

DSP840

OPOS Driver

Operation Manuals

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Operating System Environment



Figure 1-1.

Display Hardware setting.

DIP switch setting

- A. 0 means DIP switch is at OFF position.
1 means DIP switch is at ON position.
- B. The DSP840's DIP switch setting is **Automatic command mode**, the **SW9&10** should be set to **OFF "0"** position. See figure 2-1.
- C. You must turn off the DSP840 power supply when you changed DIP Switch Setting.

Baud rate setting

- D. The DSP840's Baud Rate should be **19200** and parity, Data bit, Stop bit should be **N, 8, 1**
If you want to set DSP840's baud rate and parity, data bit, stop bit value, please run **DSP840 Utility**. See figure 2-2.
- E. If you want to set **DSP840 OPOS driver's** baud rate value (after install DSP840_OPOS_V1_1_PSW00107.exe), please follow below.
 - 1. Start → Run → Input "regedit", press OK button. See figure 2-3.
 - 2. Select OPOSLineDisplay DSP840's register area, see figure 2-4.
 - 3. Select baud rate property and double-click, input value data is 19200, press OK button.
see figure 2-4.
- F. The DSP840 device and the DSP840 OPOS driver's baud rate, parity, Data bit, stop bit should be the same.



Figure 2-1. DIP Switch is auto.

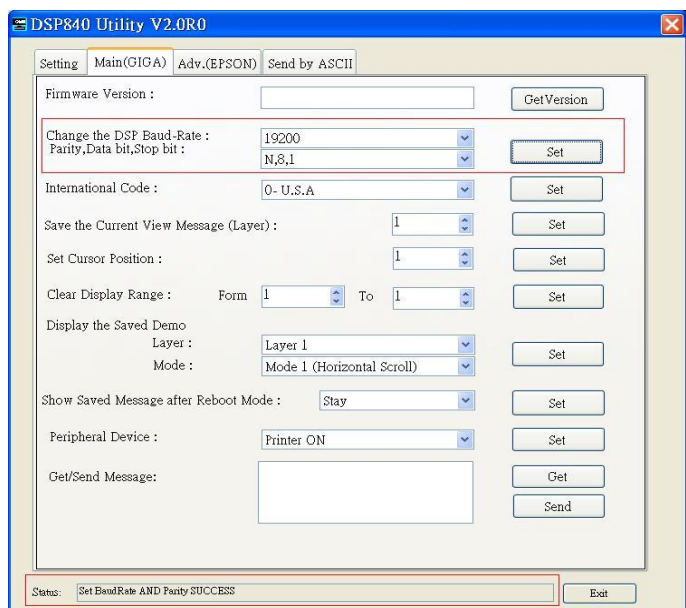


Figure 2-2. DSP840 Utility



Figure 2-3. regedit.

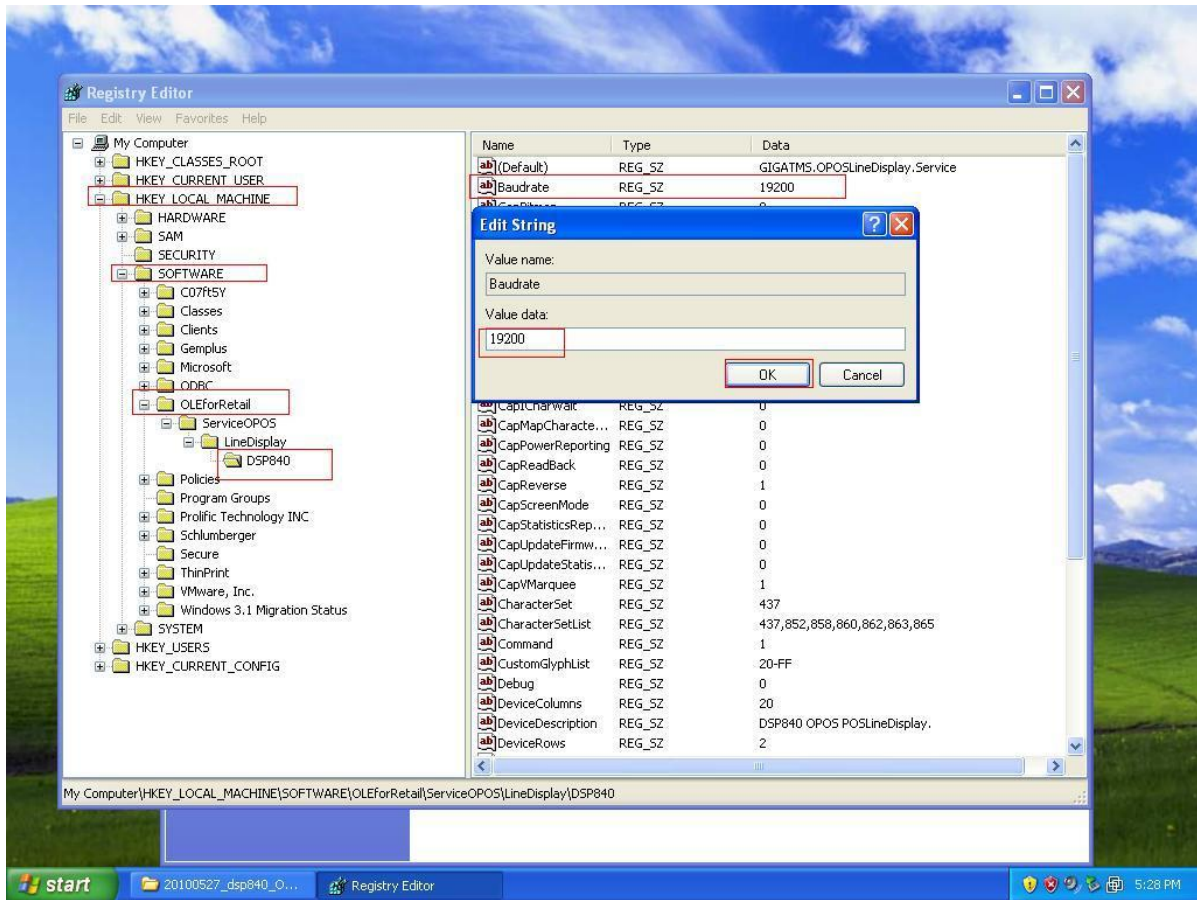


Figure 2-4. baudrate.

Installation software File

- DDSP840_OPOS_V1_1_PSW00107.exe
- A. Double Click DSP840_OPOS_V1_1_PSW00107.exe, see Figure 3-1 ~3-4.

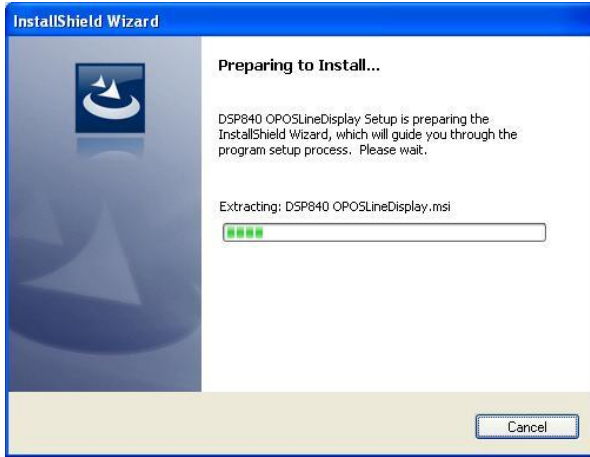


Figure 3-1.



Figure 3-2.



Figure 3-3.



Figure 3-4

Software Manual

A. To run DSP840 OPOSLineDisplay, see figure 4-1.



Figure 4-1.start menu → point to All Programs → point to OPOSLineDisplay Register or Test.

OPOSLineDisplay Register of Demo Software

- A. Start menu, point to All programs, point to GIGA-TMS, point to OPOSLineDisplayRegister and click. see figure 4-1.
- B. The OPOSLineDisplayRegister is a opos register tool.
- C. the “Control Object” must be selected. See figure 4-2.
- D. Select a DSP840 from device mode name list (left list). See figure 4-2.



Figure 4-2.

- D. Press the “Reg ->” button. See figure 4-2. Show the OPOS Line Display Setting window. See figure 4-3.

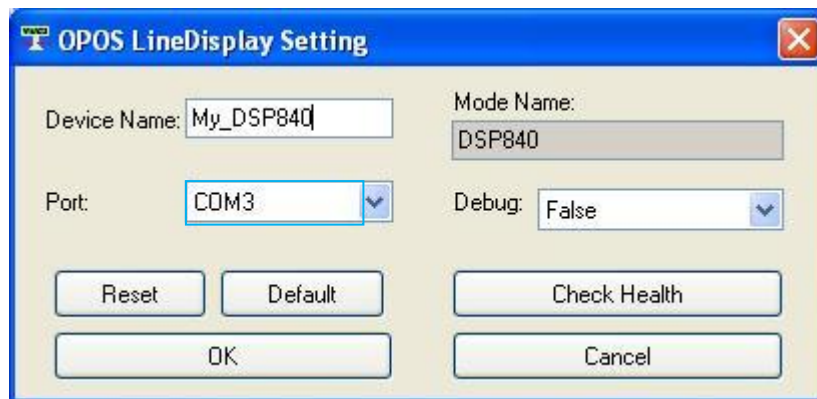


Figure 4-3.

- E. The device name can modify. See figure 4-3.
- F. Select a com port used to connect the device to the computer. See figure 4-3..
- G. If press the “Reset” button, the device name and port will return to the original storage value. See figure 4-3.
- H. If press the “Default” button, the device name and port will return to default value. See figure 4-3..
- I. Press the “Check Health” button, check the device and computer’s connection health status. See figure 4-3..
 - 1. When connection is health the SUCCESS message dialog will be display. See figure 4-4..

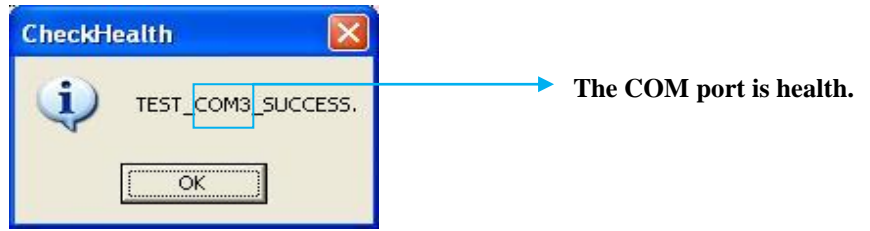


Figure 4-4..

2. When connection is failure the ERR message dialog will be display. See figure 4-5..

Example:

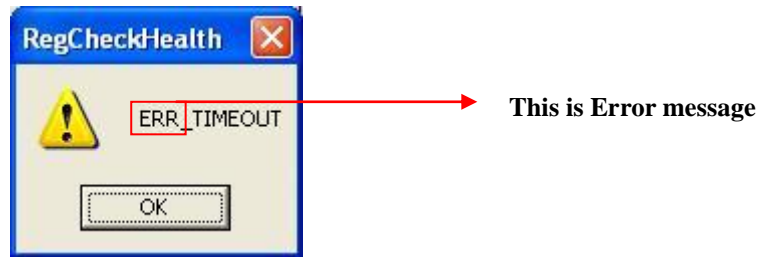


Figure 4-5.

- J. Press “Cancel” button, cancel the device register. See figure 4-3.
- K. Press “OK” button, the device register is completed. See figure 4-3.
- L. The Debug value is false, unless you have a good reason to change it. See figure 4-3.
- M. When the device already registered completed . You could also double click device name from device name list (right list), then modify device register relatively parameter. See figure 4-6.
- N. Press “Exit” button, close “OPOSLineDisplayRegister”. See figure 4-6.



Figure 4-6.

OPOS LindDisplayTesterSample of Demo Software

- A. Start menu, point to All programs, point to GIGA-TMS, point to OPOSLineDisplayTest and click.
- B. Select a Device Name.

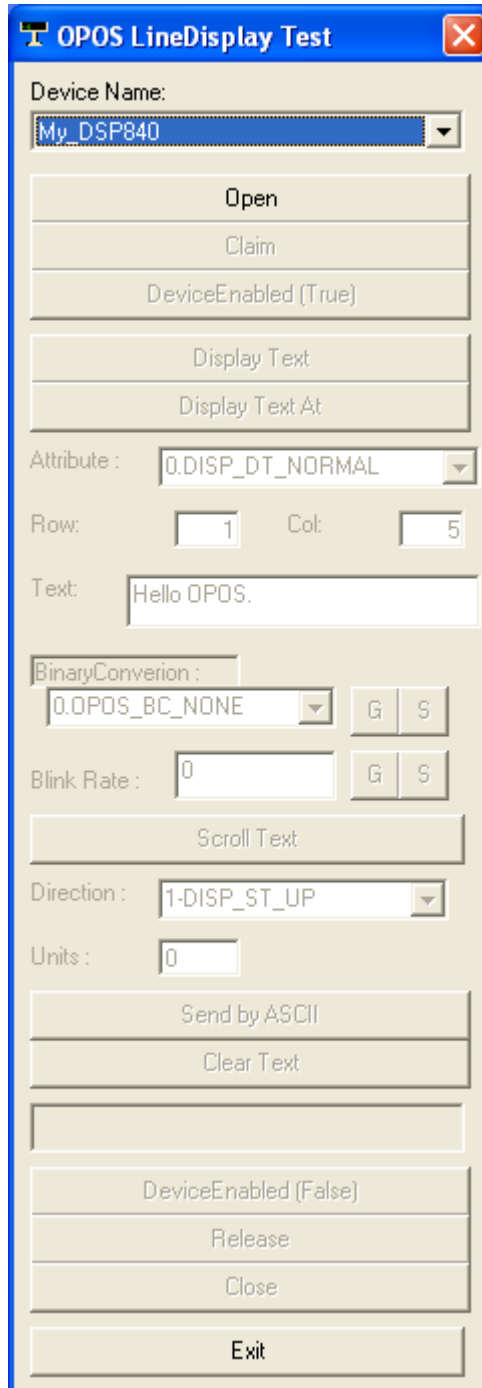
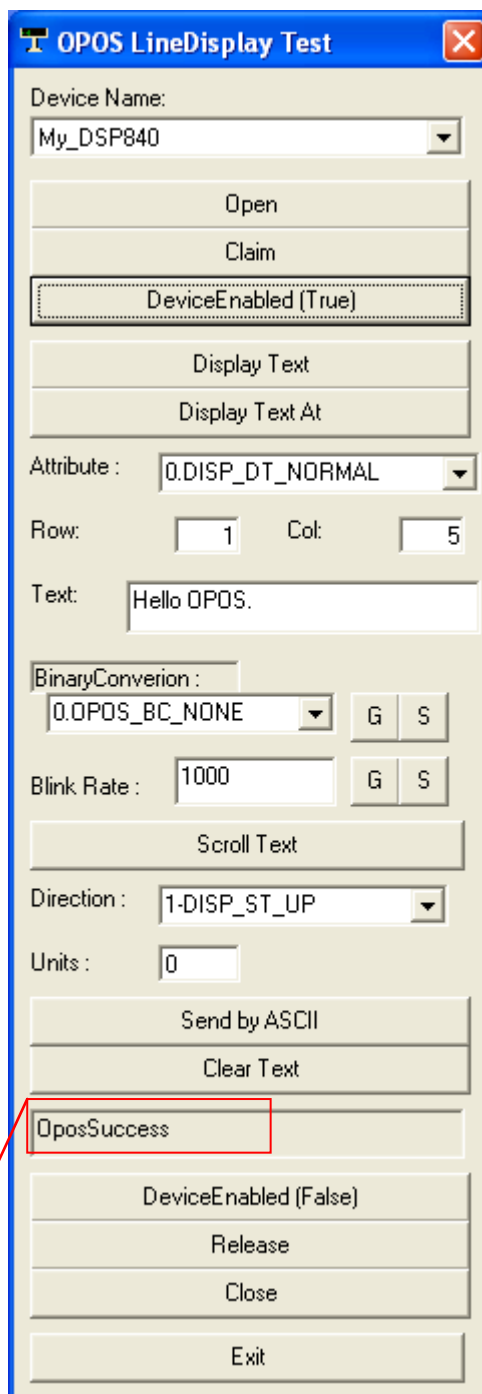


Figure 5-1.

- C. Start Test.
 - step1. Press “Open” button, Open Control Object.
 - step2. Press “Claim” button, Exclusive access to device.
 - step3. Press “DeviceEnabled(True)” button, Device will be put into operational state.



Result Message

Figure 5-2.

D. Operation “POSLineDisplayTest”

- Press “Display Text” button, Transmit the current Text message to display.
- Press “Display Text At” button, Transmit the current Text message to Row and Col position in display.
- Press “Clear Text” button, Clear specific display area.

E. DirectIO for Specific Device.

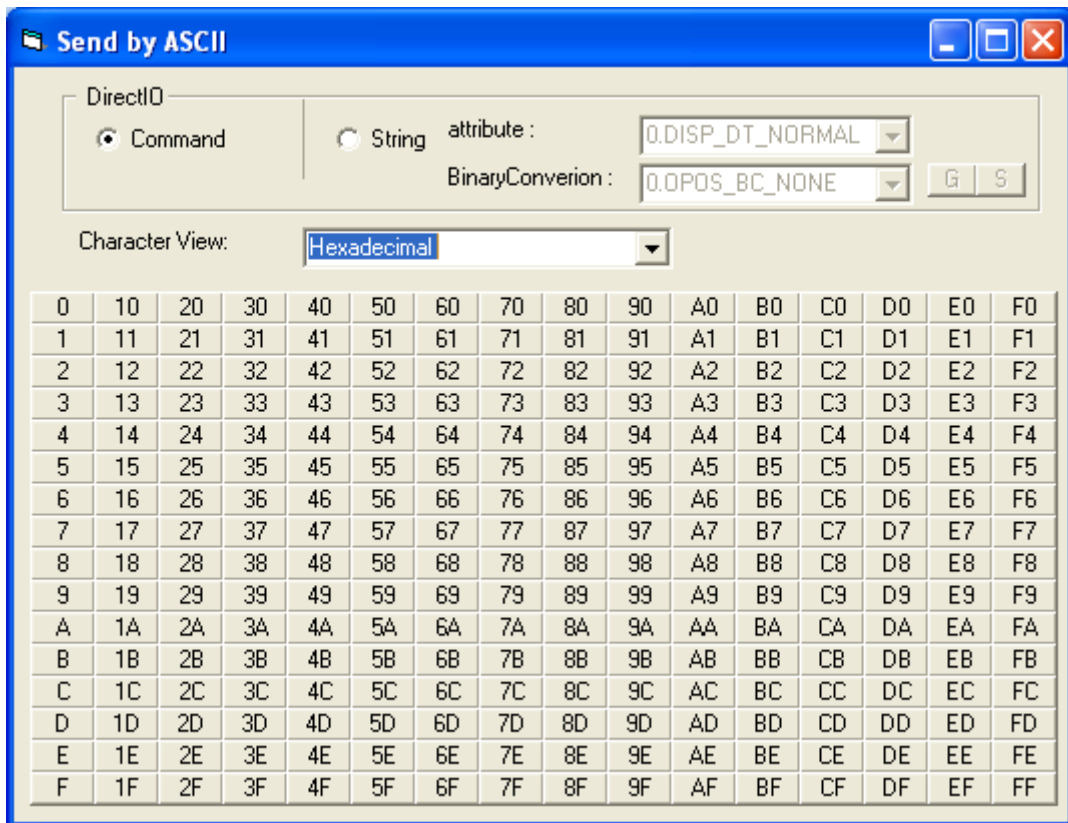


Figure 5-3.

- If you choice **Command** option box, input decimal numbers not be save to current window buffer.
- If you choice **String** option box, input decimal numbers will be save to current window buffer in **cursorRow** and **cursorColumns** position.

F. Close Test.

- step1. Press “**DeviceDisabled(False)**” button, Device will be put into non- operational state.
- step2. Press “**Release**” button, Release the device to share it with another device control object.
- step3. Press “**Close**” button, if application finishes using the device, it should call the close.

Test MSPOS09 and DSP840 OPOS driver.

Please first install the dsp840 OPOS driver.



Figure 6-1. run MSPOS09.

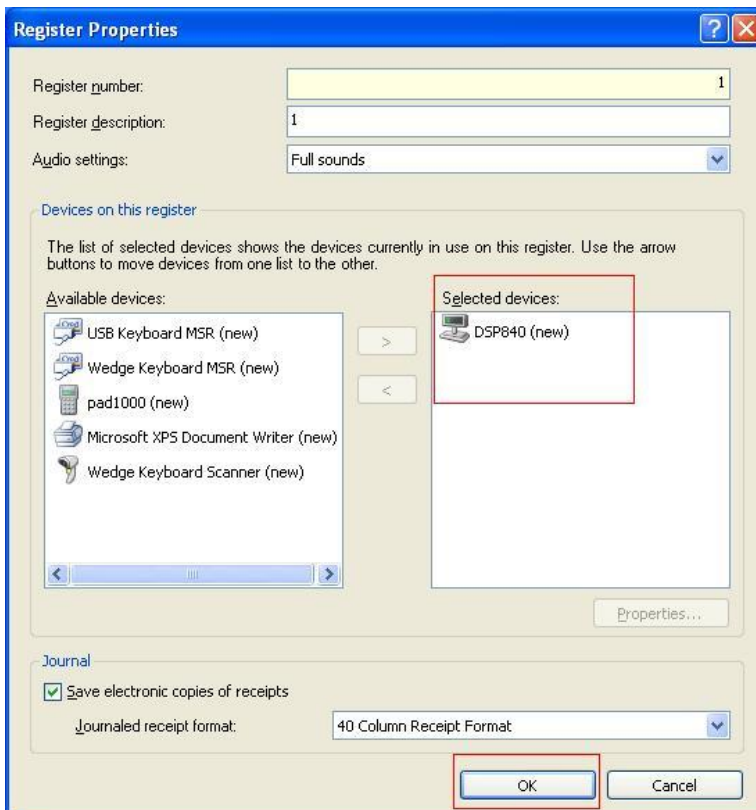


Figure 6-2. select DSP840(or your device name)device.

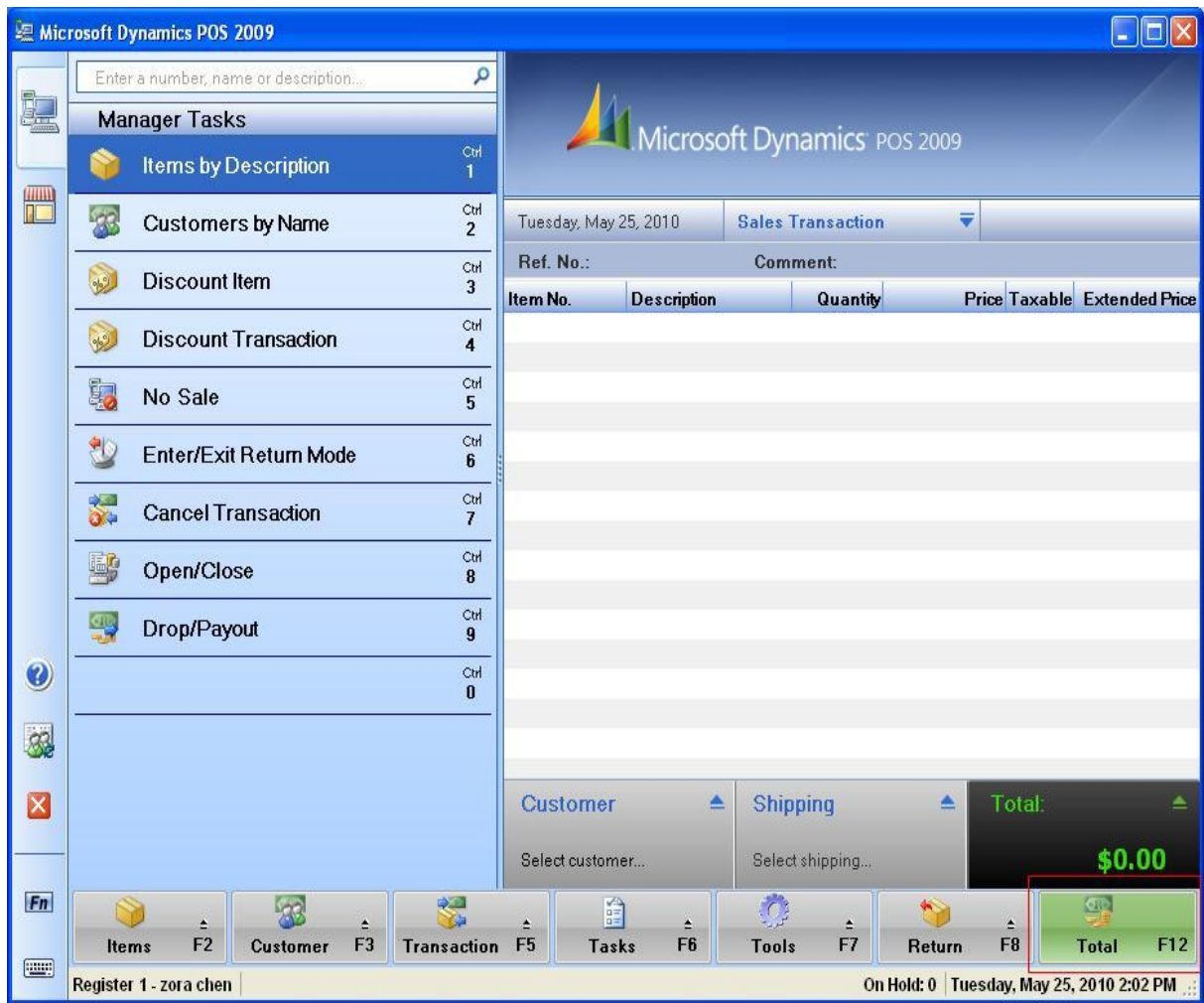


Figure 6-3. MSPOS09 Screen.

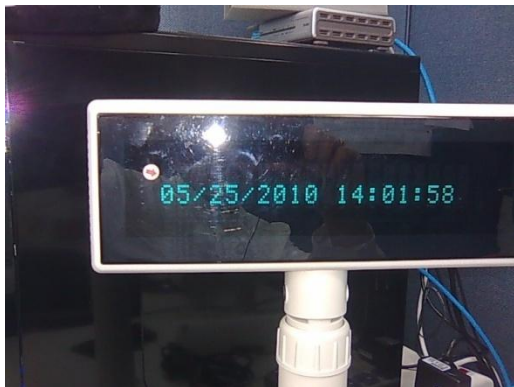


Figure 6-4. Device Screen after run MSPOS09.

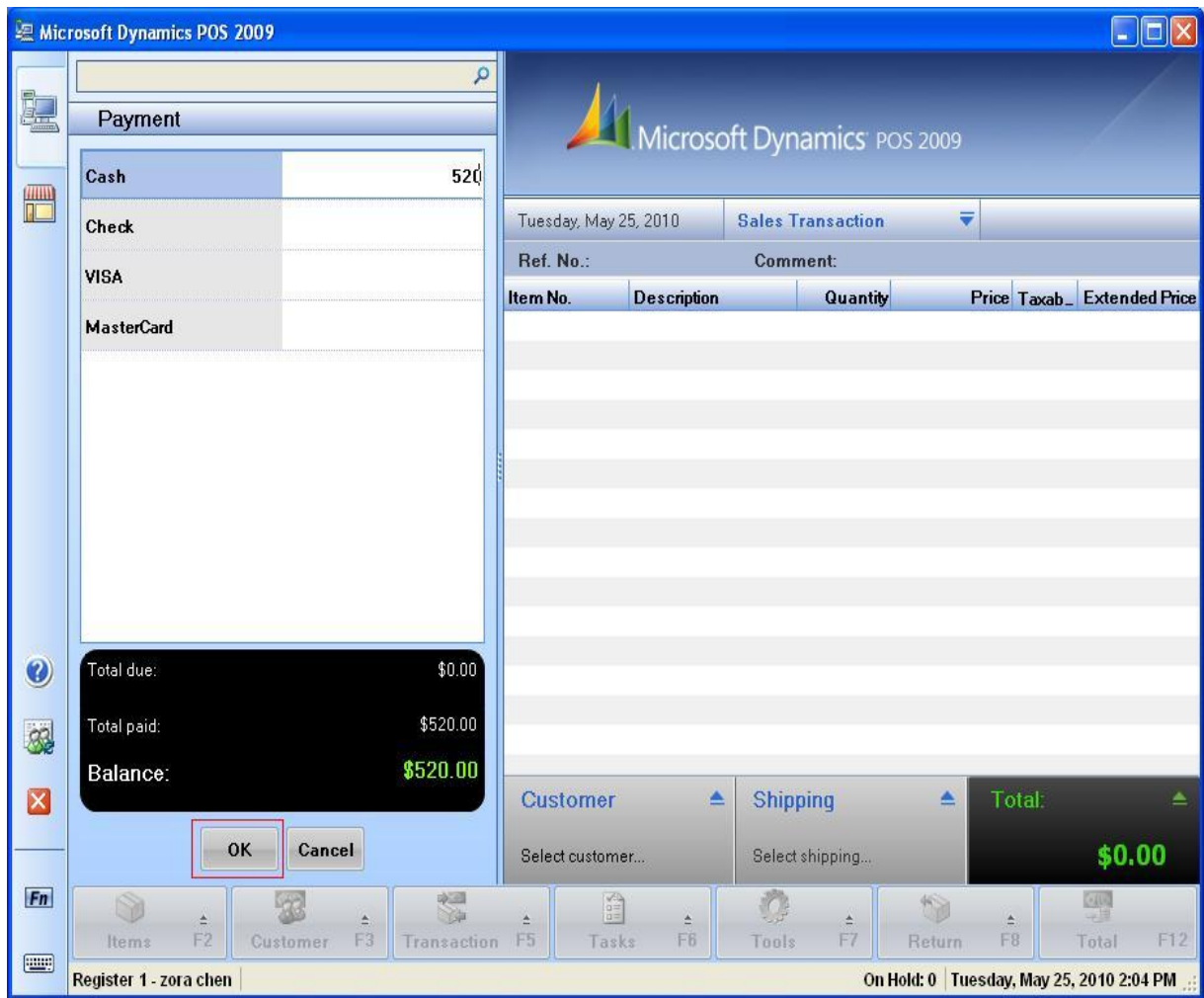


Figure 6-5. Input cash value.



Figure 6-6. Device screen after press "Total F12" button.



Figure 6-7. Device screen after press OK button.



Figure 6-8. MSPOS09 show dialog after press OK button.

The Device screen is the same figure 20.



Figure 6-9. Device screen after close MSPOS09.

Device Name:

Type	Category (*1)	Type	Name	Mutability	OPOS APG Ver.	DSP840 SO	Not Applicable Reason*
Properties	common	bool	AutoDisable	R/W	1.2	Not Applicable	
	common	long	BinaryConversion	R/W	1.2	Supported	
	common	bool	CapCompareFirmwareVersion	Read Only	1.9	Not Applicable	
	common	long	CapPowerReporting	Read Only	1.3	Not Applicable	1
	common	bool	CapStatisticsReporting	Read Only	1.8	Not Applicable	1
	common	bool	CapUpdateFirmware	Read Only	1.9	Not Applicable	
	common	bool	CapUpdateStatistics	Read Only	1.8	Not Applicable	1
	common	string	CheckHealthText	Read Only	1.0	Supported	
	common	bool	Claimed	Read Only	1.0	Supported	
	common	long	DataCount	Read Only	1.2	Not Applicable	
	common	bool	DataEventEnabled	R/W	1.0	Not Applicable	
	common	bool	DeviceEnabled	R/W	1.0	Not Applicable	
	common	bool	FreezeEvents	R/W	1.0	Not Applicable	
	common	long	OpenResult	Read Only	1.5	Not Applicable	
	common	long	OutputID	Read Only	1.0	Not Applicable	
	common	long	PowerNotify	R/W	1.3	Not Applicable	1
	common	long	PowerState	Read Only	1.3	Not Applicable	1
	common	long	ResultCode	Read Only	1.0	Supported	
	common	long	ResultCodeExtended	Read Only	1.0	Not Applicable	
	common	long	State	Read Only	1.0	Supported	
	common	string	ControlObjectDescription	Read Only	1.0	Supported	
	common	long	ControlObjectVersion	Read Only	1.0	Supported	
	common	string	ServiceObjectDescription	Read Only	1.0	Supported	
	common	long	ServiceObjectVersion	Read Only	1.0	Supported	
	common	string	DeviceDescription	Read Only	1.0	Supported	
	common	string	DeviceName	Read Only	1.0	Supported	
	Specific	int32	CapBlink	Read Only	1	Supported	
	Specific	bool	CapBitmap	Read Only	1.7	Not Applicable	1 + 2
	Specific	bool	CapBlinkRate	Read Only	1.6	Supported	1
	Specific	bool	CapBrightness	Read Only	1	Supported	1
	Specific	long	CapCharacterSet	Read Only	1	Supported	
	Specific	long	CapCursorType	Read Only	1.6	Not Applicable	1
	Specific	bool	CapCustomGlyph	Read Only	1.6	Not Applicable	1
	Specific	bool	CapDescriptors	Read Only	1	Not Applicable	1 + 2
	Specific	bool	CapHMarquee	Read Only	1	Not Applicable	1

	Specific	bool	CapICharWait	Read Only	1	Not Applicable	1
	Specific	bool	CapMapCharacterSet	Read Only	1.7	Not Applicable	1
	Specific	long	CapReadBack	Read Only	1.6	Not Applicable	1
	Specific	long	CapReverse	Read Only	1.6	Supported	1
	Specific	bool	CapScreenMode	Read Only	1.7	Not Applicable	1
	Specific	bool	CapVMarquee	Read Only	1	Not Applicable	1
	Specific	long	BlinkRate	R/W	1.6	Supported	1
	Specific	long	CharacterSet	R/W	1	Supported	
	Specific	string	CharacterSetList	Read Only	1	Supported	
	Specific	long	Columns	Read Only	1	Supported	
	Specific	long	CurrentWindow	R/W	1	Not Applicable	1
	Specific	long	CursorColumn	R/W	1	Supported	
	Specific	long	CursorRow	R/W	1	Supported	
	Specific	long	CursorType	R/W	1.6	Not Applicable	1
	Specific	bool	CursorUpdate	R/W	1	Not Applicable	1
	Specific	string	CustomGlyphList	Read Only	1.6	Not Applicable	
	Specific	long	DeviceBrightness	R/W	1	Not Applicable	1
	Specific	long	DeviceColumns	Read Only	1	Supported	
	Specific	long	DeviceDescriptors	Read Only	1	Not Applicable	1 + 2
	Specific	long	DeviceRows	Read Only	1	Supported	
	Specific	long	DeviceWindows	Read Only	1	Not Applicable	1
	Specific	long	GlyphHeight	Read Only	1.6	Supported	
	Specific	long	GlyphWidth	Read Only	1.6	Supported	
	Specific	long	InterCharacterWait	R/W	1	Not Applicable	1
	Specific	bool	MapCharacterSet	R/W	1.7	Not Applicable	1
	Specific	long	MarqueeFormat	R/W	1	Not Applicable	1
	Specific	long	MarqueeRepeatWait	R/W	1	Not Applicable	1
	Specific	long	MarqueeType	R/W	1	Not Applicable	1
	Specific	long	MarqueeUnitWait	R/W	1	Not Applicable	1
	Specific	long	MaximumX	Read Only	1.7	Not Applicable	1
	Specific	long	MaximumY	Read Only	1.7	Not Applicable	1
	Specific	long	Rows	Read Only	1	Supported	
	Specific	long	ScreenMode	R/W	1.7	Not Applicable	1 + 2
	Specific	string	ScreenModeList	Read Only	1.7	Not Applicable	1 + 2
Methods	common		Open		1.0	Supported	
	common		Close		1.0	Supported	
	common		Claim		1.0	Supported	
	common		ClaimDevice		1.5	Supported	
	common		Release		1.0	Supported	

	common	ReleaseDevice		1.5	Supported	
	common	CheckHealth		1.0	Supported	
	common	ClearInput		1.0	Not Applicable	
	common	ClearInputProperties		1.10	Not Applicable	
	common	ClearOutput		1.0	Not Applicable	
	common	DirectIO		1.0	Not Applicable	1
	common	CompareFirmwareVersion		1.9	Not Applicable	
	common	ResetStatistics		1.8	Not Applicable	1
	common	RetrieveStatistics		1.8	Not Applicable	1
	common	UpdateFirmware		1.9	Not Applicable	1
	common	UpdateStatistics		1.8	Not Applicable	
	Specific	ClearText		1	Supported	
	Specific	DisplayText		1	Supported	
	Specific	DisplayTextAt		1	Supported	
	Specific	ScrollText		1	Not Applicable	
	Specific	ClearDescriptors		1	Not Applicable	1 + 2
	Specific	SetDescriptor		1	Not Applicable	1 + 2
	Specific	CreateWindow		1	Not Applicable	1
	Specific	DestroyWindow		1	Not Applicable	1
	Specific	RefreshWindow		1	Not Applicable	1
	Specific	DefineGlyph		1.6	Not Applicable	
	Specific	ReadCharacterAtCursor		1.6	Supported	
	Specific	DisplayBitmap		1.7	Not Applicable	1 + 2
	Specific	SetBitmap		1.7	Not Applicable	1 + 2
Events	common	DataEvent		1.0	Not Applicable	
	common	DirectIOEvent		1.0	Not Applicable	2
	common	ErrorEvent		1.0	Not Applicable	
	common	OutputCompleteEvent		1.0	Not Applicable	
	common	StatusUpdateEvent		1.0	Not Applicable	

*Not Applicable Reason

1- Hardware not support

2- DM-D110 not support