OPERATOR INTERFACE PRODUCTS APPLICATION NOTE

Description: Using Touch Screen on Xycom Portrait Products

When using a touch screen on Xycom Portrait Products (9485, 9487), there are several things to consider. Hardware, software and configurations should all be checked carefully before attempting to use the Portrait with touch screen.

Hardware:

The Portrait can be ordered with an optional touch screen. If this option is ordered, the Portrait comes with the touch screen installed, all of the necessary cabling, the touch screen controller board and the software. The touch screen controller is a "serial" controller. This type takes the signals from the touch screen and converts them into signals that are transmitted via RS-232 to the CPU. This is usually done internal to the Portrait via a small ribbon cable connect between the "Touch Screen" connector on the backplane and the "Com 2" port on the CPU. The external connector for Com 2 is disconnected.

Software:

The software to drive the touch screen is called "Elodev". This is a product from Elographics and is included with the Portrait. This needs to be part of the "AUTOEXEC.BAT" file. The line should look something like this "Elodev 2210,2,9600". This loads elodev for the 2210 model controller, on com 2 at 9600 baud. If a bus controller is used (Xycom does not have a standard configuration with a bus controller) then the line in "AUTOEXEC.BAT" would be different to reflect the model, I/O port, and IRQ#. After this software is loaded then you can use the Elographics software, "Elocalib" and "Elodemo" to calibrate and test your touch screen. Calibrate in VGA 640x480 16 color mode.

If the touch screen is to be used with Xycom's product, SoftScreen, then "Elodev" is the only touch screen software needed. If the Portrait with the touch screen is to be used with Windows, then another software package is needed, Monitor Mouse. This software must be installed to make the touch screen act like a mouse. This software is

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also installed from the "AUTOEXEC.BAT" file. The format is "Monmouse -4". This loads Monitor Mouse and sets the mode to mode number 4. I happen to like this mode the best when using Windows but there are others available, see the Monitor Mouse manual for details on the modes.

Configuration:

If the touch screen is to be used with SoftScreen there is another step that needs to be completed before using the touch screen with Softscreen. Run your application from the DOS prompt by typing Pcengine, a space, then the name of your application or by running it from the Development system by selecting Application-Run and choosing your application from the list. Once you are running SoftScreen if you hold down the Ctrl and Break key (Ctrl - Pause on the Keypad) then you will be in the Pcengine Configuration menu. Choose "SETUP", then Touch Screen Calibration, this will ask you to calibrate the EGA mode by touching the upper left, then lower right, then hit any key to calibrate in VGA mode. Once this calibration has been completed, SoftScreen can now take advantage of the touch screen.

If the touch screen is to be used as a mouse in Windows, you need to run Windows Setup and choose "Other Pointing Device (requires OEM disk)" and use Monmouse as the driver.

Notes:

1. With SoftScreen the basics are: install hardware (should be done), load Elodev and calibrate Pcengine.

2. Monitor Mouse needs to have another "real" mouse driver installed. To do this usually requires having a "real" mouse connected. Once Monitor Mouse finds a mouse

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driver you can use the program called "Patchmse" to patch the mouse driver so you no longer need a "real" mouse connected. The new driver becomes "NOMOUSE".