

APPLICATION MANUAL



Applications for M3 SKY and MM3

Version : 1.0.0

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www.m3mobile.co.kr

APPLICATION MANUAL

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Flash Disk Version Information



VERSION INFORMATION

Ver 1.0.0 (20110126)

MODULE	PROGRAM	VERSION	DATE
StartUp	McStart.exe	Ver 1.3.8	2011-01-20
	VisualINI.CAB	Ver 1.3.8	2011-01-19
SCANEER (Software Decoder)	M3ScanTest.exe	Ver 2.6.0	2010-10-25
	ScanEmul.exe	Ver 4.4.0	2010-12-15
	KScanBar.dll	Ver 1.7.2	2011-01-04
	Decoder	Ver 1.6.1	2010-12-24
	Firmware	Ver 2.0	2009-01-14
Long-Range Scanner	M3ScanTest.exe	Ver 1.0.0	2010-02-10
	ScanEmul.exe	Ver 1.0.0	2010-02-10
	KScanBar.dll	Ver 1.0.0	2010-02-10
IMAGER	M3ScanTest.exe	Ver 2.3.0	2010-10-25
	ScanEmul.exe	Ver 2.5.5	2011-01-14
	TestCam.exe	Ver 2.2.1	2011-01-14
	M3MobileImager.dll	Ver 2.4.3	2011-01-13
CAMERA	Camera.exe	Ver 1.2.3	2011-01-20
	M3SkyCamera.dll	Ver 1.2.3	2011-01-19
RFID	RF_ID_Demo.exe	Ver 1.1.0	2010-08-10
	RfidEmul.exe	Ver 1.0.3	2010-08-05
	CFReader.dll	Ver 4.1.0	2009-10-14
WLanTray	WLanTray.exe	Ver 1.0.1	2010-10-12
AppCenter	M3AppCenterWm.exe	Ver 1.0.9	2011-01-21

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CHAPTER 1. STARTUP GUIDE

Product	Model	Type	OS	Note
SKY	MC-7XX0S	StartUp	Win Mobile 5.0/6.1	In StartUp folder
MM3	MC-8000S	StartUp	Win Mobile 6.1	In StartUp folder

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 shown 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
// Ver 1.3.7 Build:2010.09.30 Copyright 2010 M3Mobile, Inc. All Right reserved.
// M3SKY / MM3
// Ver 1.3.8 Build:2011.01.20 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
// Scanner    - 0:opticon scanner, 1:symbol scanner, 2: intermec scanner,
//            3: hhp scanner
[DEVICE_TYPE]
Type=0
Scanner=0
```

It is important to set device type correctly to make it work properly. 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.

[M3SKY_SIDE_KEY]

```
Install=0
LEFTDOWN=0
LEFTUP=0
RIGHTDOWN=0
RIGHTUP=0
Blue=0
Yellow=0
SOFT1=0
SOFT2=0
```

[M3SKY_SIDE_KEY_QWERTY]

```
Install=0
Only_SendEnd=0
LEFTDOWN=0
LEFTUP=0
RIGHTDOWN=0
RIGHTUP=0
SOFT1=0
SOFT2=0
SEND=0
END=0
SCAN=0
TAB=0
ACTION=0
LEFT=0
RIGHT=0
UP=0
DOWN=0
```

[MM3_SIDE_KEY]

```
Install=0
LEFTSOFT=1
RIGHTSOFT=1
SEND=1
END=1
GREEN=1
YELLOW=1
BACKSPACE=1
TAB=1
ESC=1
SHIFT=1
```

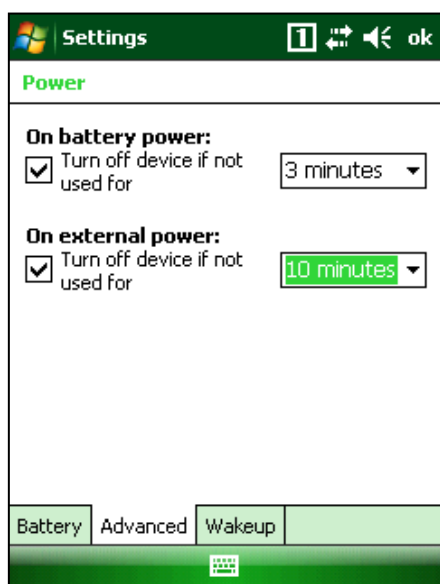
For SKY, SKY QWERTY and MM3, key customization can also be done in M3.ini. To make the changes are affected, must set the install value to 1 and reset the device. Make sure you change the right entry and install value of the other device is '0'. For example, changing MM3 values will not work on the other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

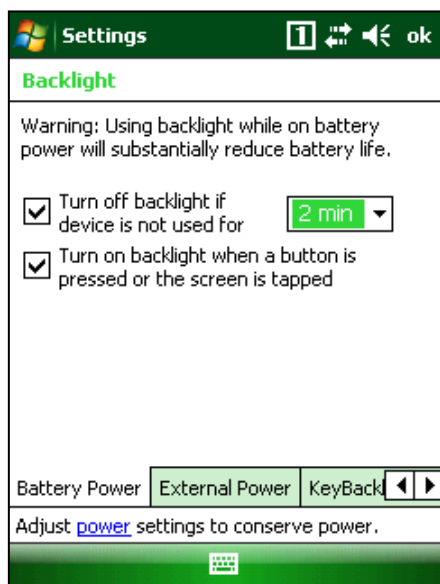
To use these options, make sure that the install value of corresponding item is '1'.

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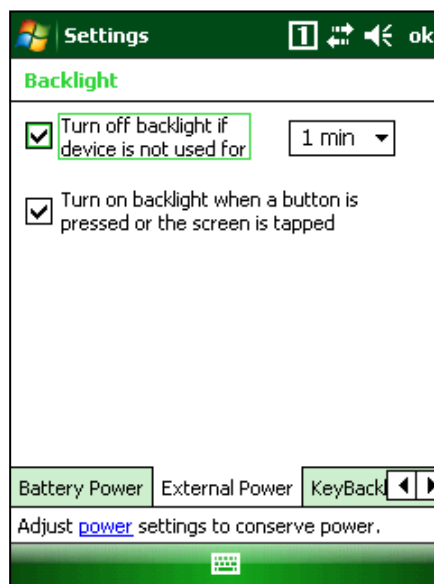


```
// BackLightTimeOut - 0:UnInstall 1:Install
// TimeOut - 0:Default=30sec 1:10sec 2:30sec 3:1min 4:2min 5:3min 6:4min 7:5min
// ACTimeOut - 0:Default=1min 1:1min 2:2min 3:3min 4:4min 5:5min 6:6min 7:7min
8:8min 9:9min 10:10min
[BACKLIGHT_TIMEOUT]
Install=0
ACInstall=0
CheckTimeOut=0
CheckACTimeOut=0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

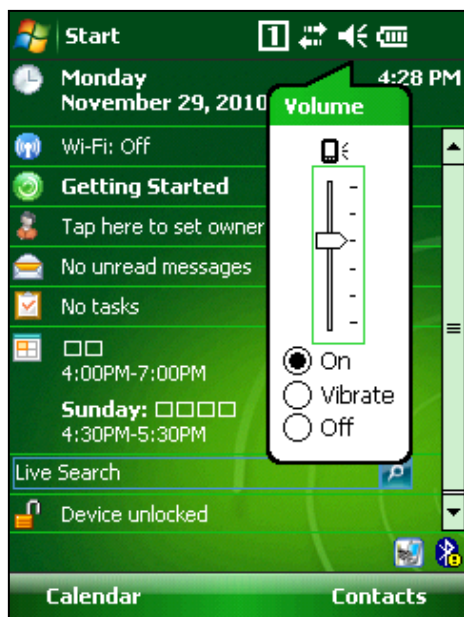
```
// BackLight - 0:UnInstall 1:Install
// Level : 0 - 9
[BACKLIGHT_LEVEL]
Install=0
Level=4
```

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).

PhoneVolume 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. Should 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
```

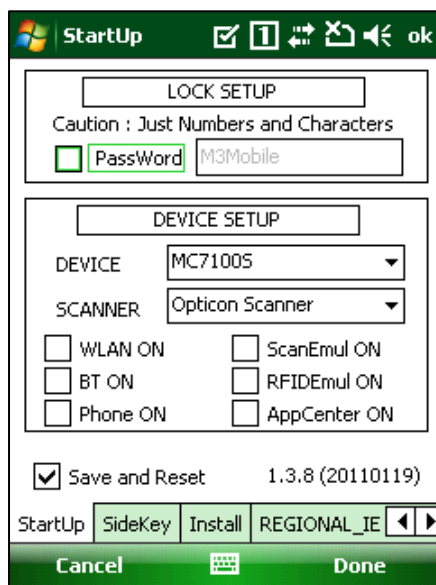
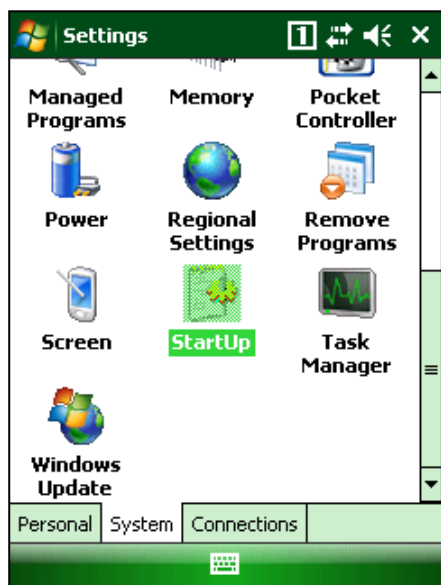
Installs WWAN Manager automatically after hard/soft reset.

```
[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 option 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. Password Page

- **Setup the Password**
- User can set whether to use password.
- Case-sensitive, non-usuable special character
- Password can be used with alphabet and numbers only.
- **Initial PassWord** : M3Mobile

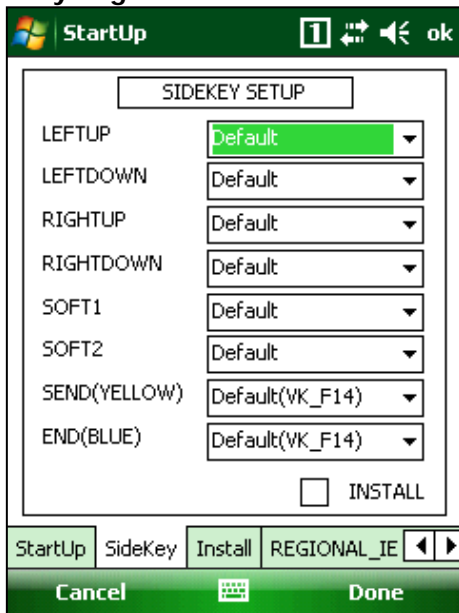
2. StartUp Page

- **Setup the StartUp**
- **LOCK SETUP** : If Password clicks, password input page will be showed up every time when program starts.
- **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.

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3. SideKey Page



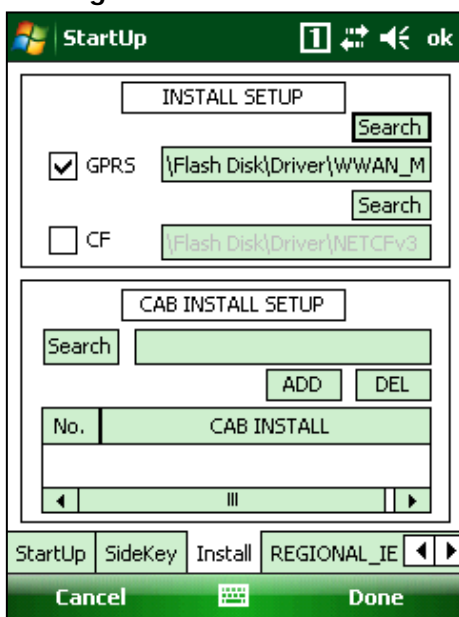
- **SIDEKEY SETUP Page**

- **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.

4. 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.

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5. Regional_SueUp Page

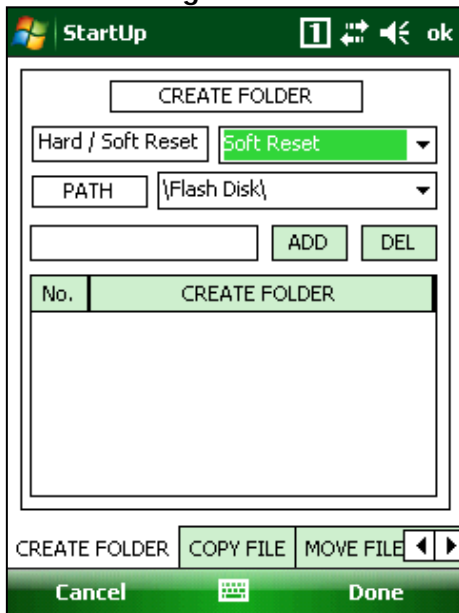
- Local language and Internet / XML setup Page
- REGIONAL SETUP
 - Primary : Major language setup
 - Sub : Subsidiary language setup
 - Regional Install : whether to apply user defined
- INTERNET EXPLORER
 - Internet start page setup
 - IE Install : Applies user defined Startup page
- XML_SETUP
 - The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

6. 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.

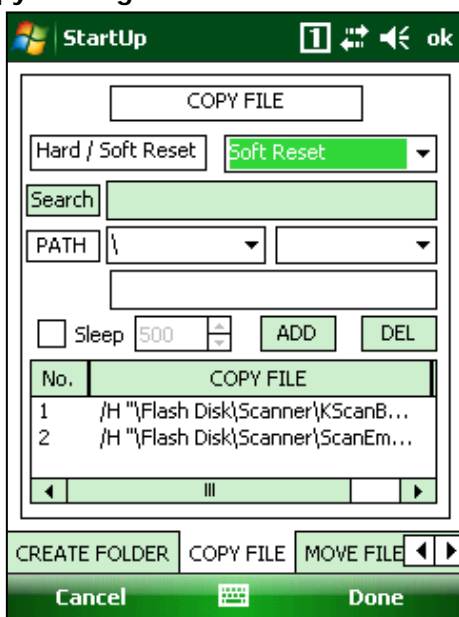
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7. Create Folder Page



- **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.

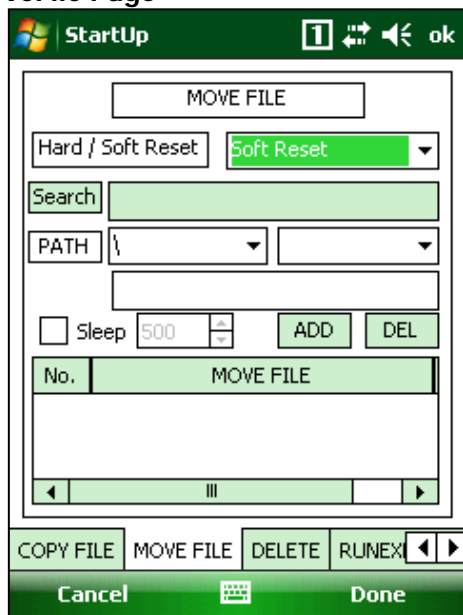
8. CopyFile Page



- **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 Copy file to a list box
- **DEL** : Delete Copyfile in a list box

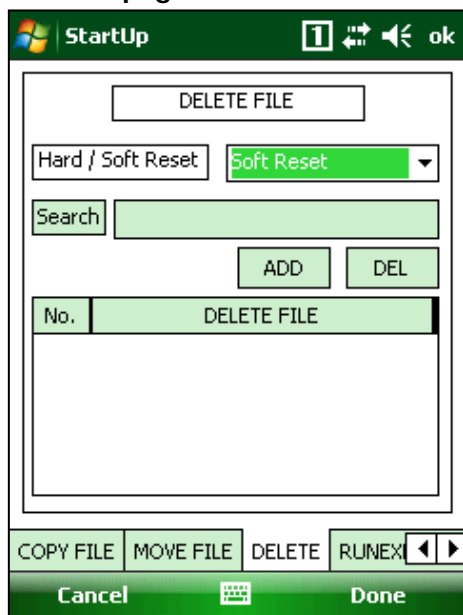
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9. MoveFile Page



- **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 Move file to a list box
- **DEL** : Delete Movefile in a list box

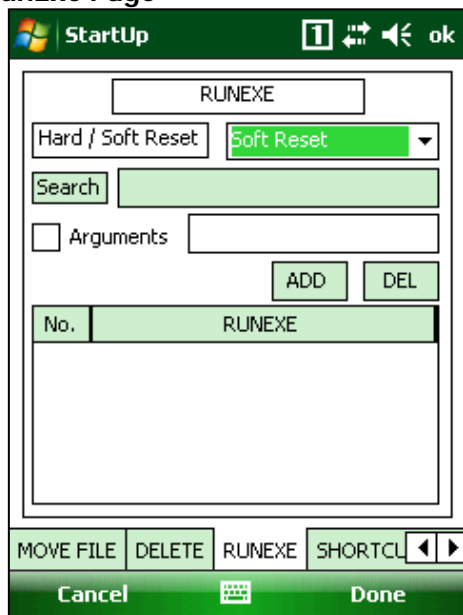
10. DeleteFile page



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

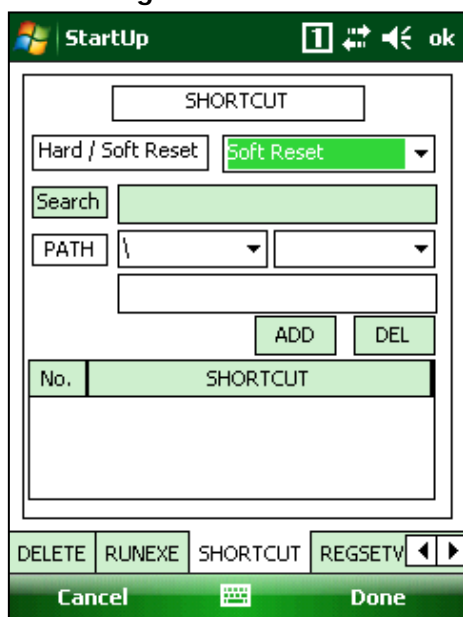
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11. RunExe Page



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

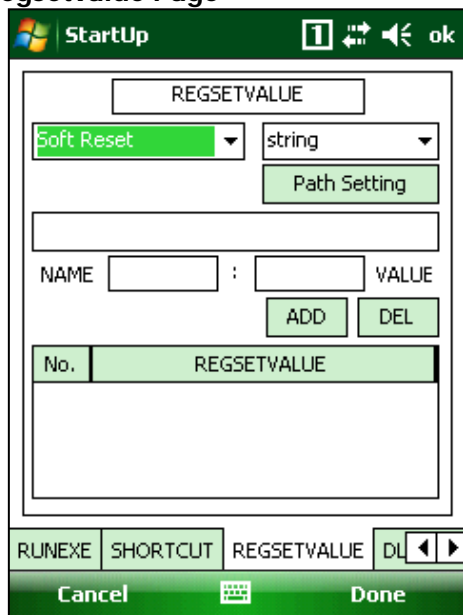
12. Shortcut Page



- **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

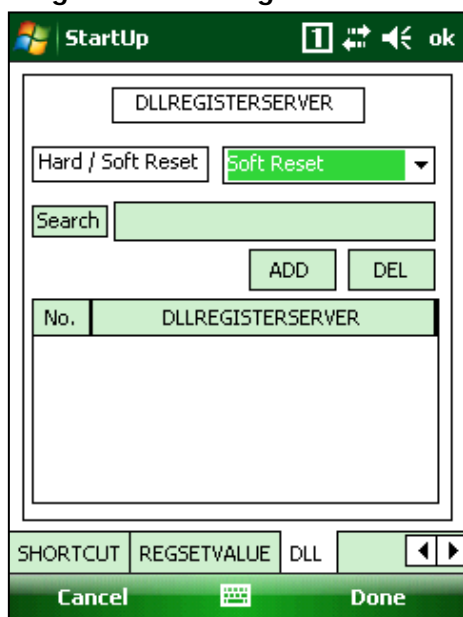
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13. Regsetvalue Page



- **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

14. DllRegisterServer Page



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

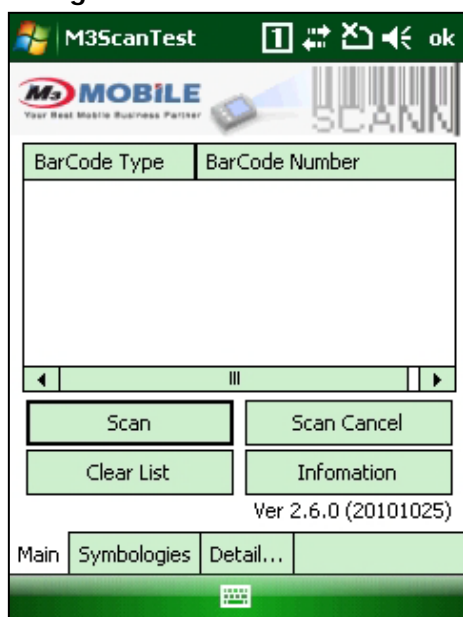
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CHAPTER 2. SCANNER

Product	Model	Type	OS	Note
SKY	MC-7XX0S	Software Decoder	Win Mobile 5.0/6.1	1D Scanner
MM3	MC-8000S	Software Decoder	Win Mobile 6.1	1D Scanner

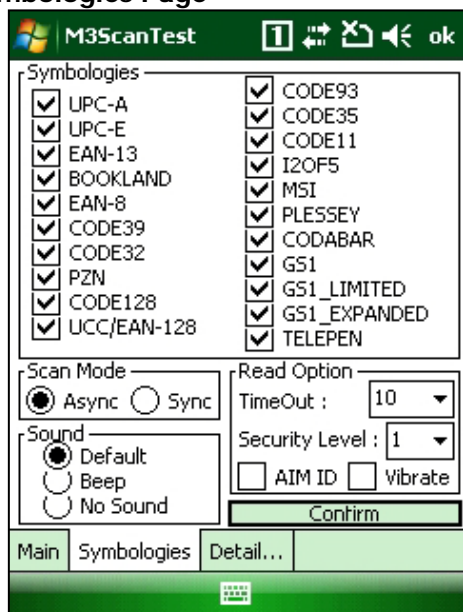
2.1 M3ScanTest.exe

1. Main Page



- **BarCode Type and data is displayed as list**
- **Scan button** : Start scanning
- **Scan Cancel** : Stop scanning
- **Clear List** : Clears the scan result in the list box.
- **Information button** : Displays firmware, dll, decoder versions
- M3ScanTest version is indicated at the bottom.

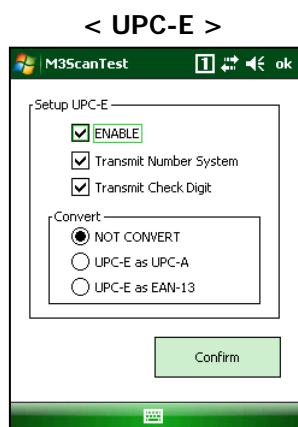
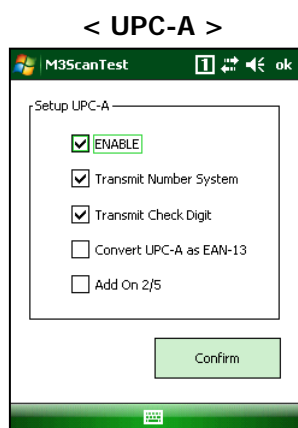
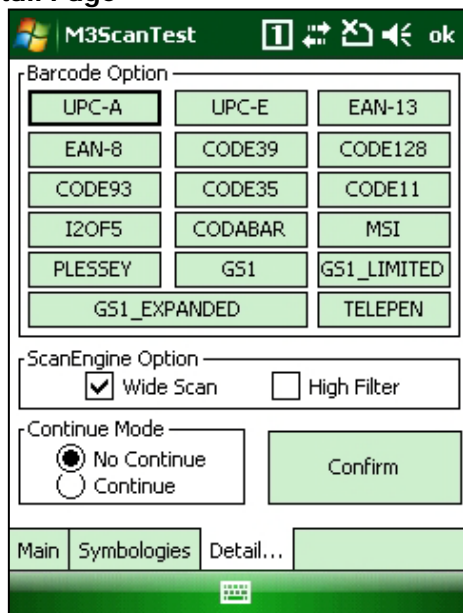
2. Symbolologies Page



- **Symbology and Scan option configuration**
- Enable or disable 21 different types of barcode
- **Scan Mode**
 - **Async** : Emits beam while the scan button is pressed. Limited by the TimeOut.
 - **Sync** : Emits beam for TimeOut period.
- **Read Option**
 - **TimeOut** : Beam emitting duration
 - **Security Level** : Determines how many successful read(s) confirm the result. Ex) 2 means it needs to successfully read the barcode twice to output the result
 - **AIM ID** : Add AIM ID of the barcode at the front of the data.
 - **Vibrate** : Vibrate after a successful scan.
- **Sound**
 - **Default** : default sound after a successful scan
 - **Beep** : Beeps after a successful scan
 - **No Sound** : No sound after a successful scan

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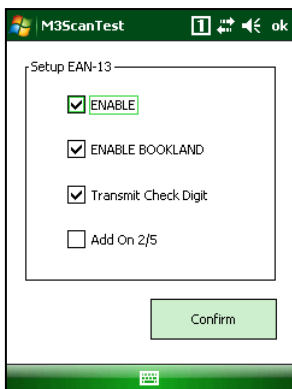
3. Detail Page



- **Advanced configuration for each barcode**
 - Enter advanced settings for each barcode type by click on them
 - **ScanEngine Option**
 - **Wide Scan** : Controls the width of the beam.
 - **High Filter** : Improved filter of scan engine. Improves accuracy but slows decoding.
 - **Continue Mode**
 - **No Continue** : Beam stops after a successful scan.
 - **Continue** : Beam keeps emitting after a successful scan.
-
- **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

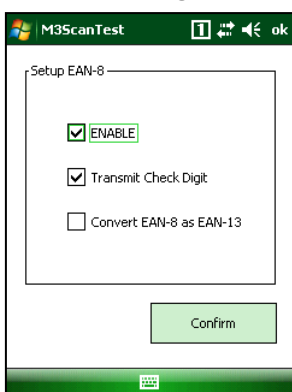
APPLICATION MANUAL

< EAN-13 >



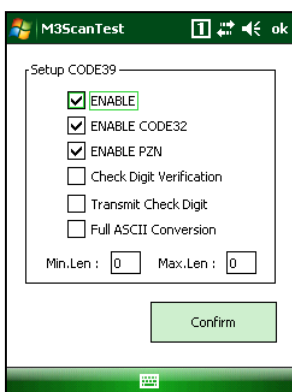
- **ENABLE** : Enable barcode decoding
- **ENABLE BOOKLAND** : Enable BOOKLAND_EAN barcodes. When unchecked, it will read BOOKLAND_EAN type as simple EAN-13
- **Transmit Check Digit** : Check digit output option
- **Add On 2/5** : Option to read two consecutive barcodes when EAN-13 types have neighboring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

< 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

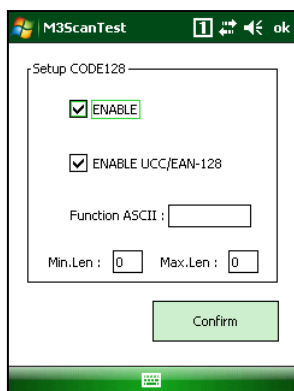
< Code39 >



- **ENABLE** : Enable barcode decoding
- **ENABLE CODE32** : Enable code32 barcodes. When unchecked, it will read code32 type as simple code39
- **ENABLE PZN** : Enable PZN barcodes. When unchecked, it will read PZN type as simple code39
- **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
- **Min / Max Length** : Minimum and maximum length of the readable data

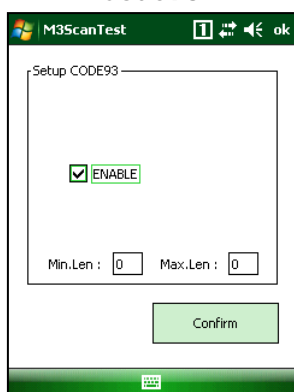
APPLICATION MANUAL

< Code128 >



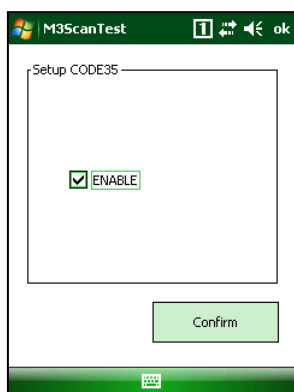
- **ENABLE** : Enable barcode decoding
- **ENABLE UCC/EAN-128** : Enable UCC/EAN-128 barcodes. When unchecked, it will read UCC/EAN-128 type as simple code128
- **Function ASCII** : Allows the user to insert data for supported types of code128 barcodes
- **Min / Max Length** : Minimum and maximum length of the readable data

< Code93 >



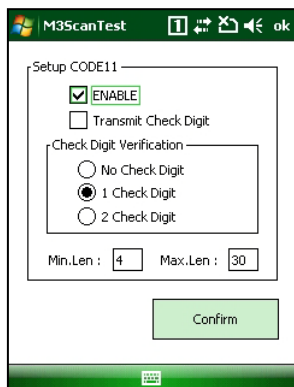
- **ENABLE** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< Code35 >



- **ENABLE** : Enable barcode decoding

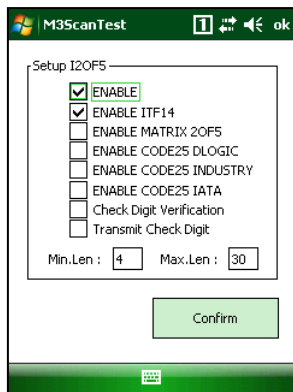
< Code11 >



- **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

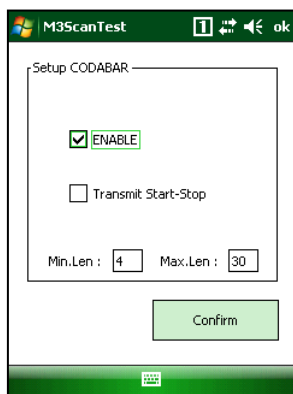
APPLICATION MANUAL

< I2OF5 > (Interleaved 2 of 5)



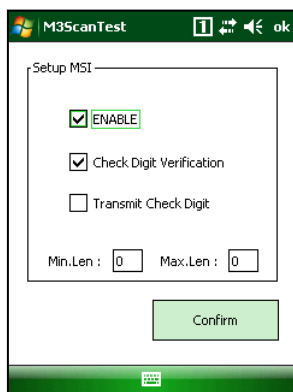
- **ENABLE** : Enable barcode decoding
- **ENABLE ITF14** : Enable ITF14 barcodes
- **ENABLE MATRIX 2OF5** : Enable MATRIX 2OF5 barcodes
- **ENABLE DATALOGIC** : Enable DATALOGIC barcodes
- **ENABLE INDUSTRY** : Enable INDUSTRY barcodes
- **ENABLE IATA** : Enable IATA barcodes
- **Check Digit Verification**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

< CODABAR >



- **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

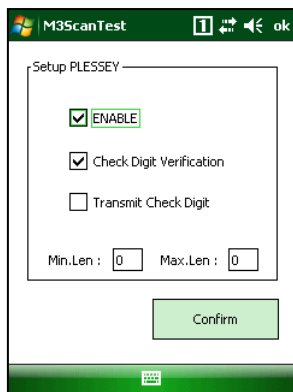
< MSI >



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

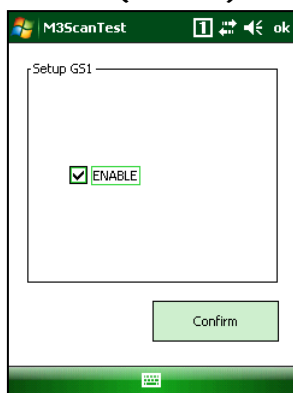
APPLICATION MANUAL

< PLESSEY >



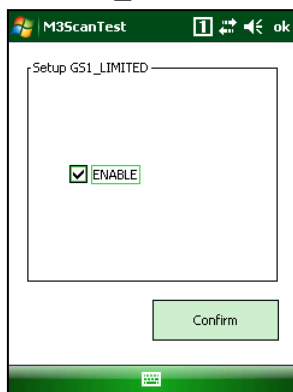
- **ENABLE** : Enable barcode decoding
- **Check Digit Verification** : Only decodes the barcode with check digit
- **Transmit Check Digit** : Check digit output option
- **Min / Max Length** : Minimum and maximum length of the readable data

< GS1(RSS-14) >



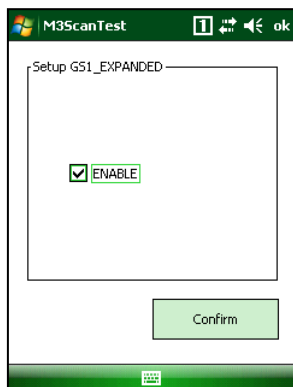
- **ENABLE** : Enable barcode decoding

< GS1_LIMITED >



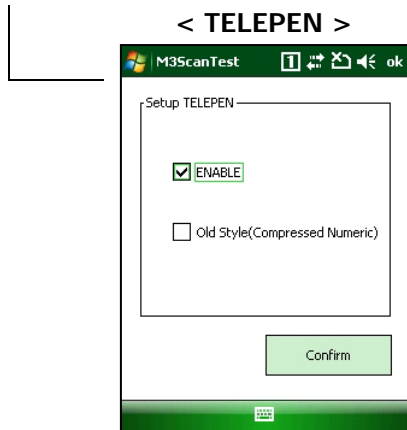
- **ENABLE** : Enable barcode decoding

< GS_EXPANDED >



- **ENABLE** : Enable barcode decoding

APPLICATION MANUAL

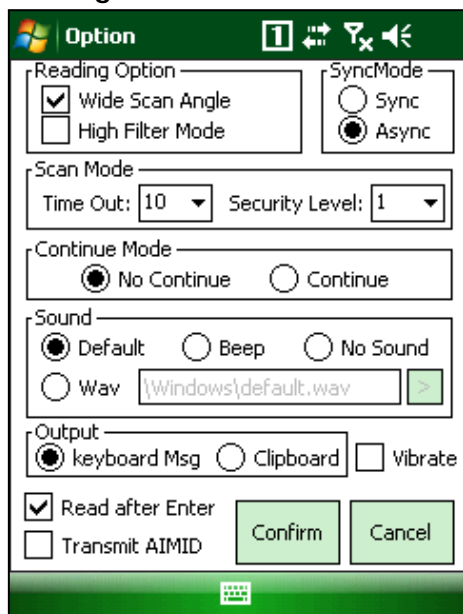


- **ENABLE** : Enable barcode decoding
- Old Style (Compressed Numeric)

APPLICATION MANUAL

2.2 ScanEmul.exe

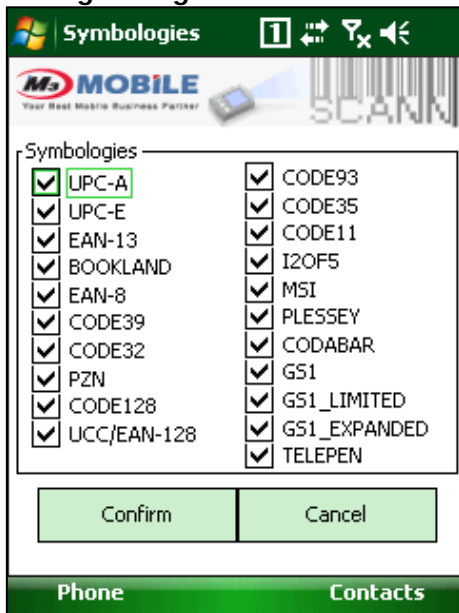
1. Option Page



- **Reading Option**
 - **Wide Scan Angle:** Controls the width of the beam
 - **High Filter Mode:** Improved filter of scan engine. Improves accuracy but slows decoding.
- **SyncMode**
 - **Async :** Emits beam while the scan button is pressed. Limited by the TimeOut.
 - **Sync :** Emits beam for TimeOut period
- **Scan Mode**
 - **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**
 - **No Continue :** same as normal scanning
 - **Continue :** Emits beam constantly even after reading barcode
- **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
- **Output**
 - **keyboard Msg :** Outputs the result as keyboard type
 - **Clipboard :** Outputs the result to clipboard
- **Vibrate :** Vibrate after a successful scan. Only valid for terminals with phone module
- **Read after Enter :** Send VK_RETURN message after read
- **Transmit AIMID :** Output AIM ID of the barcode

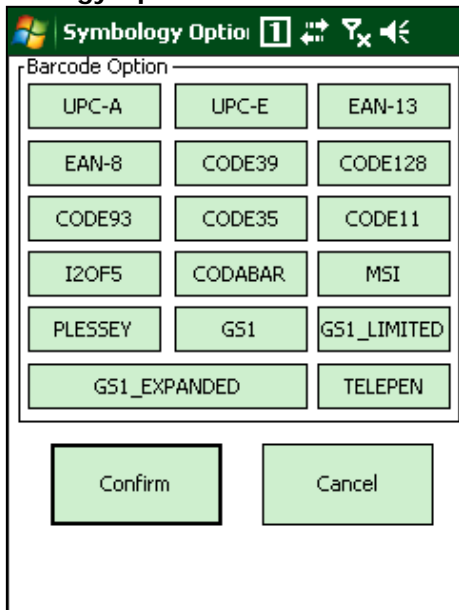
APPLICATION MANUAL

2. Symbolologies Page



- Enable or disable 21 different types of barcode

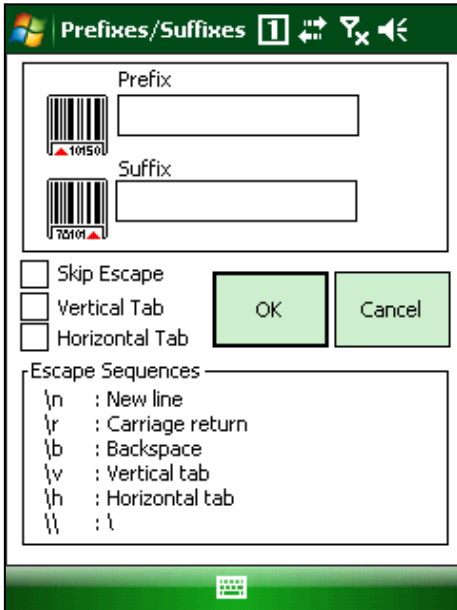
3. Symbology Option



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

APPLICATION MANUAL

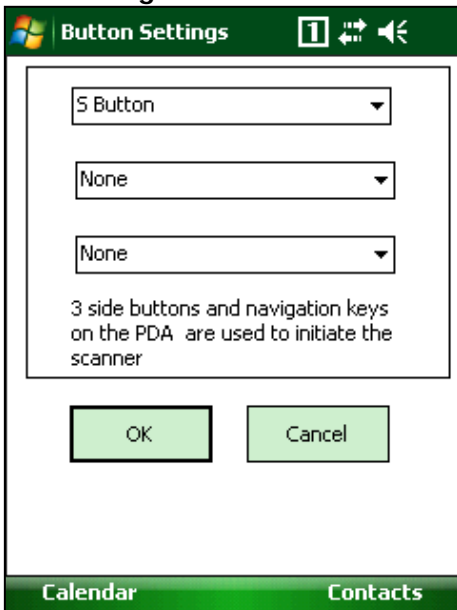
4. Prefixes / Suffixes



The 'Prefixes/Suffixes' dialog box has a green title bar with a Windows logo, a '1' icon, and navigation icons. It contains two input fields for 'Prefix' and 'Suffix', each with a barcode icon to its left. Below these are three checkboxes: 'Skip Escape', 'Vertical Tab', and 'Horizontal Tab'. To the right of these checkboxes are 'OK' and 'Cancel' buttons. At the bottom is a list of 'Escape Sequences':
\\n : New line
\\r : Carriage return
\\b : Backspace
\\v : Vertical tab
\\h : Horizontal tab
\\ : \

- **Prefix** : Enter data or command at the front of barcode data
- **Suffix** : Enter data or command at the end of barcode data
- **Skip Escape** : Disables Escape Sequences listed in below box
- **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

5. Button Setting

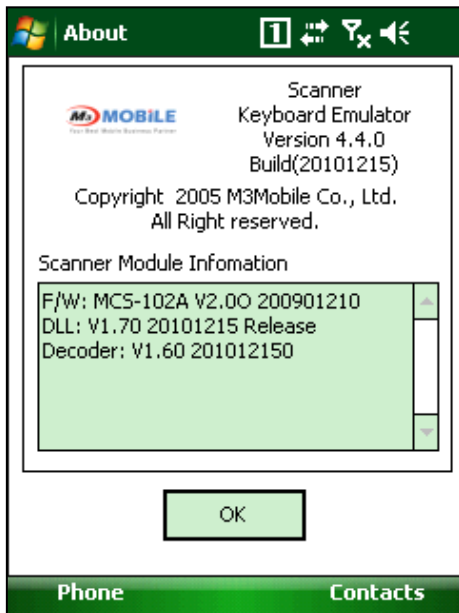


The 'Button Settings' dialog box has a green title bar with a Windows logo, a '1' icon, and navigation icons. It contains three dropdown menus: the first is set to 'S Button', and the other two are set to 'None'. Below the dropdowns is a text box containing the text: '3 side buttons and navigation keys on the PDA are used to initiate the scanner'. At the bottom are 'OK' and 'Cancel' buttons. The bottom of the dialog has a green bar with 'Calendar' and 'Contacts' labels.

- Support up to 3 keys
- Can use the 4 side keys

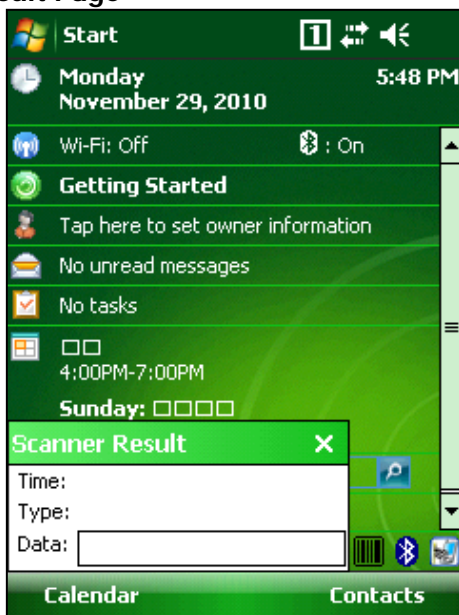
APPLICATION MANUAL

6. About



- Shows versions of
 - ScanEmul
 - Firmware
 - DLL
 - Decoder

7. Result Page



- Displays
 - Decoded data
 - Barcode Type
 - Time taken

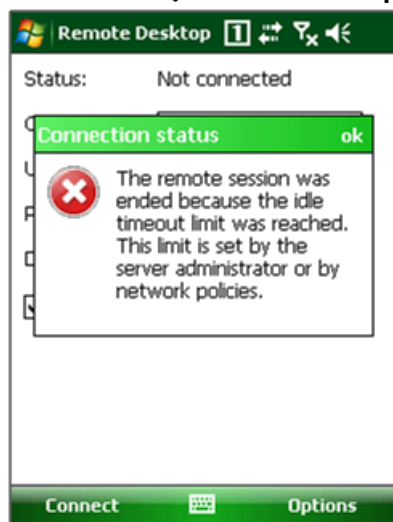
8. Symbology Advance Settings in ScanEmul

It is the same as the option settings shown in the ScanTest.exe section. Please refer to ScanTest.exe section for more details.

2.3 Helpful Tips



■ The RDC (Remote Desktop Connection) is disconnected automatically.

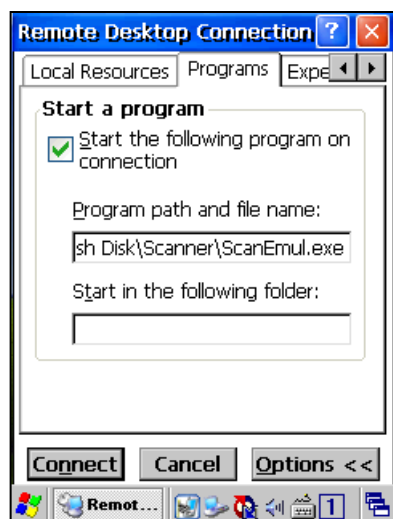


If you are using the RDC (Remote Desktop Connection) on your PDA, you may experience automatic disconnection of the RDC with the left error message on the screen. This error message appears because the terminal has been in the idle state for longer than the time limit set by the server administrator or by network policies as indicated in the message. The time limit is usually set to 10 minutes.

Since the time limit is set by the network system, it will not be solved by any configuration on the PDA. To prevent this automatic disconnection, 1. You will need to set the time limit longer than 10 minutes on the network system (consult your network administrator) or 2. Periodically send a packet to the server on you application to avoid going in to the idle state for longer than 10 minute. The packet sending period should be less than 10 minutes

obviously. Please alter either the 1) network system time limit or 2) your application on your preference.

■ Scan button does not work in Remote Desktop of M3 GREEN.



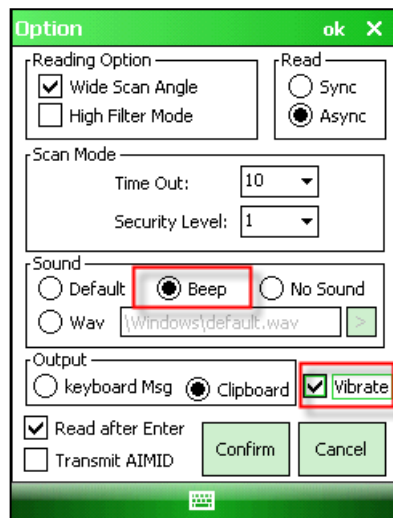
If scan button is not working in ScanEmul when using Remote Desktop, check the following lists.

Checking procedure:

1. WLAN must be connected to an AP properly.
2. Check if you can browse a website (Eg: www.google.com).
3. Launch Remote Desktop and configure as below.
 \ Flash Disk\ Scanner\ ScanEmul.exe
4. Close the option Page and enter IP address that you wish to access.
5. Click connect button and enter appropriate ID and PW to connect to remote desktop.
6. Perform scan test after opening notepad or wordpad from remote desktop.

APPLICATION MANUAL

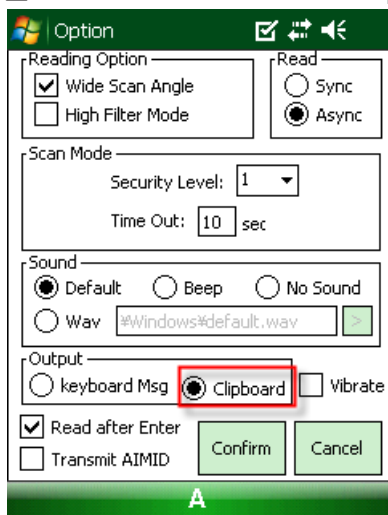
■ Scanner sound is too weak.



Sound for a successful scan can be configured from ScanEmul option Page.

Beep will provide higher frequency and louder sound. Moreover, user may change to different wav file. If the device has phone function (equipped with CDMA, GSM etc) can use vibrate option.

■ How to switch between Upper and Lowercase of decoded character



Scan output type can be configured from ScanEmul option.

Keyboard Msg output is affected by virtual keypad settings. For instance, if the CAP button is pressed in SIP, the result will be in capital letter.

Clipboard output is not affected by virtual keypad settings.

Note : Default type is keyboard Msg.

Keyboard Msg: Outputs the barcode results one by one
(Slower than clipboard type).

Clipboard: Outputs the whole result at once as in 'copy and paste'
(faster than the keyboard Msg type).

APPLICATION MANUAL

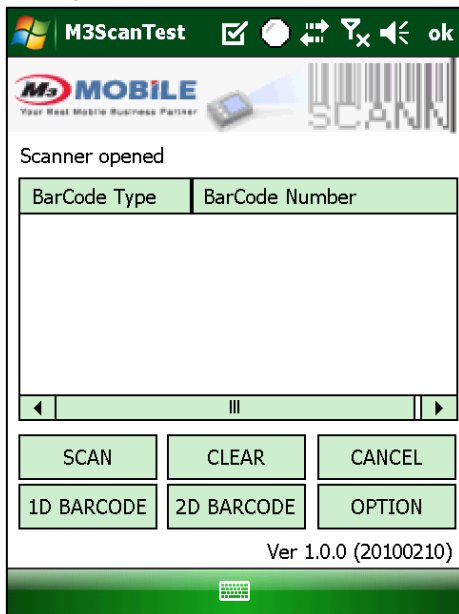


CHAPTER 3. LONG-RANGE SCANNER

Product	Model	Type	OS	Note
MM3	MC-8000S	Hardware Decoder	Win Mobile 6.1	1D Scanner

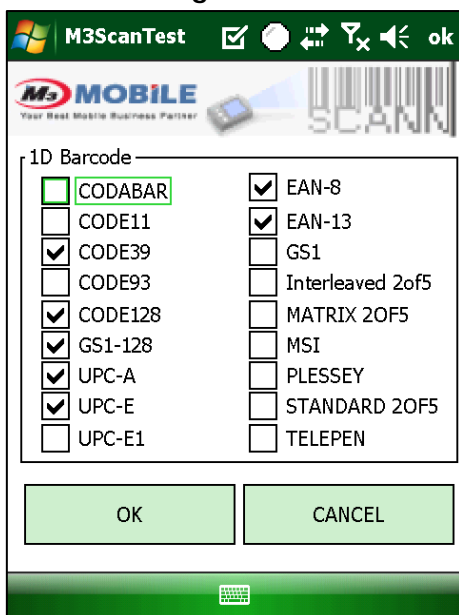
3.1 M3ScanTest.exe

1. Main Page



- **BarCode Type and data is displayed as list**
- **SCAN** : Start scanning
- **CANCEL** : Stop scanning
- **CLEAR** : Clear the scan result in the list box
- **1D BARCODE** : 1D Symbology configuration
- **2D BARCODE** : 2D Symbology configuration
- **OPTION** : Scan Option configuration

2. 1D Barcode Dialog

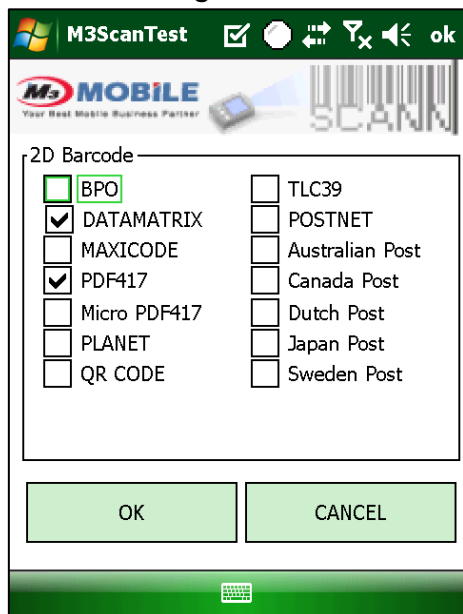


- **1D Symbologies configuration**
- Enable or disable 18 different types of 1D barcode

APPLICATION MANUAL

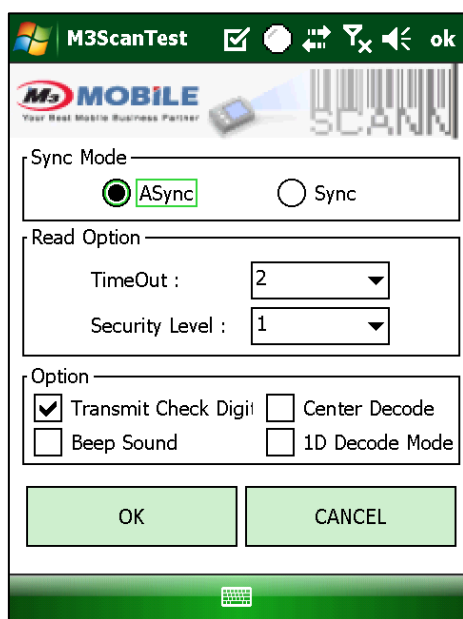


3. 2D Barcode Dialog



- **2D Symbologies configuration**
- Enable or disable 14 different types of 2D barcode

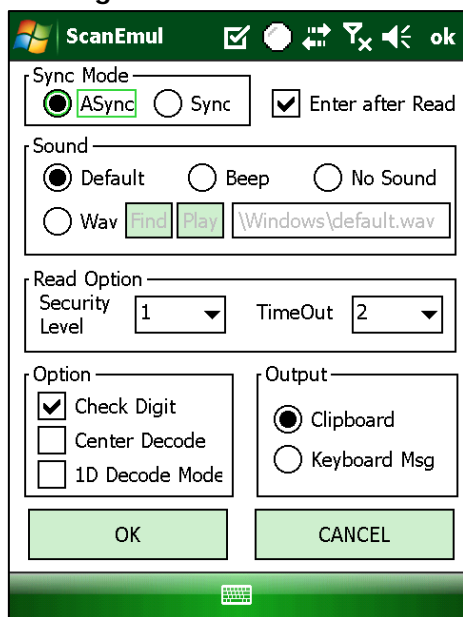
4. New Program Added



- **Scan Option configuration**
- **Sync Mode**
 - **ASync** : Emits beam while the scan button is pressed. Limited by the TimeOut.
 - **Sync** : Emits beam for TimeOut period.
- **Read Option**
 - **TimeOut** : Beam emitting duration
 - **Security Level** : Determines how many successful read(s) confirm the result. Ex) 2 means it needs to successfully read the barcode twice to output the result
- **Option**
 - **Transmit Check Digit** : Check digit output option
 - **Center Decode** : Reading the center barcode
 - **Beep Sound** : Beeps after a successful scan
 - **1D Decode Mode** : Only decoding 1D Barcode.

3.2 ScanEmul.exe

1. Option Page



- **SyncMode**
 - **ASync** : Emits beam while the scan button is pressed. Limited by the TimeOut.
 - **Sync** : Emits beam for TimeOut period
- **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
- **Read 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
- **Option**
 - **Transmit Check Digit** : Check digit output option
 - **Center Decode** : Reading the center barcode
 - **Beep Sound** : Beeps after a successful scan
 - **1D Decode Mode** : Only decoding 1D Barcode.
- **Output**
 - **keyboard Msg** : Outputs the result as keyboard type
 - **Clipboard** : Outputs the result to clipboard

APPLICATION MANUAL



2. 1D Symbolologies Page

1D Barcode

<input type="checkbox"/> CODABAR	<input checked="" type="checkbox"/> EAN-8
<input type="checkbox"/> CODE11	<input checked="" type="checkbox"/> EAN-13
<input checked="" type="checkbox"/> CODE39	<input type="checkbox"/> GS1
<input type="checkbox"/> CODE93	<input type="checkbox"/> Interleaved 2of5
<input checked="" type="checkbox"/> CODE128	<input type="checkbox"/> MATRIX 2OF5
<input checked="" type="checkbox"/> GS1-128	<input type="checkbox"/> MSI
<input checked="" type="checkbox"/> UPC-A	<input type="checkbox"/> PLESSEY
<input checked="" type="checkbox"/> UPC-E	<input type="checkbox"/> STANDARD 2OF5
<input type="checkbox"/> UPC-E1	<input type="checkbox"/> TELEPEN

OK CANCEL

- 1D Symbolologies configuration
- Enable or disable 18 different types of 1D barcode

3. 2D Symbolologies Page

2D Barcode

<input type="checkbox"/> BPO	<input type="checkbox"/> TLC39
<input checked="" type="checkbox"/> DATAMATRIX	<input type="checkbox"/> POSTNET
<input type="checkbox"/> MAXICODE	<input type="checkbox"/> Australian Post
<input checked="" type="checkbox"/> PDF417	<input type="checkbox"/> Canada Post
<input type="checkbox"/> Micro PDF417	<input type="checkbox"/> Dutch Post
<input type="checkbox"/> PLANET	<input type="checkbox"/> Japan Post
<input type="checkbox"/> QR CODE	<input type="checkbox"/> Sweden Post

OK CANCEL

- 2D Symbolologies configuration
- Enable or disable 14 different types of 2D barcode

APPLICATION MANUAL



4. Prefixes / Suffixes

The dialog box has a green title bar with the Windows logo, 'ScanEmul' text, and icons for window management and 'ok'. It contains two input fields: 'Prefix :' and 'Suffix :', each preceded by a barcode icon. Below these are 'OK' and 'CANCEL' buttons. At the bottom, an 'Escape Sequences' section lists: \n : New line, \r : Carriage return, \b : Backspace, \t : Vertical tab, and \\ : \.

- **Prefix** : Enter data or command at the front of barcode data
- **Suffix** : Enter data or command at the end of barcode data

5. Button Setting

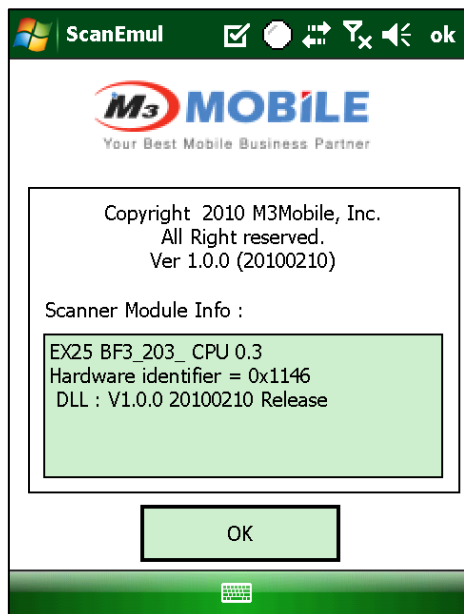
The dialog box has a green title bar with the Windows logo, 'ScanEmul' text, and icons for window management and 'ok'. It features three dropdown menus: the first is set to 'Scan Button', the second to 'None', and the third to 'None'. Below the dropdowns, text states: '3 side buttons and navigation keys on the PDA are used to initiate the scanner'. At the bottom are 'OK' and 'CANCEL' buttons.

- Support up to 3 keys
- Can use 4 of navigation keys

APPLICATION MANUAL

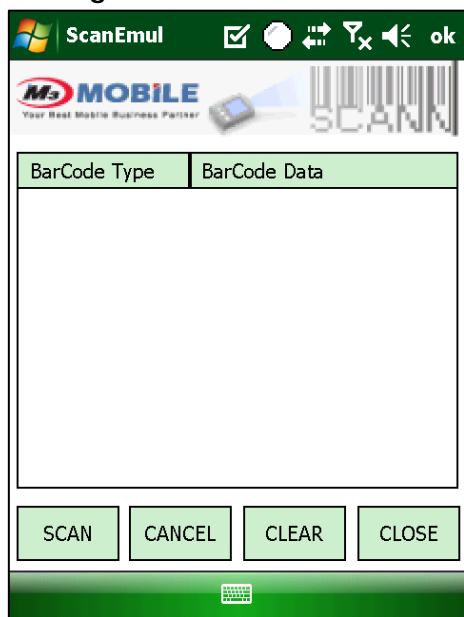


6. About



- Shows versions of
 - ScanEmul
 - Hardware ID
 - DLL

7. Result Page



- **BarCode Type and data is displayed as list**
- **SCAN** : Start scanning
- **CANCEL** : Stop scanning
- **CLEAR** : Clear the scan result in the list box

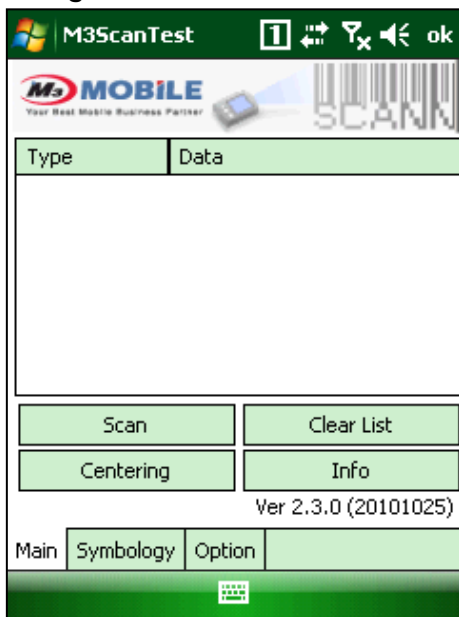
APPLICATION MANUAL

CHAPTER 4. IMAGER

Product	Model	Type	OS	Note
SKY	MC-7XX0S	5100/5300 SR/SF/HD	Win Mobile 5.0/6.1	2D Scanner
MM3	MC-8000S	5100/5300 SR/SF/HD	Win Mobile 6.1	2D Scanner

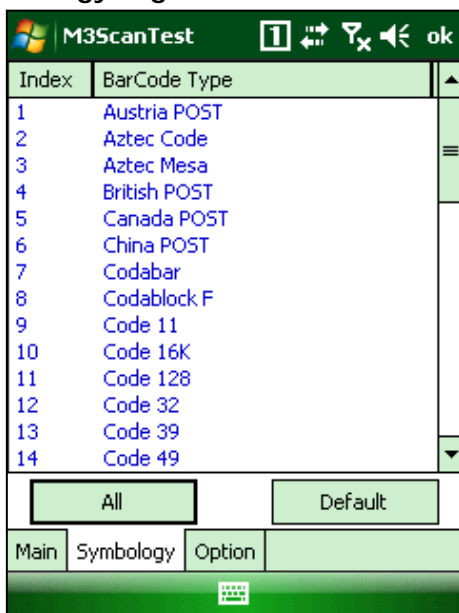
4.1 ScanTest.exe

1. Main Page



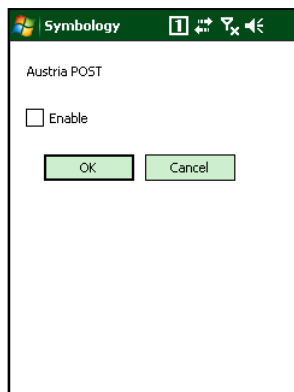
- **Scan** : Scanning button
- **Clear List** : Clears the scan result in the list box
- **Centering** : Imager Centering Mode
- **Info** : Imager version

2. Symbology Page



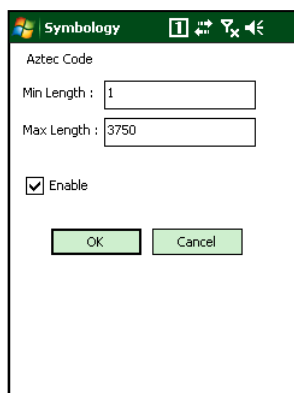
- **Symbology Enable/Disable option configuration**
- **All** : Enable all barcode
- **Default** : Sets BarCode as initial values

<Austria Post>



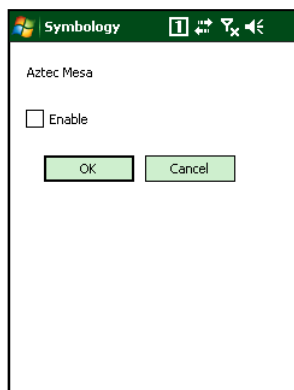
- **Enable** : Enable barcode decoding

< Aztec Code >



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

< Aztec Mesa >



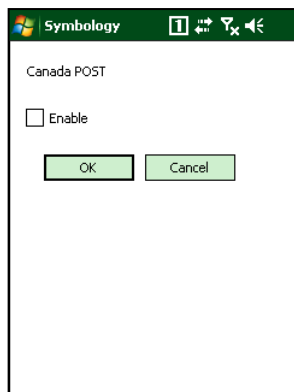
- **Enable** : Enable barcode decoding

< British Post >



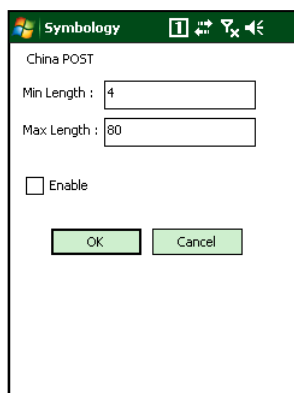
- **ENABLE** : Enable barcode decoding

< Canada Post >



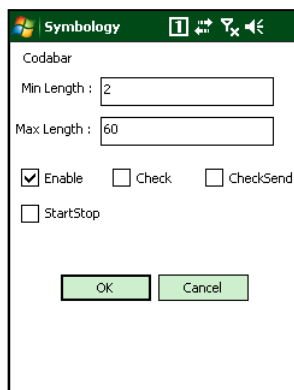
- **Enable** : Enable barcode decoding

< China Post >



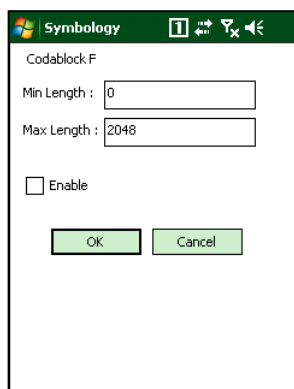
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< Codabar >



- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data
- **Check** : Check Digit
- **CheckSend** : Shows the CheckDigit.
- **StartStop** : Shows the Start-Stop Bit.

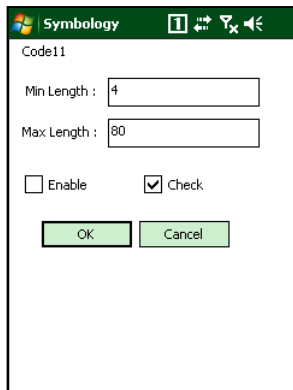
< CodablockF >



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

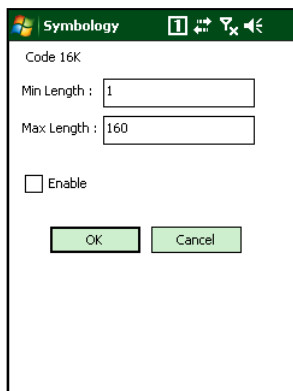
APPLICATION MANUAL

< Code11 >



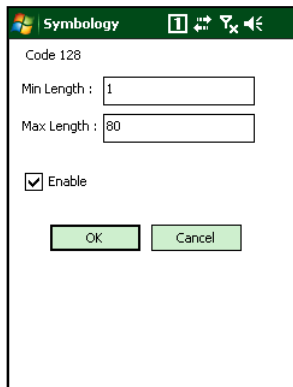
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data
- **Check** : Check Digit

< Code16K >



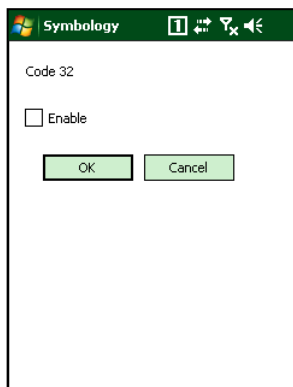
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< Code 128 >



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

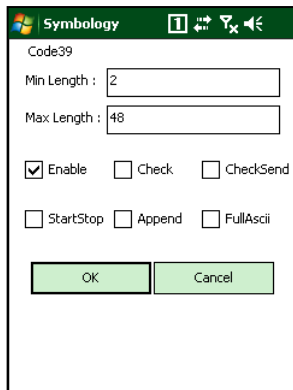
< Code 32 >



- **Enable** : Enable barcode decoding

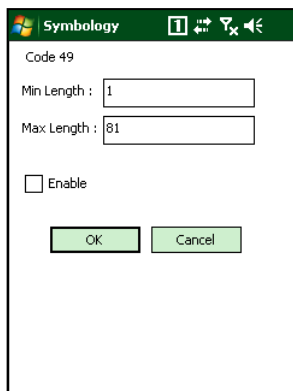
APPLICATION MANUAL

< Code39 >



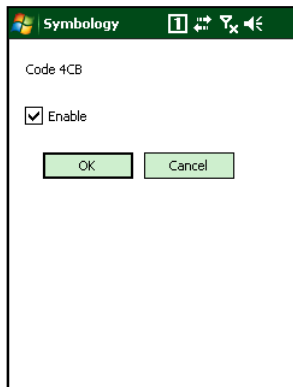
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data
- **Check** : Check Digit
- **CheckSend** : Shows the CheckDigit.
- **StartStop** : Shows the Start-Stop Bit.
- **Append**
- **FullASCII** : Set up if barcode contains letter

< Code 49 >



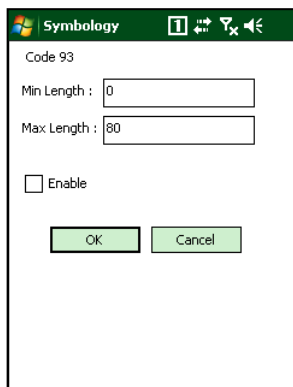
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< Code 4CB >



- **Enable** : Enable barcode decoding

< Code 93 >



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

APPLICATION MANUAL



< DATA Matrix >

DATA Matrix

Min Length : 1

Max Length : 1500

☐ Enable

OK Cancel

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

< EAN-8 >

EAN-8

☐ Enable ☐ CheckSend

☐ Addenda2 ☐ Addenda5

☐ AddendaReq ☐ AddendaSep

OK Cancel

- **Enable** : Enable barcode decoding
- **CheckSend** : Shows the CheckDigit
- **Addenda2** : Add on 2
- **Addenda5** : Add On 5
- AddendaReq
- AddendaSep

< EAN-13 >

EAN-13

☒ Enable ☐ CheckSend

☐ Addenda2 ☐ Addenda5

☐ AddendaReq ☐ AddendaSep

☐ ISBN

OK Cancel

- **Enable** : Enable barcode decoding
- **CheckSend** : Shows the CheckDigit
- **Addenda2** : Add on 2
- **Addenda5** : Add On 5
- AddendaReq
- AddendaSep
- **ISBN** : Enable ISBN barcode

<EAN/UCC Composite>

Composite

Min Length : 1

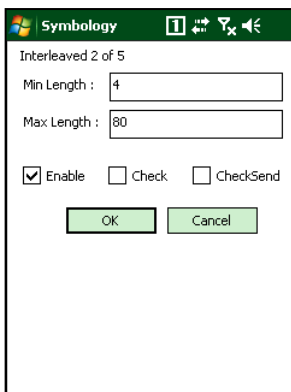
Max Length : 2435

☐ Enable ☐ CompositeUPC

OK Cancel

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

< Interleaved 2of5 >



Interleaved 2 of 5

Min Length : 4

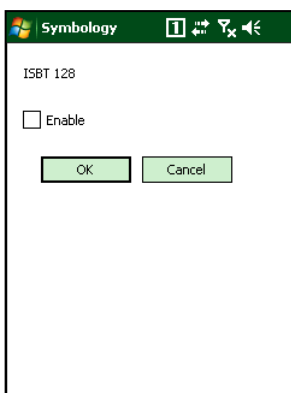
Max Length : 80

☒ Enable ☐ Check ☐ CheckSend

OK Cancel

- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data
- **Check** : Check Digit
- **CheckSend** : Shows the CheckDigit.

< ISBT 128 >



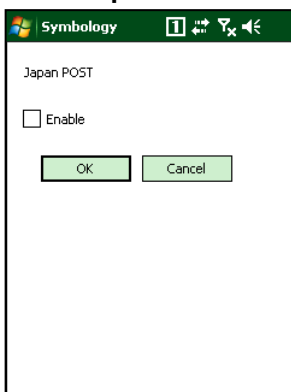
ISBT 128

☐ Enable

OK Cancel

- **Enable** : Enable barcode decoding

< Japan Post >



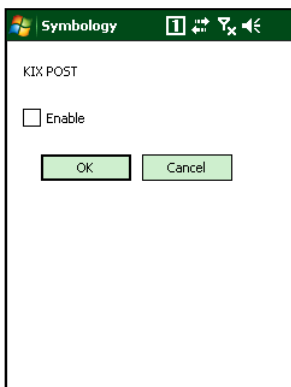
Japan POST

☐ Enable

OK Cancel

- **Enable** : Enable barcode decoding

< KIX Post >



KIX POST

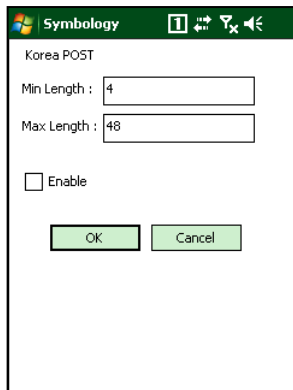
☐ Enable

OK Cancel

- **Enable** : Enable barcode decoding

APPLICATION MANUAL

< Korea Post >



Korea POST

Min Length : 4

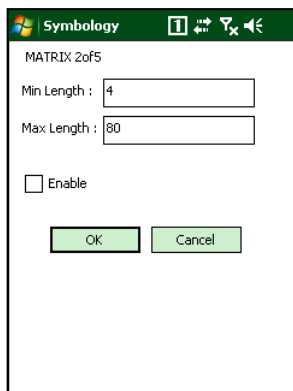
Max Length : 48

☐ Enable

OK Cancel

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

< MATRIX 2of5 >



MATRIX 2of5

Min Length : 4

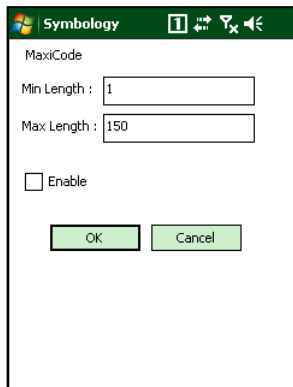
Max Length : 80

☐ Enable

OK Cancel

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

< MaxiCode >



MaxiCode

Min Length : 1

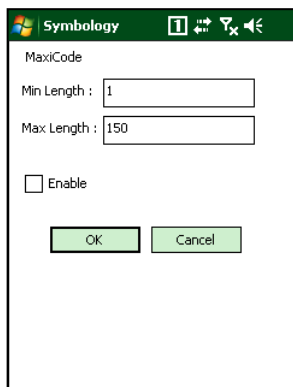
Max Length : 150

☐ Enable

OK Cancel

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

< Micro PDF417 >



Micro PDF417

Min Length : 1

Max Length : 150

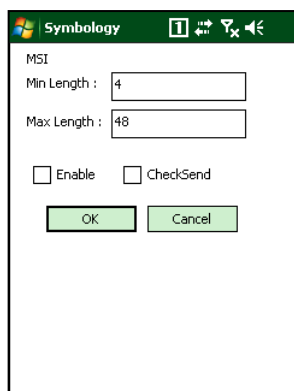
☐ Enable

OK Cancel

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

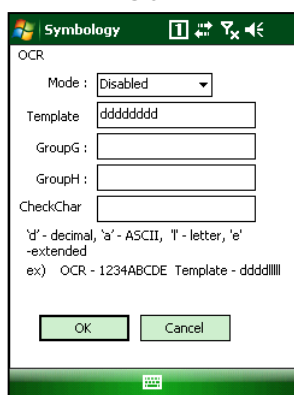
APPLICATION MANUAL

< MSI >



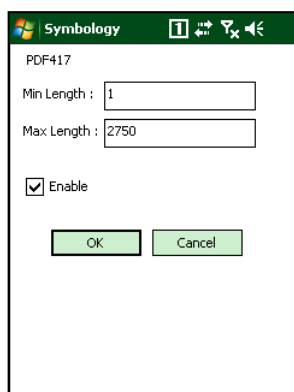
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data
- **CheckSend** : Shows the CheckDigit.

< OCR >



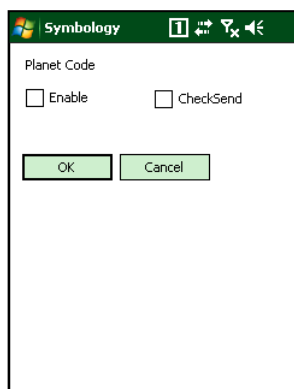
- **Mode** : Disable/ OCR-A/ OCR-B/ OCR-Money/ OCR-Micr
- Template
- GroupG
- GroupH
- CheckChar

< PDF 417 >



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

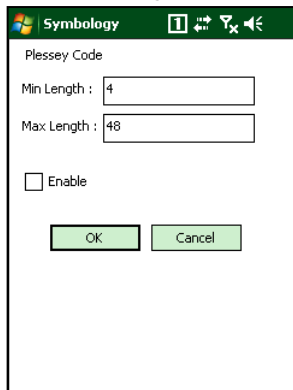
< Planet Code >



- **Enable** : Enable barcode decoding
- **CheckSend** : Shows the CheckDigit

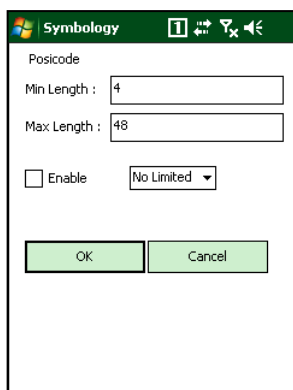
APPLICATION MANUAL

< Plessey Code >



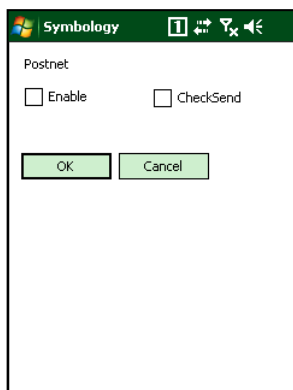
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< PosiCode >



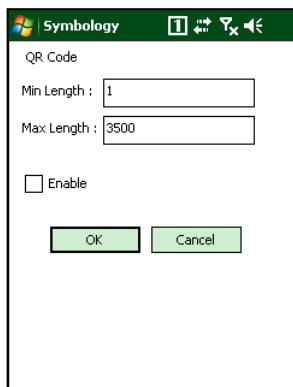
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data
- No Limited / Limited A / Limited B

< Postnet >



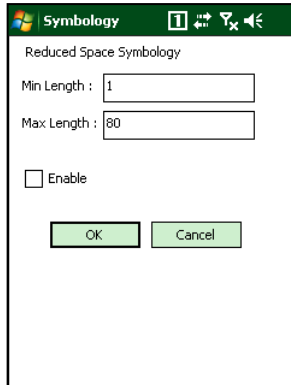
- **Enable** : Enable barcode decoding
- **CheckSend** : Shows the CheckDigit.

< QR Code >



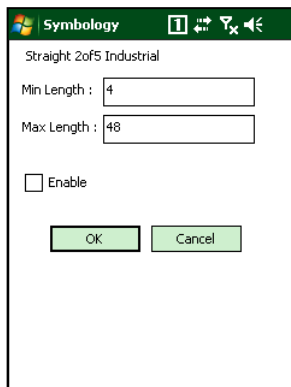
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< Reduced Space Symbology >



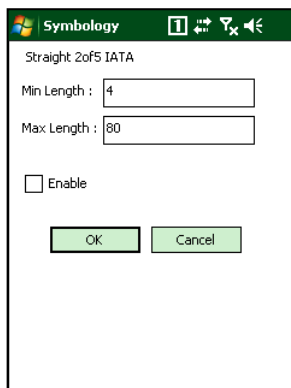
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< Straight 2of5 Industrial >



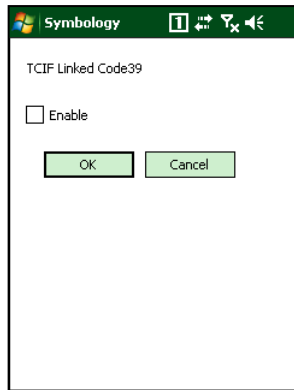
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< Straight 2of5 IATA >



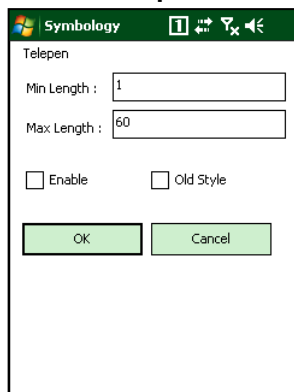
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data

< TCIF Linked Code39 >



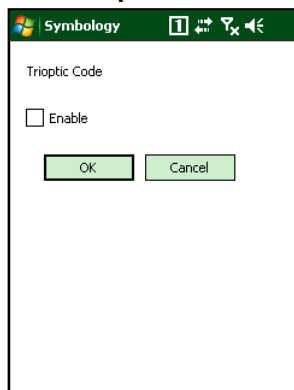
- **Enable** : Enable barcode decoding

< Telepen >



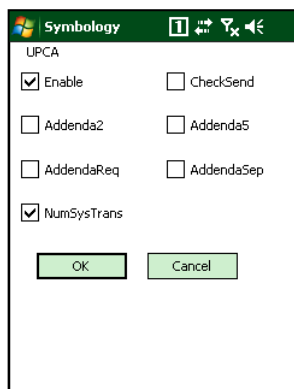
- **Enable** : Enable barcode decoding
- **Min / Max Length** : Minimum and maximum length of the readable data
- **Old Style**

< Trioptic Code >



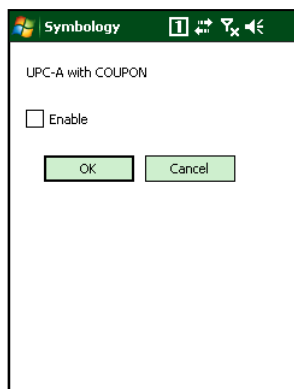
- **Enable** : Enable barcode decoding

< UPC-A >



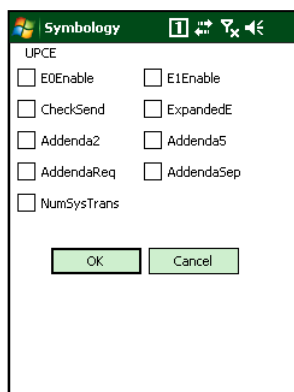
- **Enable** : Enable barcode decoding
- **CheckSend** : Shows the CheckDigit.
- **Addenda2** : Add on 2
- **Addenda5** : Add On 5
- **AddendaReq**
- **AddendaSep**
- **NumSysTrans** : Front most number output option

<UPC-A with COUPON>



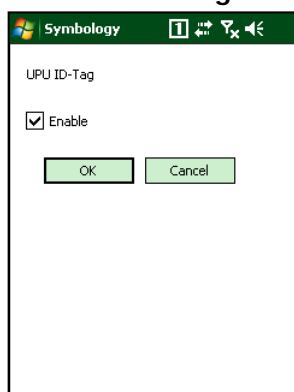
- **Enable** : Enable barcode decoding

< UPC-E >



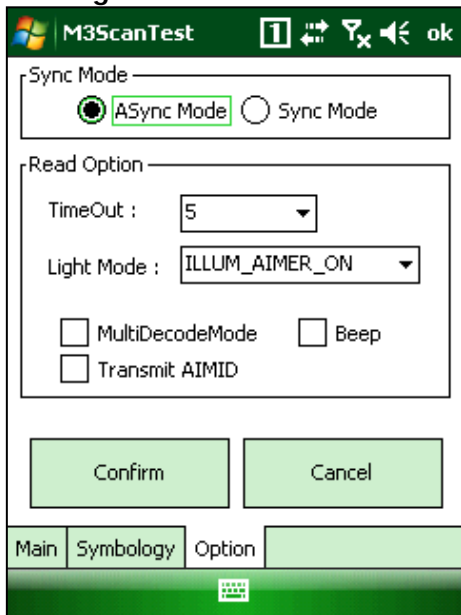
- **Enable** : Enable barcode decoding
- **E1Enable** : UPC-E1 Enable
- **CheckSend** : Shows the CheckDigit.
- **ExpandedE** : Enable expanded UPC-E1
- **Addenda2** : Add on 2
- **Addenda5** : Add On 5
- **AddendaReq**
- **AddendaSep**
- **NumSysTrans** : Front most number output option

< UPC ID-Tag >



- **Enable** : Enable barcode decoding

3. Option Page



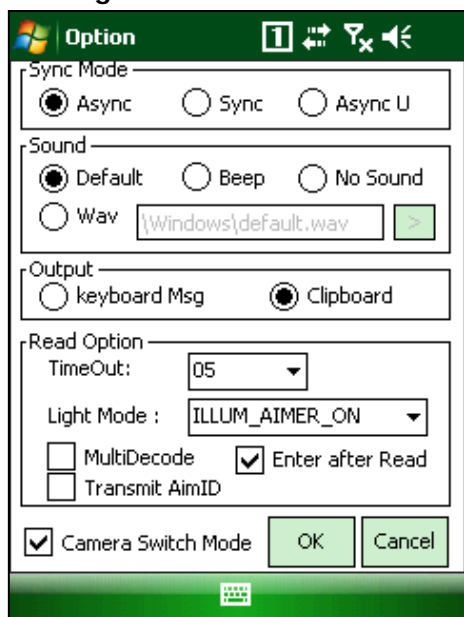
- **Option configuration**
- **ASync Mode :**
Emits beam while the scan button is pressed.
- **Sync Mode :** Emits beam for Timeout period
- **Sync Timeout :** SyncMode duration
- **Scanner beam option**
 - **ILLUM_AIMER_ON(Default) :**
Emits red background beam and green bar at once
 - **ILLUM_ONLY_ON :**
Emits red background beam only
 - **AIMER_ONLY_ON :** Emits green bar only
 - **ILLUM_AIMER_OFF :** Does not emit any beams
- **MultiDecodeMode :**
Read more than two barcodes at once

APPLICATION MANUAL



4.2 ScanEmul.exe

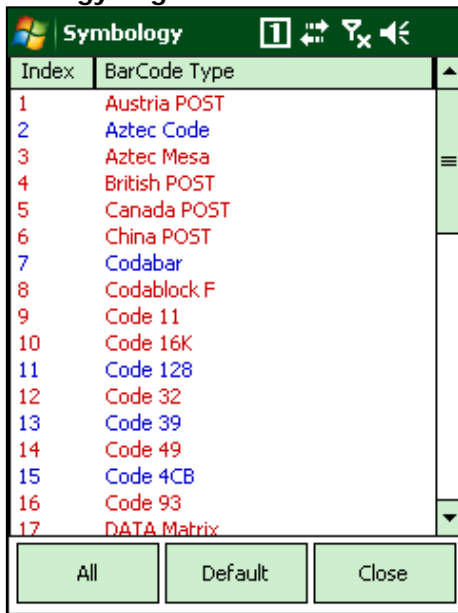
1. Option Page



- **Sync Mode**
 - **ASync** : Emits beam while the scan button is pressed.
 - **Sync** : Emits beam for Timeout period
 - **ASyncU** : Emits beam while the scan button is pressed but decodes after releasing the scan button
 - **TimeOut** : Beam emitting duration
- **Sound**
 - **Default** : Default sound after a successful scan
 - **No Sound** : No sound after a successful scan
 - **Wav** : Use wav file after a successful scan
- **Output**
 - **keyboard Msg** : Outputs the result as keyboard type
 - **Clipboard** : Outputs the result to clipboard
- **MultiDecodeMode** : Read more than two barcodes at once
- **Scanner beam option**
 - **ILLUM_AIMER_ON(Default)** : Emits red background beam and green bar at once
 - **ILLUM_ONLY_ON** : Emits red background beam only
 - **AIMER_ONLY_ON** : Emits green bar only
 - **ILLUM_AIMER_OFF** : Does not emit any beams
- **Read after Enter** : Send VK_RETURN message after read
- **Min.Barcode Length** : Minimum length of the readable data

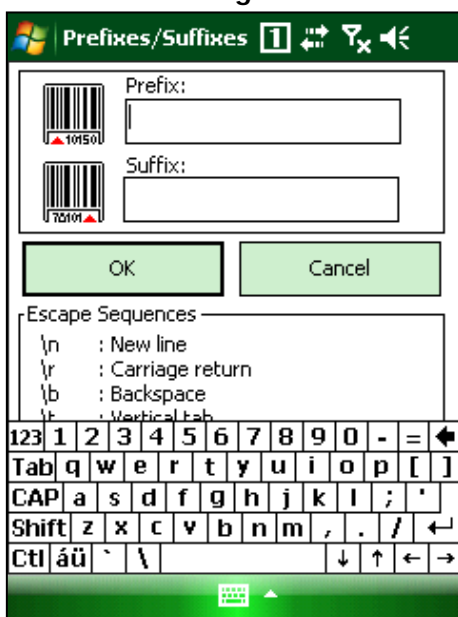
APPLICATION MANUAL

2. Symbology Page



- Enable/Disable several different types of barcode
- **All** : Enable all barcode
- **Default** : Set barCode as initial values
- **Close** : Close symbology page
- It is same with ScanTest option setting.

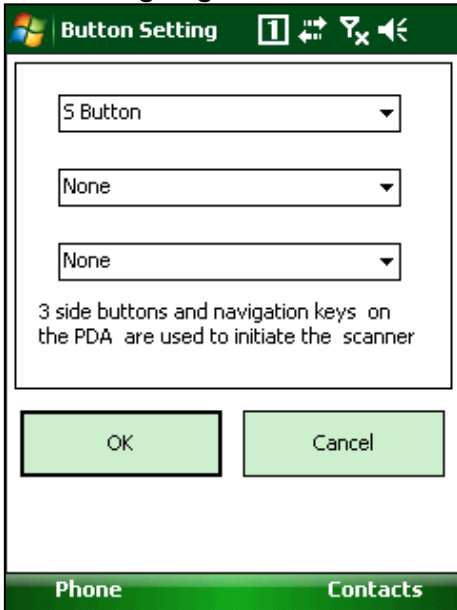
3. Prefixes/Suffixes Page



- **Prefix** :
Input data or command at the front of barcode data
- **Suffix** : Input data or command at the end of barcode

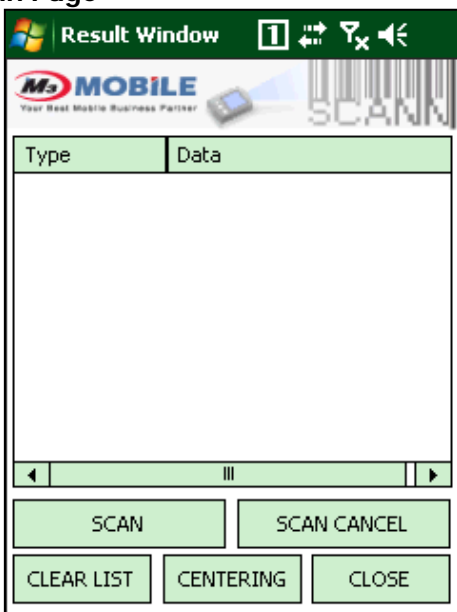
APPLICATION MANUAL

4. Button Setting Page



- Support up to 3 keys
- **Button Setting**
 - S Button
 - C Button
 - LEFT Button
 - UP Button
 - RIGHT Button
 - DOWN Button
 - None

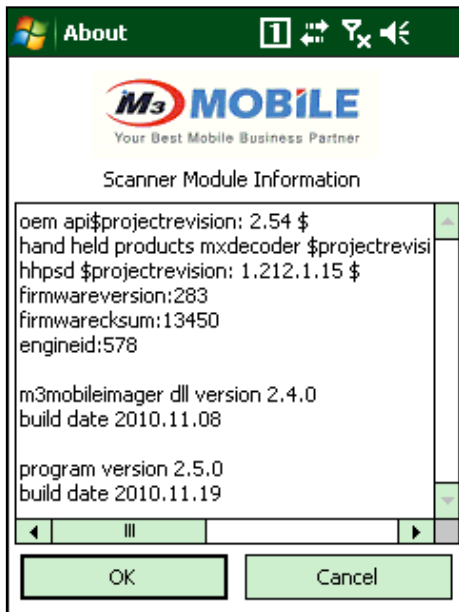
6. Scan Page



- Shows the barcode type and data
- **SCAN** : Scanning button
- **SCAN CANCEL** : Cancel the scanning
- **CLEAR LIST** : Clear the scan result in the list box
- **CENTERING** : Centering mode
- **CLOSE** : Close the scan page

APPLICATION MANUAL

7. About

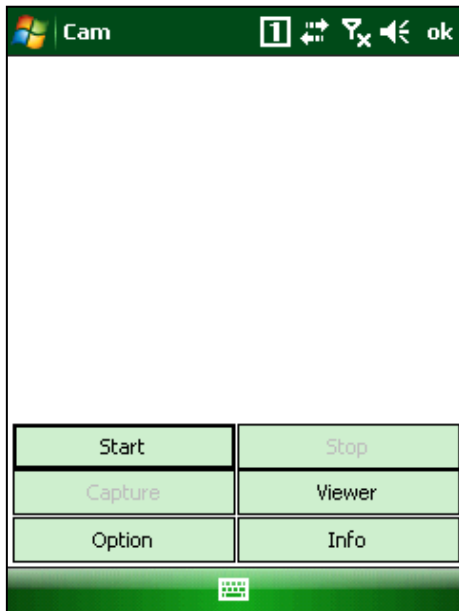


- Shows the Firmware / DLL / Application version.

APPLICATION MANUAL

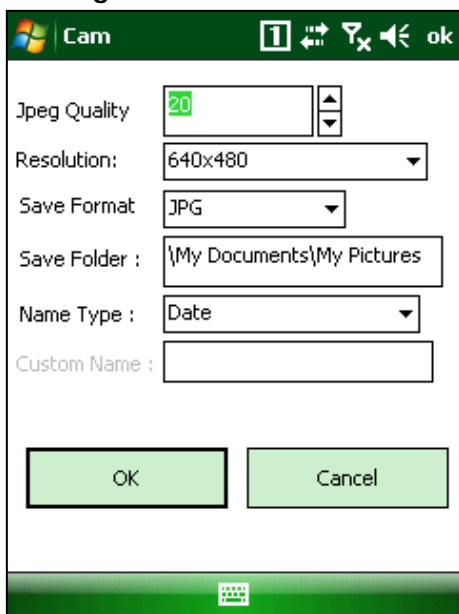
4.3 TestCam.exe

1. Main Page



- **Start** : Starts the Preview
- **Stop** : Stops the Preview
- **Capture** : Saves picture after capturing
- **Viewer** : Shows saved picture
- **Option** : Move to Option Page
- **Info** : Move to Information Page

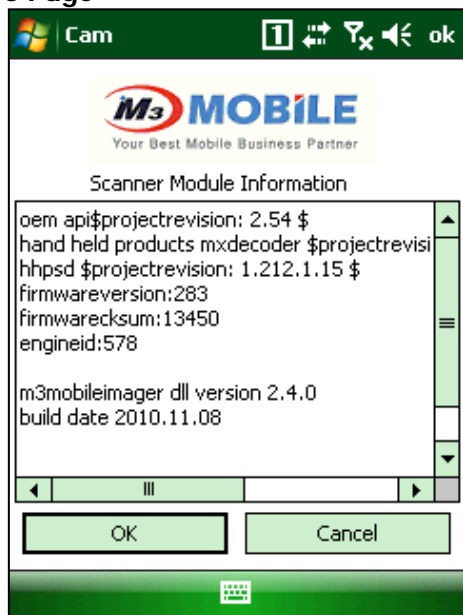
2. Option Page



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

APPLICATION MANUAL

3. Info Page



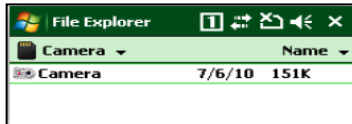
- Shows the Firmware/ DLL/ Application version.

APPLICATION MANUAL

CHAPTER 5. CAMERA

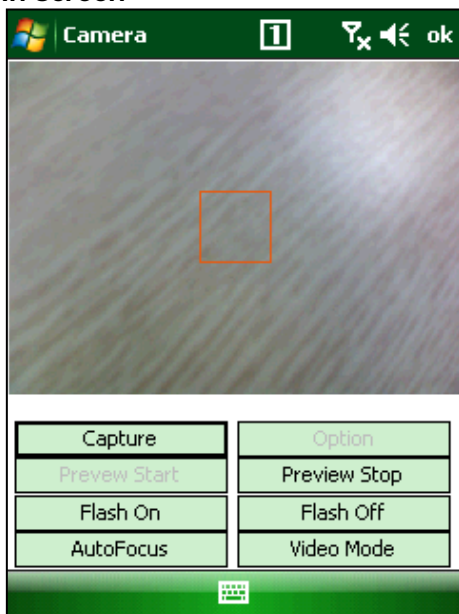
Product	Model	Type	OS	Note
SKY	MC-7XX0S	2.0M AF	Win Mobile 5.0/6.1	with Camera Module
MM3	MC-8000S	2.0M AF	Win Mobile 6.1	with Camera Module

5.1 Camera.exe



If the PDA is equipped with a camera, camera application can be run by executing Camera.exe in \ Flash Disk \ Camera.

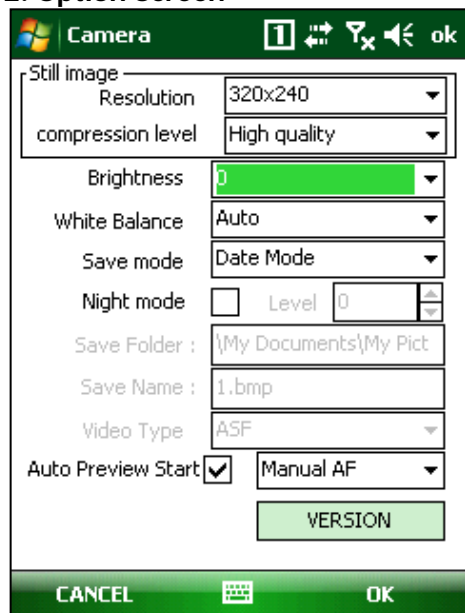
1. Main Screen



- **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.

APPLICATION MANUAL

2. Option Screen

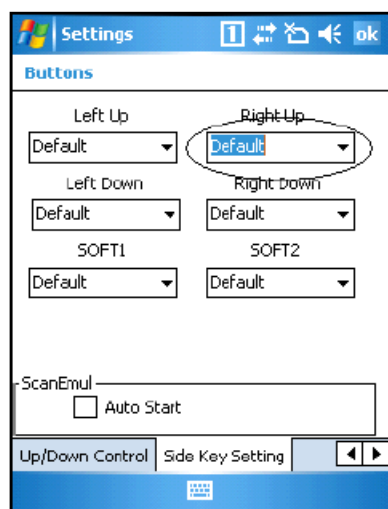


- **Resolution / compression level :**
Settings for image size and quality
- **Brightness / White Balance / Night mode :**
General settings for imaging (Night mode cannot be supported in maximum resolution.)
- **Save mode :** Date mode names the taken picture according to the system date and Custom mode 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/ASF. Activated in Video mode only.
- **Auto Preview Start :**
Defines whether to start the Preview right after shooting
- **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
- **Version :** Camera program version and DLL version can be identified.

5.2 Helpful Tips



■ Why does not the CAMERA Button (on the top right of the M3 SKY) activate the Camera?



You must make sure the Start>Setting>Buttons>Side Triggers (Right up) are set as follows (i.e. Default).

APPLICATION MANUAL

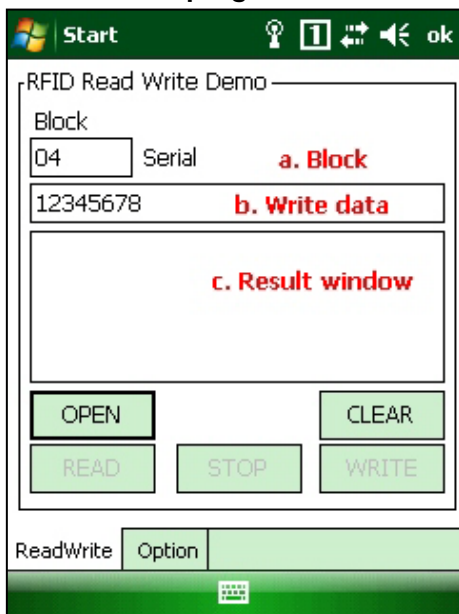
CHAPTER 6. RFID

Product	Model	Type	OS	Note
SKY	MC-7X10S	13.56MHz	Win Mobile 5.0/6.1	

6.1 RFID Demo

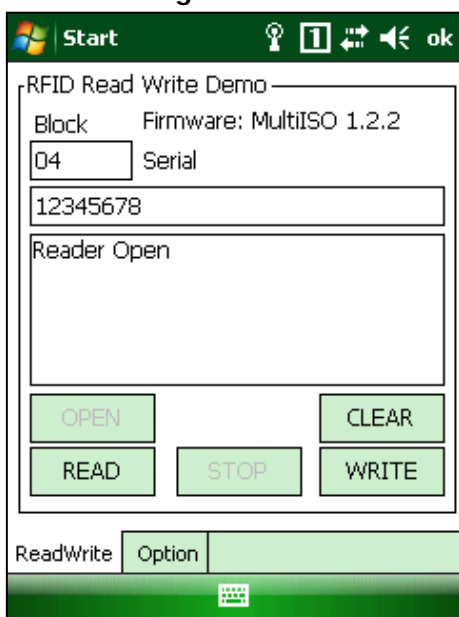
This is the RFID read / write demo SDK program.

1. First view of the program



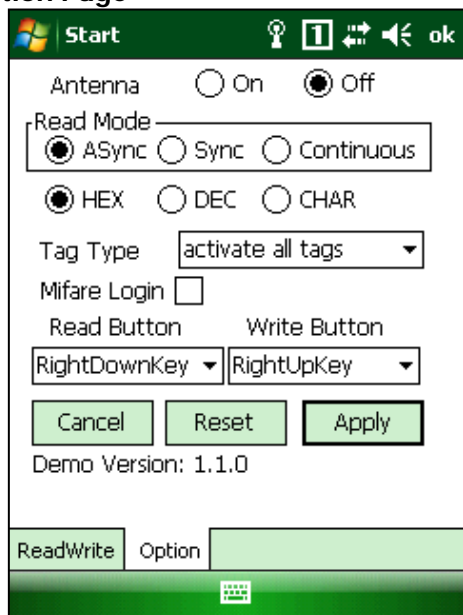
- **Block** : Define block of the tag for test.
- **Write data** : Input data for writing to the block.
- **Result window** : Outputs read / write results.
- **OPEN** : Opens RFID module.
- **CLEAR** : Clears the result Page.

2. Read / Write Page



- If it is properly opened, Reader Open message will appear in the result Page.
- **Firmware** : Current firmware version.
- **READ** : Reads chosen block.
- **STOP** : Stops reading block if reading in continuous mode.
- **WRITE** : Writes to chosen block.

3. Option Page



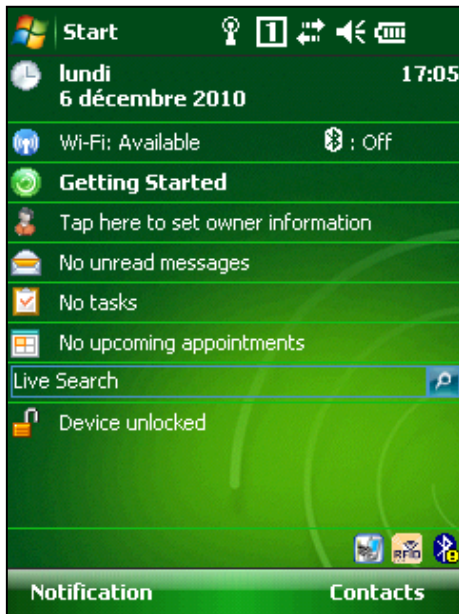
- **Antenna** : Turns on / off antenna.
- **Read Mode**
 - **ASync** : Reads tags if any exists within antenna field otherwise terminates.
 - **Sync** : Wait until it finds tags within antenna field (20 sec.).
 - **Continuous** : Continuously reads tags.
- **HEX** : Reads and writes tags in 16 antilogarithm
- **DEC** : Reads and writes tags in 10 antilogarithm
- **CHAR** : Reads and writes tags in ASCII code
- **Tag Type** : Select tag type that you wish to read.
 - ISO 14443 Type A
 - ISO 14443 Type B
 - ICODE UID
 - ICODE EPC
 - ICODE
 - SR176
 - activate all tags
 - ISO 15693
- **Mifare Login** : Check this box to login when Mifare card is used
- **Cancel** : Exits option without saving changes.
- **Reset** : Resets configurations to default settings.
- **Apply** : Apply changes.

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

6.2 M3 RFIDEmul

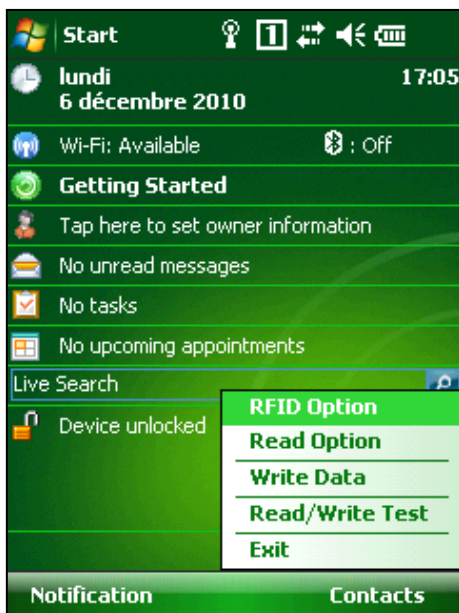
RFIDEmul allows the user to read RFID tags in any programs installed the device.

1. First view of the program



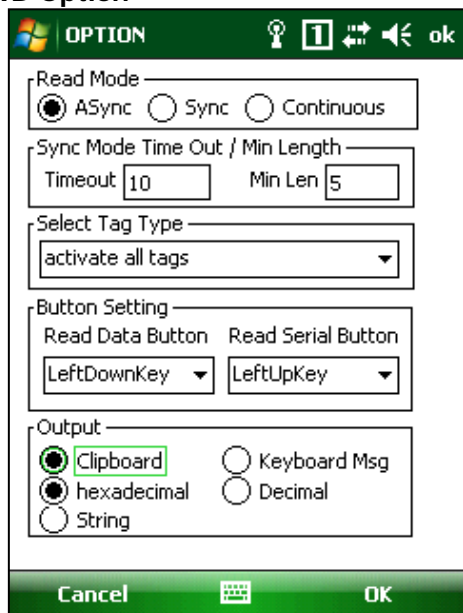
- RFIDEmul is properly launched if you can see RFID tray icon at the bottom.

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



- **RFID Option** : Configures general options.
- **Read Option** : Configures options regarding tag read.
- **Write Data** : Writes data to the tag.
- **Read/Write Test** : Tests reading and writing of tags.
- **Exit** : Exits the program.

3. RFID Option



OPTION

Read Mode
☒ ASync ☐ Sync ☐ Continuous

Sync Mode Time Out / Min Length
 Timeout: 10 Min Len: 5

Select Tag Type
 activate all tags

Button Setting
 Read Data Button: LeftDownKey Read Serial Button: LeftUpKey

Output
☒ Clipboard ☐ Keyboard Msg
☐ hexadecimal ☐ Decimal
☐ String

Cancel OK

● Read Mode

- **ASync** : Reads tags if any exists within antenna field otherwise terminates.
- **Sync** : Wait until it finds tags within antenna field (20 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.

● Select Tag Type : Select tag type that you wish to read.

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

● Button Setting

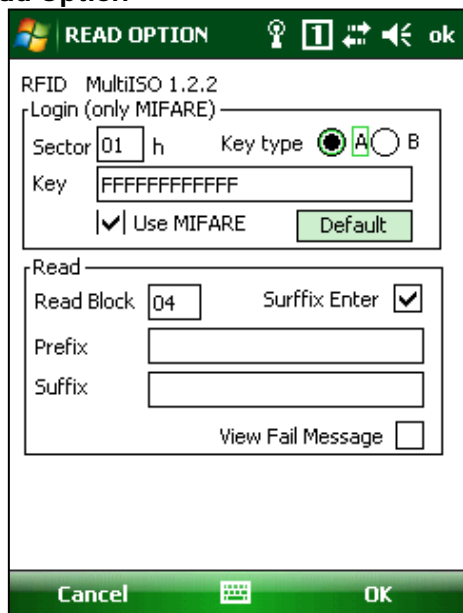
- **Read Data Button** : Set shortcut button to read block data of the tag.
- **Read Serial Button** : Set shortcut button to read serial data of the tag.

● Output

- **Clipboard**: Copies and pastes the data to Clipboard
- **Keyboard Msg**: Outputs the result as keyboard type
- **Hexadecimal**: Prints the tag data in 16 antilogarithm
- **Decimal**: Prints the tag data in 10 antilogarithm
- **String**: Prints the tag data with string

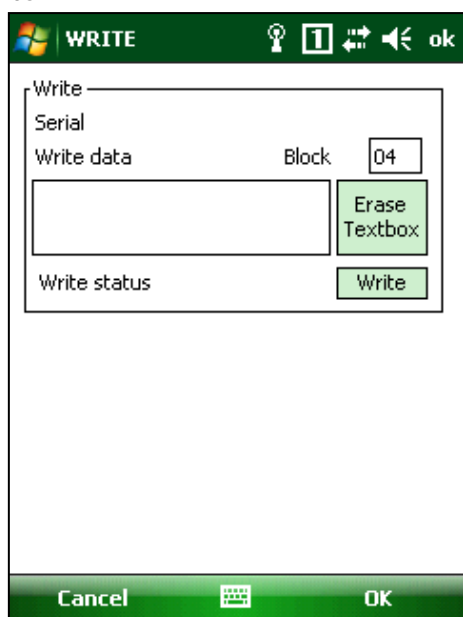
Note : 'Activate all tags' is a default tag type. By changing tag type to other specific one, read/write speed can be faster.

4. Read Option



- **Read Option** : Only applied for Mifare tag of 14443A Type
 - **Sector** : Select the sector to login
 - **Key type** : Select the Key type to login
 - **Key** : Select the available key to login
 - **Use MIFARE** : Defines whether to use the Mifare tag
- **Read**
 - **Read Block** : Select the block to read
 - **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
 - **View Fail Message** : Defines whether to print the fail message when data reading is failed

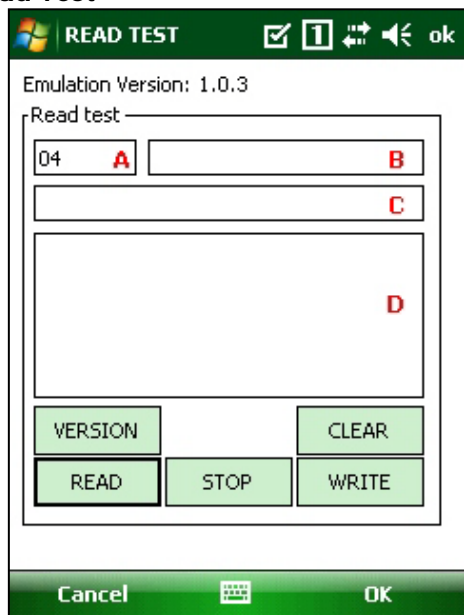
5. Write



- **Serial** : Outputs the serial number of tag to write the data
- **Block** : Select the block of tag to write the data
- **Write Data** : Write the data
- **Erase Textbox button** : Deletes the inputted data in textbox
- **Write button** : Input the written data in textbox to Block
- **Write status** : Represents the write result

APPLICATION MANUAL

6. Read Test



- **Box A** : Select the block of tag to test
- **Box B** : Outputs the serial number of tag
- **Box C** : Write the data
- **Box D** : Output the result of read/write
- **VERSION button** : Checks the Firmware version of module
- **CLEAR button** : Deletes the result
- **READ button** : Performs reading of block
- **STOP button** : Stops reading if Read mode is Continuous mode
- **WRITE button** : Performs writing of block

6.3 Helpful Tips



■ How is the RFID Specification of M3 SKY?

RFID Module used in MC7510/MC7710 is HID Global RDHO-0201N0-03 (13.56MHz).

RFID Output Power 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 7. WLANTRAY

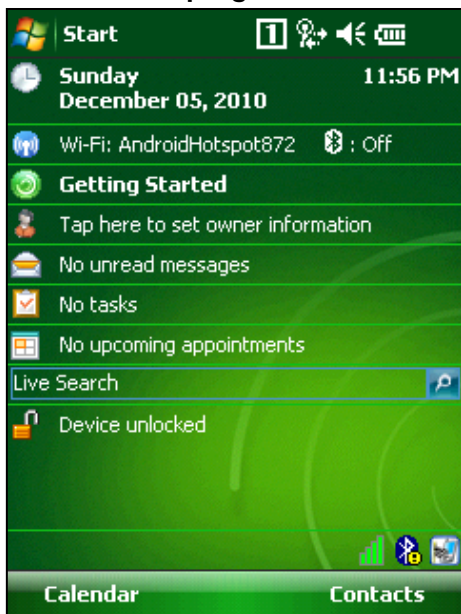
Product	Model	Type	OS	Note
SKY	MC-7XX0S	Samsung/Summit	Win Mobile 5.0/6.1	Applicable in Summit module, if 3 rd party config is set
MM3	MC-8000S	Summit	Win Mobile 6.1	

7.1 M3 WlanTray

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.

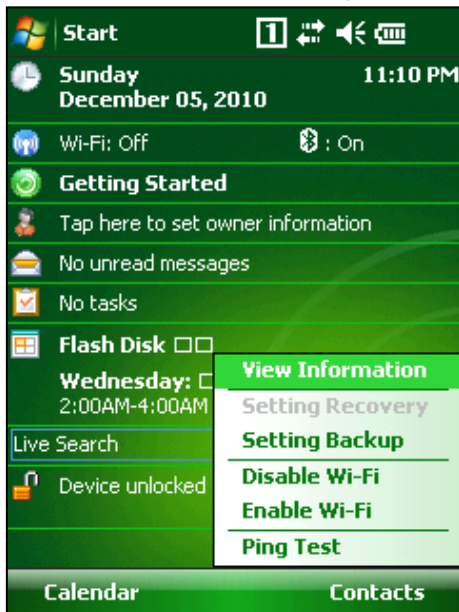
1. First view of the program



- WLAN signal strength is displayed in the tray icon

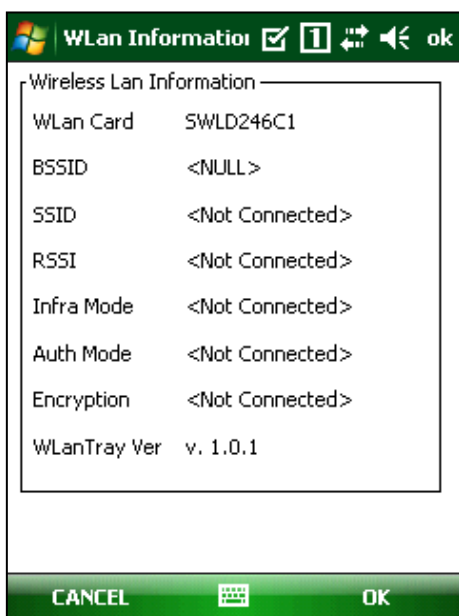
APPLICATION MANUAL

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



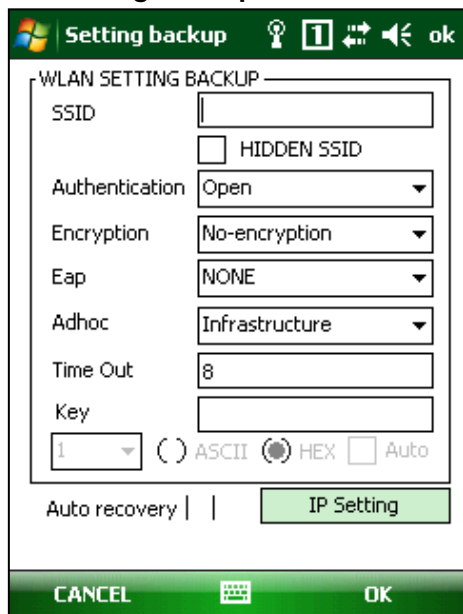
- **View Information** : View current status of WLAN.
- **Setting Recovery** : Access to an AP with stored settings.
- **Setting Backup** : Backups WLAN settings.
- **Disable Wi-Fi** : Disables WLAN.
- **Enable Wi-Fi** : Enables WLAN.
- **Ping Test** : Performs ping test.

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



The 'Setting backup' dialog box contains the following fields and options:

- SSID**: Text input field.
- HIDDEN SSID**: Check box.
- Authentication**: Dropdown menu (Open).
- Encryption**: Dropdown menu (No-encryption).
- Eap**: Dropdown menu (NONE).
- Adhoc**: Dropdown menu (Infrastructure).
- Time Out**: Text input field (8).
- Key**: Text input field.
- Key Index**: Dropdown menu (1).
- Key Type**: Radio buttons for ASCII, HEX, and Auto.
- Buttons**: 'Auto recovery' (checkbox), 'IP Setting' (button), 'CANCEL', and 'OK'.

- **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.
 - 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



The 'PING TEST' dialog box contains the following fields and options:

- Destination Address**: Text input field.
- Start PING**: Button.
- Output Area**: Large empty box for displaying ping results.
- Buttons**: 'Start PING' and 'OK'.

- **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.

APPLICATION MANUAL

CHAPTER 8. APPCENTER

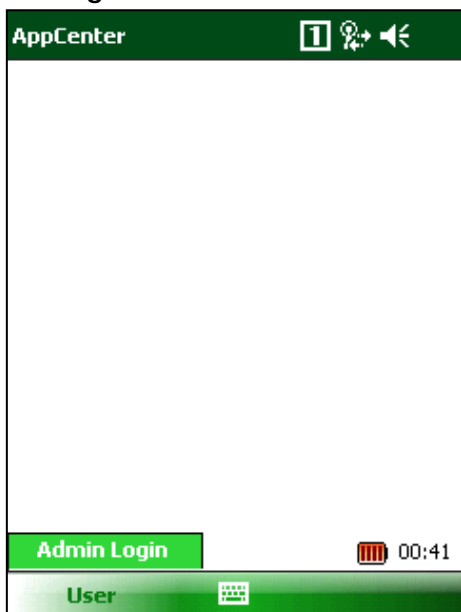
Product	Model	Type	OS	Note
SKY	MC-7XX0S	Software	Win Mobile 5.0/6.1	Kiosk Mode
MM3	MC-8000S	Software	Win Mobile 6.1	Kiosk Mode

8.1 AppCenter

1. First view of the program



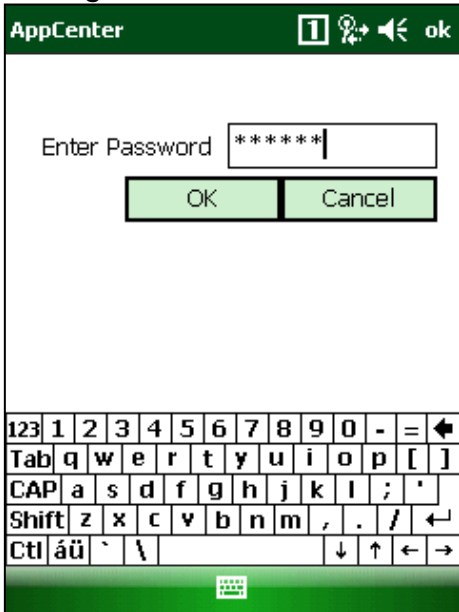
2. Admin Login



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

APPLICATION MANUAL

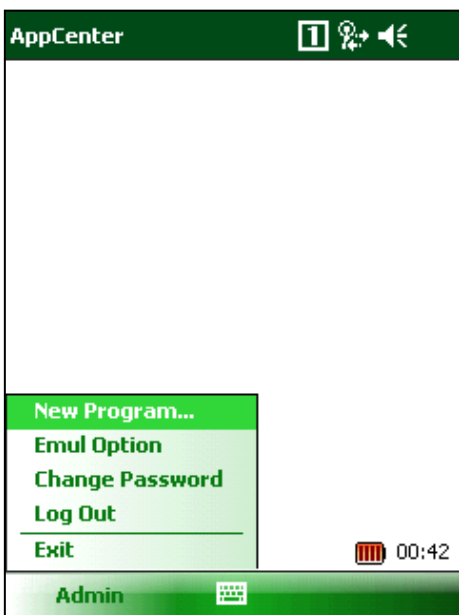
3. Admin Login



The screenshot shows the AppCenter application interface. At the top, there's a green header bar with the text "AppCenter" and some icons. Below the header, there's a white area with the text "Enter Password" followed by a password input field containing seven asterisks. Below the input field are two green buttons labeled "OK" and "Cancel". At the bottom of the screen, there's a green bar with a keyboard layout, including numbers, letters, and function keys like Tab, CAP, Shift, and Ctl.

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

4. Admin account status

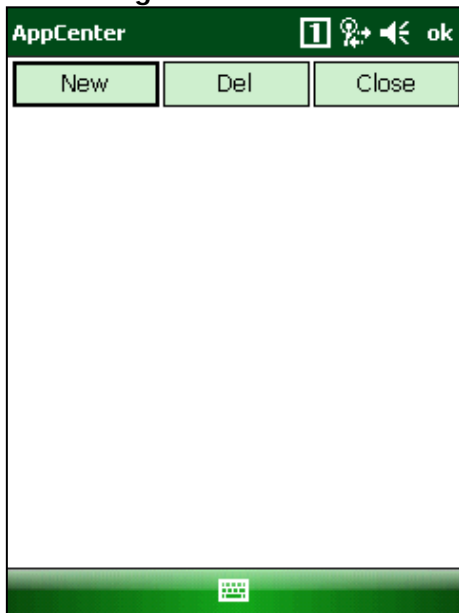


The screenshot shows the AppCenter application interface. At the top, there's a green header bar with the text "AppCenter" and some icons. Below the header, there's a white area. At the bottom of the screen, there's a green bar with a menu list containing the following items: "New Program...", "Emul Option", "Change Password", "Log Out", and "Exit". Below the menu list, there's a green bar with the text "Admin" and a small icon.

- **New Program** : Select applications you want to register to AppCenter.
- **Change Password** : Change admin account's password.
- **Log Out** : Logs out the admin account.
- **Exit** : Exits AppCenter.

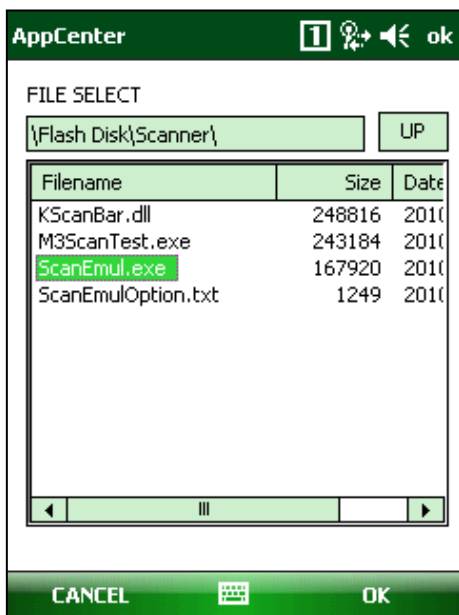
APPLICATION MANUAL

5. Add New Program



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

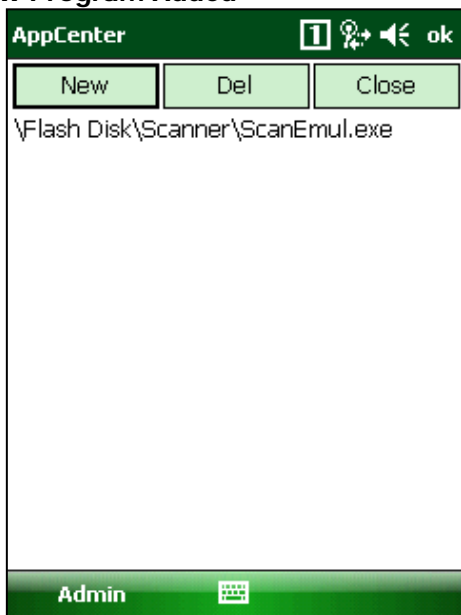
6. New Program → New



- **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. Change Password



The image shows a screenshot of the 'AppCenter' application window. The title bar is green and contains the text 'AppCenter' on the left, and icons for window management (minimize, maximize, close) and an 'ok' button on the right. The main content area is white and contains three text input fields labeled 'Old Password', 'New Password', and 'Confirm Password'. Below these fields is a virtual keyboard with a grid of keys. The keyboard includes a numeric row (1-0, -, =, left arrow), a top row (Tab, q, w, e, r, t, y, u, i, o, p, [,], right arrow), a second row (CAP, a, s, d, f, g, h, j, k, l, ;, ', right arrow), a third row (Shift, z, x, c, v, b, n, m, comma, period, slash, backslash, right arrow), and a bottom row (Ctl, á, ü, ^, \, space, down arrow, up arrow, left arrow, right arrow). At the bottom of the window is a green bar with the text 'CANCEL' on the left, a small icon in the center, and the text 'OK' on the right.

- Changing password dialog.