

TN105D Save AP Screens to USB drive - 8/3/2011

HMI Demo AP Operation Instruction

Topic: How to Save AP Screens to USB Flash Drive

Topic:	How to save AP screens to USB flash drive
Goal:	Save the specific screens as the image files to USB flash drive by using bit button. The filename of the image files will be the time that the file saved. By doing so, you can (1) print the image file of the screen. (2) avoid file being changed.
Software:	PM Designer v1.2.91 or newer
Hardware:	All Panel Master (PTxxx) HMI units with a USB Host port.
Operation:	<p>AP 1. Please define the properties of the image file, such as the filename, the filename suffix and the number of screen, etc. In this example, the filename suffix is the time that file saved:</p> <p>Software</p> <p>Version a. USB Flash Drive E:\</p> <p>V1.2.91 b. Filename: tes</p> <p>c. Time Suffix: xxxxxxxxxxxx(year, month, day, hour, minute, second. 12 digits.)</p> <p>d. Extension Name: bmp(only BMP is available)</p> <p>Therefore, we can get the path E:\tesxxxxxxxxxxxx.bmp</p> <p>2. Enter the path above in macro command</p> <pre>17 \$u10= "e:\tesxxxxxxxxxxxx.bmp".</pre> <p>Note: Because \$u takes 2 characters, the time suffix needs 6 words from \$u13”\$u18.</p>

3. Using the HMI RTC and macro commands to convert to ASCII. The macro commands are as illustrated below:

```
0 IF $u100.0(B)//Trigger Bit of copying image
1 $u30= X2A($S45)//Year BCD to ASCII
2 $U60= $u33<<8
3 $u80= $u60+$u32
4 $u34= X2A($S44)//Day and Mon BCD to ASCII
5 $U61= $u35<<8
6 $u81= $u61+$u34
7 $U62= $u37<<8
8 $u82= $u62+$u36
9 $u38= X2A($S43)//Hour BCD to ASCII
10 $U63= $u41<<8
11 $u83= $u63+$u40
12 $u42= X2A($S42)//Sec and Min BCD to ASCII
13 $U64= $u43<<8
14 $u84= $u64+$u42
15 $U65= $u45<<8
16 $u85= $u65+$u44
```

4. The converted characters will overwrite the path
xxxxxxxxxxx(\$u13"\$u18).

```
18 $u13 = MOV($u80,6)//Time suffix takes 12 bytes
```

5. Then, we use macro command "FILE_IO_N" to save the screen to the image file.

```
20 $U0= FILE_IO_N(36,$U200,$u10)
```

The screen to be saved is variable; therefore, you can control the parameter \$u200.

6. Trigger Bit: use \$u100.0 as the trigger bit.

```
0 IF $u100.0(B)//Trigger Bit of Saving Image
```

Please refer to AP: TA007W.PM2 for more detail information.



Notification: Frequent usage may shorten the lifetime the USB flash drive. It's suggested that you keep a 1 min. interval between each file saving.

Contact Information

If you have any technical problem, please contact us.

OffPeak Technologies LLC
 530 Stonewood Road
 York, PA 17402

717-891-0971
ts@offpeak-solutions.com
www.offpeak-solutions.com