

APPLICATION MANUAL



Applications for M3 Mobile Devices

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www.m3mobile.net


APPLICATION MANUAL



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Flash Disk Version Information 

VERSION INFORMATION

Ver 1.0.0 (20120113)

MODULE	PROGRAM	VERSION	DATE
StartUp	M3INIT.exe(CE)	Ver 1.3.0	2012-01-13
	McStart.exe(WM)	Ver 1.5.0	2012-01-13
	VisualINI.CAB(WM)	Ver 1.5.0	2012-01-13
SCANNER (Software Decoder)	ScanEmul.exe	Ver 1.0.0	2012-01-13
	Scanner.dll	Ver 1.0.0	2012-01-13
IMAGER	ImagerEmul.exe	Ver 1.0.0	2012-01-13
	Imager.dll	Ver 1.0.0	2012-01-13
Long-Range Scanner	LRScanEmul.exe	Ver 1.0.0	2012-01-13
	LRScanner.dll	Ver 1.0.0	2012-01-13
CAMERA	Camera.exe	Ver 1.0.0	2012-01-13
	CAM.dll	Ver 1.0.0	2012-01-13
RFID	RfidEmul.exe	Ver 2.0.0	2012-01-13
	CFReader.dll	Ver 4.1.1	2012-01-13
WLanTray	WLanTray.exe	Ver 1.0.1	2010-10-12
GPS	GPSManager.exe	Ver 1.0.0	2012-01-13
	GPS.dll	Ver 1.0.0	2012-01-13
PRINTER	Printer.exe	Ver 1.0.0	2012-01-13
AppCenter	M3AppCenterCe.exe	Ver 1.1.0	2012-01-13
	M3AppCenterWm.exe	Ver 1.2.0	2012-01-13

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CHAPTER 1. STARTUP GUIDE

Product	Model	Type	OS	Note
M3 SKY	MC-7XX0S	StartUp	WM 6.1/6.5	
MM3	MC-8000S	StartUp	WM 6.1	
M3 ORANGE	M3 ORANGE	StartUp	WM 6.5	

1.1 StartUp.inf

In StartUp.inf, user can write commands to copy, move or delete files, or to create folder, shortcut to a specific application or registry values. Moreover, DLL register, unregister and auto run of an executable file is also possible.

Here is an example of CopyFile.

```
CopyFile=/H "\\Flash Disk\Scanner\KScanBar.dll" "\\Pages\KScanBar_TEST.dll"
```

This command will copy KScanBar.dll which is located in \ Flash Disk \ Scanner folder to \ Pages folder and rename it to **KScanBar_TEST.dll** after hard reset (/H command, /S is used for soft reset).

For all commands (copy, delete, etc.), user can select when to execute the command; after hard reset or soft reset. In addition, for copy and move commands, user can rename the file as show in the above example.

Command structure and example is described below:

```
// CopyFile=[execute type] [path to original file] [path to copy]
Eg: Example shown above.
// MoveFile=[execute type] [path to original file] [path to move]
Eg: MoveFile=/s "\\My Documents\a.cab" "\\Flash Disk\a.cab"
//DeleteFile=[execute type] [path to the file to delete]
Eg: DeleteFile=/H "\\Flash Disk\a.lnk"
//CreateFolder=[execute type] [path to the folder to create]
Eg: CreateFolder=/h "\\My Documents\hardreset"
//ShortCut=[execute type] [path to original file] [path to the quick link]
Eg: ShortCut=/s "\\Flash Disk\a.exe" "\\My Documents\a.lnk"
//RegSetValue=[execute type] [data type (string, dword, etc)] [[path] : value]
Eg: RegSetValue=/s string [HKEY_CURRENT_USER\MCSSetting\Scanner]test : "test"
Eg: RegSetValue=/s dword [HKEY_CURRENT_USER\MCSSetting\Scanner]intTest : 68
```

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1.2 M3.ini

If you open **M3.ini** file with Notepad, you will see the following lines at the top of the page. These lines show compatible devices and version information.

```
// M3SKY / MM3 / M3ORANGE
// Ver 1.5.0 Build:2012.01.13 Copyright 2011 M3Mobile, All Right reserved.
```

If not commented separately, '**0**' represents disable and '**1**' represents enable.

```
[SCANNER]
AutoON=0
ExeFile=\Flash Disk\Scanner\ScanEmul.exe
```

Setting AutoOn value to '**1**' will start **ScanEmul** automatically after soft/hard reset.

```
[RFID]
AutoON=0
ExeFile=\Flash Disk\RF_ID\RfidEmul.exe
```

Setting AutoOn value to '**1**' will start **RfidEmul** automatically after soft/hard reset.

```
[APPCENTER]
AutoON=0
ExeFile=\Flash Disk\AppCenter\M3AppCenterWm.exe
```

Setting AutoOn value to '**1**' will start **AppCenter** automatically after soft/hard reset.

```
[WLAN]                [BLUETOOTH]           [PHONE]
AutoON=0              AutoON=0              AutoON=0
```

Setting AutoOn value to '**1**' will start **WLAN**, **Bluetooth** and phone automatically after hard/soft reset.

```
// Type      - 0:MC7500S, 1:MC7700S, 2:MC7510S, 3:MC7100S, 4:MC7110S, 5:MC8000S,
               6:MC7101S, 7:MC7501S, 8:MC7701S, 9:M3Orange
// Scanner   - 0:opticon scanner, 1:symbol scanner, 2: intermec scanner,
//             3: hhp scanner, 4: codecorp scanner
[DEVICE_TYPE]
Type=0
Scanner=0
```

It is important to set device type correctly to make it work properly. For example, for example, if you are using MC7500 with Intermec scanner, set Type=0 and Scanner=2.

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[REGIONAL]

```
Install=0
PrimaryLanguage=12
SubLanguage=1
```

Users can select primary and sub languages. To make the changed applied, must set install value to '1' and reset the device. Refer to below table for primary and sub languages.

[PrimaryLanguage]

54:Afrikaans	28:Albanian	1:Arabic	43:Armenian
77:Assamese	44:Azeri	45:Basque	35:Belaruslan
69:Bengali	2:Bulgarian	3:Catalan	4:Chinese
26:Croatian	5:Czech	6:Danish	101:Divehi
19:Dutch	9:English	39:Estonian	56:Faeroese
41:Farsi	11:Finnish	12:Frence	55:Georgian
7:German	8:Greek	71:Gujarati	13:Hebrew
57:Hindi	14:Hungarian	15:Icelandic	33:Indonesian
16:Italian	17:Japanese	77:Kannada	96:Kashmiri
63:Kazak	87:Konkani	18:Korean	38:Latvian
39:Lithuanian	47:Macedonian	62:Malay	76:Malayalam
88:Manipuri	78:Marathi	80:Mongolian	97:Nepali
20:Norwegian	72:Oriya	21:Ploish	22:Portuguese
70:Punjabi	24:Romanian	25:Russian	79:Sanskrit
26:Serbian	89: Sindhi	27:Slovak	36:Slovenian
10:Spanish	65:Swahili	29:Swedish	90:Syriac
73:Tamil	68:Tatar	74:Telugu	30:Thai
31:Turkish	34:Ukrainian	32:Urdu	67:Uzbek
42:Vietnamese			

[Sub-Language]

Arabic 1:Arabic (Saudi Arabia), 2:Arabic (Iraq), 3:Arabic (Egypt),
4:Arabic (Libya), 5:Arabic (Algeria), 6:Arabic (Morocco),
7:Arabic (Tunisia), 8:Arabic (Oman), 9:Arabic (Yemen),
10:Arabic (Syria), 11:Arabic (Jordan), 12:Arabic (Lebanon),
13:Arabic (Kuwait), 14:Arabic (U.A.E), 15:Arabic (Bahrain),
16:Arabic (Qatar)

Azeri 1:Azeri (Latin), 2:Azeri (Cyrillic)

Chinese 1:Chinese (Taiwan), 2:Chinese (PR China), 3:Chinese (Hong Kong S.A.R.,
P.R.C.), 4:Chinese (Singapore), 5:Chinese (Macau S.A.R.)

Dutch 1:Dutch, 2:Dutch (Belgian)

English 1:English (USA), 2:English (UK), 3:English (Australian),
4:English (Canadian), 5:English (New Zealand), 6:English (Irish),
7:English (South Africa), 8:English (Jamaica), 9:English (Caribbean),
10:English (Belize), 11:English (Trinidad), 12:English (Zimbabwe),
13:English (Philippines)

French 1:French, 2:French (Belgian), 3:French (Canadian), 4:French (Swiss),
5:French (Luxembourg), 6:French (Monaco)

German 1:German, 2:German (Swiss), 3:German (Austrian),
4:German (Luxembourg), 5:German (Liechtenstein)

Italian 1:Italian, 2:Italian (Swiss)

Kashmiri 2:Kashmiri (India)

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Korean	1:Korean(Extended Wansung)
Lithuanian	1:Lithuanian, 2:Lithuanian(Classic)
Malay	1:Malay(Malaysia), 2:Malay(Brunei Darussalam)
Nepali	1:Nepali(India)
Norwegian	1:Norwegian(Bokmal), 2:Norwegian(Nynorsk)
Portuguese	1:Portuguese(Brazilian), 2:Portuguese
Serbian	1:Serbian(Latin), 2:Serbian(Cyrillic)
Spanish	1:Spanish(Castilian), 2:Spanish(Mexican), 3:Spanish(Modern), 4:Spanish(Guatemala), 5:Spanish(Costa Rica), 6:Spanish(Panama), 7:Spanish(Dominican Republic), 8:Spanish(Venezuela), 9:Spanish(Colombia), 10:Spanish(Peru), 11:Spanish(Argentina), 12:Spanish(Ecuador), 13:Spanish(Chile), 14:Spanish(Uruguay), 15:Spanish(Paraguay),16:Spanish(Bolivia), 17:Spanish(El Salvador), 18:Spanish(Honduras), 19:Spanish(Nicaragua), 20:Spanish(Puerto Rico)
Swedish	1:Swedish, 2:Swedish(Finland)
Urdu	1:Urdu(Pakistan), 2:Urdu(India)
Uzbek	1:Uzbek(Latin), 2:Uzbek(Cyrillic)

[M3SKY_SIDE_KEY]	[M3SKY_SIDE_KEY_QWERTY]	[MM3_SIDE_KEY]
Install=0	Install=0	Install=0
LEFTDOWN=0	Only_SendEnd=0	LEFTSOFT=1
LEFTUP=0	LEFTDOWN=0	RIGHTSOFT=1
RIGHTDOWN=0	LEFTUP=0	SEND=1
RIGHTUP=0	RIGHTDOWN=0	END=1
Blue=0	RIGHTUP=0	GREEN=1
Yellow=0	SOFT1=0	YELLOW=1
SOFT1=0	SOFT2=0	BACKSPACE=1
SOFT2=0	SEND=0	TAB=1
	END=0	ESC=1
	SCAN=0	SHIFT=1
	TAB=0	
	ACTION=0	
	LEFT=0	
	RIGHT=0	
	UP=0	
	DOWN=0	

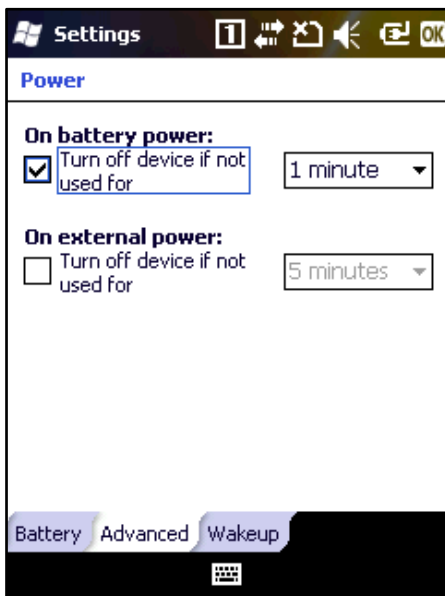
For SKY, SKY QWERTY and MM3, key customization can also be done in **M3.ini**. To make the changes are affected, must set the install value to '1' and reset the device. Make sure you change the right entry and install value of the other device is '0'. For example, changing MM3 values will not work on the other devices. More details on key customization are available on [Support webpage](#).

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```
// PowerTimeout - 0:UnInstall 1:Install
// Timeout - 0:Default=2min 1:1min 2:2min 3:3min 4:4min 5:5min
// ACTimeOut - 0:Default=5min 1:1min 2:2min 3:5min 4:10min 5:15min 6:30min
// CheckTimeOut, CheckACTimeOu - 0:Uncheck 1:Check
[POWER_TIMEOUT]
Install=0
ACInstall=0
CheckTimeOut=0
CheckACTimeOut=0
TimeOut=0
ACTimeOut=0
```

Power_Timeout configures the power options which is also available in

[Start] → [Settings] → [System] → [Power] → [Advanced]



CheckTimeOut=1 checks the checkbox of 'On battery power' and TimeOut sets the time

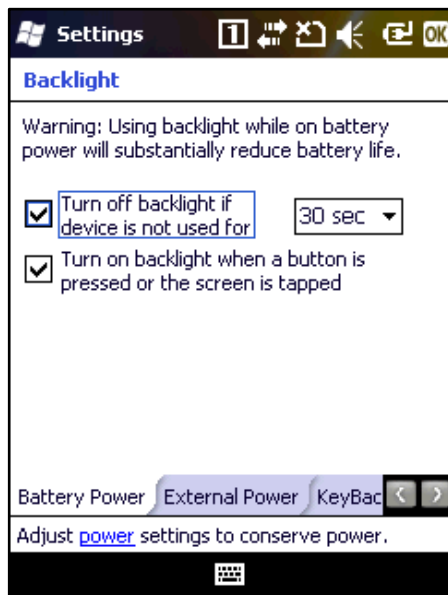
CheckACTimeOut=1 checks the checkbox of 'On external power' and ACTimeOut sets the time

To use these options, make sure that the install value of corresponding item is '1'

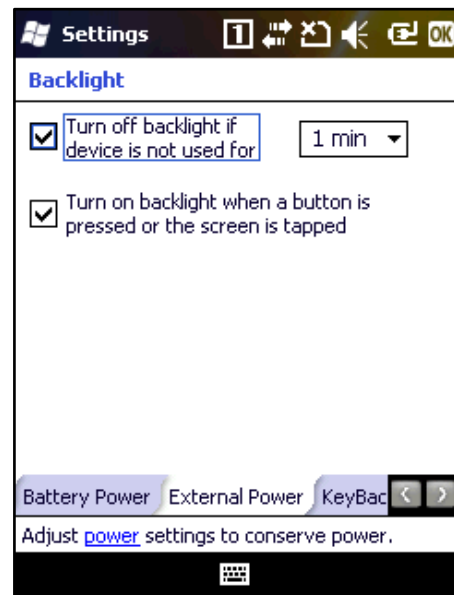
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```
// BackLightTimeOut - 0:UnInstall 1:Install
// TimeOut - 0:Default=30sec 1:10sec 2:30sec 3:1min 4:2min 5:3min 6:4min 7:5min
// ACTimeOut - 0:Default=1min 1:1min 2:2min 3:3min 4:4min 5:5min 6:6min 7:7min
8:8min 9:9min 10:10min
[BACKLIGHT_TIMEOUT]
Install=0
ACInstall=0
CheckTimeOut=0
CheckACTimeOut=0
TimeOut=0
ACTimeOut=0
```

BACKLIGHT_TIMEOUT configures the backlight options which is also available in **[Start]** → **[Settings]** → **[System]** → **[Backlight]**



CheckTimeOut=1 checks the checkbox of 'Turn off backlight...' and TimeOut sets the time.



CheckACTimeOut=1 checks the checkbox of 'Turn off backlight...' in 'External Power' tab and ACTimeOut sets the time.

To use these options, make sure that the install value of corresponding item is '1'

```
// BackLight - 0:UnInstall 1:Install
// Level : 0 - 9
[BACKLIGHT_LEVEL]
Install=0
Level=4
```

BACKLIGHT_LEVEL controls the brightness of the backlight which is also available in **[Start]** → **[Settings]** → **[System]** → **[Backlight]** → **[Brightness]**

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```
// Volume - 0:UnInstall 1:Install
// Mute - 0:UnInstall 1:Install
// Volume / PhoneVolume - 0: 0x00000000 1:0x33333333 2:0x66666666 3:0x99999999
4:0xCCCCCCCC 5:0xFFFFFFFF
[VOLUME]
Install=0
PhoneInstall=0
Volume=3
PhoneVolume=3
Mute=0
```



Volume control option is available in 6 levels as shown in the picture

Volume refers to the device sound (left)

Phone Volume refers to the phone speaker volume (right)

Mute will mute the both device volume and speaker volume (same function as off button at the bottom)

The following options are used to run XML files in startup. File names are fixed to **Network.xml**, **GPRS.xml** and **ProxyServer.xml** for network, GPRS and proxy server respectively. With this option, XML files will automatically setup the connection.

```
[SET_NETWORK] [SET_GPRS] [SET_PROXYSERVER]
Install=0 Install=0 Install=0
```

```
[IE]
Install=0
StartPage=http://www.google.com/pda
```

This option sets the internet homepage.

```
[CAB_INSTALL]
Install=0
InstallFile=\Flash Disk\Driver\Test.CAB
```

User can add CAB file installation in startup after hard/soft reset. If you wish to auto install more than one CAB file, you can add in the same format; for example, **[CAB_INSTALL_2]** and **[CAB_INSTALL_3]**. It supports up to 100 CAB files for auto installation at the startup. However, you need to consider the flash disk size.

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```
[GPRS_INSTALL]
Install=1
InstallFile=\Flash Disk\Driver\WWAN_Manager.CAB
```

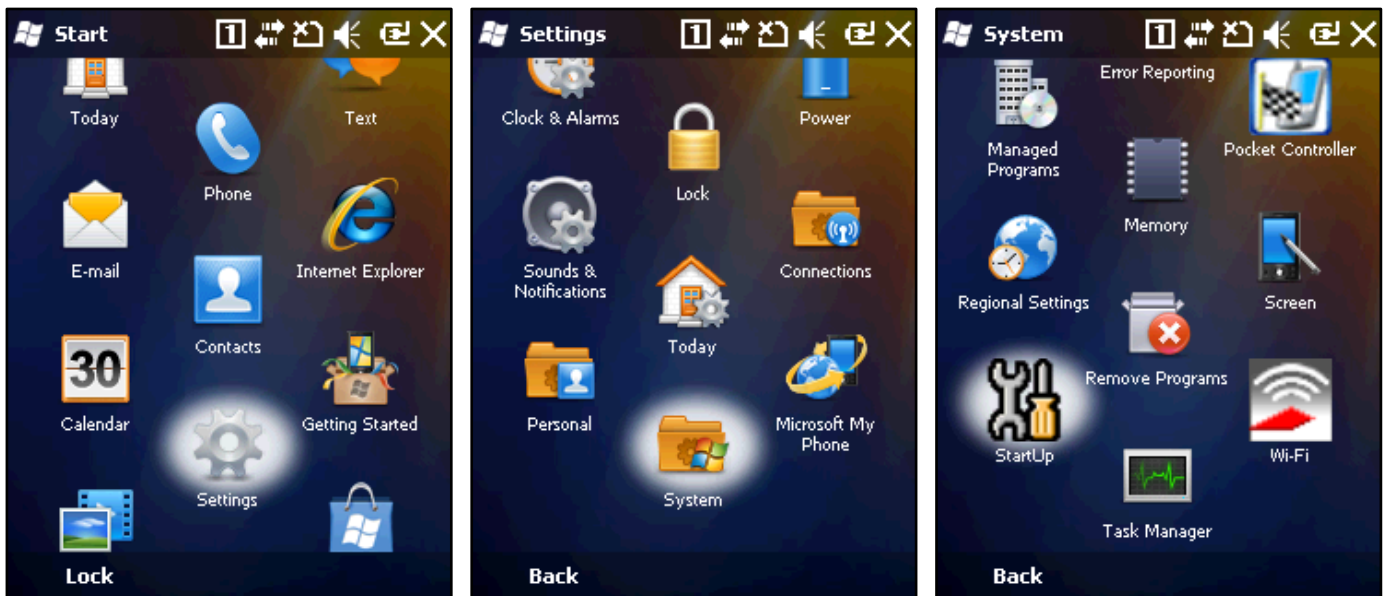
Install WWAN Manager automatically after hard/soft reset.

```
[CF_INSTALL]
Install=0
InstallFile=\Flash Disk\Driver\NETCFv35.wm.armv4i.cab
```

Set the install value to '1' if you wish to install .NET Compact Framework ver. 3.5 automatically after hard/soft reset. NETCF ver. 2.0 is pre-installed on the device.

```
[VISUALINI_INSTALL]
Install=1
InstallFile=\Flash Disk\Driver\VisualINI.CAB
```

Installation options for **VisualINI**. **VisualINI** provides the same controllability as the **M3.ini** but all options can be configured on the device rather than opening with Notepad. You will see 'StartUp' icon in **[Settings]→[System]** as shown in the below picture if **VisualINI** is installed.



There are 13 tabs available in **VisualINI (StartUp)**; **StartUp** tab to DLL tab. More detail on **VisualINI** is available on [Support webpage](#) .

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[REBOOT]

```
Install=0
```

This option controls auto reset when **McStart.exe** is run.

[INI_LOCK]

```
Install=0  
PassWord=M3Mobile
```

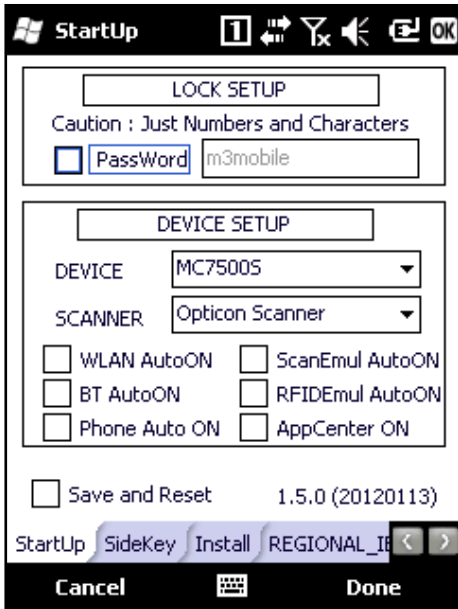
This option assigns password for **VisualINI**.

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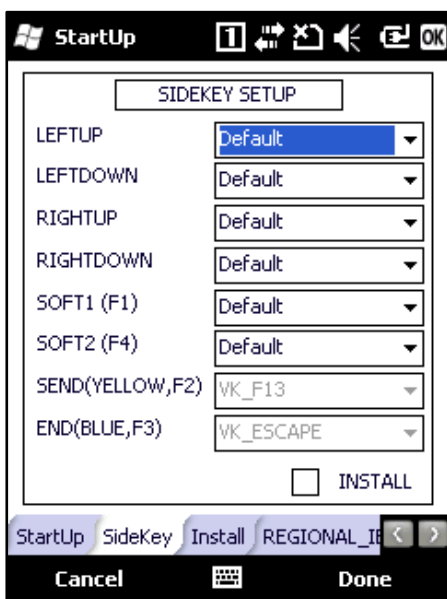
1.3 VisualINI

1. StartUp Page



- **LOCK SETUP:** If Password clicks, password input page will be showed up every time when program starts
 - User can set whether to use password
 - Case-sensitive, non-usable special character
 - Password can be used with alphabet and numbers only.
 - **Initial PassWord:** m3mobile
- **DEVICE SETUP**
 - **DEVICE:** Device model setting
 - **SCANNER:** Device engine type setting
 - **WLAN ON:** Runs **WLAN** automatically when booting.
 - **BT ON:** Runs **Bluetooth** automatically when booting.
 - **Phone ON:** Runs **Phone** automatically when booting.
 - **ScanEmul ON:** Runs **ScanEmul** automatically when booting.
 - **RFIDEmul ON:** Runs **RFIDEmul** automatically when booting.
 - **AppCenter On:** Runs **AppCenter** Automatically when booting
 - **Save and Reset:** Reboots after the Startup setting.

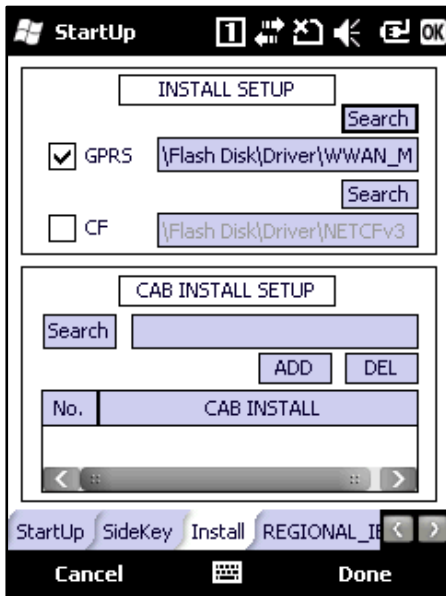
2. SideKey Page



- **SIDEKEY SETUP Page**
- **Key type**
 - **M3SKY:** Default / VK_ESCAPE / VK_F13 / VK_F14 / VK_F16 / VK_F17 / SIP on/off / VK_RETURN
 - **MM3:** None / Default / SIP ON/OFF / VK_APP1 / VK_APP2 / VK_RETURN / VK_CONTROL / VK_SHIFT / VK_ESCAPE / Launch Program1 / Launch Program2 / Launch Program3
- **Install:** Sets up the user-defined SideKey when booting

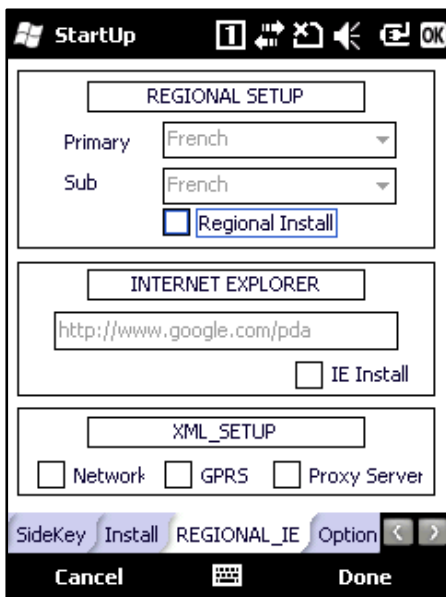
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3. Install Page



- **CAB file setup Page**
- **INSTALL SETUP**
 - **GPRS: WWAN_Manager** installation setting
 - **CF: .Net CF3.5** installation setting
- **CAB INSTALL SETUP**
 - Set up the **CAB** file what user wants to install
 - **Search:** Searches file within folder
 - **ADD:** Adds the selected file to a list box
 - **DEL:** Deletes the selected file in a list box

4. Regional_SetUp Page

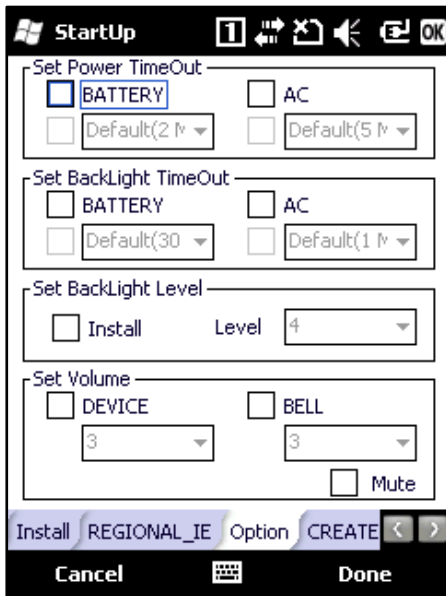


- **Local language and Internet / XML setup Page**
- **REGIONAL SETUP**
 - **Primary:** Major language setup
 - **Sub:** Subsidiary language setup
 - **Regional Install:** whether to apply user defined
- **INTERNET EXPLORER**
 - Internet start page setup
 - **IE Install:** Applies user defined Startup page
- **XML_SETUP**
 - The file name is fixed as **Network.XML/GPRS.XML/ProxyServer.XML**
 - Check the file what user wants to install

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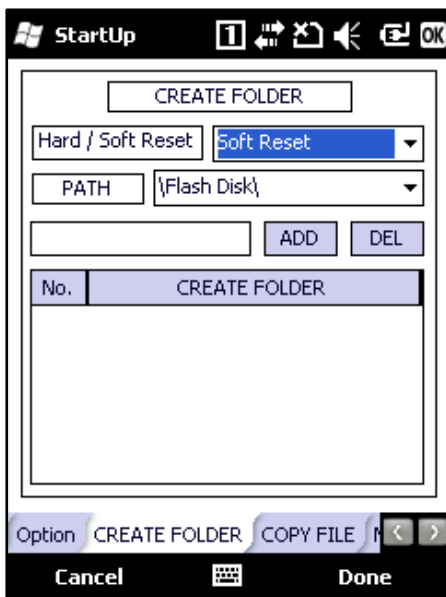


5. Option Page



- **Power / Backlight / Volume setup Page**
- **Power TimeOut**
 - **BATTERY:** Set up the power timeout in using battery
 - **AC:** Set up the power timeout in using AC power
- **BackLight TimeOut**
 - **BATTERY:** Set up the light timeout in using battery
 - **AC:** Set up the light timeout in using AC power
- **BackLight Level:** Set up the backlight level when booting
- **Volume**
 - **DEVICE:** Set up the main volume when booting
 - **BELL:** Set up the call volume when booting
 - **Mute:** Set up the mute when booting

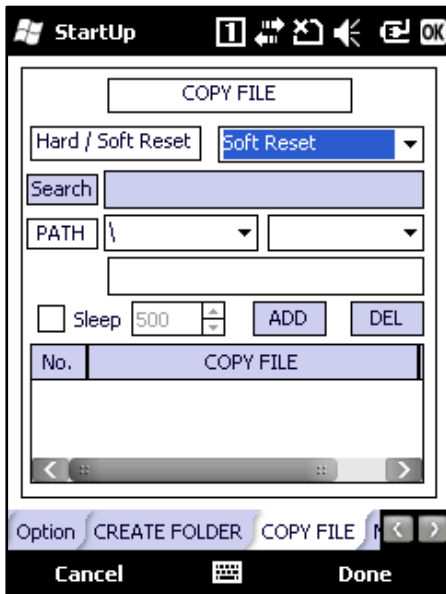
6. Create Folder Page



- **Setup the Create Folder when booting**
- **Hard / Soft Reset:** Set up hard reset / soft reset
- **PATH:** Set up the folder path
- **ADD:** Add folder to a list box
- **DEL:** Delete folder in a list box

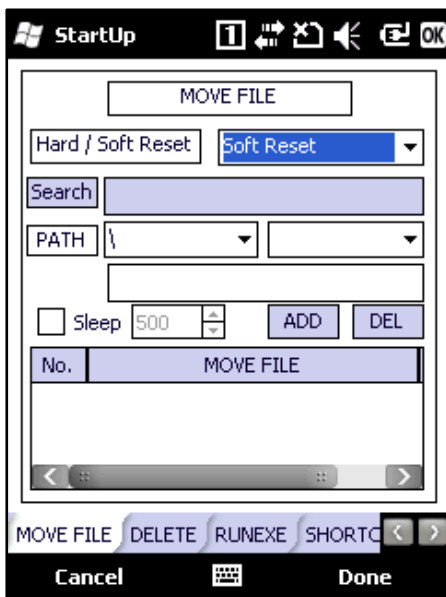
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7. CopyFile Page



- **Setup the Copy file when booting**
- **Hard / Soft Reset:** Set up hard reset / soft reset
- **Search:** Search files to copy
- **PATH:** Set up the file path to be copied
- **Sleep:** Set up sleep time after copy
- **ADD:** Add **Copyfile** to a list box
- **DEL:** Delete **Copyfile** in a list box

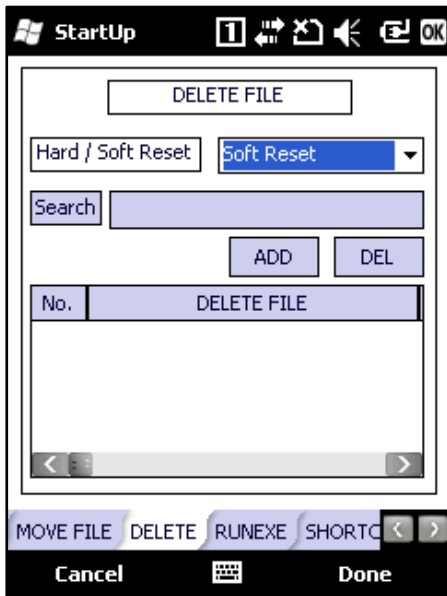
8. MoveFile Page



- **Setup the Move file when booting**
- **Hard / Soft Reset:** Setup hard reset / soft reset
- **Search:** Search file to move
- **PATH:** Set up the file path to be moved
- **Sleep:** Set up sleep time after move
- **ADD:** Add **Movefile** to a list box
- **DEL:** Delete **Movefile** in a list box

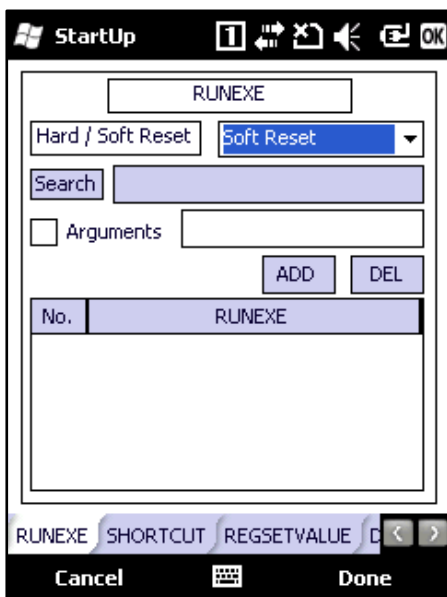
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9. DeleteFile page



- **Setup the Delete file when booting**
- **Hard / Soft Reset:** Setup hard reset / soft reset
- **Search:** Search file to delete
- **ADD:** Add **Deletefile** to a list box
- **DEL:** Delete **Deletefile** in a list box

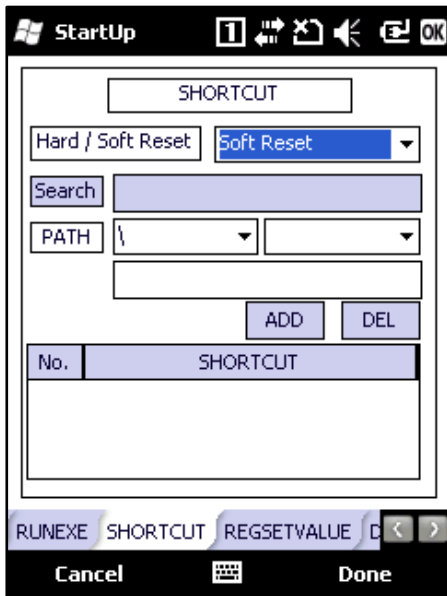
10. RunExe Page



- **Setup the RunExe when booting**
- **Hard / Soft Reset:** Setup hard reset / soft reset
- **Search:** Search file to auto-run
- **Arguments:** Setup auto-run file parameter
- **ADD:** Add **RunExe** to a list box
- **DEL:** Delete **RunExe** in a list box

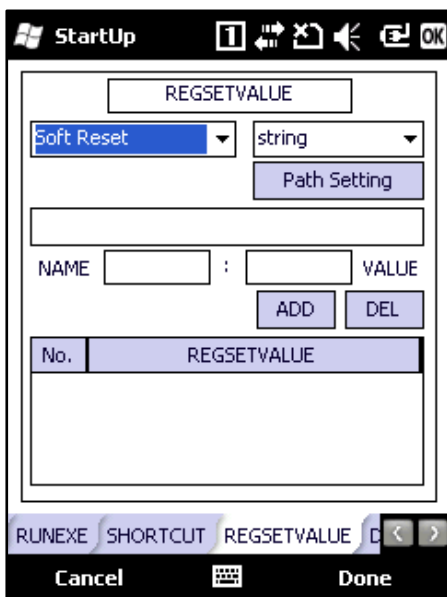
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11. Shortcut Page



- **Setup the ShortCut when booting**
- **Hard / Soft Reset:** Setup hard reset / soft reset
- **Search:** Search file to create the shortcut
- **PATH:** Setup the path to create the shortcut
- **ADD:** Add **ShorCut** to a list box
- **DEL:** Delete **ShortCut** in a list box

12. Regsetvalue Page



- **Setup the Registry value when booting**
- **Hard / Soft Reset:** Setup hard reset / soft reset
- **Path Setting:** Set up the registry path
- **NAME:** Input the registry name
- **VALUE:** Input the registry value
- **ADD:** Add **RegSetValue** to a list box
- **DEL:** Delete **RegSetValue** in a list box

13. DllRegisterServer Page



- **Setup the DLLREGISTERSERVER when booting**
- **Hard / Soft Reset:** Setup hard reset / soft reset
- **Search:** Search **dll** files to register to server
- **ADD:** Add **DllRegisterServer** to a list box
- **DEL:** Delete **DllRegisterServer** in a list box

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CHAPTER 2. SCANNER

Product	Model	Type	OS	Note
M3 GREEN	MC-6XX0S	S/W & H/W Decoder	CE 5.0	Symbol H/W Decoder
M3 SKY	MC-7XX0S	S/W & H/W Decoder	WM 6.1/6.5	Cino H/W Decoder
M3 POS	MC-8800S	S/W Decoder	CE 5.0	
M3 T	MC-6700S/H	S/W Decoder	CE 5.0	
MM3	MC-8000S	S/W Decoder	WM 6.1	
M3 SAMRT	M3 Smart	S/W & H/W Decoder	CE 6.0/WM 6.5	Cino H/W Decoder
M3 ORANGE	M3 Orange	S/W & H/W Decoder	WM 6.5	Cino H/W Decoder

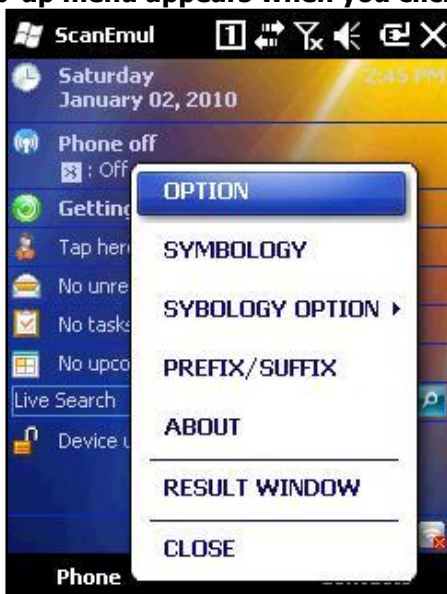
2.1 ScanEmul.exe

1. Main Page



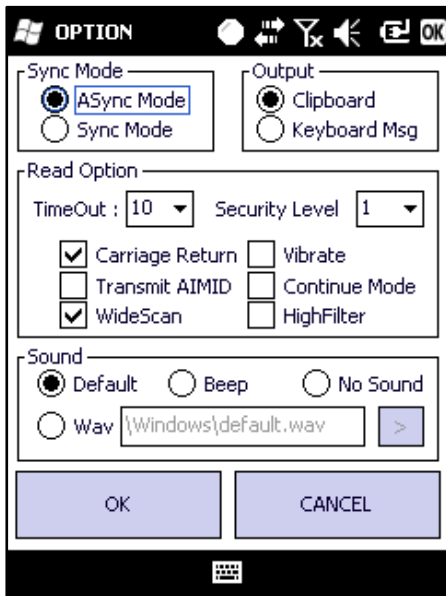
- **ScanEmul** is properly launched if you can see **ScanEmul** tray icon at the bottom

2. Pop-up menu appears when you click the icon



- **Option:** Configures general Emulator options
- **Symbology:** Configures options Regarding Symbology Option
- **Symbology Option:** Configures options Regarding Detail Symbology Option
- **Prefix / Suffix:** Enter data or command at the front or end of barcode data
- **About:** Information of **ScanEmul**
- **Result Window:** Tests reading of barcodes
- **Close:** Close the program

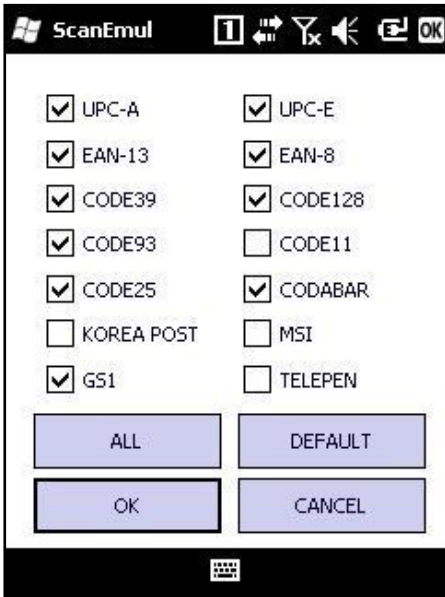
3. Option



- **SyncMode**
 - **ASync:** Emits beam while the scan button is pressed. Limited by the TimeOut
 - **Sync:** Emits beam for TimeOut period
- **Output**
 - **keyboard Msg:** Outputs the result as keyboard type
 - **Clipboard:** Outputs the result to clipboard
- **Reading Option**
 - **Time Out:** Beam emitting duration
 - **Security Level:** Determines how many successful read output the result
Ex) '2' means it needs to successfully read the barcode twice to output the result
 - **Carriage Return:** Send **VK_RETURN** message after read
 - **Vibrate:** Vibrate after a successful scan. Only valid for terminals with phone module
 - **Transmit AIMID:** Output AIM ID of the barcode
 - **Continue Mode:** Emits beam constantly even after reading
 - **Wide Scan:** Controls the width of the beam
 - **High Filter Mode:** Improved filter of scan engine. Improves accuracy but slows decoding
- **Sound**
 - **Default:** default sound after a successful scan
 - **Beep:** Beeps after a successful scan
 - **No Sound:** No sound after a successful scan
 - **Wav:** user defined wav sound

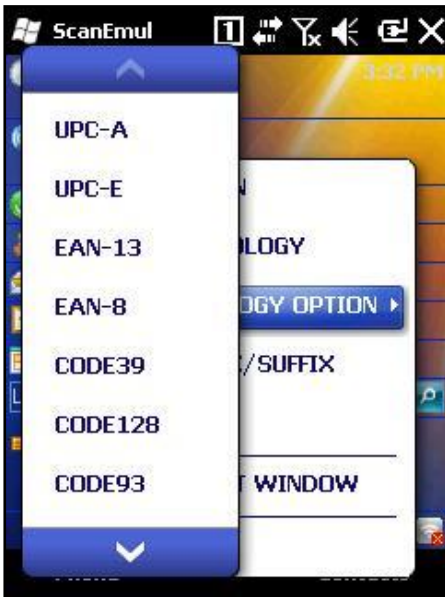
APPLICATION MANUAL

4. Symbology

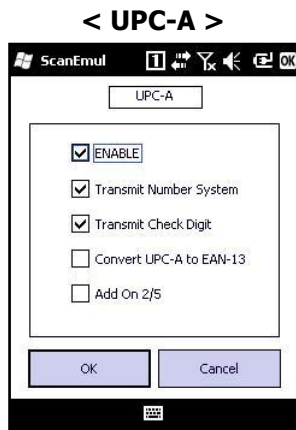


- Enable or disable 14 different types of barcode

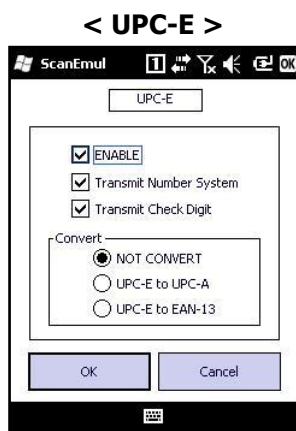
5. Symbology Option



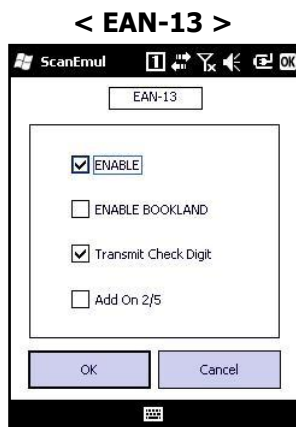
- Advanced configuration for each barcode
- Enter advanced settings for each barcode type by click on them



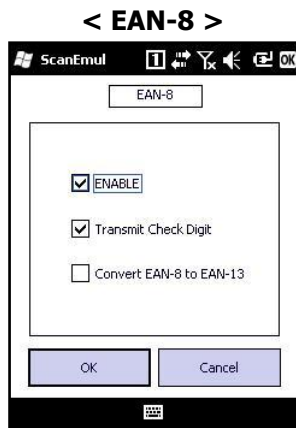
- **ENABLE:** Enable barcode decoding
- **Transmit Number System:** Front most number output option
- **Transmit Check Digit:** Check digit output option
- **Convert UPC-A as EAN-13:** Converts **UPC-A** to **EAN13** by adding '0' at the front
- **Add On 2/5:** Option to read two consecutive barcodes when **UPC-A** types have neighboring additional barcodes (2 and 5 spaces)



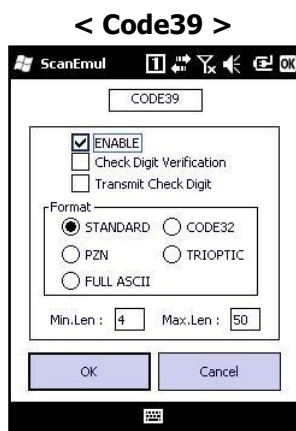
- **ENABLE:** Enable barcode decoding
- **Transmit Number System:** Front most number output option
- **Transmit Check Digit:** Check digit output option
- **Convert option**
 - **NOT CONVERT:** Does not convert barcodes
 - **UPC-E as UPC-A:** Convert to **UPC-A** by inserting '0' in the data
 - **UPC-E as EAN-13:** Convert to **EAN-13** by adding '0' at the front and in the middle of data



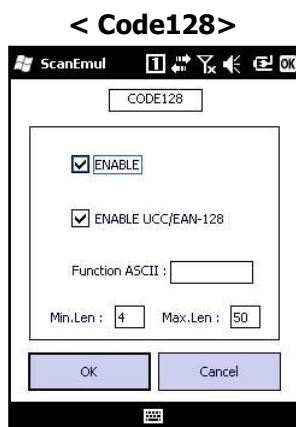
- **ENABLE:** Enable barcode decoding
- **ENABLE BOOKLAND:** Enable **BOOKLAND_EAN** barcodes. When unchecked, it will read **BOOKLAND_EAN** type as simple **EAN-13**
- **Transmit Check Digit:** Check digit output option
- **Add On 2/5:** Option to read two consecutive barcodes when **EAN-13** types have neighboring additional barcodes (2 and 5 spaces)



- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Convert EAN-8 as EAN-13:** convert to **EAN-13** by adding five zeros at the front of the data

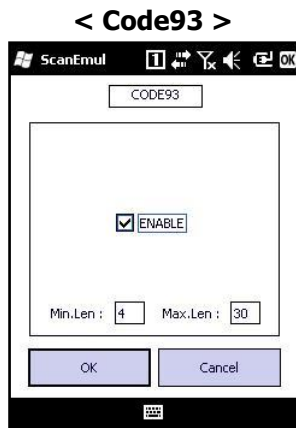


- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option
- **Format**
 - **STANDARD:**
 - **ENABLE CODE32:** Enable **CODE32** barcodes. When selected, it will read **CODE32** type as simple **CODE39**
 - **ENABLE PZN:** Enable **PZN** barcodes. When unchecked, it will read **PZN** type as simple **CODE39**
 - **ENABLE TRIOPTIC:** Enable **TRIOPTIC** barcodes. When unchecked, it will read **TRIOPTIC** type as simple **CODE39**
 - **Full ASCII Conversion:** Outputs the letters when letters are included in the data
- **Min / Max Length:** Minimum and maximum length of the readable data

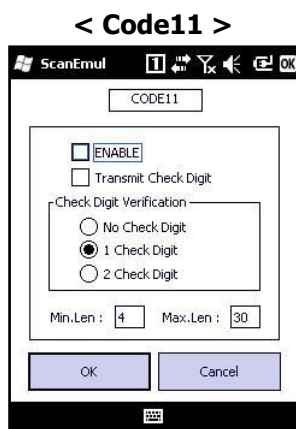


- **ENABLE:** Enable barcode decoding
- **ENABLE UCC/EAN-128:** Enable **UCC/EAN-128** barcodes. When checked, it will read **UCC/EAN-128** type as simple **CODE39**
- **Function ASCII:** Allows the user to insert data for supported types of **CODE128** barcodes
- **Min / Max Length:** Minimum and maximum length of the readable data

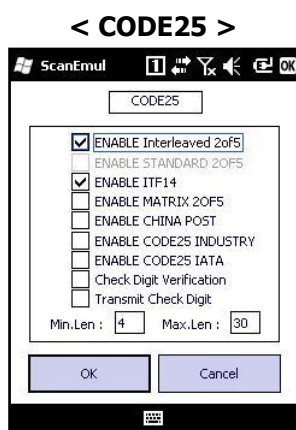
APPLICATION MANUAL



- **ENABLE:** Enable barcode decoding
- **Min / Max Length:** Minimum and maximum length of the readable data

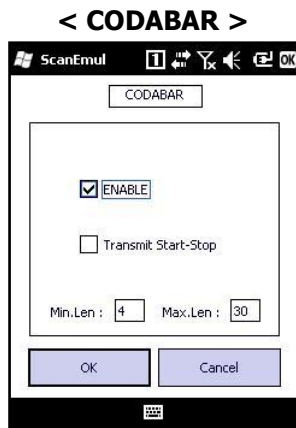


- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Check Digit Verification:** Only decodes the barcode with check digit(s)
- **Min / Max Length:** Minimum and maximum length of the readable data

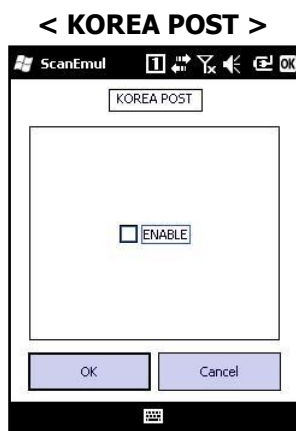


- **ENABLE:** Enable barcode decoding
- **ENABLE ITF14:** Enable **ITF14** barcodes
- **ENABLE MATRIX 2OF5:** Enable **MATRIX 2OF5** barcodes
- **ENABLE DATALOGIC:** Enable **DATALOGIC** barcodes
- **ENABLE INDUSTRY:** Enable **INDUSTRY** barcodes
- **ENABLE IATA:** Enable **IATA** barcodes
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Min / Max Length:** Minimum and maximum length of the readable data

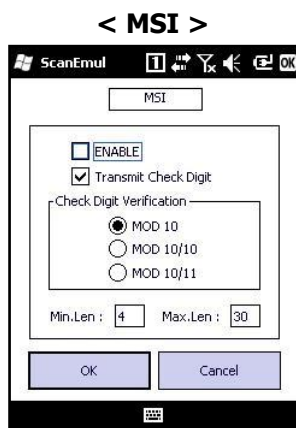
APPLICATION MANUAL



- **ENABLE:** Enable barcode decoding
- **Transmit Start-Stop:** Outputs start-stop bit of **Codabar** type barcodes
- **Min / Max Length:** Minimum and maximum length of the readable data

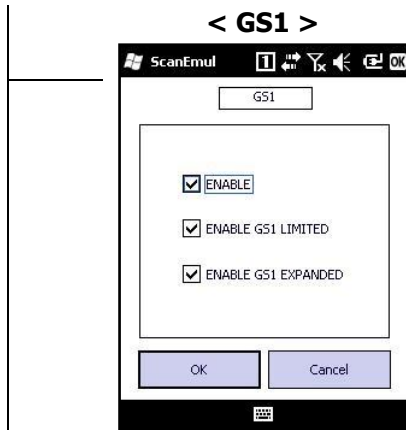


- **ENABLE:** Enable barcode decoding

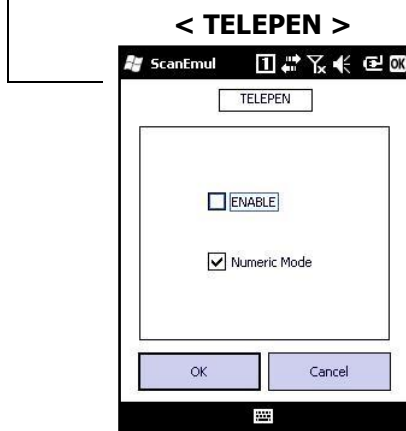


- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Check Digit Verification**
 - **MOD 10**
 - **MOD 10/10**
 - **MOD 10/11**
- **Min / Max Length:** Minimum and maximum length of the readable data

APPLICATION MANUAL



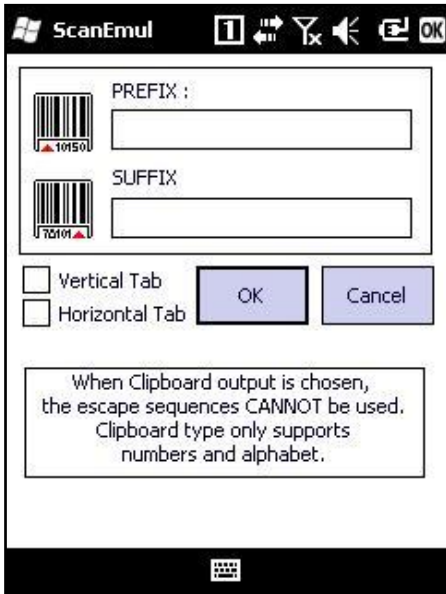
- **ENABLE:** Enable barcode decoding
- **ENABLE GS1 LIMITED:** Enable barcode decoding
- **ENABLE GS1 EXPANDED:** Enable barcode decoding



- **ENABLE:** Enable barcode decoding
- **Numeric Mode:** Enable Numeric Mode

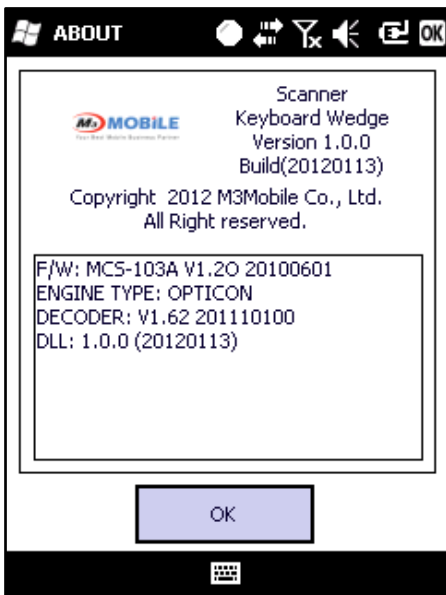
APPLICATION MANUAL

6. Prefix / Suffix



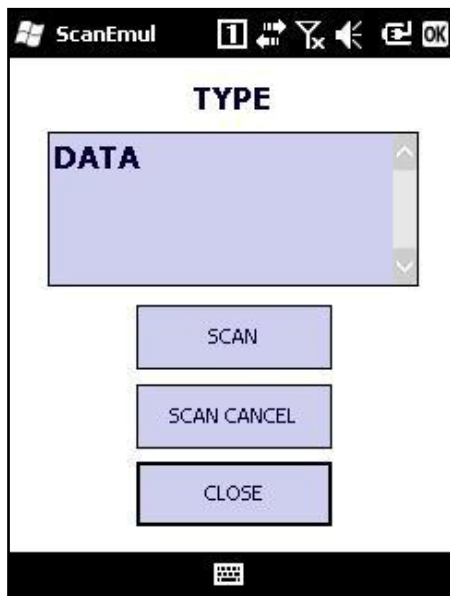
- **Prefix:** Enter data or command at the front of barcode data
- **Suffix:** Enter data or command at the end of barcode data
- **Vertical Tab:** Enables Vertical tab only even in Skip Escape mode
- **Horizontal Tab:** Enables Horizontal tab only even in Skip Escape mode
 - Cannot enter commands if clipboard output is used

7. About



- Shows versions of
 - Firmware
 - Engine Type
 - Decoder
 - DLL

8. Result Window



- BarCode Type and data is displayed
- **Scan:** Start scanning
- **Scan Cancel:** Stop scanning
- **Close:** Close the Display

APPLICATION MANUAL



CHAPTER 3. IMAGER

Product	Model	Type	OS	Note
M3 GREEN	MC-61X0S	S/W Decoder	CE 5.0	
M3 SKY	MC-77X0S	S/W Decoder	WM 6.1/6.5	
M3 POS	MC-8800S	S/W Decoder	CE 5.0	
M3 T	MC-6700S/H	S/W Decoder	CE 5.0	
MM3	MC-8000S	S/W Decoder	WM 6.1	
M3 SAMRT	M3 Smart	S/W Decoder	WM 6.5	
M3 ORANGE	M3 Orange	S/W Decoder	WM 6.5	

3.1 ScanTest.exe

1. First view of the program



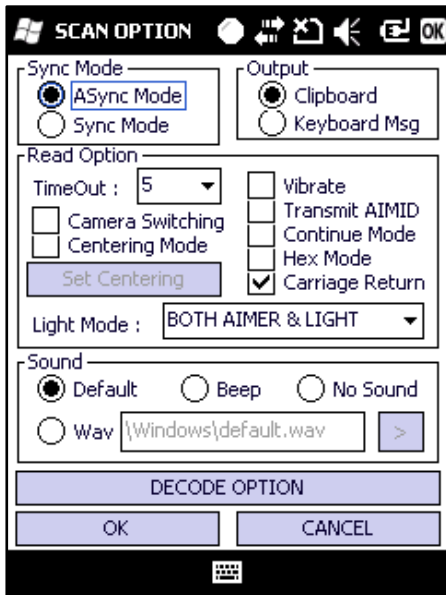
- **ScanEmul** is properly launched if you can **ScanEmul** tray icon at the bottom

2. Pop-up menu appears when you click the icon

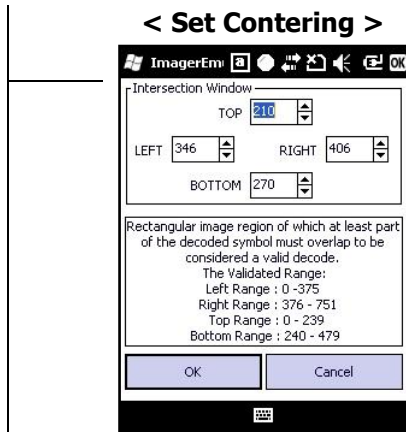


- **Option:** Configures general Emulator options
- **Symbology:** Configures options Regarding Symbology Option
- **Prefix / Suffix:** Enter data or command at the front or end of barcode data
- **Imager Camera:** The camera using imager module
- **IQ Imager: IntelliImage**
- **About:** Information of **ScanEmul**
- **Result Window:** Tests reading of barcodes
- **Close:** Close the program

3. Option

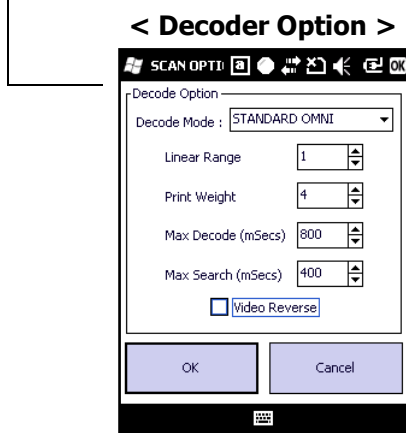


- **SyncMode**
 - **ASync:** Emits beam while the scan button is pressed, limited by the TimeOut
 - **Sync:** Emits beam for TimeOut period
- **Output**
 - **Clipboard:** Outputs the result to clipboard
 - **keyboard Msg:** Outputs the result as keyboard type
- **Reading Option**
 - **Time Out:** Beam emitting duration
 - **Camera Switching:** Enable Camera Switching switch between imager and camera
 - **Centering Mode:** Enable decode Centering Mode
 - **Vibrate:** Vibrate after a successful scan. Only valid for terminals with phone module
 - **Transmit AIMID:** Output AIM ID of the barcode
 - **Continue Mode:** Emits beam constantly even after reading
 - **Hex Mode:** Display the barcode data as a Hex value
 - **Carriage Return:** Send **VK_RETURN** message after read
 - **Light Mode**
 - ◆ **NO Light:** Neither aimers or illumination used during scanning
 - ◆ **Aimer Only:** Aimer only used during scanning
 - ◆ **Light Only:** Illumination LEDs only used during scanning
 - ◆ **Both Aimer & Light:** Alternating aimer and illumination during scanning
- **Sound**
 - **Default:** default sound after a successful scan
 - **Beep:** Beeps after a successful scan
 - **No Sound:** No sound after a successful scan
 - **Wav:** User defined wav sound



- **Intersection Window**

- **Top**
- **Left**
- **Right**
- **Bottom**



- **Decode Mode**

- **Standard OMNI**
- **QUICK OMNI(2D)**
- **AGRESSIVE LINEAR(1D)**

- **Linear Range:** Valid range is 1-6

- **Print Weight:** Valid range is 1-7

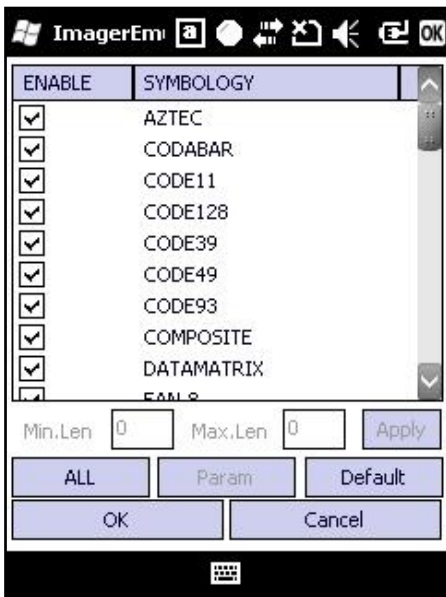
- **Max Decoder(mSec):** Valid range 1-10,000, '0' is disable

- **Max Search(mSec):** Valid range 1-10,000, '0' is disable

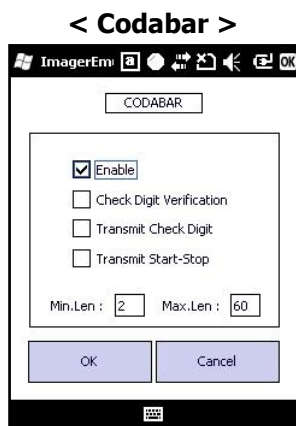
- **Video Reverse:** Enable video reverse

APPLICATION MANUAL

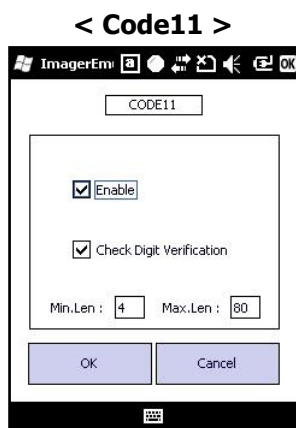
4. Symbology



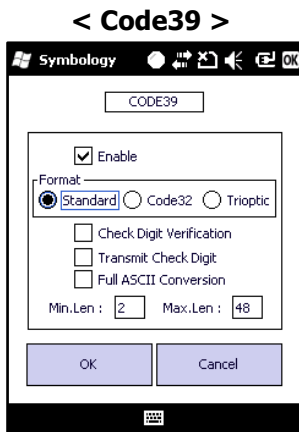
- **Advanced configuration for each barcode**
- **Enable or disable 49 different types of barcode**
- Enter advanced settings for each barcode type by click on them



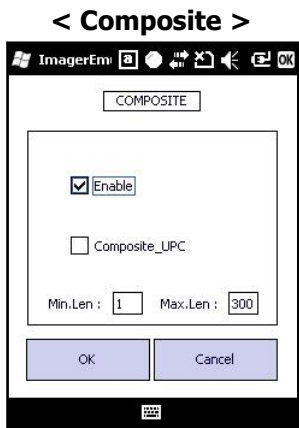
- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option
- **Transmit Start-Stop:** Outputs start-stop bit of **Codabar** type barcodes



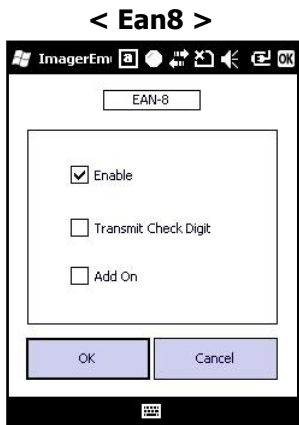
- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit



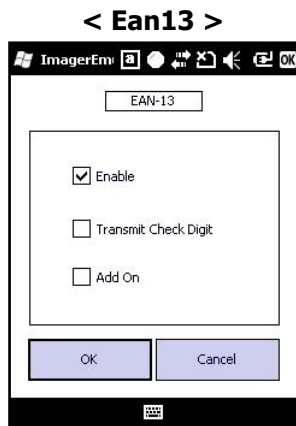
- **ENABLE:** Enable barcode decoding
- **Format :** Enable **Standard / Code32 / Trioptic**
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option
- **Full ASCII Conversion:** Outputs the letters when letters are included in the data



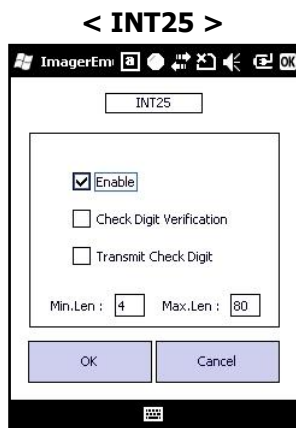
- **ENABLE:** Enable barcode decoding
- **Composite_UPC:** Enable **UPC** composite codes



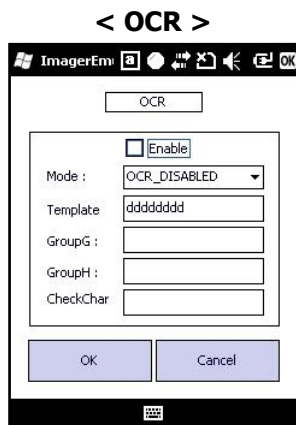
- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Add On:** Option to read two consecutive barcodes when **UPC-A** types have neighboring additional barcodes



- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Add On:** Option to read two consecutive barcodes when **UPC-A** types have neighboring additional barcodes



- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option



- **ENABLE:** Enable barcode decoding
- **Mode**
 - **OCR_Desable**
 - **OCR_A**
 - **OCR_B**
 - **OCR_MONEY**
 - **OCR_MICR_Unsupport**
- **Template:** A null-terminated string that indicates one or more template patterns for the **OCR** decode. All characters in the font are matched as is, except for the following
 - **a** – alphanumeric character
 - **c** – check character
 - **d** – a digit from 0-9
 - **e** – any character
 - **g** – any character specified in group G
 - **h** – any character specified in group H
 - **i** – alphabetic letter

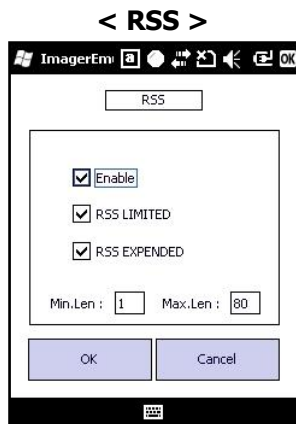
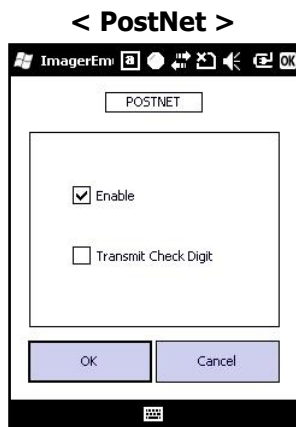
- **r** – delimits a row

- **t** – delimits multiple templates

- **GroupG:** A null-terminated string that defines the set of characters matching group 'g' in a template
- **GroupH:** A null-terminated string that defines the set of characters matching group 'h' in a template
- **CheckChar:** A null-terminated string that defines the legal characters for checksum computation in a decoded message, use the string constant '0123456789' for modulo 10 checksums, and the string constant '0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ' for modulo 36 checksums

- **ENABLE:** Enable barcode decoding

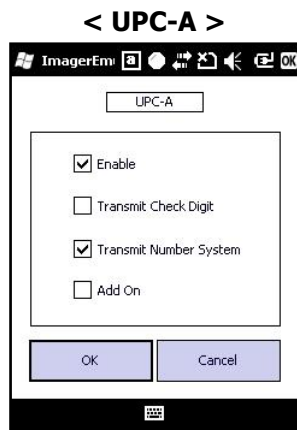
- **Transmit Check Digit:** Check digit output option



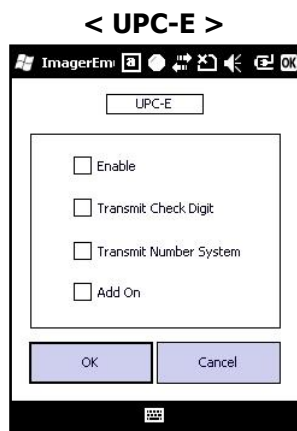
- **ENABLE:** Enable barcode decoding

- **RSS Limited:** Enable **RSS Limited** barcode decoding

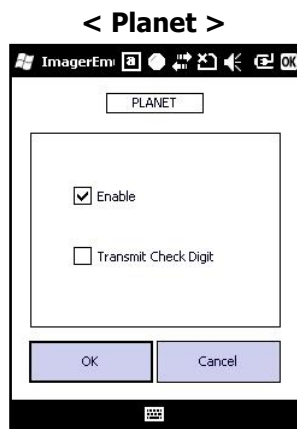
- **RSS Expended:** Enable **RSS Expended** barcode decoding



- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Transmit Number System:** Front most number output option
- **Add On:** Option to read two consecutive barcodes when **UPC-A** types have neighboring additional barcodes



- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Transmit Number System:** Front most number output option
- **Add On:** Option to read two consecutive barcodes when **UPC-A** types have neighboring additional barcodes

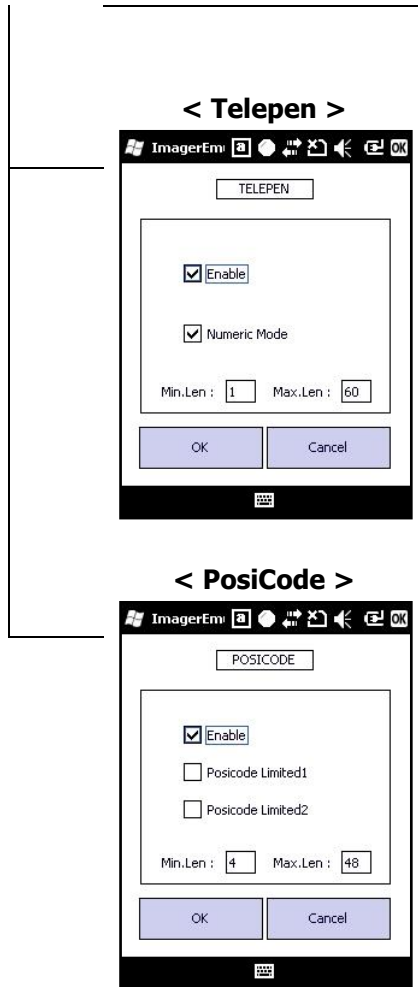


- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option



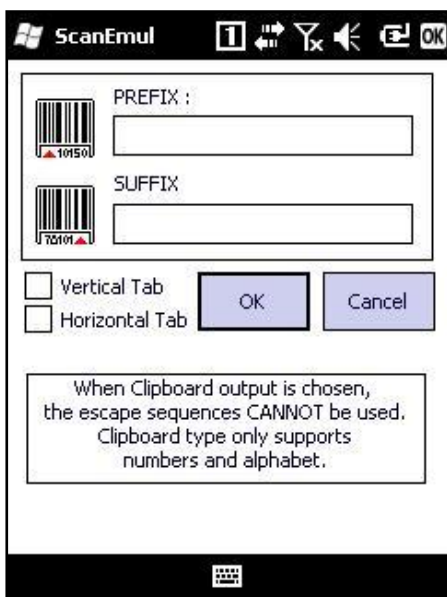
- **ENABLE:** Enable barcode decoding

APPLICATION MANUAL



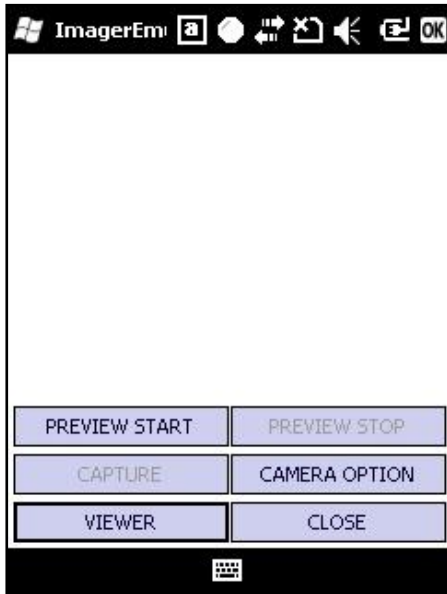
- **Transmit Check Digit:** Check digit output option
- **ENABLE:** Enable barcode decoding
- **Numeric Mode**
- **ENABLE:** Enable barcode decoding
- **PosiCode Limited1:** Enable **PosiCode Limited1** barcode decoding
- **PosiCode Limited2:** Enable **PosiCode Limited2** barcode decoding

5. Prefix / Suffix



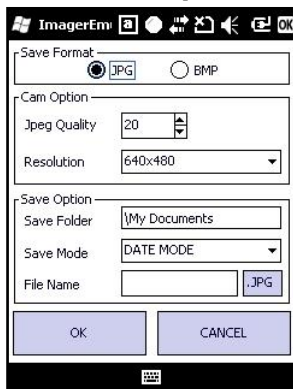
- **Prefix:** Enter data or command at the front of barcode data
- **Suffix:** Enter data or command at the end of barcode data
- **Vertical Tab:** Enables Vertical tab only even in Skip Escape mode
- **Horizontal Tab:** Enables Horizontal tab only even in Skip Escape mode
 - Cannot enter commands if clipboard output is used

6. Imgaer Camera



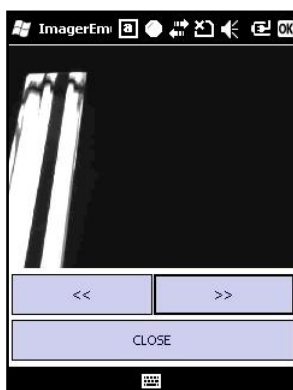
- **Perview Start:** Starts the Preview
- **Perview Stop:** Stops the Preview
- **Capture:** Saves picture after capturing
- **Camera Option:** Move to Option Page
- **Viewer:** Shows saved picture
- **Option:** Move to Option Page
- **Close:** Close the Imager Camera

< Camera Option >



- **Save Format:** Select the save format(**Jpg/Bmp**)
- **Can Option**
 - **Jpeg Quality:** Set **Jpeg** Quality
 - **Resolution:** Select the resolution of imager
- **Save Option**
 - **Save Folder:** Set the save path
 - **Save Mode**
 - ◆ **Date Mode:** Auto name format
 - ◆ **Custom With Num Name:** Set the name if the Name Type is Custom Mode
 - ◆ **Custom Mode:** User-defined name format
- **File Name:** Set the save File Name

< Viewer >

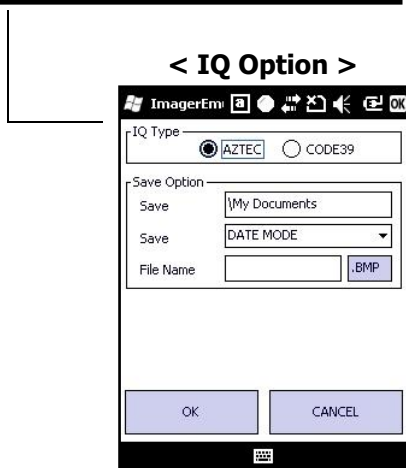


- **Image Viewer**

7.IQ Imager

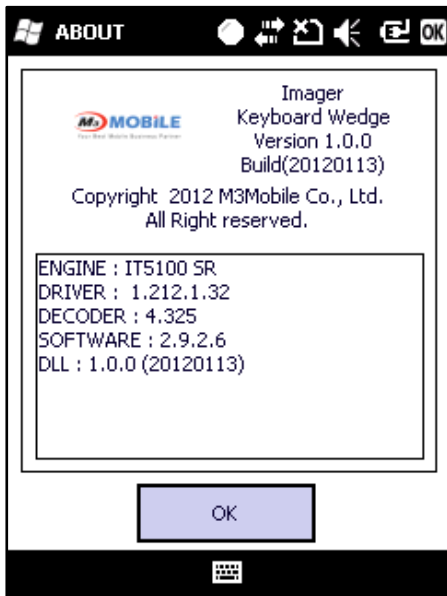


- **IQ Start:** Starts the IQ Imager
- **IQ Stop:** Stops the IQ Imager
- **IQ Option:** Move to IQ Option Page
- **Close:** Close the IQ Imager



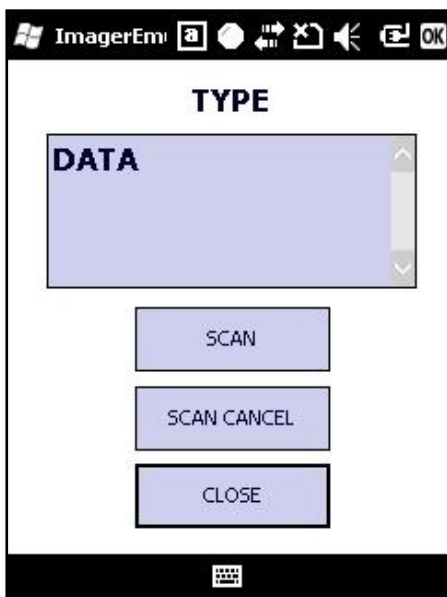
- **IQ Type:** Select the save IQ Type(**AZTEC/CODE39**)
- **Save Option**
 - **Date Mode:** Auto name format
 - **Custom With Num Name:** Set the name if the Name Type is Custom Mode
 - **Custom Mode:** User-defined name format
- **OK:** Sets the Option
- **Cancel:** Cancel the Option

8. About



- Shows versions of those listed below.
 - Driver
 - Decoder
 - DLL

9. Result Window



- **BarCode Type and data is displayed**
- **Scan:** Start scanning
- **Scan Cancel:** Stop scanning
- **Close:** Close the Display

APPLICATION MANUAL

CHAPTER 4. LONG -RANGE SCANNER

Product	Model	Type	OS	Note
MM3	MC-8000S	H/W Decoder	WM 6.1	Long-Range 2D Scanner

4.1 LRScanEmul.exe

1. First view of the program



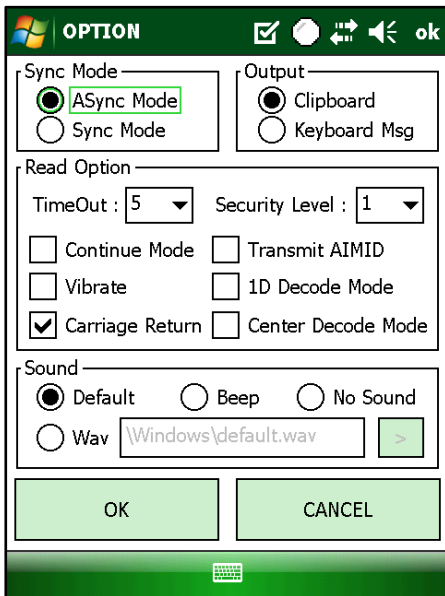
- **ScanEmul** is properly launched if you can see **ScanEmul** tray icon at the bottom.

2. Pop-up menu appears when you click the icon



- **Option:** Configures general Emulator options.
- **Symbology:** Configures options Regarding Symbology Option
- **Prefix / Suffix:** Enter data or command at the front or end of barcode data
- **About:** Information of **ScanEmul**
- **Result Window:** Tests reading of barcodes.
- **Close:** Close the program

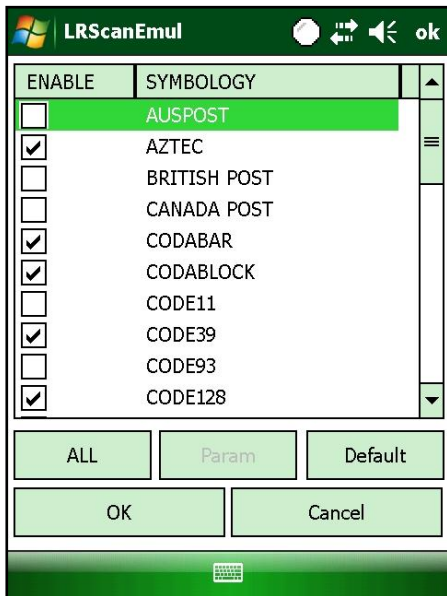
3. Option



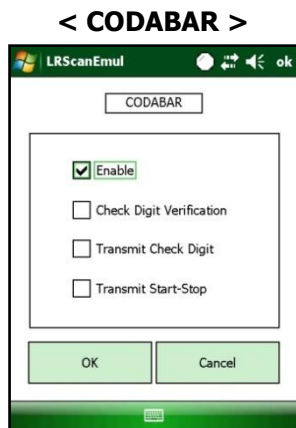
- **SyncMode**
 - **ASync:** Emits beam while the scan button is pressed. Limited by the TimeOut
 - **Sync:** Emits beam for TimeOut period
- **Output**
 - **Clipboard:** Display outputs on clipboard
 - **keyboard Msg:** Outputs the result as keyboard type
- **Reading Option**
 - **Time Out:** Beam emitting duration
 - **Security Level:** Determines how many successful read output the result.
Ex) '2' means it needs to successfully read the barcode twice to output the result
 - **Continue Mode:** Emits beam constantly even after reading
 - **Vibrate:** Vibrate after a successful scan. Only valid for terminals with phone module
 - **Carriage Return:** Send **VK_RETURN** message after read
 - **Transmit AIMID:** Output AIM ID of the barcode
 - **Center Decoder Mode:** Enable decode Centering Mode
- **Sound**
 - **Default:** default sound after a successful scan
 - **Beep:** Beeps after a successful scan
 - **No Sound:** No sound after a successful scan
 - **Wav:** User defined wav sound

APPLICATION MANUAL

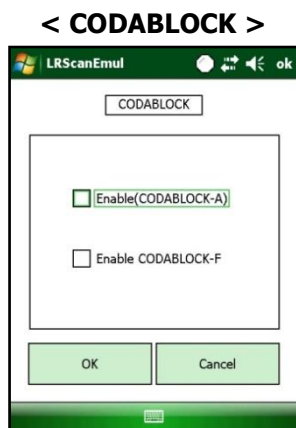
4. Symbology



- Advanced configuration for each barcode
- Enable or disable 14 different types of barcode
- Enter advanced settings for each barcode type by click on them



- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option
- **Transmit Start-Stop:** Outputs start-stop bit of **Codabar** type barcodes

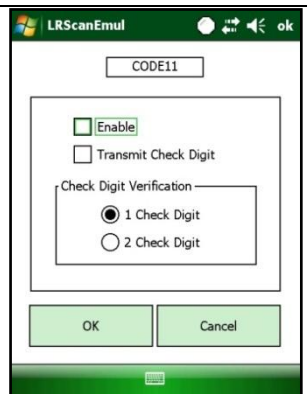


- **ENABLE(CODABLOCK-A):** Enable barcode decoding
- **ENABLE CODABLOCK-F:** Enable **CODABLOCK-F** barcode decoding

APPLICATION MANUAL

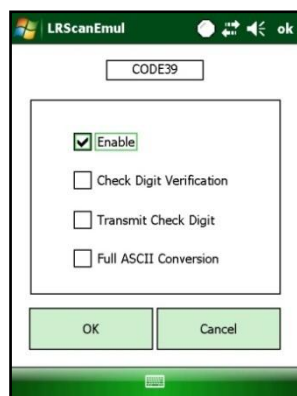


< Code11 >



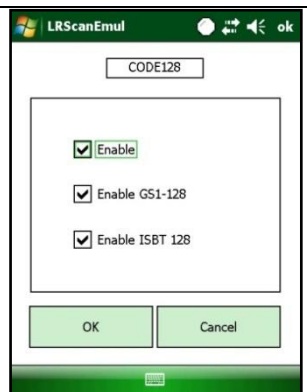
- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Check Digit Verification:** Only decodes the barcode with check digit
 - **1 Check Digit:** Only decodes the barcode with one check digit
 - **2 Check Digit:** Only decodes the barcode with two check digits

< Code39 >



- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option
- **Full ASCII Conversion:** Outputs the letters when letters are included in the data

< Code128 >

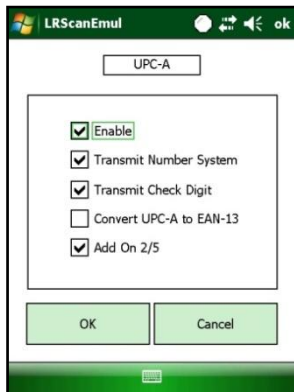


- **ENABLE:** Enable barcode decoding
- **ENABLE GS1-128:** Enable **GS1-128** barcode decoding
- **ENABLE ISBT 128:** Enable **ISBT 128** barcode decoding

APPLICATION MANUAL

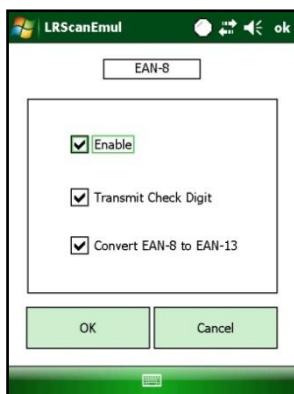


< UPC-A >



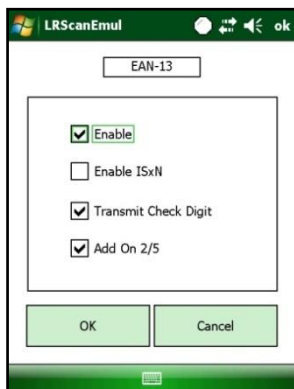
- **ENABLE:** Enable barcode decoding
- **Transmit Number System:** Front most number output option
- **Transmit Check Digit:** Check digit output option
- **Convert UPC-A as EAN-13:** Converts **UPC-A** to **EAN13** by adding '0' at the front
- **Add On 2/5:** Option to read two consecutive barcodes when **UPC-A** types have neighboring additional barcodes (2 and 5 spaces)

< EAN-8 >



- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Convert EAN-8 as EAN-13:** Convert to **EAN-13** by adding five zeros at the front of the data

< EAN-13 >

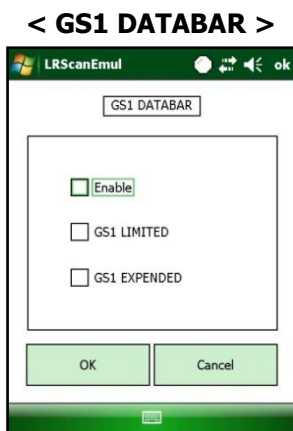


- **ENABLE:** Enable barcode decoding
- **ENABLE ISxN:** Enable **ISxN** barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Add On 2/5:** Option to read two consecutive barcodes when **UPC-A** types have neighboring additional barcodes (2 and 5 spaces)

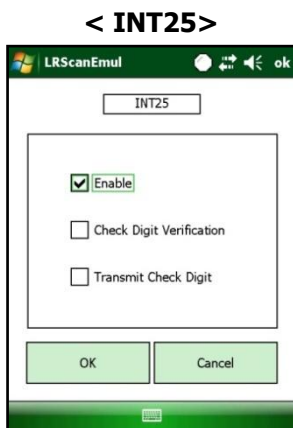
APPLICATION MANUAL



- **ENABLE(CC-A/B):** Enable barcode decoding
- **ENABLE CC-C:** Enable **CC-C** barcode decoding



- **ENABLE:** Enable barcode decoding
- **ENABLE GS1 LIMITED:** Enable **GS1 LIMITED** barcode decoding
- **ENABLE GS1 EXPENDED:** Enable **GS1 EXPENDED** barcode decoding

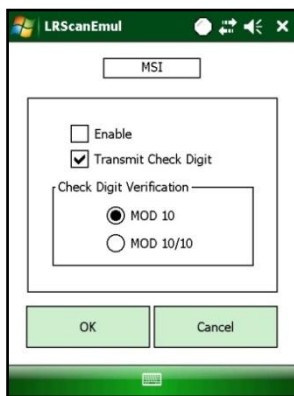


- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option

APPLICATION MANUAL

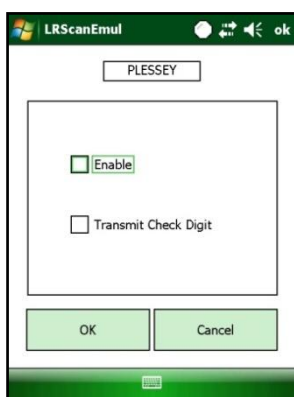


< MSI >



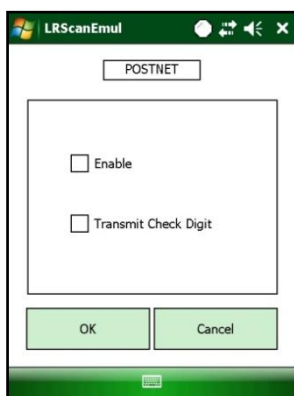
- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option
- **Check Digit Verification**
 - **MOD 10:** A check digit is **MOD 10**
 - **MOD 10/10:** Both check digits are **MOD 10**

< PLESSEY >



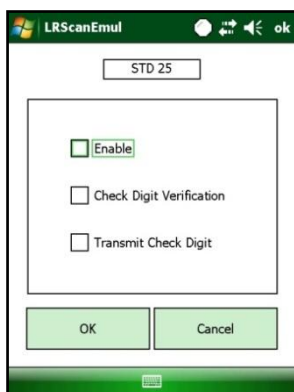
- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option

< POSTNET >



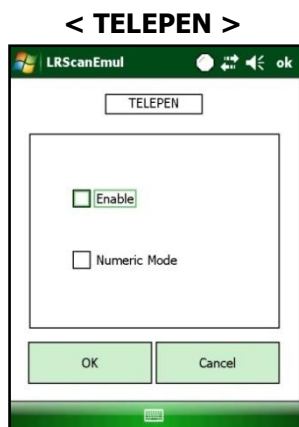
- **ENABLE:** Enable barcode decoding
- **Transmit Check Digit:** Check digit output option

< STD 25 >



- **ENABLE:** Enable barcode decoding
- **Check Digit Verification:** Only decodes the barcode with check digit
- **Transmit Check Digit:** Check digit output option

APPLICATION MANUAL

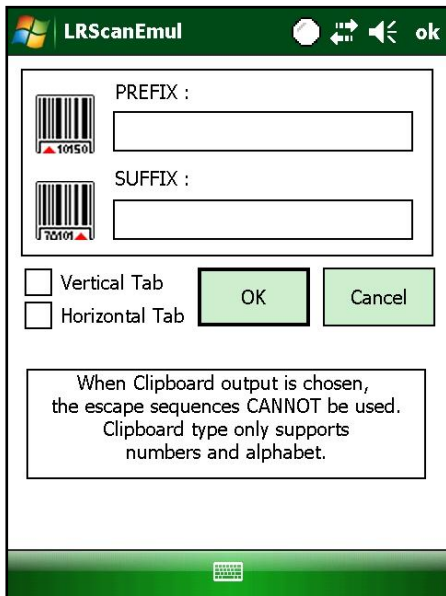


- **ENABLE:** Enable barcode decoding
- **Numeric Mode:** Enable Numeric Mode

APPLICATION MANUAL

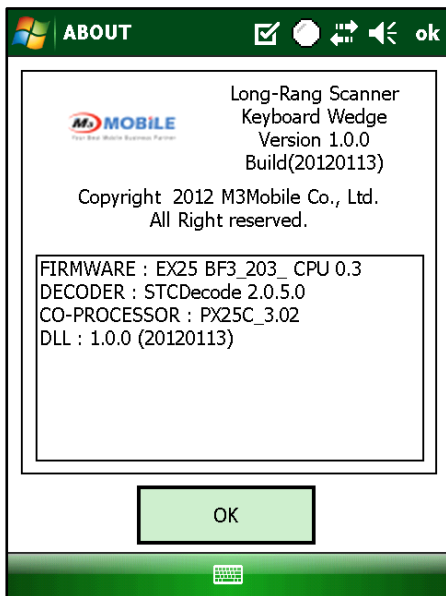


5. Prefix / Suffix



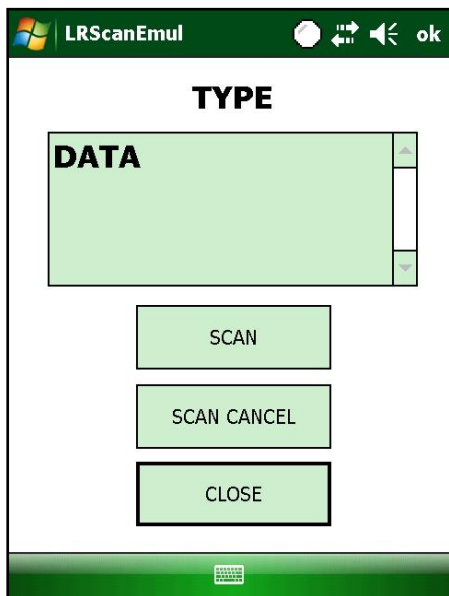
- **Prefix:** Enter data or command at the front of barcode data
- **Suffix:** Enter data or command at the end of barcode data
- **Vertical Tab:** Enables Vertical tab only even in Skip Escape mode
- **Horizontal Tab:** Enables Horizontal tab only even in Skip Escape mode
- Cannot enter commands if clipboard output is used

6. About



- **Shows versions of**
 - Firmware
 - Decoder
 - CO-PROCESSOR
 - DLL

7. Result Window



- **Bar Code Type and data is displayed**
- **Scan:** Start scanning
- **Scan Cancel:** Stop scanning
- **Close:** Close the Display

APPLICATION MANUAL



CHAPTER 5. CAMERA(CE)

Product	Model	Type	OS	Note
M3 GREEN	MC-6300/6400/6500	2.0 M FF	CE 5.0	
M3 T	MC-6700	3.0 M AF	CE 5.0	
M3 POS	MC-9000	2.0 M FF	CE 5.0	

5.1 Camera.exe

1. Main Screen



- **Start / Stop:** Start or Stop preview
- **Captr:** Captures the preview image and automatically saves it in \ **Flash Disk\ Camera\ Photo**
- **Fls On / Off:** Turns on or off the flash when capturing a picture.
- **AF:** Auto focusing function
- **Zoom - 1 X:** Sets Zoom in and out (Displays a current status on button)
- **Option:** Displays window for setting options
- **MAF / AAF:** Manual Auto Focusing and Auto Auto Focusing can be set (supported in M3T only)
 - **AAF:** Running AF function when the subject is moved in preview image or the environment is changed
 - **MAF:** Manually setting for AF function
- **X:** Closes the camera program
- **AF Window:** The red square box at the center of preview will turn to green when Autofocus is done

APPLICATION MANUAL



2. Option Screen (Displays a current status on button)



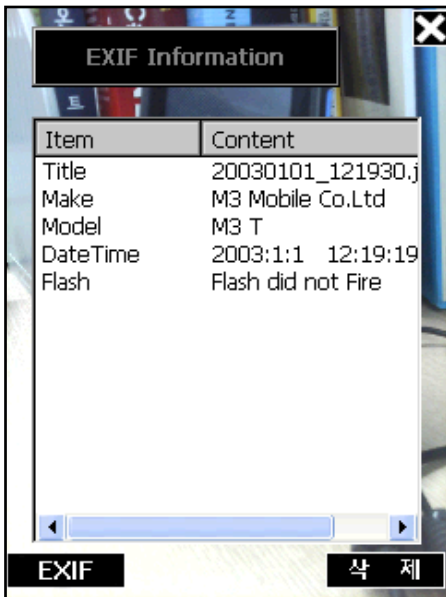
- **Effect – Normal:** Sets effect of picture
- **Resolution – 2048X1536:** Sets size of picture
- **Save – Date:** Date mode names the taken picture according to the system date and Custom mode names the taken picture as user-defined
- **Format – JPG:** Sets format of picture
- **EXIF – TRUE:** Sets up whether the **EXIF**(exchangeable image file format) information is added when capturing JPG picture
- **GPS – OFF:** Sets up whether the GPS information is included in **EXIF** information (applied for GPS supported device only)
- **Custom Save Path:** Assigns the file's location and name to be stored when the Save Mode is custom
- **Exposure Value:** Sets brightness of picture
- **Version:** Camera program version and **DLL** version can be identified

3. Viewer



- **EXIF:** Shows **EXIF** information
- **Delete:** Deletes images

4. EXIF Information



The screenshot shows a dialog box titled "EXIF Information" with a close button (X) in the top right corner. It contains a table with two columns: "Item" and "Content". The table lists the following EXIF data:

Item	Content
Title	20030101_121930.j
Make	M3 Mobile Co.Ltd
Model	M3 T
DateTime	2003:1:1 12:19:19
Flash	Flash did not Fire

At the bottom of the dialog box, there are two buttons: "EXIF" on the left and "삭 제" (Delete) on the right.

● EXIF Information

- **Title:** Shows the name of picture
- **Make:** Displays the name of manufacturing company
- **Model:** Outputs the model name of device
- **Date Time:** Displays the date and time of picture
- **Flash:** Displays whether the flash was on or off

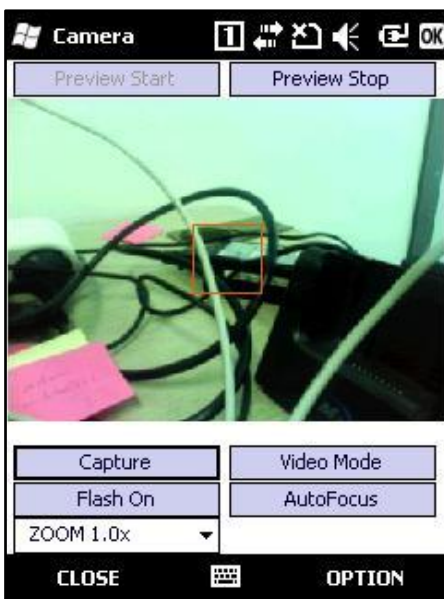
APPLICATION MANUAL

CHAPTER 6. CAMERA(WM)

Product	Model	Type	OS	Note
M3 SKY	MC-7X00S	2.0 M FF	WM 6.1/6.5	
M3 ORANGE	M3 OREANGE	3.0 M AF	WM 6.5	
MM3	MC-8000S	2.0 M FF	WM 6.1	

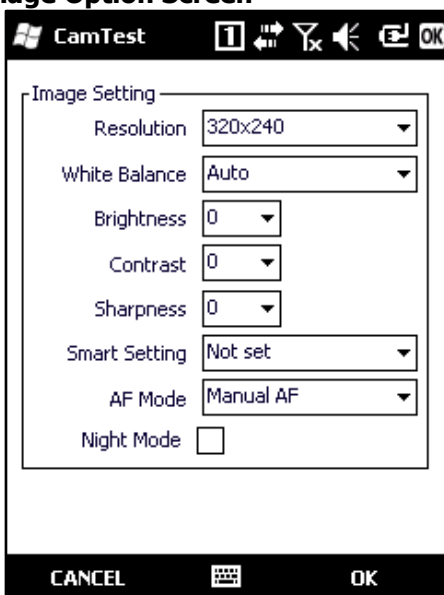
6.1 Camera.exe

1. Main Screen



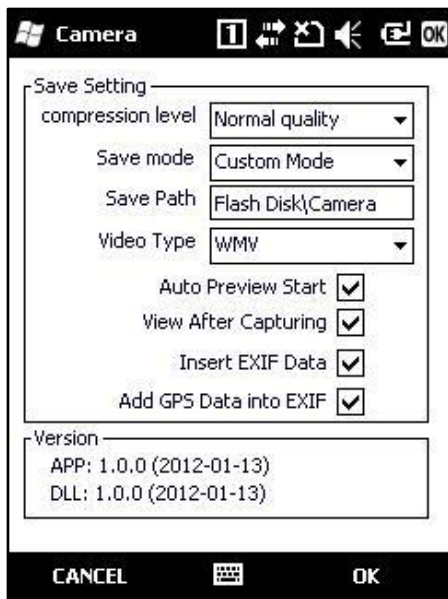
- **Capture:** Captures the preview image and automatically saves it in \ My Documents \ My Pictures (default folder)
- **Option:** Enters option Page. Option button is disabled when the preview is on
- **Preview Start / Stop:** Start or Stop preview
- **Flash On / Off:** Turns on or off the flash when capturing a picture
- **AutoFocus:** Auto focusing function
- **Video Mode:** Enters video mode. In video mode, the button will change to Still Mode
- **AF Window:** The red square box at the center of preview will turn to green when Autofocus is done

2. Image Option Screen



- **Resolution / Compression level:** Settings for image size and quality
- **Brightness / White Balance / Night mode:** General settings for imaging (Night mode cannot be supported in maximum resolution.)
- **AF type**
 - **Manual AF:** Manually setting for **AF** function
 - **Always AF:** Automatically setting for **AF** function before shooting
 - **Auto AF:** Running **AF** function when the subject is moved in preview image or the environment is changed

3. Save Option Screen



- **Save mode:** Date mode names the taken picture according to the system date and Custom mode names the taken picture as user-defined
- **Save Folder / Save Name:** Only activated in Custom Mode
- **Video Type:** Defines and supports the video file type- **WMV/AFS**, activated in Video mode only
- **View After Capturing:** Defines whether to start the Preview right after shooting
- **Version:** Camera program version and **DLL** version can be identified
- **Insert EXIF Data:** Sets up whether the **EXIF**(exchangeable image file format) information is added when capturing JPG picture
- **Add GPS Data Into EXIF:** Sets up whether the GPS information is included in **EXIF** information (applied for GPS supported device only)

CHAPTER 7. RFID

Product	Model	Type	OS	Note
M3 SKY	MC-7X10S	HF/LF	WM 6.1/6.5	
M3 ORANGE	M3 ORANGE	HF	WM 6.5	

7.1 RFIDEmul.exe

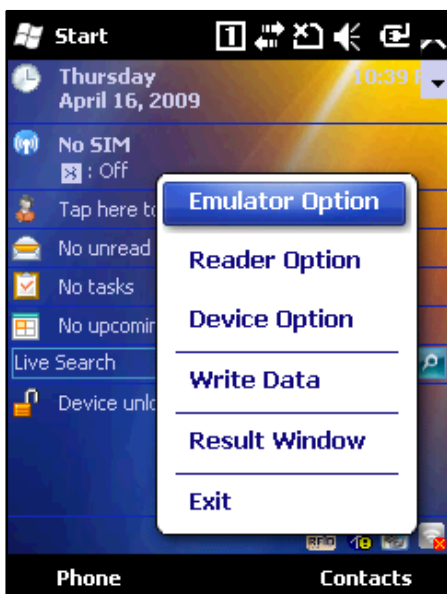
RFIDEmul allows the user to read RFID tags in any programs installed the device

1. First view of the program



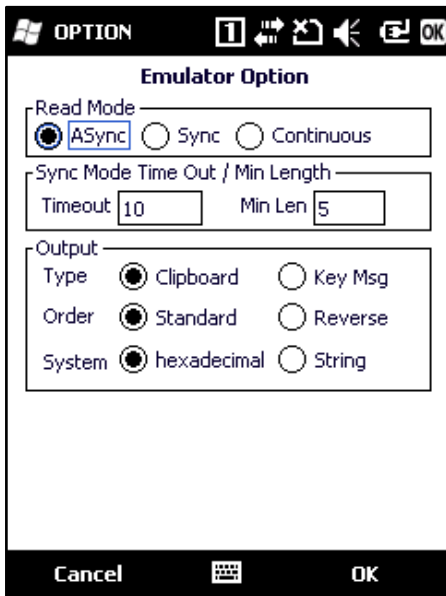
- **RFIDEmul** is properly launched if you can see RFID tray icon at the bottom

2. Pop-up menu appears when you click the icon



- **Emulator Option:** Configures general Emulator options
- **Reader Option:** Configures options regarding RFID Reader
- **Device Option:** Configures options regarding device
- **Write Data:** Writes data to the tag
- **Result Window:** Tests reading and writing of tags
- **Exit:** Exits the program

3. RFID Option



- **Read Mode**

- **ASync:** Reads tags if any exists within antenna field otherwise terminates
- **Sync:** Wait until it finds tags within antenna field (10 sec)
- **Continuous:** Continuously reads tags

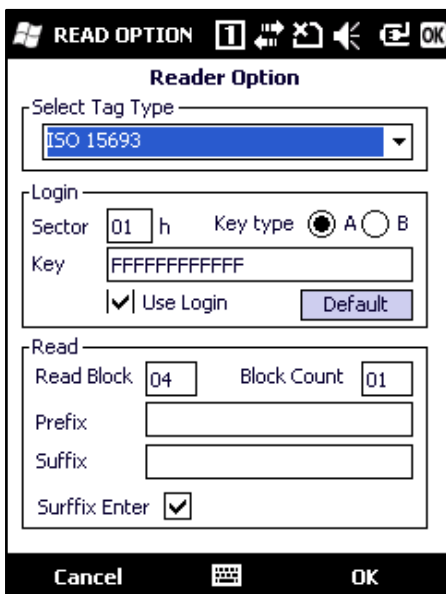
- **Sync Mode Time Out / Min Length**

- **Timeout:** Waiting time when reading in sync mode
- **Min Len:** Sets the minimum length of the read result

- **Output**

- **Clipboard:** Copies and pastes the data to Clipboard
- **Keyboard Msg:** Outputs the result as keyboard type
- **Standard:** Outputs serial number in order
- **Reverse:** Outputs serial number in order of bit-reversed
- **Hexadecimal:** Prints the tag data in 16 antilogarithm
- **String:** Prints the tag data with string

4. RFID Option



- **Select Tag Type:** Select tag type that you wish to read

- **High Frequency Radio**

- ✓ ISO 14443 Type A
- ✓ ISO 14443 Type B
- ✓ ICODE UID
- ✓ ICODE EPC
- ✓ ICODE
- ✓ SR176
- ✓ activate all tags
- ✓ ISO 15693
- ✓ ISO 15693 TAGIT

- **Low Frequency Radio**

- ✓ All TAG types
- ✓ EM4X02

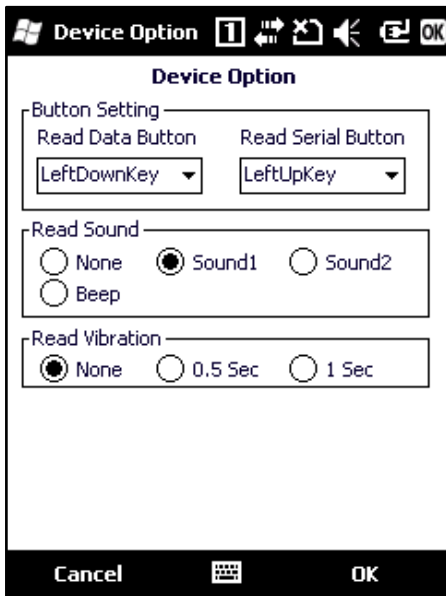
- ✓ EM4X05(ISO FXDB)
- ✓ EM4X50
- ✓ HITAG1 / HITAG S
- ✓ HITAG2
- ✓ TI-RFID SYSTEMS

- **Login:** Used if tag needs to be logged-in
 - **Sector:** Select the sector to login (not supported LF RFID)
 - **Key type:** Select the Key type to login (not supported LF RFID)
 - **Key:** Select the available key to login
 - **Use Login:** Defines whether to use the **Mifare** tag
 - **Default:** Back to the initial setting.
- **Read**
 - **Read Block:** Select the block to read
 - **Block Count:** Inputs block number to read from Read Block. (not supported LF)
 - **Suffix Enter:** Defines whether to use Suffix Enter after the read data
 - **Prefix:** Defines string to add before the read data
 - **Suffix:** Defines string to add after the read data



'Activate all tags' is a default tag type. By changing tag type to other specific one, read/write speed can be faster.

5. Device Option



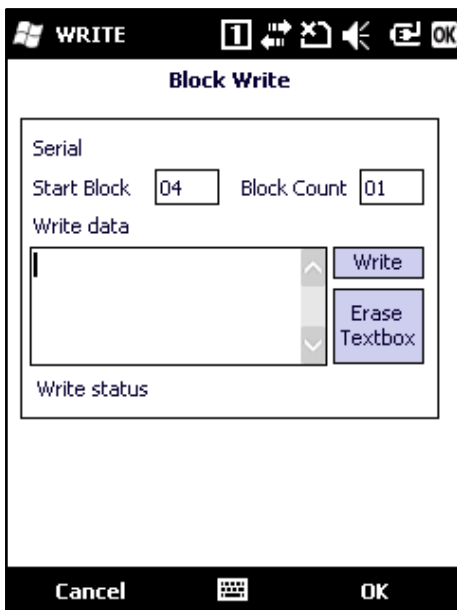
- **Button Setting**

- **Read Data Button:** Set shortcut button to read block data of the tag
- **Read Serial Button:** Set shortcut button to read serial data of the tag

- **Read Sound:** Sets sound

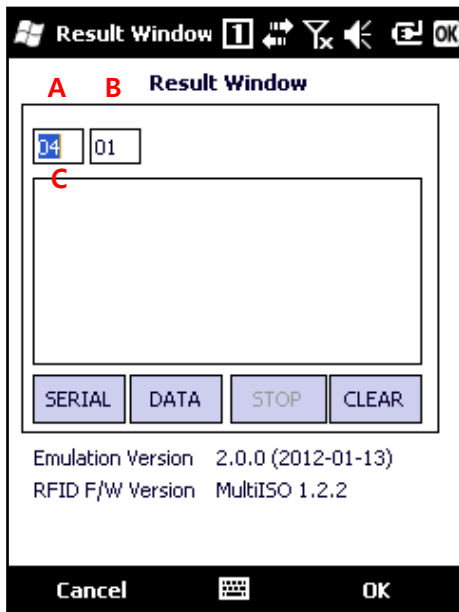
- **Read Vibration:** Sets vibration (can be used when there is phone module)

6. Write



- **Serial:** Outputs the serial number of tag to write the data
- **Start Block:** Select the block of tag to write the data
- **Block Count:** Inputs block number to write data from Start Block. (not supported LF RFID)
- **Erase Textbox button:** Deletes the inputted data in textbox
- **Write button:** Input the written data in textbox to Block
- **Write status:** Displays the write result

7. Result Window



- **Box A:** Start Block - Select the block of tag to write the data
- **Box B:** Inputs block number to read and write data from Block Count and Start Block (not supported LF RFID)
- **Box C:** Output the result of read
- **SERIAL button:** Performs reading of Serial Number
- **DATA button:** Performs reading of Block Data in Memories
- **STOP button:** Stops reading if Read mode is Continuous mode
- **CLEAR button:** Deletes the result

7.2 Helpful Tips



■ How is the RFID Specification of M3 SKY?

RFID Module used in **MC7510/MC7710** is **HID Global RDHO-0201N0-03** (13.56MHz), its power output is 200mW without antenna, and around 0.7W RMS with antenna.

Below table is General Information of RFID.

RFID TYPE	Frequency Band
LFID (Low Frequency Identification)	120 ~ 140 kHz
HFID (High Frequency Identification)	13.56 MHz
UHFID (Ultra High Frequency Identification)	868 ~ 956 MHz

CHAPTER 8. WLANTRAY

Product	Model	Type	OS	Note
M3 SKY	MC-7XX0S	Samsung/Summit	WM 6.1/6.5	Applicable in Summit module, if 3 rd party config is set
MM3	MC-8000S	Summit	WM 6.1	

8.1 WlanTray.exe

Precautions

- **WlanTray.exe** is usually located at \Flash Disk\Driver folder
- **WlanTray** can be used on devices with Summit WLAN Module
To use **WlanTray** instead of **SCU**(Summit Utility Client), the Active Profile on SCU must be set to ThirdPartyConfig

1. First view of the program



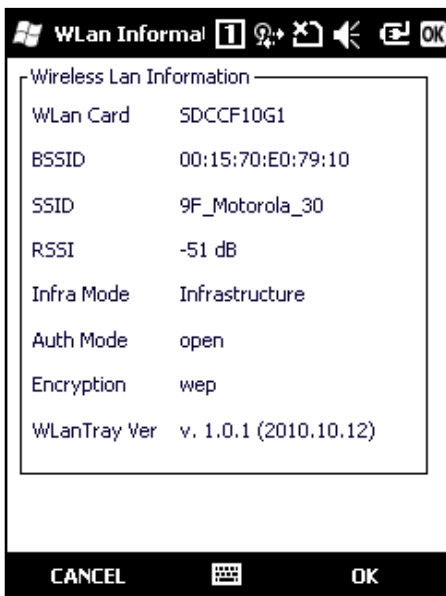
- WLAN signal strength is displayed in the tray icon

2. Pop-up menu appears when you click the icon



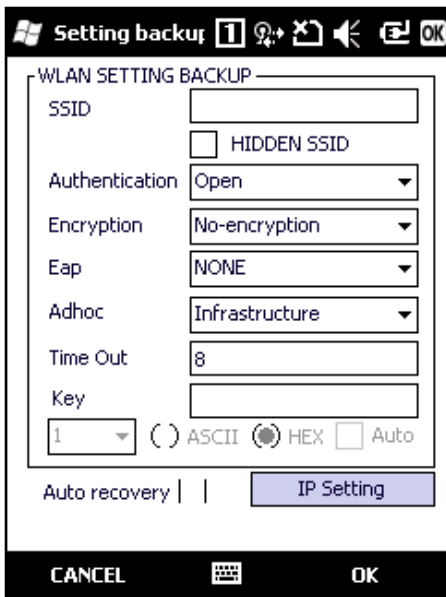
- **View Information:** View current status of WLAN
- **Setting Recovery:** Access to an AP with stored settings
- **Setting Backup:** Backups WLAN settings
- **Disable Wi-Fi:** Disables WLAN
- **Enable Wi-Fi:** Enables WLAN
- **Ping Test:** Performs ping test

3. WLAN Information



- **WLAN Card:** Model name of WLAN card
- **BSSID: MAC Address** of currently connected AP
- **SSID: SSID** of currently connected AP
- **RSSI:** Signal strength
- **Infra Mode:** Connection Mode (Infrastructure, Ad-Hoc)
- **Auth Mode:** WLAN authentication type
- **Encryption:** WLAN encryption type

4. WLAN Setting Backup



- **SSID:** SSID of the AP
- **HIDDEN SSID:** Check if it is hidden
- **Authentication:** Select WLAN authentication type
- **Open, Shared, AutoSwitch, WPA, WPA-PSK, WPA-NONE, WPA2, WPA2-PSK**
- **Encryption:** Select encryption type
WEP, No-encryption, WEP No Keys, WEP Not Supported, TKIP, TKIP No Keys, AES, AES No Keys
- **Eap:** Extended Authentication Protocol
ie) **TLS, PEAP, MD5**
- **Adhoc:** Connect between devices or Infrastructure
- **Time Out:** Set waiting time for **EAP** authentication
- **Key:** **WEP, TKIP** or **AES** encryption requires key
- **WEP**
 - **Key Index:** Select Index between 1 and 4
 - **ASCII / HEX:** Key Type
 - **Auto:** Auto WEP Key
- **IP Setting:** Manually set IP if **DHCP** server is not used
- **Auto recovery:** Automatically recovered the file setting saved in [**Flash Disk\StartUp\WlanSetting.ini**] when **WLANTray** is started

5. Ping Test



- **Destination Address:** Input the IP or Domain name that ping arrives and click the Start PING button to start Ping test



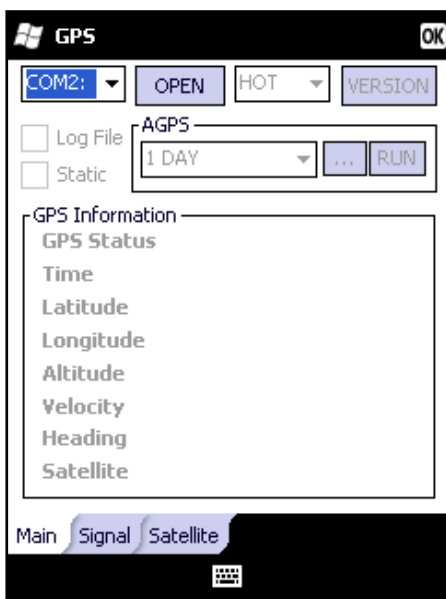
WLAN setting is saved in [**Flash Disk\StartUp\WlanSetting.ini**] as a backup file. You can make the WLAN recovery to other device with the same setting values by copying this file to same location.

CHAPTER 9. GPS

Product	Model	Type	OS	Note
ALL	ALL	SiRF Star III / UBLOX	ALL	AGPS is supported on UBLOX only.

9.1 GPSManager.exe

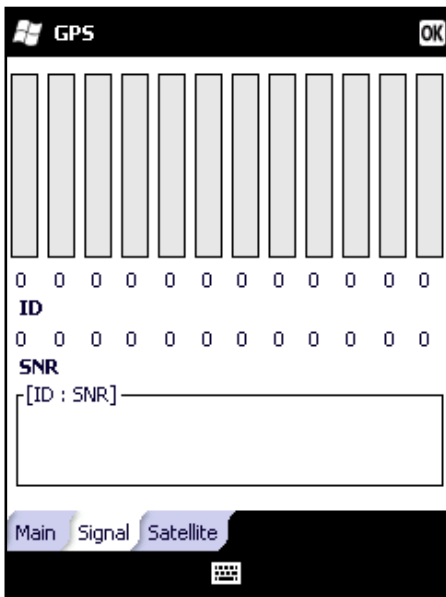
1. Main Page



- **COM Port Combo Box:** Port for GPS
- **CONNECT Button:** Connect / Disconnect GPS
- **Start(Reset) Combo Box:** Set up GPS module hot reset / warm reset / cold reset
- **Log File:** Makes log file
- **Static:** Performs in Static mode
- **AGPS**
 - **Day Combo Box:** Day of Almanac Data
 - **'...' Button:** Add Almanac file a Day combo box
 - **RUN Button:** Applies selected Almanac data to GPS Module
- **GPS Information**
 - **GPS Status**
 - **Time**
 - **Latitude**
 - **Longitude**
 - **Altitude**
 - **Velocity**
 - **Heading**
 - **Satellite**

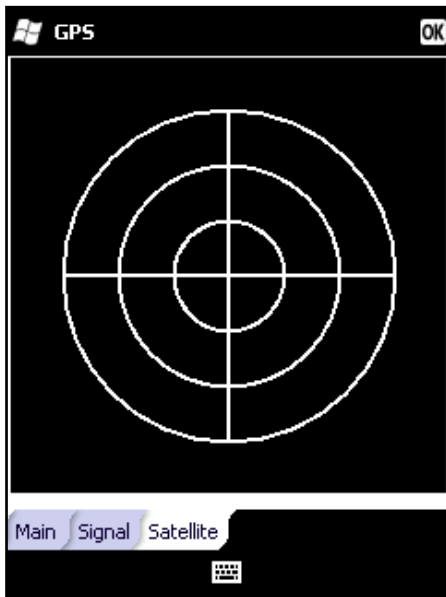
2. Signal Page

- Shows **ID** and **SNR** value that GPS module received from satellite



3. Satellite Page

- Shows location of satellite that GPS module received



9.2 Helpful Tips



- **AGPS** function can only be used with device that **UBLOX** module is embedded
- **GPS Start Mode**
 - **Hot Start:** Start mode of the GPS receiver when current position, clock offset, approximate GPS time, and current ephemeris data are all available
 - **Warm Start:** Start mode of the GPS receiver when current position, clock offset, and approximate GPS time are input by the user. Ephemeris data is not available
 - **Cold Start:** A condition in which the GPS receiver can arrive at a navigation solution without initial position, time, and current Ephemeris
- **Static Mode:** Reduces location error when the velocity is under the static threshold (a protection function that location value changes frequently because of interference and/or error when GPS signal reception)

APPLICATION MANUAL

CHAPTER 10. PRINTER

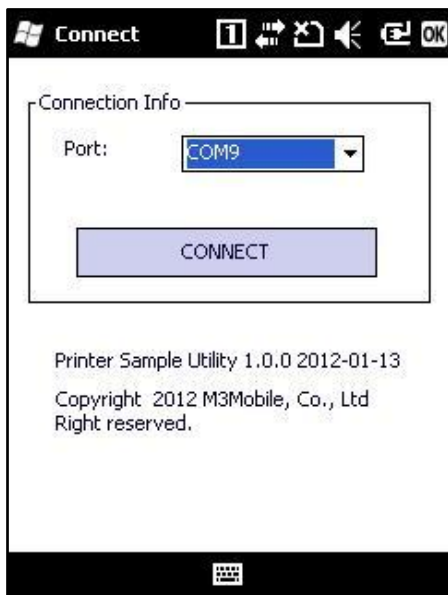
Product	Model	Type	OS	Note
ALL	ALL	Software	ALL	Program for BT printer in M3 Mobile devices

10.1 PRINTER.exe

Precautions

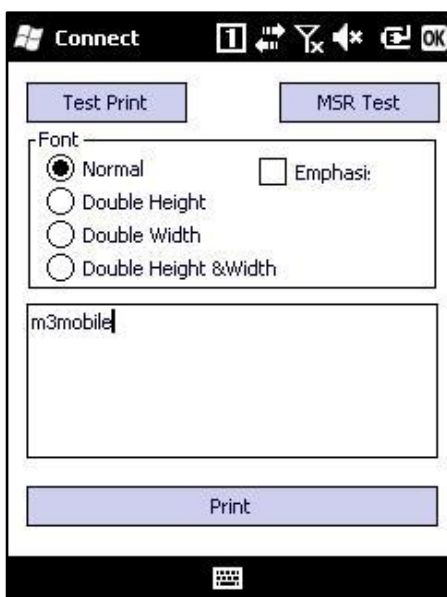
- **PRINTER.exe** is usually located at **\Flash Disk\PRINTER**

1. First view of the program



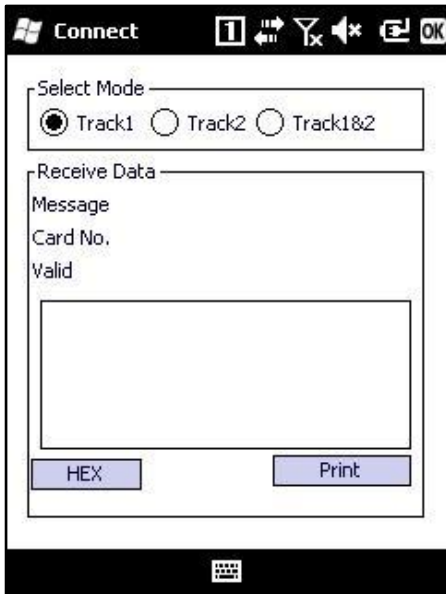
- **Port:** Refer to [FAQ document](#) for connection port and its information
- **CONNECT:** Open the BT explorer

2. Printer View.



- **Test Print:** Test whether the printer functions normally
- **MSR Test:** Moves to **MSR** View
- **Font:** Font format can be adjusted but the font cannot
- **Print:** Prints contents inputted in text box

3. State View



- **Select Mode:** Card can be read by changing track
- **Receive Data:** Displays information after card reading
- **HEX/ASCII:** Displays read data into hex character
- **Print:** Prints read data

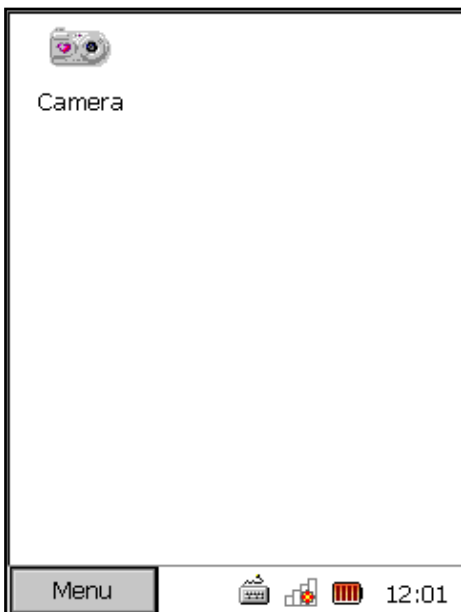
APPLICATION MANUAL

CHAPTER 11. APPCENTER (CE)

Product	Model	Type	OS	Note
M3 Green	MC-6X00	Software	ALL	Kiosk Mode
M3 T	MC-6700	Software	ALL	Kiosk Mode
M3 POS	MC-8800	Software	ALL	Kiosk Mode

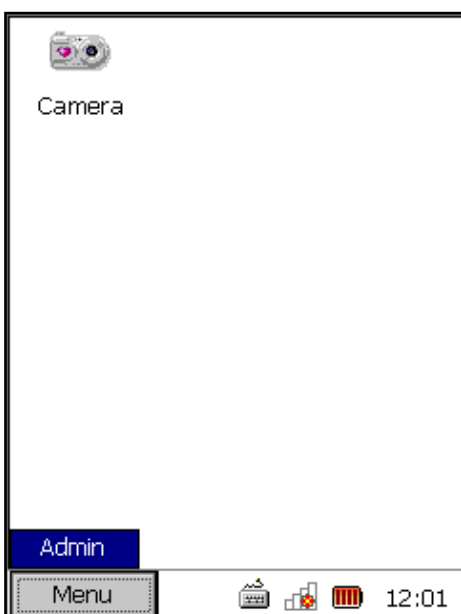
11.1 AppCenter.exe

1. First view of the program

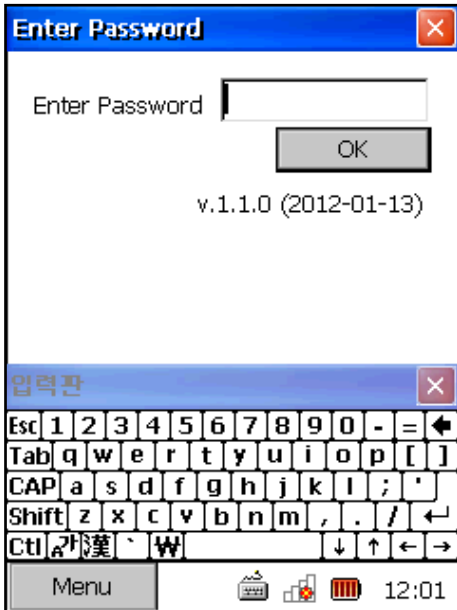


2. Admin Login

- Can activate 'Admin Login' by clicking 'User'

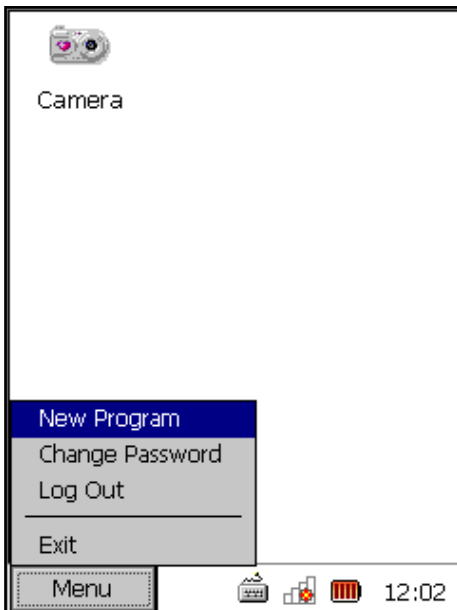


3. Admin Login



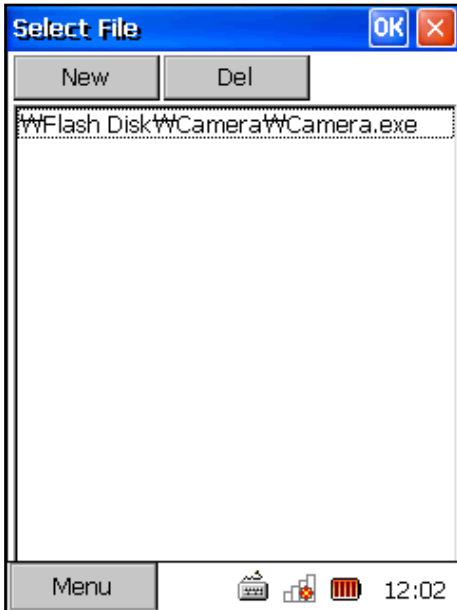
- **Enter Password:** Password (Default: mobile)

4. Admin account status



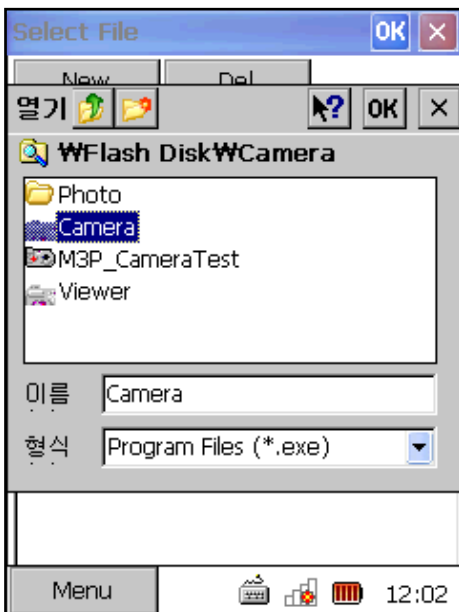
- **New Program:** Select applications you want to register to **AppCenter**
- **Change Password:** Change admin account password.
- **Log Out:** Log out from admin account
- **Exit:** Exit from **AppCenter**

5. Add New Program



- **New Button:** Selects applications you want to register to **AppCenter**
- **Del Button:** Removes registered applications
- **Close button:** Closes registering applications

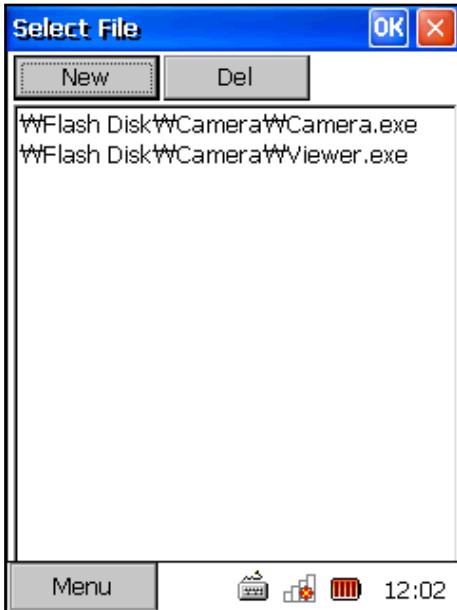
6. New Program → New



- **FILE SELECT:** Select executable file that you wish to register

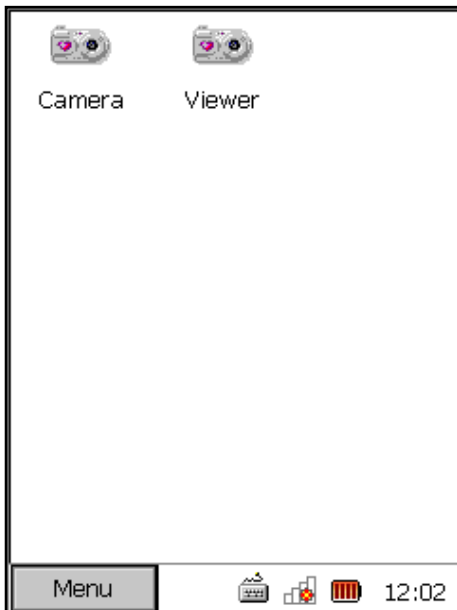
APPLICATION MANUAL

7. New Program Added



- **AppCenter** displays the path of the file once you have chosen the file

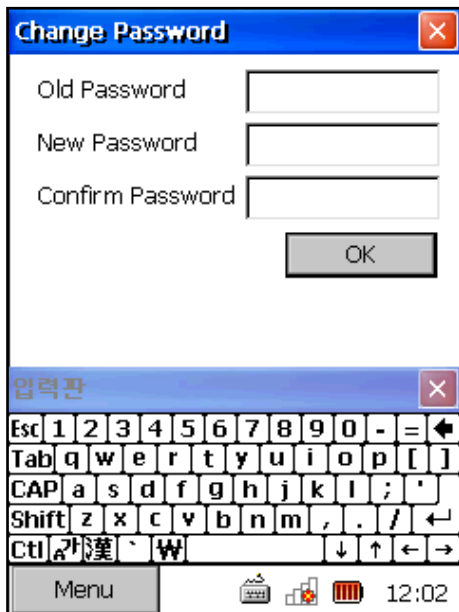
8. Application registered in AppCenter



- Registered application can be launched by clicking the icon

9. Change Password

- Changing password dialog



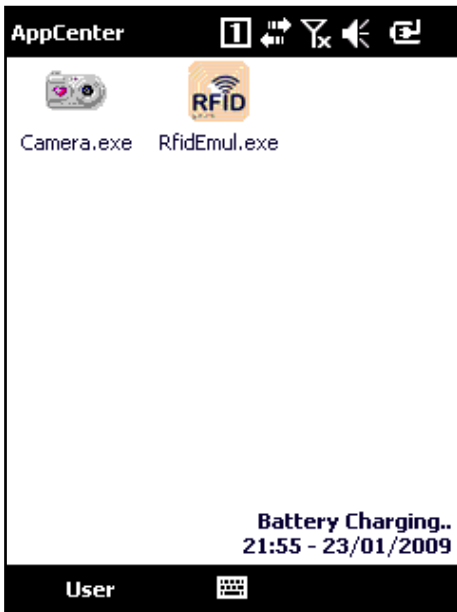
APPLICATION MANUAL

CHAPTER 12. APPCENTER (WM)

Product	Model	Type	OS	Note
M3 SKY	MC-7X00S	Software	ALL	Kiosk Mode
M3 ORANGE	M3 OREANGE	Software	ALL	Kiosk Mode
MM3	MC-8000S	Software	ALL	Kiosk Mode

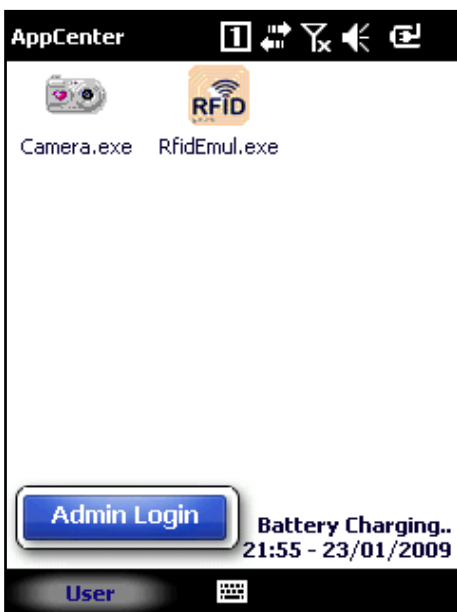
12.1 AppCenter.exe

1. First view of the program

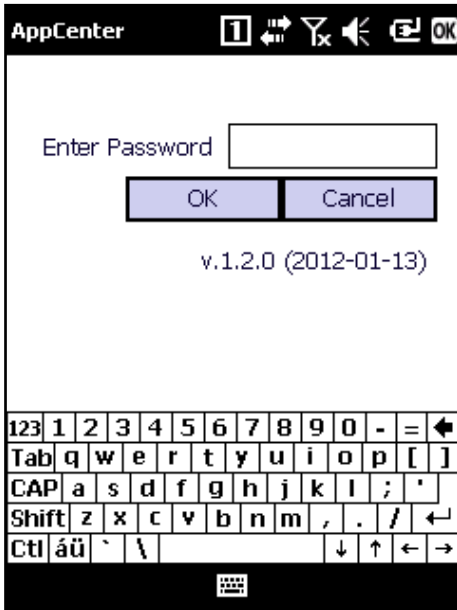


2. Admin Login

- Can activate 'Admin Login' by clicking 'User'

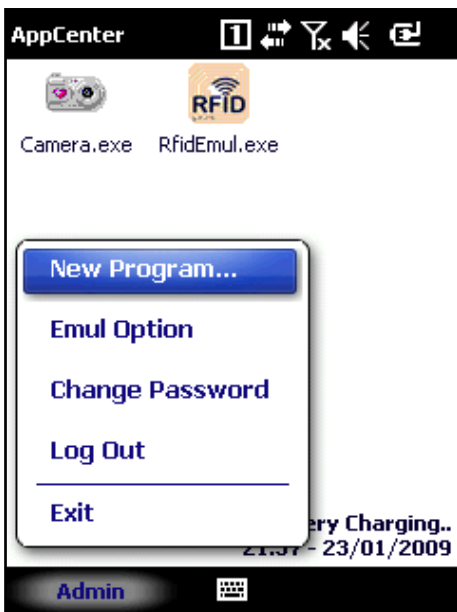


3. Admin Login



- **Enter Password:** Password (**Default: mobile**)

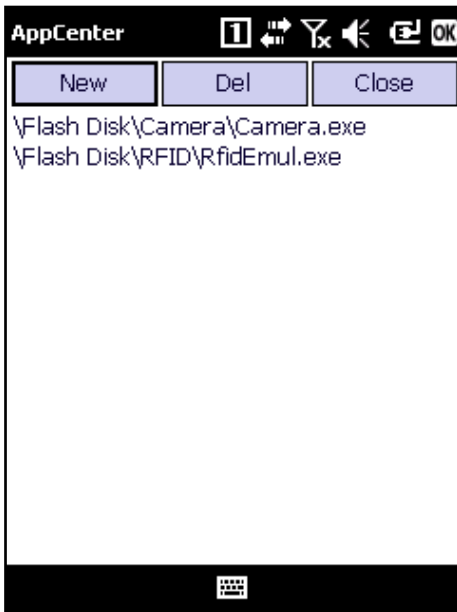
4. Admin account status



- **New Program:** Select applications you want to register to **AppCenter**
- **Emul Option:** Set **ScanEmul** and **RfidEmul** options
- **Change Password:** Change admin account password.
- **Log Out:** Log out from admin account
- **Exit:** Exit from **AppCenter**

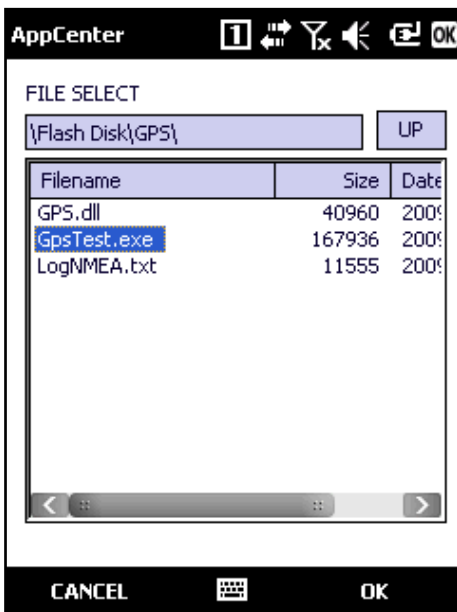
APPLICATION MANUAL

5. Add New Program



- **New Button:** Selects applications you want to register to AppCenter
- **Del Button:** Removes registered applications
- **Close button:** Closes registering applications

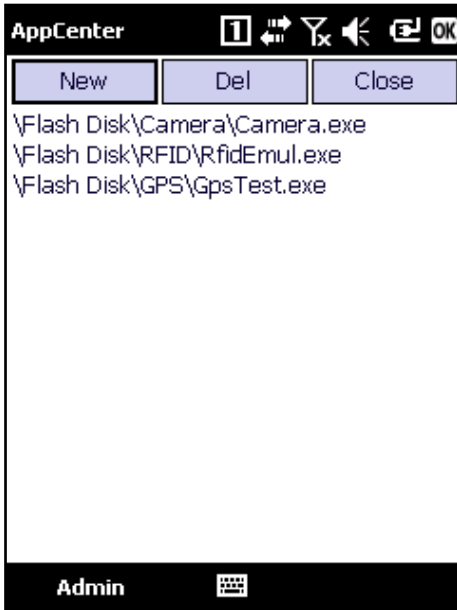
6. New Program → New



- **FILE SELECT:** Select executable file that you wish to register

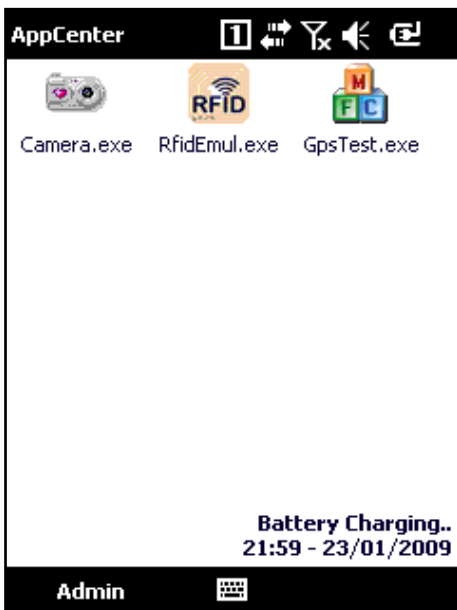
APPLICATION MANUAL

7. New Program Added



- **AppCenter** displays the path of the file once you have chosen the file

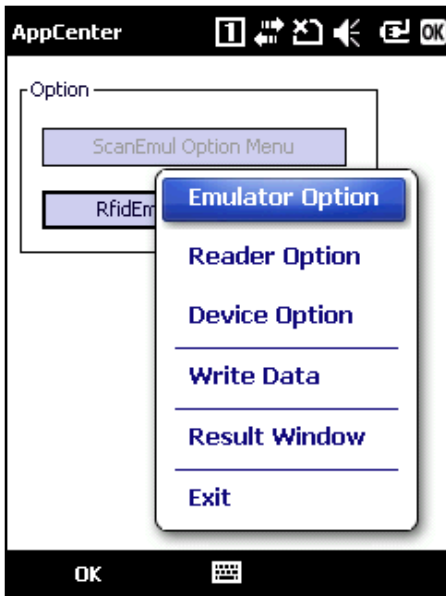
8. Application registered in AppCenter



- Registered application can be launched by clicking the icon

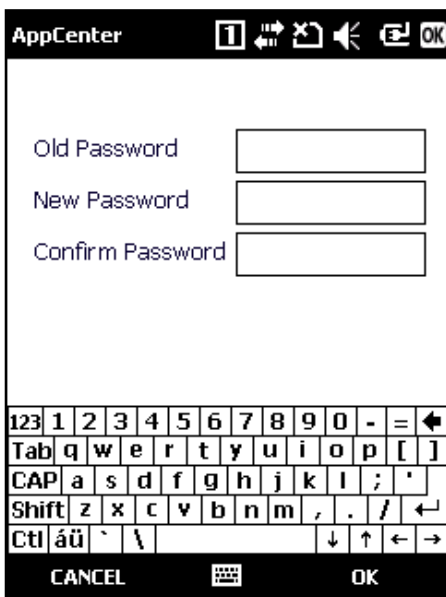
9. Emul Option

- Sets **ScanEmul** or **RfidEmul** options



10. Change Password

- Changing password dialog



APPLICATION MANUAL

Services

If you experience any trouble while using our product, you can visit **M3 Service center** or send enquires to our **online support web page** (<http://itc.m3mobile.net>), we will do our best to solve your trouble as soon as we can.

M3 FAQ document can help you with troubleshooting.

For any enquires about business program, please contact program provider for faster service.

Contact details

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Tel: +82 2 574 0037 Fax: +82 2 558 1253

www.m3mobile.net, sales@m3mobile.co.kr

Factory

Chun-ui Techno Park 201-610, 202, Chunui-Dong, WonMi-Gu, Buchoen, Gyeonggi-Do, 420-857, Korea

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Online Support Web page

<http://itc.m3mobile.net>