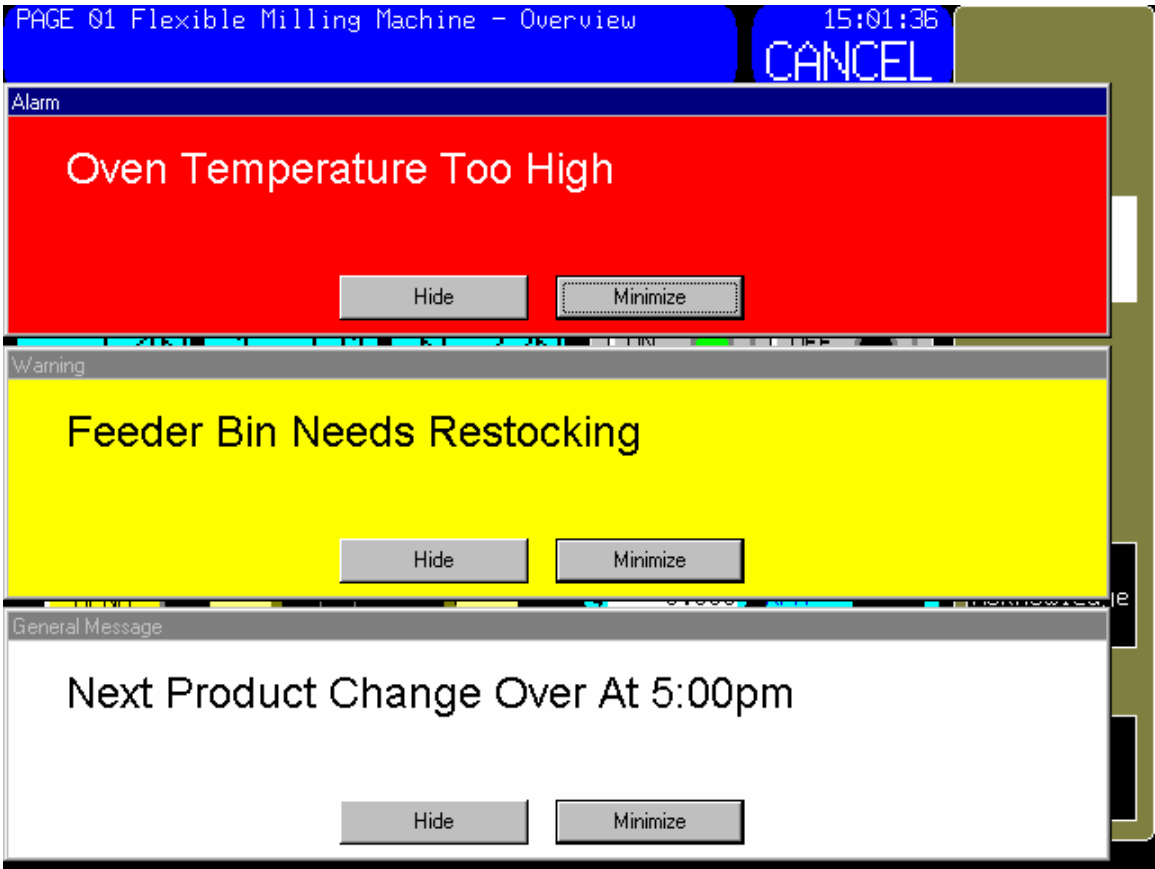
Headline Manager

The Headline Manager provides options for alerting operators to events that require attention. The Headline Manager is an application that prominently displays messages on a PanelMate ePro (models XE and X1) Operator Interface unit. These messages appear as headlines in large font, one third screen “pop-up” alert windows on the PanelMate display. The Headline Manager can also send the same messages to a remote message display unit (or other serial device) via the serial port.

The Headline Manager is an application that runs concurrently with PanelMate ePro and PC Pro runtime software. It is designed to simplify the process of sending information such as machine faults, cautions, or prompts to traditional text based message display units. Message displays are used in many applications in conjunction with Operator Interface devices, such as PanelMate, to augment the ability of the operator to respond quickly to events and alarms in the process. Since many machines are very large and operators are not always close to a PanelMate station, a message display that can be seen from far away can direct the operator to a specific part of the machine where a local PanelMate can provide additional details about the event.

In the past, developers had to create text messages within PLC memory and access those messages through add-in Basic programming modules in the PLC rack. Those modules then had to be programmed in a low level programming language to send the messages out the PLC through a serial port. Headline Manager allows the messages to be more easily configured and maintained with a spreadsheet program like Microsoft Excel. The Headline Manager configuration tool is a simple fill-in-the-blanks form that makes it easy to link the message files to PLC registers that contain pointers to the messages in the file. The PLC register value contains the number of the message to send from the ePro’s serial port to the message display unit. The same messages automatically show up on the ePro in a pop-up window using a large, easily readable font. The Headline Manager pop-up window functions very much like the PanelMate display template except that the headlines are configured once, whereas a display template would need to be placed on every page of the configuration.

The Headline Manager application kit comes preloaded and ready to run on the PanelMate ePro XE and X1 models. When using the PanelMate ePro X1 models, the Headline Manager must be selected as the one active kit before it can be used.



PanelMate Page Data with All 3 Headlines Displayed.

Chapter 2: Getting Started With The Headline Manager



In this chapter, you will learn:

- *About files used with the Headline Manager*
- *About the Headline Manager demo*
- *About installing and uninstalling the Headline Manager*

Files Used With Headline Manager

There are several files that you must know about when using the Headline Manager

- **filename.hlm** – Headline Manager runtime attribute file. This file describes the attributes for one headline. The **.hlm** file is created by running the Headline Manager program in configuration mode (with no file name as a command line argument).
- **Headline Manager.exe** - Headline Manager runtime and configuration program. If you execute the program with a **.hlm** file name as a command line argument then the Headline Manager program will execute in run mode using the named **.hlm** file for specifications. If there is no file name appended when executing the Headline Manager program then the program will execute in configuration mode and is used to create and/or edit **.hlm** files.
- **headlines.csv** – headline message file. The **.csv** file is a comma-separated-variable text file created using standard file editing tools such as Microsoft Excel, Notepad and WordPad. You can create a headline message file specifically for each headline or all of the headlines can share a headline message file or if the PanelMate configuration uses an External Message File then the headline message file can be the External Message File also. The format is described in Chapter 3: Using the Headline Manager in Configuration Mode.

Demo Headline Manager Files

A demo of the Headline Manager is preloaded on the PanelMate ePro XE and X1 models. This demo will automatically run when you power up the PanelMate ePro XE. Once the demo is launched you can demonstrate the Headline Manager by selecting the Headline Manager button from the PanelMate ePro XE menu page (explore and have some fun). On the X1 models the Headline Manager kit must be selected and changes made to the **PMStart.cmd** file before the Headline Manager can be demonstrated. See **Appendix A PanelMate ePro X1 PMStart.cmd File** for details.

If you want to see how the Headline Manager was configured you can review the **XEdemo.pps** or **HMdemo.pps** and **demoxxx.hlm** files in more detail using the configuration software. The demo files are provided on the PanelMate Power Pro software CD (V2.21 and above). The demo files can be found under **PMDemos\lePro XE** or **PMDemos\lePro X1**. The demo configuration will demonstrate the Headline Manager in addition to the three other application kits: Document Viewer, Recipe Manager and Trend Viewer (XE models only). The demo files are as follows:

File Name	PanelMate ePro XE/X1 File Path	File Description
PMStart.cmd	D:\	Startup command file
XEdemo.pps or DVdemo.pps or HMdemo.pps or RMdemo.pps	D:\Cfg\	PanelMate configurations

XEdemo.ois or RMdemo.ois	D:\Cfg\	Recipe programs
recipelist.csv	D:\Cfg\	Recipe list
demo.dcv	D:\Document Viewer\	Document Viewer configuration
demo_home.htm	D:\Document Viewer\	Document Viewer home page
demobot.hlm	D:\Headline Manager\	Headline configurations (bottom)
demohl.csv	D:\Headline Manager\	Headline messages
demomid.hlm	D:\Headline Manager\	Headline configuration (middle)
demotop.hlm	D:\Headline Manager\	Headline configuration (top)
demo_XXX.csv	D:\Recipe Manager\	Recipe files (ingredients)
demoRamps.cht	D:\Trend Viewer\	Trend Viewer chart configuration (ramp)
demoRandom.cht	D:\Trend Viewer\	Trend Viewer chart configuration (random)
demoSinewave.cht	D:\Trend Viewer\	Trend Viewer chart configuration (sine)

The appropriate files are loaded onto the PanelMate ePro XE and X1 models into the directories listed above. The demo can be started by selecting **Start>Run PMStart** or rebooting the system.

The demo **.pps** file uses an OPC server (simulation driver) to simulate reading data from a PLC for the Trend Viewer and other demo pages.

Downloading Headline Manager Files

If you are configuring the Headline Manager files on a computer different from the online unit you must copy the Headline Manager files to the application area on the target unit. You will need to copy all **.hlm** files and **.csv** files to the target unit.

Note 1: When you configure a **.hlm** file using the Headline Manager you define the path and file name of the associated **.csv** file. You must store the properly named **.csv** file in the correct location so that the Headline Manager can find the file when in run mode.

Note 2: When using a PanelMate ePro, it is recommended that you copy the user created **.hlm** and **.csv** files to the **D:\Headline Manager** directory. The **D:** partition is designated as the user area and can be written to when the unit is in Protect Mode.

Installing Headline Manager Software

On the PanelMate ePro XE and X1 models the current Headline Manager software will be pre-installed. If you want to upgrade Headline Manager to a newer version then you will need to install the Headline Manager software from the PanelMate Power Pro software CD (V2.1 and higher). Note that PanelMate ePro XE and X1 models have expanded storage and memory areas to support the Headline Manager and other application kits. The Headline Manager is not supported by the base PanelMate ePro models.

Once you have prepared the target unit for software downloads and have initiated the installation process, you will need to select the following items from the installation program in the sequence listed.

- Install Software
- Install PanelMate Kits
- Install Application Kits

If it is a first install then you can choose between Full, Compact or Custom installation. Selecting the Full option will result in all application kits being installed. If you select Custom then you can select the combination of kits that you want installed.

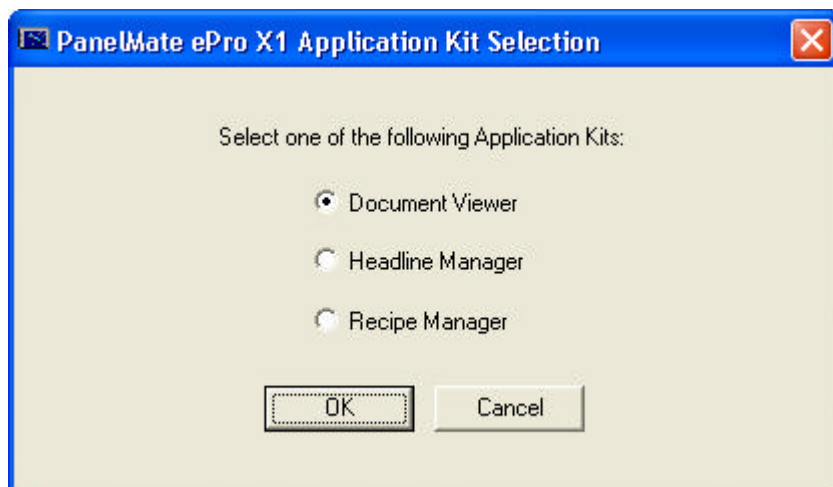
If the application kit software has already been installed you can choose between Modify, Repair and Remove. Modify will let you select the files you want to install and uninstall. Repair will replace the files already installed and Remove will uninstall all of the installed files.

The Headline Manager files are installed (default location) in a folder called:

C:\Program Files\Cutler-Hammer\PanelMate Application Kits

Selecting the Headline Manager on PanelMate ePro X1 Units

PanelMate ePro X1 models are designed to run one of three application kits. The Document Viewer application kit is the default selected kit. You must activate the Headline Manager kit by using the Application Kit Selection Utility. To select the Headline Manager Kit on your PanelMate ePro select **Start>Programs>ePro Tools>Kit Selection**. Select the Headline Manager radio button and then **OK** to complete the selection.



Uninstalling Headline Manager Software

If you are not going to use the Headline Manager software, you can uninstall the software.

On a PanelMate ePro select the following:

Start>Programs>PanelMate Software>Uninstall PanelMate Application Kits

On a PC use the **Add/Remove Programs** feature to remove the program. Select **PanelMate Application Kits** to launch the installation wizard.

In both cases, you will be presented with the choice of Modify, Repair and Remove. Select Modify and then uncheck the files you want removed or select Remove to remove all of the application kit files.

Chapter 3: Using the Headline Manager in Configuration Mode



In this chapter, you will learn:

- *How to configure Headline Manager settings*
- *How to create Headline Manager files*
- *About the sample configuration file*

Configuring Headline Settings (.hlm Files)

To configure headline settings you need to run the Headline Manager program in configuration mode. You can run Headline Manager program on your PanelMate ePro or on a PC. When you save the headline settings you will be saving the data in a **.hlm** file.

Run the Headline Manager by using the following sequence:

Start>Programs>PanelMate Software>Headline Manager>Headline Manager Config

Each headline is configured to be displayed in one of three fixed locations - top, middle and bottom. For each specified headline location a unique **.hlm** file will be created. Multiple **.hlm** files can be created for each location with different display attributes if desired. Note that if multiple headlines are defined for a single location and more than one headline is triggered to be displayed then the last one triggered will overwrite all others in the specified location.

Once you have started the Headline Manager program in the configuration mode you will see the following window with default values assigned to certain fields.

	Port #	Baud Rate	Data Bits	Parity	Stop Bits
Send to Serial Port	2	9600	8	None	1

Port Initialization String:

Message Clear String:

Message Prefix String:

Message Suffix String:

Min. Line Length: 40 Max. Line Length: 80

Headline Manager Configuration Window

If you would like to edit an existing **.hlm** file then select **File>Open** and select the desired **.hlm** file. When you are done with the editing process then select **File>Save** or **File> Save As** to save the new **.hlm** file.

Each field is described in detail below.

Message File – headline message file (**.csv** file) to be used when in run mode (include path). You must create a **.csv** file to store the messages that will be displayed in the headlines or sent out the serial port. If you are using an External Message File for your PanelMate configuration's messages then you may reference the same path and file name here. You can create a different **.csv** file for each headline if desired. If you are configuring on your runtime system then the button (ellipsis) can be used to browse to the correct **.csv** path and file name.

If you are configuring a headline on a PC, remember that the path and file name entered must match the path and file name of the **.csv** file on the runtime system. The recommended path and file name when using PanelMate ePro is **D:\Headline Manager\headlines.csv** where **headlines** is the name you assign to the headline message file.

DDE Link Settings

Note: The PanelMate PC Pro runtime software (pmc.exe) has a built in DDE server

Message Number Topic – DDE topic for the headline **Message Number Item**. The format is **applicationname/topic** where **applicationname** is the name of the program providing the data. When using PanelMate ePro or PC Pro the **applicationname** is PMC. The **topic** is the PLC device name from the PanelMate PLC Name and Port Parameters Table. An example for this field is PMC|plc1. The **applicationname** and **topic** are separated by the “|” character. Note that this is the bar or pipe character and not a lower case letter L (l).

Re-Show Message Trigger Topic –DDE topic for the headline **Re-show Message Trigger Item**. The format is **applicationname/topic** where **applicationname** is the name of the program providing the data. When using PanelMate ePro or PC Pro the **applicationname** is PMC. The **topic** is typically a scratchpad variable. An example for this field is PMC|sp. The **applicationname** and **topic** are separated by the “|” character. Note that this is the bar or pipe character and not a lower case letter L (l).

Message Number Item –PLC reference containing the headline message number. When in run mode, this location will be monitored by the Headline Manager program. When the value changes the Headline Manager will display the message associated with the newly stored value. The Headline Manager will search for the message in the **.csv** file referenced in the **Message File** field above.

Note that this PLC reference must be included with data that is continuously scanned by the PanelMate software. It is recommended that the PLC reference is included in the message library or file used by the PanelMate to insure that the value is continually read. The message can simply include the referenced value.

Re-Show Message Trigger Item - PLC reference or scratchpad tagname containing the headline re-show trigger. It is recommended that a scratchpad variable be used (see **Re-Show Message Trigger Topic**). In run mode, when the value in the trigger location changes to 1 then the Headline Manager will display the last headline again. This trigger value is typically changed by including a PanelMate variable-sized control button defined as Normally Closed Momentary. When pressed, the button will clear the trigger value (0) and then set the trigger value (1) causing the last displayed headline to be re-displayed.

Startup Delay (sec) – time in seconds that the Headline Manager program waits before it tries to establish a DDE link with the program referenced in the DDE topic. This delay begins after the Headline Manager program is fully initialized and allows time for the program to be fully up and operational before a link is attempted. The default value is 5 seconds.

If the **Startup Delay** time is not long enough an error message will be displayed at bootup that says “DDE Link not available”. If you receive this error you will need to reconfigure the **.hlm** file with a longer **Startup Delay** time.

The “sleep” command can also be used in the **PMStart.cmd** file to add delays. See Chapter 4 – Using the Headline Manager in Run Mode for more information.

Headline Appearance Settings

Show Headline check box – check this box if you want to display a headline. If you do not want to display a headline then remove the check. When the check is removed the values below are grayed out since you will not be configuring a headline for the screen but configuring for the serial output port only.

Title – caption used on the headline window. The title will also be displayed on the minimized headline button.

Display Time (sec) – amount of time, in seconds, that the headline is displayed before it is automatically hidden. A value of 0 will display the headline indefinitely until it is hidden or minimized by the operator. The default value is 5 seconds. This value affects the original headline message only and does not affect the headline message when reshown.

Location – headline location. Options from a drop down menu are Top, Middle, and Bottom. Top will display a headline in the top third of the display area, Middle will display a headline in the middle of the display area and Bottom will display a headline in the bottom third of the display area.

Text Color – text (foreground) color for the headline. Select the color bar to display a window with a color palette. Select the color desired for the text and then select **OK** to save the new color or **Cancel** to return to the old color.

Back Color – background color for the headline. Select the color bar to display a window with a color palette. Select the color desired for the background of the headline window and then select **OK** to save the new color or **Cancel** to return to the old color.

Preview – select this button to see the headline displayed in its selected location with the selected colors. The headline will be displayed for the specified time. Select **Hide** to hide the headline or **Minimize** to minimize the headline. If you select **Minimize** the headline will appear as a small button at the top of the window and will remain there until you select the minimized headline and then select **Hide**.

Note: once a headline is minimized the **Display Time** is no longer in affect.

Serial Output Settings

Only one headline should be configured for sending data to the serial port. If multiple headlines are using the serial port it is possible for data to become intermixed and out of sequence resulting in illegal data being received by the receiving message display device.

Send to Serial Port check box – check this box if you are going to send commands out a serial port to a message display unit or some other type of device. If you do not want to send data out the serial port then remove the check. When the check is removed the values below are grayed out since you will not be configuring the serial port for messages.

Port # - number of the serial communications port used to communicate (output) the headline messages. Options from the drop down menu are 1, 2, 3, 4. On a PanelMate ePro this value should be set to 2.

Baud Rate - baud rate for the serial communications. Options from the drop down menu are 1200, 2400, 4800, 9600, 19200, 38400.

Data Bits – number of data bits for the serial communications. Options from the drop down menu are 7, 8.

Parity – parity for the serial communications. Options from the drop down menu are None, Even, Odd.

Stop Bits – number of stop bits for the serial communications. Options from the drop down menu are 1, 2.

Note – the **Port Initialization String**, **Message Clear String**, **Message Prefix String**, **Message Suffix String** fields may include control characters. Insert control characters by specifying their 3 digit ASCII code preceded by a “\”. Example, a carriage return would be defined as \013. To include the “\” character within a sting, insert the ASCII value 092 preceded by a “\”

Port Initialization String – initialization string sent out the serial port when the Headline Manager program is launched in run mode.

Message Clear String –string sent out the serial port when the **Message Number Item** value changes to zero (0). If there is no message clear string specified by the receiving device then you can create your own string of blanks to clear a message.

Message Prefix String - string sent out the serial port before each headline message.

Message Suffix String - string sent out the serial port after each headline message.

Min. Line Length – minimum number of characters required in a message by the receiving device. If the message is too short then the message will be padded with spaces to be the minimum length (not including the prefix and suffix).

Max. Line Length - maximum number of characters allowed in a message by the receiving device. If a message is too long then the message will be truncated to the maximum length (not including the prefix and suffix).

Configuring .csv Files

The **.csv** message file is a comma-separated-variable text file that is created/edited in Microsoft Excel, Notepad or WordPad. You can store up to 65,535 messages in a single file and use the file as the message source for the Headline Manager and PanelMate PC Pro.

The format of the **.csv** file messages for the Headline Manager is the same as the PanelMate External Message File.

Column 1 – Message number (ID) (1-65535).

Column 2 – Message foreground color (0-255). Not used for Headline Manager.

Column 3 – Message background color (0-255). Not used for Headline Manager.

Column 4 – Message font (0 = normal, 1= graphic, 2= double-high, 3= quad). Not used for Headline Manager.

Column 5 – Message destination (1= screen, 2= printer, 3= both). Not used for Headline Manager.

Column 6 – Message string (255 characters max). The Headline Manager will only display the first 80 characters in a headline message. The **Max Line Length** value in the **.hlm** file determines the maximum message length for messages sent out the serial port.

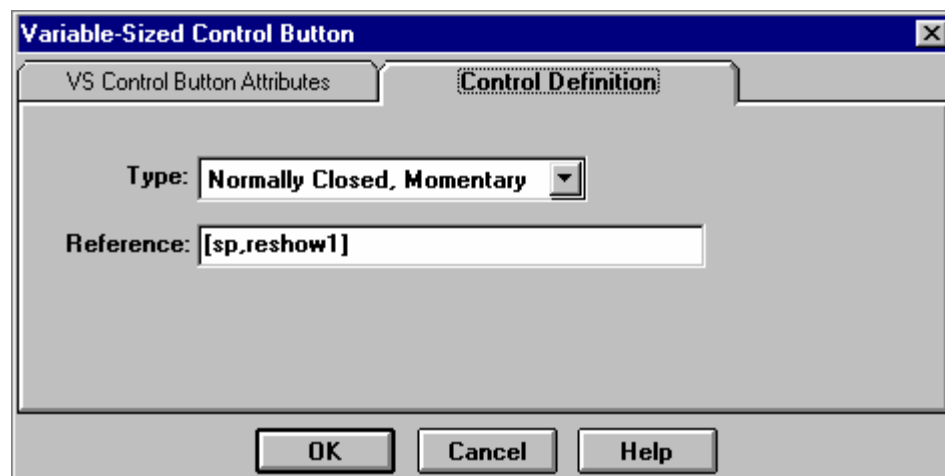
Example File: **HeadlineTop.csv**

1	0	0	0	0	Warning: High Temperatures
2	0	0	0	0	CAUTION: Low Levels
3	0	0	0	0	System Stopped
...
55	0	0	0	0	Shift Change in 15 minutes

Note: The message data will be displayed as entered in the **.csv** file. Any special PanelMate fields referenced will be displayed as text and will not be interpreted per the PanelMate rules. As a result, Headline Manager can not display PLC data or other special values.

Configuring PanelMate Applications For Headline Manager (.pps Files)

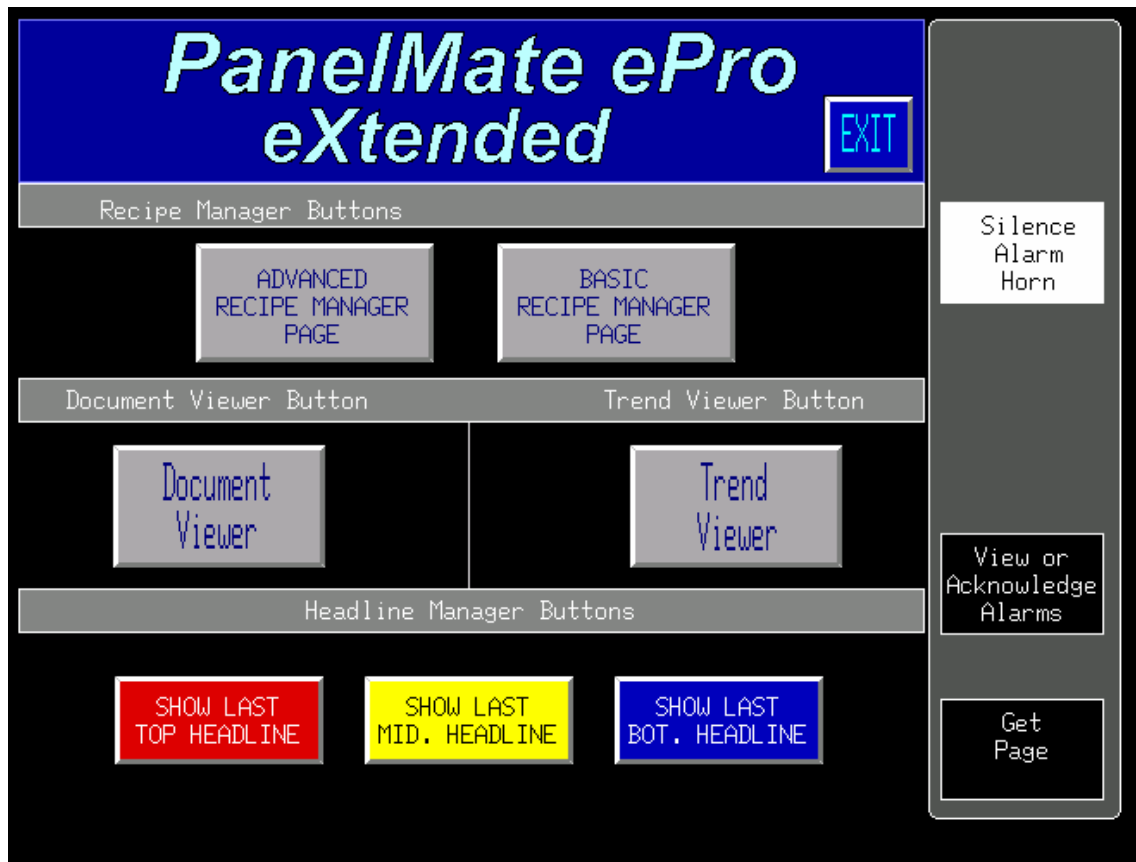
In order to reshown a headline you must add a variable-sized pushbutton to each page from which you wish to recall headlines. The Variable-Sized Control Button should be set to Normally-Closed, Momentary and the **Reference** should match the DDE Link Setting for the Re-Show Message Trigger **Item** configured in the Headline Manager. The normally closed momentary setting results in setting the reference to a value of 0 when pressed and 1 when released. As an example, if the DDE Link Setting for the Re-Show Message Trigger **Topic** is set to: PMC|sp, and the **Item** is set to **reshow1** then the following dialog settings for the control button would be correct:



PanelMate Configuration for Variable-Sized Control Button For Headline Manager

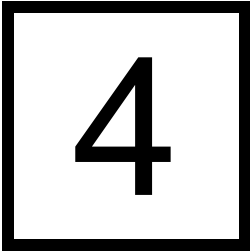
Using the Sample Files

A **sample pps** file can be found on the PanelMate Power Pro software CD (V2.1 and higher) under **PM\Kits\Sample** to help you build your PanelMate configuration that will be using the Headline Manager. The **sample.pps** file contains a page 197 that contains variable-sized buttons (defined as Normally Closed Momentary) that can be used to set the DDE link trigger to re-show the top, middle and bottom headlines. You can simply copy the desired variable-sized buttons to your application. The **sample.pps** buttons for Headline Manager changes the value of the scratchpad variables **reshow1**, **reshow2** and **reshow3** for the top, middle and bottom headlines respectively. The buttons change the trigger values to 0 and then to 1. If necessary, you can change the scratchpad variable names used in the button and assigned in the **.hlm** file. The values are changed in the **.hlm** file by using the Headline Manager in configuration mode.



Control Buttons - Sample Configuration Page 197

Chapter 4: Using the Headline Manager in Run Mode



In this chapter, you will learn:

- *How to launch the Headline Manager*
- *How to use the Headline Manager in run mode*

Headline Manager Launching Methods

The Headline Manager is designed to run in tandem with the PanelMate PC Pro application.

There are two recommended ways to launch the Headline Manager with a PanelMate PC Pro configuration:

- 1) Using the startup **PMStart.cmd** file at boot-up
- 2) Using **Start>Run PMStart**

Notes:

- Both methods launch the **PMStart.cmd** file.
- During boot-up, there will be no messages displayed telling you that the Headline Manager is launching.
- The Headline Manager must be selected as the active kit when using X1 models. See Chapter 2 - Selecting the Headline Manager on PanelMate ePro X1 Units for details.

Using the Startup PMStart.cmd File to Automatically Launch a Configuration and Headline Manager

When your runtime unit boots up, it automatically launches the **PMStart.cmd** file (see Appendix A for a listing of the complete file). If you would like the runtime unit to automatically launch your configuration (**.pps** file) and Headline Manager, you can do so by editing the **PMStart.cmd** file using Notepad. To do this, complete the following steps.

Note: When using a PanelMate ePro, the **PMStart.cmd** file is found in the root directory of the **D:** partition. There are two **PMStart.cmd** files described in this manual, one for the XE models and one for the X1 models. See Appendix A for a complete listing of the **PMStart.cmd** files.

- 1) Connect a PS/2 mouse and keyboard to your unit.
- 2) Reboot your unit.
- 3) Click **Start>Explorer**.
- 4) Browse to find **PMStart.cmd** and then right-click the file and click **Edit**.

Result: Notepad is launched.

- 5) Edit the following line in the **PMStart.cmd** file by replacing the **.pps** file name with the name of your ePro configuration.

set MY_CFG=d:\cfg\xxx.pps

- 6) In the **PMStart.cmd** file you will see 4 lines with the following:

Set MY_TOPHL="d:\Headline Manager\xxx.hlm"

Set MY_MIDHL="d:\Headline Manager\xxx.hlm"

Set MY_BOTHL="d:\Headline Manager\xxx.hlm"

Set My_PNTRHL="d:\Headline Manager\xxx.hlm"

Replace the **xxx.hlm** file names with the names of your Headline configuration files. If there are no files for the top, middle, bottom or the printer headlines respectively then replace the file names with "none". If you store the headline files at a path

location different from the default location make sure that you enter the correct path name.

- 7) Save the edited **PMStart.cmd** file, then close Notepad.

By-Passing the Headline Manager in the PMStart.cmd File

If you do not want to launch the Headline Manager then make sure that the file names for the 4 lines noted in step 6 above are all set to "none" as shown here.

```
Set MY_TOPHL="d:\Headline Manager\none.hlm"  
Set MY_MIDHL="d:\Headline Manager\none.hlm"  
Set MY_BOTHHL="d:\Headline Manager\none.hlm"  
Set My_PNTRHL="d:\Headline Manager\none.hlm"
```

Power-Up Sequence

Once power is connected to your PanelMate ePro runtime unit, the following occurs:

- 1) A DOS prompt appears on the screen, informing you that the unit is initializing system resources.
- 2) The Windows NT Embedded operating system boots up.
- 3) A **Delay-Connecting to Touchscreen Controller** window appears, informing you that the unit is loading the touchscreen driver.
- 4) The PanelMate PC Pro application launches.
- 5) The Headline Manager program launches. Multiple occurrences may take place based on the number of command lines in the **PMStart.cmd** file.

If the **.hlm** file specifies a **Serial Output Port Initialization String** then the string will be sent out the specified serial port after the Headline Manager program launches. It is important that the receiving device is ready for input.

If the **Message Number Item** specified in the **.hlm** file contains a non-zero value during bootup then the associated message will be displayed in a headline and/or sent out the serial port after the Headline Manager program launches.

Note 1: You may see the error “DDE Link not available” when attempting to initialize the Headline Manager. If you receive this error it could mean that the **Startup Delay** time is not long enough. Optionally, instead of changing the **Startup Delay** time you can increase the sleep time by modifying the following line in the **PMStart.cmd** file to a time longer than 40 seconds.

Set CFG_LOAD_TIME=40

The error could also be the result of the DDE Topics/Items configured in a **.hlm** file not being found. If PanelMate PC Pro is specified (PMC) then make sure the Topic and Item values are included in the PanelMate configuration file.

Note 2: You may see the error “Error Reading xxxx Fatal Error #76 Path not found Program Terminating”. If you get this error it means that a **.csv** file path can not be found. Check the path of your **.csv** files as specified in the **.hlm** file for validity.

Headline Manager in Run Mode

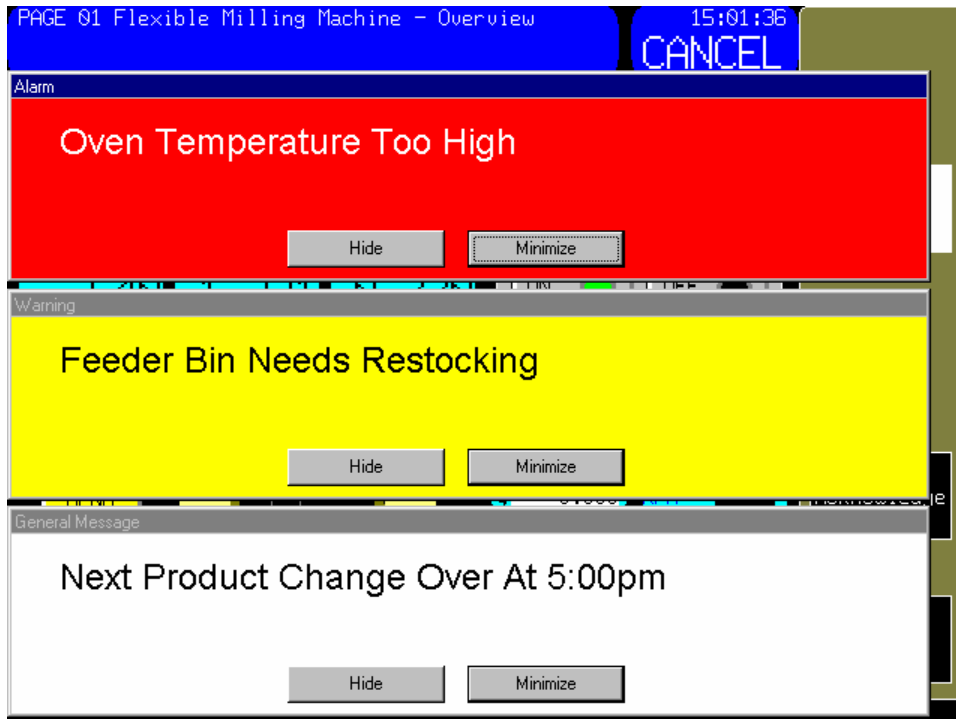
When the **Message Number Item** value specified in the **.hlm** files changes the Headline Manager will display the message associated with the new value on the screen and/or send the message out the serial port.

If a message is not found then the headline will be displayed as blank on the screen and/or a blank message will be sent out the serial port with the **Min Line Length** value determining the number of spaces in the message string.

If the **Message Number Item** value changes to zero (0) then the headline will be hidden on the screen if one is currently being displayed. In addition, if **Serial Output Settings** are selected then the **Message Clear Sting** will be sent out the serial port.

For example, if the **Topic** is PMC|plc1 and the **Item** is 40100 and the value associated with the plc reference changes to 4 then the Headline Manager will find message 4 in

the associated **.csv** file. Next it will display the specified message as a headline and/or send the message out a serial port with the prefix and suffix strings.



PanelMate Page with All 3 Headlines Displayed

Once a headline is displayed it will stay on the screen the amount of time specified in the **Display Time** field and then it will automatically be hidden. If the **Display Time** value is zero (0) then the headline will remain on the screen. Each headline window displays two buttons – **Hide** and **Minimize**.

Hide – select this button to remove the headline from the display

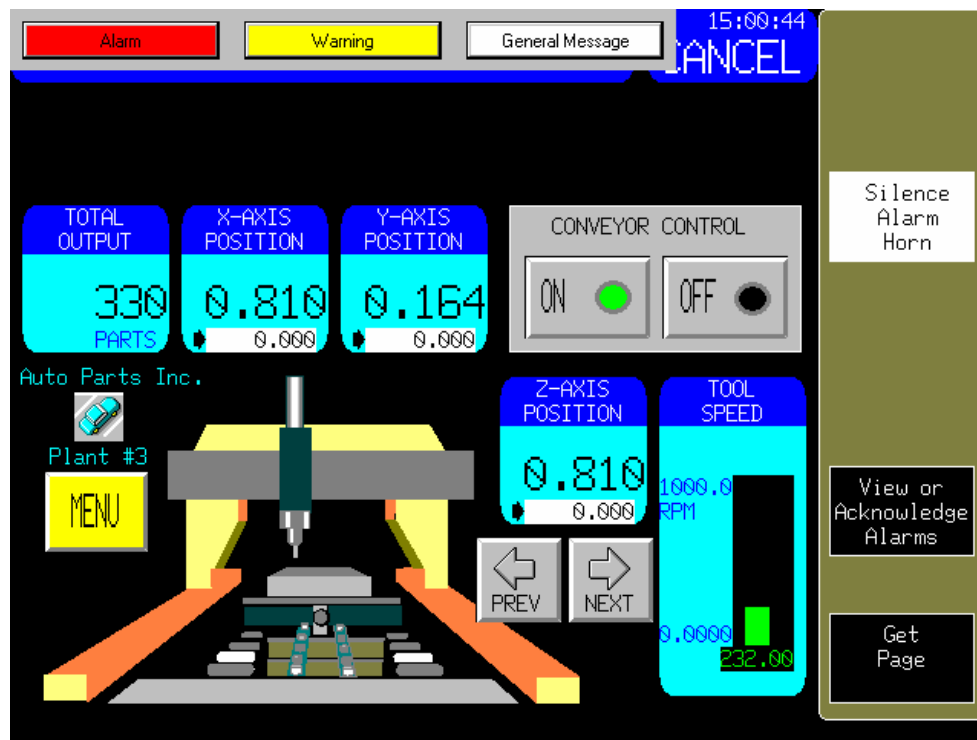
Minimize – select this button to minimize the headline on the display

Minimized Headlines

When a headline is minimized it will appear at the top of the window as a small button with the **Headline Title** as the label. The minimized button for the top headline will appear at the top left, the minimized button for the middle headline will appear at the top middle and the minimized button for the bottom headline will appear at the top right of the application window.

If a headline is minimized before the **Display Time** has elapsed then the headline will not be automatically hidden. You must select the minimized headline button to maximize the headline and then select **Hide** to remove the headline from the display.

If a headline is minimized and the **Message Number Item** value changes to zero (0), the headline will be hidden. While a headline is minimized, if the value changes to a valid message number the headline will be displayed with the new message and if the value changes to an invalid message number then a blank headline will be displayed.



PanelMate Page with All 3 Headlines Minimized

Re-Show Message

For each headline defined, if you change the **Re-Show Message Trigger Item** value from 0 to 1 then the last headline displayed will be redisplayed. It is recommended that if you want to take advantage of the re-show feature that you use a PanelMate variable-sized control button (defined as Normally Closed Momentary) to write to a scratchpad value. See Chapter 3 – Configuration Using the Headline Manager for more information.

Terminating the Headline Manager

The Headline Manager will run as a background task as long as the DDE link is active. Once the DDE link is broken then the Headline Manager will terminate. This means that if the **Message Number Topic** is PMC|xxx and the PanelMate PC Pro program (pmc.exe) is terminated then the Headline Manager will also terminate.

Chapter 5: Troubleshooting

5

In this chapter, you will learn:

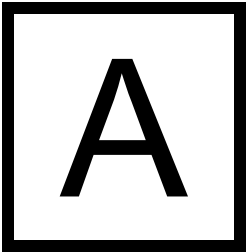
- *How to interpret error messages from the Headline Manager in run mode*
- *how to solve error conditions seen while using the Headline Manager in run mode*

Headline Manager Troubleshooting

Issue	Possible Cause	Corrective Action
Error Message "DDE Link not available"	Startup Delay time not long enough so the DDE Topic is not available when the Headline Manager is trying to make connections. This error could also be a result of an error configuring the DDE Topic/Item.	Make the Startup Delay time longer or increase the "sleep" command to the PMStart.cmd file. Check to make sure the DDE Topic/Item values in the .hlm file are configured correctly
Error Message "Error Reading xxx Fatal Error #76 Path not found Program Terminating"	The file path for the file named in the error message does not exist. The file path of a Message File specified in a .hlm file is not correct or the Headline Manager command line argument path is not correct for a .hlm file.	Check that the Message File entry in the .hlm is correct and check to make sure the PMStart.cmd file has been edited correctly.
Error Message "File xxx Not Found" followed by "Error Reading File xxx Program Terminating"	The .hlm file name provided as the command line argument for Headline Manager is not valid.	Make sure the .hlm file name specified in the PMStart.cmd file is valid and that the .hlm file is stored correctly.
Error Message "File xxx not found Program Terminating"	A .csv file name does not exist (the path is legitimate). The Message File name specified in a .hlm file is not correct.	Make sure the .csv file path and name specified in the Message File field in the .hlm file is valid. The specification or file name must be changed so that the two match.
Blank messages appear instead of valid messages	A specified message cannot be found associated with the assigned value	Make sure the value assigned to the Message Number Item is valid and has a matching message in the .csv file.
Headlines are not appearing when expected	The Message Number Item value is not being scanned by the PanelMate.	Place the Message Number Item reference in the PanelMate message file so that it is scanned continuously
Headlines disappear after being displayed	1) The Display Time is set too short. 2) The Message Number Item value is being cleared (set to 0)	1) Change the Display Time to 0 or make longer. 2) Make sure the Message Number Item value is not being changed to 0.

Issue	Possible Cause	Corrective Action
Run-time error "8005" Port Already Open	Two or more headlines are configured to send data out the serial port	Check to make sure that only 1 of all the active .hlm files selects and configures the serial port.
Message Display Device doesn't display correctly	The device was not ready to receive the Port Initialization String	Make sure the receiving device is powered up before launching the Headline Manager

Appendix A: Directories and Files



In this appendix, you will learn:

- *About the PanelMate ePro directory and file structure*
- *About the PMStart.cmd file*

PanelMate ePro XE Treeview

The following lists the treeview of the PanelMate ePro XE units with the demo files loaded. A similar organization should be used for your application. You can write to the **D:** partition when the ePro is in Protect Mode.

D:

PMStart.cmd demo start-up command file (see descriptions in the next section)

Cfg (put the **.pps**, **.ois** and **recipelist.csv** files here)

XEdemo.pps	demo configuration
XEdemo.ois	demo recipe script engine
recipelist.csv	demo list of recipe names
recipemanager.log	log file for the Recipe Manager
simdemo.opf	OPC server configuration (OPC server & simulation driver)
chddesrv.exe	demo DDE server (used for data simulation)

Document Viewer (put the **.dcv** and data files here)

demo.dcv	demo URL/Filename list
demo_home.htm	demo startup page for Document Viewer
relnotes.txt	demo .txt file to call up
ePro-8 cutout template.pdf	demo .pdf file to call up
1219B power supply.jpg	demo .jpg file to call up
ePro.jpg	demo .jpg file to call up
PM help.htm	demo .htm file to call up
*.gif files	files for *.htm files

Headline Manager (put the **.hlm** and headline **.csv** files here)

demobot.hlm	demo headline specs – bottom
demohl.csv	demo Headline Manager messages
demomid.hlm	demo headline specs – middle
demotop.hlm	demo headline specs – top

Recipe Manager (put the recipe file **.csv** files here)

demo_xxx.csv	demo Recipe ingredients – 20 files where xxx is the recipe name
--------------	---

Trend Viewer (put the **.cht** files here)

demoRamps.cht	demo chart with ramp data
demoRandom.cht	demo chart with random data
demoSinewave.cht	demo chart with sine data

PanelMate ePro X1 Treeview

The following lists the treeview of the PanelMate ePro X1 units with the demo files loaded. A similar organization should be used for your application. You can write to the **D:** partition when the ePro is in Protect Mode.

D:

PMStart.cmd demo start-up command file (see descriptions in the next section)

Cfg (put the **.pps**, **.ois** and **recipelist.csv** files here)

DVdemo.pps	Document Viewer demo configuration
HMdemo.pps	Headline Manager demo configuration
RMdemo.pps	Recipe Manager demo configuration
RMdemo.ois	recipe script engine
recipelist.csv	demo list of recipe names
recipemanager.log	log file for the Recipe Manager
simdemo.opf	OPC server configuration (OPC server & simulation driver)
chddesrv.exe	demo DDE server (used for data simulation)

Document Viewer (put the **.dcv** and data files here)

demo.dcv	demo URL/Filename list
demo_home.htm	demo startup page for Document Viewer
relnotes.txt	demo .txt file to call up
ePro-8 cutout template.pdf	demo .pdf file to call up
1219B power supply.jpg	demo .jpg file to call up
ePro.jpg	demo .jpg file to call up
PM help.htm	demo .htm file to call up
*.gif files	files for *.htm files

Headline Manager (put the **.hlm** and headline **.csv** files here)

demobot.hlm	demo headline specs – bottom
demohl.csv	demo Headline Manager messages
demomid.hlm	demo headline specs – middle
demotop.hlm	demo headline specs – top

Recipe Manager (put the recipe file **.csv** files here)

demo_xxx.csv	demo Recipe ingredients – 20 files where xxx is the recipe name
--------------	---

PanelMate ePro XE PMStart.cmd File

This is the **PMStart.cmd** file that is preloaded on the PanelMate ePro XE unit in its default state. Lines will be edited for your application. See Chapter 4: Recipe Manager Launching Methods for more details. This file can be found on the PanelMate Power Pro CD (V2.21 and higher) in **PMDemos\lePro XE**

```
@echo off
```

```
REM * To set this batch file to automatically start a  
REM * PanelMate PC Pro Application, set the variable  
REM * MY_CFG to the desired path\filename.
```

```
set MY_CFG=d:\cfg\XEdemo.pps
```

```
REM * If you are going to start Document Viewer,  
REM * Headline Manager, or Trend Viewer after the  
REM * PanelMate configuration loads, set the variable  
REM * CFG_LOAD_TIME to the number of seconds it takes  
REM * to completely boot up the PPS file. Measured from  
REM * when begins to load until the first display is drawn  
REM * following a power down reboot.
```

```
set CFG_LOAD_TIME=40
```

```
REM * To set this batch file to automatically start  
REM * Document Viewer, set the variable MY_DCVFile  
REM * to the desired path\filename of your Document  
REM * Viewer Configuration file (.DCV)  
REM * To by-pass the Document Viewer use the file name none.dcv
```

```
set MY_DCVFile="d:\Document Viewer\demo.dcv"
```

```
REM * To set this batch file to automatically start  
REM * up to three Headlines, set the variables  
REM * MY_TOPHL, MY_MIDHL, and MY_BOT to the desired  
REM * path\filename of the three Headline Manager  
REM * Configuration files (.HLM)  
REM * To by-pass a headline use the file name none.hlm
```

```
set MY_TOPHL="d:\Headline Manager\demotop.hlm"  
set MY_MIDHL="d:\Headline Manager\demomid.hlm"  
set MY_BOTHL="d:\Headline Manager\demobot.hlm"  
set MY_PTRHL="d:\Headline Manager\none.hlm"
```

```
REM * To automatically start Recipe Manager you do  
REM * not need to do anything within this batch file.  
REM * Just place the file recipelist.csv in the same  
REM * directory as the PanelMate PC Pro application  
REM * file (.PPS) and copy the RecipeManager.OIS file to the
```

```

REM * same directory and rename the .OIS file to match
REM * the name of the .PPS file (Example: Myconfig.OIS)

REM * To automatically start Trend Viewer, leave the
REM * variable START_TREND set to YES. If you do not want
REM * Trend Viewer to start, change to variable to NO

set START_TREND="YES"

if exist %MY_CFG% goto START_APP
goto NO_APP

:START_APP
echo Starting PanelMate Application %MY_CFG%...
d:
cd d:\cfg
start c:\pmconfig\ntonline\pmc.exe %MY_CFG%
sleep %CFG_LOAD_TIME%

if exist %MY_DCVFile% goto START_DCV
goto NO_DCV

:START_DCV
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Document Viewer.Ink"
%MY_DCVFile%
sleep 2

:NO_DCV
if exist %MY_TOPHL% goto START_TOP
goto NO_TOP

:START_TOP
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline
Manager.Ink" %MY_TOPHL%
sleep 2

:NO_TOP
if exist %MY_MIDHL% goto START_MID
goto NO_MID

:START_MID
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline
Manager.Ink" %MY_MIDHL%
sleep 2

:NO_MID
if exist %MY_BOTHL% goto START_BOT
goto NO_BOT

```

```
:START_BOT
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline
Manager.Ink" %MY_BOTH%
sleep 2

:NO_BOT
if exist %MY_PTRHL% goto START_PTR
goto NO_PTR

:START_PTR
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline
Manager.Ink" %MY_PTRHL%
sleep 2

:NO_PTR
if %START_TREND% == "YES" goto START_TREND
goto EXIT

:START_TREND
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Trend Viewer.Ink"
goto EXIT

:NO_APP
echo PanelMate Application %MY_CFG% Not Found...
sleep 5

:EXIT
```

PanelMate ePro X1 PMStart.cmd File

This is the **PMStart.cmd** file that is preloaded on the PanelMate ePro X1 unit in its default state to demonstrate the Document Viewer. In order to demonstrate the Headline Manager change the **.pps** file name, turn the Document Viewer off and add headline files by making the following changes in the file. The Headline Manager demo files are pre-loaded onto the X1 unit.

```
set MY_CFG=d:\cfg\HMdemo.pps

set MY_DCFile="d:\Document Viewer\none.dcv"

set MY_TOPHL="d:\Headline Manager\demotop.hlm"

set MY_MIDHL="d:\Headline Manager\demomid.hlm"

set MY_BOTHL="d:\Headline Manager\demobot.hlm"
```

Lines will be edited for your application. See Chapter 4: Headline Manager Launching Methods for more details. This file can be found on the PanelMate Power Pro CD (V2.21 and higher) in **PM\Demos\Pro X1**.

You will also need to make sure that the Headline Manager is the selected kit. See Chapter 2: Selecting the Headline Manager on PanelMate ePro X1 Units for details.

```
@echo off
REM * To set this batch file to automatically start a
REM * PanelMate PC Pro Application, set the variable
REM * MY_CFG to the desired path\filename.

set MY_CFG=d:\cfg\DVdemo.pps

REM * If you are going to start Document Viewer,
REM * Headline Manager, or Trend Viewer after the
REM * PanelMate configuration loads, set the variable
REM * CFG_LOAD_TIME to the number of seconds it takes
REM * to completely boot up the PPS file. Measured from
REM * when begins to load until the first display is drawn
REM * following a power down reboot.

set CFG_LOAD_TIME=40

REM * To set this batch file to automatically start
REM * Document Viewer, set the variable MY_DCFile
REM * to the desired path\filename of your Document
REM * Viewer Configuration file (.DCV)
REM * To by-pass the Document Viewer use the file name none.dcv

set MY_DCFile="d:\Document Viewer\demo.dcv"
```

```
REM * To set this batch file to automatically start
REM * up to three Headlines, set the variables
REM * MY_TOPHL, MY_MIDHL, and MY_BOT to the desired
REM * path\filename of the three Headline Manager
REM * Configuration files (.HLM)
REM * To by-pass a headline use the file name none.hlm
```

```
set MY_TOPHL="d:\Headline Manager\none.hlm"
set MY_MIDHL="d:\Headline Manager\none.hlm"
set MY_BOTHL="d:\Headline Manager\none.hlm"
set MY_PTRHL="d:\Headline Manager\none.hlm"
```

```
REM * To automatically start Recipe Manager you do
REM * not need to do anything within this batch file.
REM * Just place the file recipelist.csv in the same
REM * directory as the PanelMate PC Pro application
REM * file (.PPS) and copy the RecipeManager.OIS file to the
REM * same directory and rename the .OIS file to match
REM * the name of the .PPS file (Example: Myconfig.OIS)
```

```
if exist %MY_CFG% goto START_APP
goto NO_APP
```

```
:START_APP
echo Starting PanelMate Application %MY_CFG%...
d:
cd d:\cfg
start c:\pmconfig\ntonline\pmc.exe %MY_CFG%
sleep %CFG_LOAD_TIME%
```

```
if exist %MY_DCVFile% goto START_DCV
goto NO_DCV
```

```
:START_DCV
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Document Viewer.Ink"
%MY_DCVFile%
sleep 2
```

```
:NO_DCV
if exist %MY_TOPHL% goto START_TOP
goto NO_TOP
```

```
:START_TOP
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline
Manager.Ink" %MY_TOPHL%
sleep 2
```

```
:NO_TOP
if exist %MY_MIDHL% goto START_MID
```



```
goto NO_MID
```

```
:START_MID
```

```
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline  
Manager.Ink" %MY_MIDHL%  
sleep 2
```

```
:NO_MID
```

```
if exist %MY_BOTHL% goto START_BOT  
goto NO_BOT
```

```
:START_BOT
```

```
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline  
Manager.Ink" %MY_BOTHL%  
sleep 2
```

```
:NO_BOT
```

```
if exist %MY_PTRHL% goto START_PTR  
goto NO_PTR
```

```
:START_PTR
```

```
"C:\PROGRAM FILES\Cutler-Hammer\PanelMate Application Kits\Headline  
Manager.Ink" %MY_PTRHL%  
sleep 2
```

```
:NO_PTR
```

```
goto EXIT
```

```
:NO_APP
```

```
echo PanelMate Application %MY_CFG% Not Found...  
sleep 5
```

```
:EXIT
```

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