

---

# M9000 User's Guide

---

M9010 is a registered trademark of DAP Technologies. Microsoft and MS-DOS® are registered trademarks of Microsoft Corporation.

# Table of Contents

<b>1.0 Introduction</b> .....	7	2.9.2	Hide Button .....	27
<b>1.1 User and Product Safety</b> .....	7	2.9.3	Settings Button .....	27
<b>1.2 LED and LASER Safety Information</b> .....	7	2.9.4	Settings Window .....	27
<b>1.3 FCC Interference Statement</b> .....	7	2.9.4.1	Communication Tab .....	27
<b>1.4 Industry Canada Statement</b> .....	7	2.9.4.1.1	Port .....	28
<b>1.5 Battery Safety</b> .....	7	2.9.4.1.2	DTR High / RTS High .....	29
<b>1.6 Warranty Statements</b> .....	8	2.9.4.1.3	Hardware Pin Events .....	29
<b>1.7 Warranty and After Service</b> .....	8	2.9.4.2	Keyboard Tab .....	30
<b>1.8 Europe – EU Declaration of Conformity</b> .....	8	2.9.4.2.1	Interkey Delay .....	30
<b>1.9 European Union CE Marking and Compliance Notices</b> ..	9	2.9.4.2.2	Key Settings .....	30
<b>1.10 Specifications</b> .....	10	2.9.4.2.3	Hot Keys .....	32
<b>2.0 Getting Started</b> .....	11	2.9.4.2.4	Keyboard Capture — External USB Device .....	36
<b>2.1 What's In the Package</b> .....	11	2.9.4.2.5	Record Key Sequence .....	39
<b>2.2 Installing Optional Memory Cards</b> .....	11	2.9.4.3	Data Editing Tab .....	40
<b>2.3 Install the Battery</b> .....	13	2.9.4.3.1	Wizard .....	41
<b>2.4 Charge the Battery</b> .....	13	2.9.4.3.2	Edit Script .....	43
2.4.1 Plugging In .....	13	2.9.4.3.3	Browse Script Folder .....	43
2.4.2 LED Indicators .....	14	2.9.4.4	Misc Tab .....	43
<b>2.5 Operating the Unit</b> .....	15	2.9.4.4.1	Use Log File .....	43
2.5.1 Turning the Unit On .....	15	2.9.4.4.2	Set Password .....	44
2.5.2 Calibrating the Touchscreen .....	15	2.9.4.4.3	Settings Location .....	44
2.5.3 Launching an Application .....	16	<b>2.10 Link*One Scripting</b> .....		45
2.5.3.1 Using the Stylus .....	16	2.10.1	Overview .....	45
2.5.3.2 Using the Nav Button .....	16	2.10.2	Lua Language .....	45
2.5.4 Entering Data .....	17	2.10.3	Script Events .....	45
2.5.5 Using the Function Button .....	17	2.10.4	Event Methods .....	45
2.5.5.1 Function Button Key Combinations .....	17	2.10.4.1	onStart() .....	45
2.5.5.2 Function Button with Function Keys .....	17	2.10.4.2	onEnd() .....	45
2.5.6 Navigating the Display .....	18	2.10.4.3	onData(data, length) .....	45
2.5.6.1 The Task Bar .....	18	2.10.4.4	onHotKey(name) .....	46
2.5.6.2 The Onscreen Keyboard .....	18	2.10.4.5	onKeyboardCapture(name, data) .....	46
2.5.6.3 Entering the Data .....	18	2.10.4.6	onExternalData(data, length) .....	46
<b>2.6 DAP Configuration Center</b> .....	19	2.10.4.7	onTimer() .....	46
2.6.1 System Info .....	19	2.10.4.8	onCTS(status) .....	47
2.6.2 Display Options .....	19	2.10.5	Script Methods .....	47
2.6.3 Tablet PC Settings .....	19	2.10.6	Output/User Feedback .....	48
2.6.3.1 Display Tab – Configure .....	19	2.10.6.1	beep(frequency, duration) .....	48
2.6.3.2 Display Tab – Calibrate .....	19	2.10.6.2	blinkIcon(icon, duration) .....	48
2.6.3.3 Display Tab – Reset .....	20	2.10.6.3	log(filename, message) .....	48
2.6.3.4 Other Tab – Handedness .....	20	2.10.6.4	messageBox(title, message, type) .....	48
2.6.3.5 Other Tab – Pen and Touch .....	20	2.10.6.5	playSound(filename, options) .....	49
2.6.3.5.1 Pen Options Tab – Configure Double-Tap .....	21	2.10.6.6	playSystemSound(systemEvent, options) ..	49
2.6.3.5.2 Pen Options Tab – Configure Press and Hold .....	21	2.10.6.7	send(data) .....	49
2.6.3.5.3 Pen Options Tab – Configure Start Tablet PC Input Panel .....	22	2.10.6.8	sendSerialData(data, length) .....	50
2.6.3.5.4 Flicks Tab – Navigational .....	23	2.10.6.9	sendSubscriberData(data, length) .....	50
2.6.3.5.5 Flicks Tab – Sensitivity .....	23	2.10.7	Windows .....	51
2.6.3.5.6 Handwriting Tab .....	24	2.10.7.1	enumWindows(handle) .....	51
2.6.3.5.7 Touch Tab .....	24	2.10.7.2	findWindow(title, class) .....	51
2.6.3.6 Other Tab – Go to Input Panel Settings ..	24	2.10.7.3	getForegroundWindow() .....	51
2.6.4 Power Options .....	25	2.10.7.4	getWindowClass(handle) .....	51
2.6.5 Charger Config .....	25	2.10.7.5	getWindowClass(handle) .....	52
2.6.6 Hotkey .....	25	2.10.7.6	getWindowText(handle) .....	52
<b>2.7 Setting Up Wireless LAN</b> .....	26	2.10.7.7	setForegroundWindow(handle) .....	52
<b>2.8 Using the 1D Barcode Scanner</b> .....	26	2.10.7.8	getWindowText(handle, text) .....	52
<b>2.9 Setting Up Link One for Reading 1D Laser Barcodes</b> ..	26	2.10.7.9	windowOperation(handle, operation) ..	53
2.9.1 Unload Button .....	27	2.10.8	Clipboard .....	53
		2.10.8.1	getClipboardData() .....	53
		2.10.8.2	setClipboardData(text) .....	53
		2.10.9	Application Launch .....	54
		2.10.9.1	closeAppHandle(handle) .....	54
		2.10.9.2	isAppRunning(handle) .....	54

- 2.10.9.3 run(program, argument, delay) .....54
- 2.10.10 Serial Port .....55
  - 2.10.10.1 closePort() .....55
  - 2.10.10.2 getDTR() .....55
  - 2.10.10.3 getRTS() .....55
  - 2.10.10.4 openPort() .....55
  - 2.10.10.5 setDTR(status) .....56
  - 2.10.10.6 setRTS(status) .....56
- 2.10.11 Miscellaneous .....56
  - 2.10.11.1 ean128(data, strict) .....56
  - 2.10.11.2 exit() .....56
  - 2.10.11.3 exitWindows(options) .....57
  - 2.10.11.4 getProfile() .....57
  - 2.10.11.5 getTickCount() .....57
  - 2.10.11.6 lockWorkStation() .....57
  - 2.10.11.7 setProfile(profile) .....58
  - 2.10.11.8 setTimer(interval) .....58
  - 2.10.11.9 sleep(duration) .....58
- 2.10.12 Notification Area Icon .....58
- 2.10.13 Migration guide WLink 3.x to Link\*One .....59
  - 2.10.13.1 Duplicate String Filter .....59
  - 2.10.13.2 Case Setting .....59
  - 2.10.13.3 Character Translation .....59
  - 2.10.13.4 Send Pre- and Postfix Keys .....59
  - 2.10.13.5 Lock Output Window .....59
  - 2.10.13.6 Initialization String .....59
  - 2.10.13.7 Filter Unknown Data Strings .....59
  - 2.10.13.8 Input Data Replacements .....60
  - 2.10.13.9 Criteria .....60
  - 2.10.13.10 Data Format Output .....60
- 2.10.14 Support for Thin Clients, Java Applications,  
and Flash Applications .....62
- 2.10.15 Lua Copyright .....62
- 2.10.16 Version History .....62

### 3.0 Operating the Unit .....63

- 3.1 GPS Instructions .....63
  - 3.1.1 Requirements: .....63
  - 3.1.2 Set up to use the GPS. ....63
  - 3.1.3 Integration to Windows 7. ....64
- 3.2 DAP-Imager Instructions .....64
  - 3.2.1 What is DAP-Imager. ....64
  - 3.2.2 Selecting the Right Mode .....64
  - 3.2.3 Pictures .....64
    - 3.2.3.1 How to Take a Picture .....64
    - 3.2.3.2 Flash .....64
    - 3.2.3.3 Geotagging .....65
      - 3.2.3.3.1 How to enable the GPS .....65
      - 3.2.3.3.2 How to View Geotagging  
Data .....65
    - 3.2.3.4 How to Locate a Saved Picture .....65
    - 3.2.3.5 General Options .....65
  - 3.2.4 Barcodes .....65
    - 3.2.4.1 How to Scan Barcodes .....66
      - 3.2.4.1.1 Using ScannerManager .....66
      - 3.2.4.1.2 Using DAP-Imager as a  
Stand-Alone Application .....66
    - 3.2.4.2 Decoder Configuration .....66
  - 3.2.5 .INI Configuration File .....66
  - 3.2.6 [General] .....67
    - 3.2.6.1 TargetFolder = %PICTURES%\%YEAR%  
%MONTH%- %DAY% .....67

- 3.2.6.2 FileNameTemplate =  
%HOUR%h%MINUTE%m%SECOND% s. ....67
- 3.2.6.3 DefaultImagerMode = Portrait. ....67
- 3.2.6.4 FlashLightDurationMs = 10000 .....67
- 3.2.6.5 Func1VirtualKey = 135 .....67
- 3.2.6.6 Func2VirtualKey = 117 .....67
- 3.2.6.7 Func1KeyModifiers = 0 .....67
- 3.2.6.8 Func2KeyModifiers = 0 .....67
- 3.2.6.9 Func1KeySystemWide = 1 .....67
- 3.2.6.10 Func2KeySystemWide = 0 .....67
- 3.2.7 [Camera] .....67
  - 3.2.7.1 InactiveTimeBeforeStandbyLevel1 =  
10000 .....67
  - 3.2.7.2 ActivateDapImagerOnTrigger = OFF .....67
  - 3.2.7.3 ShowImageNameOnPreview = OFF .....67
- 3.2.8 [Barcodes] .....67
  - 3.2.8.1 EnableAutoPreview = ON .....67
  - 3.2.8.2 PreviewWndRect = 0 0 320 240 .....67
  - 3.2.8.3 UIPolicy = Legacy .....67
  - 3.2.8.4 DefaultFocus = 3733 .....68
  - 3.2.8.5 Aimer = ON .....68
  - 3.2.8.6 DecodeAfterAutofocus = ON .....68
  - 3.2.8.7 MaxNbrResults = 1 .....68
  - 3.2.8.8 DecodeTimeoutMs = 1500 .....68
  - 3.2.8.9 MaxNbrAttempts = 1 .....68
  - 3.2.8.10 InactiveTimeBeforeStandbyLevel1 =  
10000 .....68
  - 3.2.8.11 InactiveTimeBeforeStandbyLevel2 =  
10000 .....68
  - 3.2.8.12 KbWedge = OFF .....68
  - 3.2.8.13 AddTab = OFF .....68
  - 3.2.8.14 AddEnter = ON .....68
  - 3.2.8.15 Preamble = .....68
  - 3.2.8.16 Postamble = .....68
  - 3.2.8.17 InterCharDelay = 0 .....68
  - 3.2.8.18 MaxGainWithoutMVLlight = 2500 .....68
  - 3.2.8.19 MinGainWithMovieLight = 1000 .....68
  - 3.2.8.20 MaxGain = 4000 .....68
  - 3.2.8.21 GainStep = 200 .....68
  - 3.2.8.22 IdealGain = 2000 .....68
  - 3.2.8.23 FlashIntensityStep = 100 .....68
  - 3.2.8.24 MaxFlashIntensity = 100 .....68
  - 3.2.8.25 MaxShutter = 4000 .....68
  - 3.2.8.26 ShutterStep = 260 .....68
  - 3.2.8.27 IdealShutter = 575 .....68
  - 3.2.8.28 AppendSymbology = OFF .....68
- 3.2.9 [OCR] .....68
- 3.2.10 [ImagerModes] .....68
  - 3.2.8.1 ModeList =  
Portrait,Landscape,Macro,Barcode, .....68
- 3.2.11 [ImagerMode:XXXX] .....68
  - 3.2.11.1 ModeType = 0 .....68
  - 3.2.11.2 IconID = 142 .....68
  - 3.2.11.3 SelectionButtonImageFileName =  
res\button-mode-portrait80.png .....68
  - 3.2.11.4 Enabled = ON .....69
  - 3.2.11.5 AutoFlash = ON .....69
  - 3.2.11.6 GpsReportTypes = 1 .....69
  - 3.2.11.7 PreviewWidth = 640 .....69
  - 3.2.11.8 PreviewHeight = 480 .....69
  - 3.2.11.9 StillWidth = 1600 .....69
  - 3.2.11.10 StillHeight = 1200 .....69

3.2.11.11	ColorSpace = 16	69	5.1.16	Convert UPC-E1 to UPC-A : Parameter # 0x26	81
3.2.11.12	FrameRate = 30.000000	69	5.1.17	EAN Zero Extend : Parameter # 0x27	81
3.2.11.13	Shutter = 10000	69	5.1.18	Convert EAN-8 to EAN-13 Type : Parameter # 0xE0	81
3.2.11.14	Brightness = 5000	69	5.1.19	UPC/EAN Security Level : Parameter # 0x4D	82
3.2.11.15	GlobalGain = 0	69	5.1.20	UCC Coupon Extended Code : Parameter # 0x55	82
3.2.11.16	Exposure = 5000	69	<b>5.2 Code 128</b>		82
3.2.11.17	FlipMode = 1	69	5.2.1	Enable/Disable Code 128 : Parameter # 0x08	82
3.2.11.18	AutoExposure = ON	69	5.2.2	Enable/Disable UCC/EAN-128 : Parameter # 0x0E	82
3.2.11.19	LightingMode = 0	69	5.2.3	Enable/Disable ISBT 128 : Parameter # 0x54	83
3.2.11.20	LightingPower = 0	69	5.2.4	Lengths for Code 128	83
3.2.11.21	Aimer = OFF	69	<b>5.3 Code 39</b>		83
3.2.11.22	Compression = ON	69	5.3.1	Enable/Disable Code 39 : Parameter # 0x00	83
3.2.11.23	CompressionRatio = 13	69	5.3.2	Enable/Disable Trioptic Code 39 : Parameter # 0x0D	83
3.2.11.24	FocusPosition = 500	69	5.3.3	Convert Code 39 to Code 32 (Italian Pharma Code) : Parameter # 0x56	83
3.2.11.25	Autofocus = ON	69	5.3.4	Code 32 Prefix : Parameter # 0xE7	83
3.2.11.26	WhiteBalancePreset = 0	69	5.3.5	Set Lengths for Code 39 : Parameter # L1 = 0x12, L2 = 0x13	83
3.2.11.27	ManualWhiteBalance = OFF	69	5.3.6	Code 39 Check Digit Verification : Parameter # 0x30	84
3.2.11.28	WhiteBalanceKelvin = 8267	69	5.3.7	Transmit Code 39 Check Digit : Parameter # 0x2B	84
3.2.11.29	PreviewToWindow = ON	69	5.3.8	Enable/Disable Code 39 Full ASCII : Parameter # 0x11	84
3.2.12	[Permissions]	69	<b>5.4 Code 93</b>		85
3.2.12.1	Option(More) = 3	69	5.4.1	Enable/Disable Code 93 : Parameter # 0x00	85
<b>3.3 Command-Line Options</b>		70	5.4.2	Set Lengths for Code 93 : Parameter # L1 = 0x1A, L2 = 0x1B	85
3.3.1	Syntax	70	<b>5.5 Code 11</b>		85
<b>4.0 Programming the Unit</b>		71	5.5.1	Enable/Disable Code 11 : Parameter # 0x0A	85
<b>4.1 Bar Code Parameter Menus</b>		71	5.5.2	Set Lengths for Code 11 : Parameter # L1 = 0x1C, L2 = 0x1D	85
<b>4.2 Bar Code Settings</b>		74	5.5.3	Code 11 Check Digit Verification : Parameter # 0x34	86
4.2.1	Set Default Parameter	74	5.5.4	Transmit Code 11 Check Digits : Parameter # 0x2F	86
4.2.2	Beeper Volume	74	<b>5.6 Interleaved 2 of 5</b>		86
4.2.3	Beeper Tone	74	5.6.1	Enable/Disable Interleaved 2 of 5 : Parameter # 0x06	86
4.2.4	Beeper Frequency Adjustment	74	5.6.2	Set Lengths for Interleaved 2 of 5 : Parameter # L1 = 0x16, L2 = 0x17	86
4.2.5	Laser On Time	75	5.6.3	Interleaved 2 of 5 Check Digit Verification : Parameter # 0x31	87
4.2.6	Aim Duration	75	5.6.4	Transmit Interleaved 2 of 5 Check Digit : Parameter # 0x2C	87
4.2.7	Scan Angle	75	5.6.5	Convert Interleaved 2 of 5 to EAN-13 : Parameter # 0x52	87
4.2.8	Power Mode	75	<b>5.7 Discrete 2 of 5</b>		88
4.2.9	Triggering Modes	76	5.7.1	Enable/Disable Discrete 2 of 5 : Parameter # 0x05	88
4.2.10	Time-out Between Same Symbol	76	5.7.2	Set Lengths for Discrete 2 of 5 : Parameter # L1 = 0x14, L2 = 0x15	88
4.2.11	Beep After Good Decode	76	<b>5.8 Chinese 2 of 5</b>		88
4.2.12	Transmit "No Read" Message	76	5.8.1	Enable/Disable Chinese 2 of 5 : Parameter # 0xF0 0x98	88
4.2.13	Parameter Scanning	77	<b>5.9 Codabar</b>		88
4.2.14	Linear Code Type Security Level	77	5.9.1	Enable/Disable Codabar : Parameter # 0x07	88
4.2.15	Bi-directional Redundancy	77	5.9.2	Set Lengths for Codabar : Parameter # L1 = 0x18, L2 = 0x19	89
<b>5.0 UPC Types</b>		78			
<b>5.1 UPC / EAN</b>		78			
5.1.1	Enable/Disable UPC-A : Parameter # 0x01	78			
5.1.2	Enable/Disable UPC-E : Parameter # 0x02	78			
5.1.3	Enable/Disable UPC-E1 : Parameter # 0x0C	78			
5.1.4	Enable/Disable EAN-8 : Parameter # 0x04	78			
5.1.5	Enable/Disable EAN-13 : Parameter # 0x03	78			
5.1.6	Enable/Disable Bookland EAN : Parameter # 0x53	78			
5.1.7	Decode UPC/EAN Supplementals : Parameter # 0x10	79			
5.1.8	Decode UPC/EAN Supplemental Redundancy : Parameter # 0x50	79			
5.1.9	Transmit UPC-A Check Digit : Parameter # 0x28	80			
5.1.10	Transmit UPC-E Check Digit : Parameter # 0x29	80			
5.1.11	Transmit UPC-E1 Check Digit : Parameter # 0x2A	80			
5.1.12	UPC-A Preamble : Parameter # 0x22	80			
5.1.13	UPC-E Preamble : Parameter # 0x23	80			
5.1.14	UPC-E1 Preamble : Parameter # 0x24	81			
5.1.15	Convert UPC-E to UPC-A : Parameter # 0x25	81			

5.9.3	CLSI Editing : Parameter # 0x36. ....	89
5.9.4	NOTIS Editing : Parameter # 0x37. ....	89
<b>5.10</b>	<b>MSI</b> .....	89
5.10.1	Enable/Disable MSI : Parameter # 0x0B .....	89
5.10.2	Set Lengths for MSI : Parameter # L1 = 0x1E, L2 = 0x1F .....	90
5.10.3	MSI Check Digits : Parameter # 0x32. ....	90
5.10.4	Transmit MSI Check Digit : Parameter # 0x2E .....	90
5.10.5	MSI Check Digit Algorithm : Parameter # 0x33 .....	90
<b>5.11</b>	<b>RSS</b> .....	91
5.11.1	Enable/Disable RSS-14 : Parameter # 0xF0 0x52 .....	91
5.11.2	Enable/Disable RSS-Limited : Parameter # 0xF0 0x53 .....	91
5.11.3	Enable/Disable RSS-Expanded : Parameter # 0xF0 0x54 .....	91
<b>5.12</b>	<b>Data Options</b> .....	91
5.12.1	Transmit Code ID Character : Parameter # 0x2D .....	91
5.12.2	Prefix/Suffix Values : Parameter # P = 0x69, S1 = 0x68, S2 = 0x6A .....	92
5.12.3	Scan Data Transmission Format : Parameter # 0xEB .....	92
<b>5.13</b>	<b>Serial Interface</b> .....	93
5.13.1	Baud Rate : Parameter # 0x9C. ....	93
5.13.2	Parity : Parameter # 0x9E. ....	93
5.13.3	Software Handshaking : Parameter # 0x9F. ....	93
5.13.4	Decode Data Packet Format : Parameter # 0xEE. ....	94
5.13.5	Host Serial Response Time-out : Parameter # 0x9B ..	94
5.13.6	Stop Bit Select : Parameter # 0x9D .....	94
5.13.7	Intercharacter Delay : Parameter # 0x6E. ....	94
5.13.8	Host Character Time-out : Parameter # 0xEF .....	94
<b>5.14</b>	<b>Event Reporting</b> .....	95
5.14.1	Decode Event : Parameter # 0xF0 0x00 .....	95
5.14.2	Boot Up Event : Parameter # 0xF0 0x02 .....	95
5.14.3	Parameter Event : Parameter # 0xF0 0x03. ....	95
<b>5.15</b>	<b>Numeric Bar Codes</b> .....	95
5.15.1	Cancel .....	95
<b>6.0</b>	<b>Summit Radio</b> .....	96
<b>6.1</b>	<b>Summit Client Utility</b> .....	96
6.1.1	Main Window .....	96
6.1.2	Profile Window .....	97
6.1.2.1	Radio Settings .....	98
6.1.2.2	Preferred Band for 802.11a/g Radio .....	98
6.1.2.3	Ad Hoc .....	98
6.1.2.4	Security Settings .....	99
6.1.2.5	Using Scan to Create a Profile. ....	99
6.1.2.6	EAP Credentials .....	101
6.1.2.7	Encryption .....	102
6.1.2.7.1	Cisco TKIP. ....	102
6.1.2.7.2	WPA Migration Mode and WPA2 Mixed Mode .....	102
6.1.2.8	ThirdPartyConfig .....	102
6.1.2.9	EAP-FAST .....	102
6.1.3	Status Window .....	102
6.1.4	Diags Window .....	103
6.1.5	Global Window .....	103
6.1.6	PMK Caching .....	106
<b>7.0</b>	<b>BlueTooth</b> .....	107
<b>7.1</b>	<b>Introduction</b> .....	107
7.1.1	Bluetooth Functions .....	107
7.1.2	Main Window .....	107
<b>7.2</b>	<b>Basic Operations</b> .....	108
7.2.1	Start BlueSoleil .....	108
7.2.2	Search for Other Bluetooth Enabled Devices .....	108
7.2.3	Establish Connection .....	108
7.2.3.1	Start the Service .....	108
7.2.3.2	Initiate the Connection .....	108
7.2.4	Bluetooth Security .....	109
<b>7.3</b>	<b>Getting Started</b> .....	109
7.3.1	AV Headphone .....	109
7.3.2	Basic Imaging .....	109
7.3.3	Dial-up Networking .....	109
7.3.4	FAX .....	110
7.3.5	File Transfer .....	110
7.3.5.1	Connect to a Mobile Phone .....	110
7.3.5.2	Share a Folder on Your Computer with other Bluetooth-Enabled Devices ...	110
7.3.5.3	Access a Shared Folder on Another Bluetooth Enabled Device .....	111
7.3.6	Headset .....	111
7.3.7	Human Interface Device .....	111
7.3.8	LAN Access .....	111
7.3.9	Object Push .....	112
7.3.9.1	Push Objects to a Bluetooth-Enabled Mobile Phone .....	112
7.3.9.2	Receive Objects from a Bluetooth Enabled Mobile Phone .....	112
7.3.10	Personal Area Networking .....	112
7.3.10.1	Connecting the PAN User (PANU) .....	113
7.3.10.2	Configuring the NAP/GN .....	113
7.3.11	Printer .....	113
7.3.12	Serial Port .....	114
7.3.13	Bluetooth Synchronization .....	114
<b>7.4</b>	<b>BlueSoleil User Guides</b> .....	115
7.4.1	BlueSoleil Environment .....	115
7.4.1.1	Main Window .....	115
7.4.1.1.1	Local Bluetooth Device. ....	115
7.4.1.1.2	Remote Bluetooth Devices. ....	115
7.4.1.1.3	Bluetooth Service Buttons of Remote Device .....	115
7.4.1.2	Service Window .....	115
7.4.1.3	Menus .....	116
7.4.2	Device Configurations 117	
7.4.2.1	Hardware Configuration .....	117
7.4.2.2	Properties Configuration .....	117
7.4.3	Security Configuration .....	117
7.4.3.1	Pair / Un-pair Devices .....	117
7.4.3.1.1	How to pair with another device .....	117
7.4.3.1.2	How to un-pair with another device .....	117
7.4.3.2	General Security .....	117
7.4.3.2.1	Security Level .....	117
7.4.3.2.2	Bluetooth Passkey .....	118
7.4.3.2.3	Data Encryption .....	118
7.4.3.3	Managing Device Pairings .....	118
7.4.3.4	Local Services Security .....	118
7.4.3.4.1	Local Services: .....	118
<b>Appendix A</b>	<b>— EAP Types</b> .....	119
<b>Appendix B</b>	<b>— Encryption Settings</b> .....	121


# 1.0 Introduction

## 1.1 User and Product Safety

- Do not stare into the laser or LED beam directly or shine it into eyes.
- Never use strong pressure onto the screen or subject it to severe impact, as the LCD panel could become cracked and possibility cause personal injury. If the LCD panel is broken, never touch the liquid inside because the liquid irritates the skin.
- Although the PDT has passed the test of IP65 standard for water and dust resistance, avoid prolonged exposure to rain or other concentrated moisture. Such condition exceeds the IP65 standard, and could result in water or other contaminants entering into the PDT.
- Use only the original approved AC Adapter with the PDT. Use of an unapproved AC Adapter could result in electrical problems, or even cause a fire or electrical shock to the user.
- Do not disassemble the PDT. Servicing should be done by supplier only. If the PDT or accessories gets damaged due to wrong handling or unauthorized repair, warranty is void. In case the warranty seals are broken, warranty is void too.
- Make regularly back-up of all important data.
- Under no circumstance will supplier be liable for any direct, indirect, consequential or incidental damages baring out of the use or inability to use the hardware and software and/or any data loss, even if supplier has been informed about the possibility of such damages.
- **LASER RADIATION: DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT.**

## 1.2 LED and LASER Safety Information

- M9000 is a Class II LED/Laser Product.
- **DO NOT STARE** at the LED/Laser or shine into eyes.
- Do not allow young children to use the product without adult supervision.
- Do not replace/repair the LED/Laser; these are not user replaceable.
- Do not shine the LED/Laser on a shiny reflective surface.

	<b>– RADIATION EXPOSURE STATEMENT –</b>
	This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.
	This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.  The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

## 1.3 FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to

radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.**

## Specific Absorption Rate (SAR) Information

The SAR Limit of USA (FCC) is 1.6W/kg averaged over one gram of tissue. The device has been tested against this SAR limit. The highest SAR value reported under this standard during product certification for properly worn on the body is 1.37W/kg. This device was tested for typical body-worn operations with the back of the Tablet PC kept 0 cm from the body. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 1.4 Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003. Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

**Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.**

**Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.**

## 1.5 Battery Safety

	<b>– WARNING –</b>
	Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Lithium-ion battery packs might get hot, explode, ignite and/or cause serious injury if exploded by abusive using. Please follow the safety warnings listed as below:

- Do not throw the battery pack in fire. Do not expose the battery to high temperatures.
- Do not connect the positive battery pack with negative battery pack to each other with any metal object (like wire).

# 1.0 Introduction

- Do not carry or store battery pack together with metal objects.
- Do not pierce the battery pack with nails or drills, strike the battery pack with a hammer, step on the battery pack or otherwise expose it to strong impacts, shocks or excessive force.
- Do not solder onto the battery pack.
- Do not expose battery pack to liquid or allow the battery contacts to get wet.
- Do not disassemble or modify the battery pack. The battery pack contains safety and protection measures, which, if damaged, may cause the battery pack to generate heat, explode or ignite.
- Do not discharge the battery pack using any device except for the specified device. When it is used in devices other than the specified devices, the battery pack can be damaged or its life expectancy reduced. If the device causes any abnormal current to flow, it may cause the battery pack to become hot, explode or ignite and cause serious injury.
- In the event the battery pack leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

## 1.6 Warranty Statements

DAP Technologies makes no representation or warranty with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose.

The information in this manual is subject to change. DAP Technologies reserves the right to update and modify the M9000 Series, its accessories, and manuals without notice.

No part of this manual may be copied, distributed, transmitted, transcribed, stored in a retrieval system, or translated in any form or by any means, whether electronically or manually, without the express written consent of DAP Technologies.

As manufacturer, DAP Technologies will replace or repair, at its discretion, any products that prove to be defective in either materials or workmanship, for a period of one year following the purchase date of the M9000 Series unit and for a period of ninety (90) days following the purchase date of the M9000 accessories sold by DAP Technologies. The warranty only covers the materials and workmanship.

This warranty does not cover damages caused by misuse, abuse, or neglect, or occurring during shipping or storage; the warranty does not also cover any modification or servicing by anyone other than a DAP Technologies Authorized Service Center.

DAP Technologies cannot be held responsible for any damage caused by the misuse of the M9000 Series unit or by any other software or hardware added to the M9000.

The operating system, MS-DOS®, Windows CE, and all other software sold or supplied by DAP Technologies are provided as is, without any warranty, either express or implied.

In no event shall DAP Technologies be liable for any direct damage, indirect damage, or damage of any kind, including but not limited to damages on account of the loss of present or prospective profits arising out of or in connection with the use or failure of performance of this product. No claim may be made against DAP Technologies under this head, whether arising from contractual, extra-contractual, or statutory liability.

The warranty allowed hereby excludes all other legal warranties related to the quality of this product or its capacities to fulfill specific purposes, including all warranties granted by the United States Convention on Contracts for the International Sale of Goods, the application of such

Convention being expressly excluded.

M9000 Series is a registered trademark of DAP Technologies. Microsoft and MS-DOS® are registered trademarks of Microsoft Corporation.

## 1.7 Warranty and After Service

Should this Device be malfunctioned, please contact the original retailer providing information about the product name, the serial number, and the details about the problem.

## 1.8 Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN 60950-1: 2006 — Safety of Information Technology Equipment
- EN50371 : (2002-03) — Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) -- General public
- EN 300 440-1 V1.4.1: (2008-05) — Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part1: Technical characteristics and test methods
- EN 300 440-2 V1.2.1: (2008-05) — Electromagnetic compatibility and radio spectrum matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range;
- EN 301 908-1 V3.2.1: (2007-05) — Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive
- EN 301 489-1 V1.8.1: (2008-04) — Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- EN 301 489-3 V1.4.1 (2002-08) — Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
- EN 301 489-7 V1.3.1 (2005-11) — Electromagnetic compatibility and Radio spectrum Matters -(ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)
- EN 301 489-17 V1.3.2 (2007-06) — Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for 2,4 GHz wide-band transmission systems, 5 GHz high performance WLAN equipment and 5,8 GHz broadband data transmitting systems
- EN 301 489-19 V1.2.1 (2002-11) — Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive-Only Mobile Earth Stations (ROMES)



operating in the 1,5 GHz band providing data communication

- EN 301 489-24 V1.5.1 (2010-10) — Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment
- EN 301 489-33 V1.1.1 (2009-02) — Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 33: Specific conditions for Ultra-Wide-Band (UWB) communications devices
- EN 302 065 V1.2.1 (2010-07) — Electromagnetic compatibility and Radio spectrum Matters (ERM); Short-Range Devices (SRD) using Ultra- Wide-Band technology (UWB) for communications purposes; Harmonised EN covering the essential requirements of Article 3.2 of the R&TTE Directive
- EN 301 511 V9.0.2 (2003-3) — Global System for Mobile communications (GSM); Harmonised EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under Article 3.2 of the R&TTE Directive (1999/5/EC)
- EN 301 893 V1.5.1 (2008-12) — Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonised EN covering the essential requirements of Article 3.2 of the R&TTE Directive
- EN 300 328 V1.7.1 (2006-02) — Electromagnetic compatibility and Radio spectrum Matters (ERM); Wide-band transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide-band modulation techniques; Harmonised EN covering essential requirements under Article 3.2 of the R&TTE Directive
- EN 62311:2008 — Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)
- EN 55022:2006/A1:2007 — Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement
- EN 55024:1998/A2:2003 — Information technology equipment — Immunity characteristics — Limits and methods of measurement

## 1.9 European Union CE Marking and Compliance Notices

Statements of Compliance:

**English** — This product follows the provisions of the European Directive 1999/5/EC.

**Danish** — Dette produkt er i overensstemmelse med det europæiske direktiv 1999/5/EC.

**Dutch** — Dit product is in navolging van de bepalingen van Europees Directief 1999/5/EC.

**Finnish** — Tämä tuote noudattaa EU-direktiivin 1999/5/EC määräyksiä.

**French** — Ce produit est conforme aux exigences de la Directive Européenne 1999/5/EC.

**German** — Dieses Produkt entspricht den Bestimmungen der Europäischen Richtlinie 1999/5/EC.

**Greek** — Το προϊόν αυτό πληροί τις προβλέψεις της Ευρωπαϊκής Οδηγίας 1999/5/EC.

**Spanish** — Este producto cumple las disposiciones de la Directiva Europea 1999/5/CE.

# 1.0 Introduction

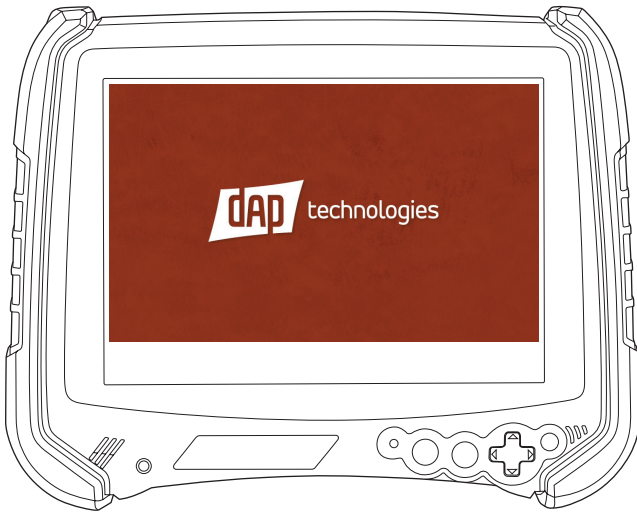
## 1.10 Specifications

<b>Operating System</b>	Windows® Embedded Standard 7, Windows® CE 6.0 Professional
<b>Processor</b>	Intel® Atom™ E660T 1.3 GHz
<b>Memory</b>	1 GB DDR2 SDRAM (2 GB optional)
<b>Storage</b>	16 GB solid state drive (32 or 64 GB optional)
<b>Display</b>	Sunlight-viewable Hardened touchscreen Landscape or portrait orientation Passive stylus or finger operation 7-inch WVGA (800 x 480) 550 nits
<b>Sensors</b>	Light sensor for auto backlight adjustment Position sensor (accelerometer) for portrait or landscape screen orientation
<b>Keypad / Buttons</b>	3-key keypad (enter, navigation, function) 7 programmable keys (touchscreen) Adjustable keypad backlight Programmable trigger on underside
<b>Communications</b>	WLAN — Summit 802.11 a/b/g/n WWAN — Gobi™ 3000: (CDMA, EVDO, UMTS, GSM, GPRS, EDGE, DTM, HSPA, 3G: 14.4 / 5.76 Mbps, DOrA: 3.1 / 1.8 Mbps) GPS — Gobi™ 3000 (Standalone, XTRA, AGPS) Zigbee® — Building Automation (BA) Home Automation (HA) Smart Energy (SE) Wireless USB — Video/data Bluetooth® — v2.1 + EDR Class II (BlueSoleil stack)
<b>Input / Output</b>	Power jack 1x RS-232 1x USB 2.0 <b>Via dock connector:</b> 1x USB 2.0 1x Ethernet
<b>Barcode Scanning</b>	Short range barcode: 1D laser Camera: 5-MP color camera with flash
<b>Expansion Slots</b>	SD card slot (supports up to 32 GB) <b>Multi-I/O interface:</b> 2x USB 2.0 1x CAN bus 2.0 (interface only) 1x SDVO (Serial Digital Video Out) 2x RS-232
<b>Audio</b>	Speaker Intel® HD Audio 3.2 mm stereo headset jack
<b>Software</b>	Windows® Embedded 7: IE8, IIS 7.0, .NET 3.5, Remote Desktop, SQL, Backup and Restore, Boot from VHD or USB, Power Management, EWF and FBWF Windows® CE 6.0 Professional: ActiveSync, FTP client/server, IE 6.0, Viewers for Microsoft® Office and PDF files, Inbox, Windows Media Player, Remote Desktop, Terminal Services, Voice Recorder, Backup and Restore, Barcode Scanner Utility

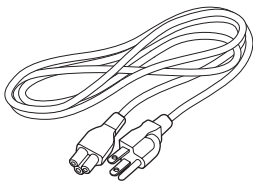
<b>Power</b>	<b>Primary internal:</b> Li-ion battery, 7.4 V, 3000 mAh <b>Secondary battery:</b> Li-ion battery pack, 7.4 V, 3000 mAh <b>Input:</b> 10–20 VDC, 2 A
<b>Dimensions &amp; Weight</b>	9.0 (L) x 7.3 (W) x 2.3 (H) inches [230 x 185 x 60 mm] 2.96 lb. [1346 g]
<b>Regulatory</b>	FCC Class B CE RoHS WEEE <b>Laser safety:</b> A21CFR1040.10 IEC/EN 60825-1
<b>Environment</b>	<b>Operating temperature:</b> -4 to +122 °F [-20 to +50 °C] <b>Charging temperature:</b> 32 to +104 °F [0 to +40 °C] <b>Storage temperature:</b> -22 to +158 °F [-30 to +70 °C] <b>Drop:</b> Multiple 6-foot (1.8-meter) drops to concrete <b>ESD:</b> 15 kV air discharge, 8 kV direct discharge <b>Sealing:</b> IP67 certified <b>Humidity:</b> 5%-95%, non-condensing <b>Vibration:</b> MIL-STD-810F

## 2.0 Getting Started

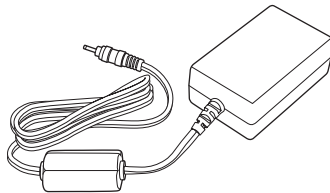
### 2.1 What's In the Package



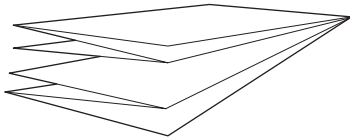
M9010



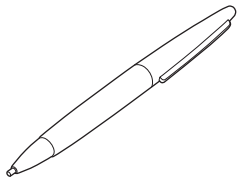
Power Cords (US, UK, and EU)



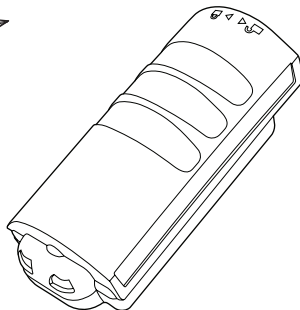
AC Adapter



Quick Start Guide



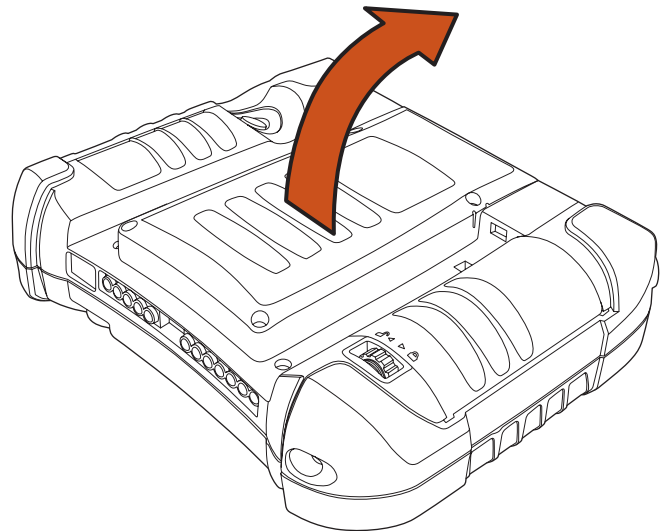
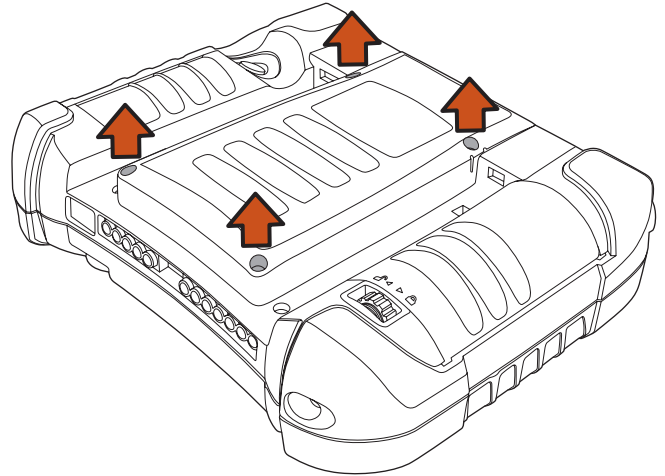
Stylus



Battery Pack

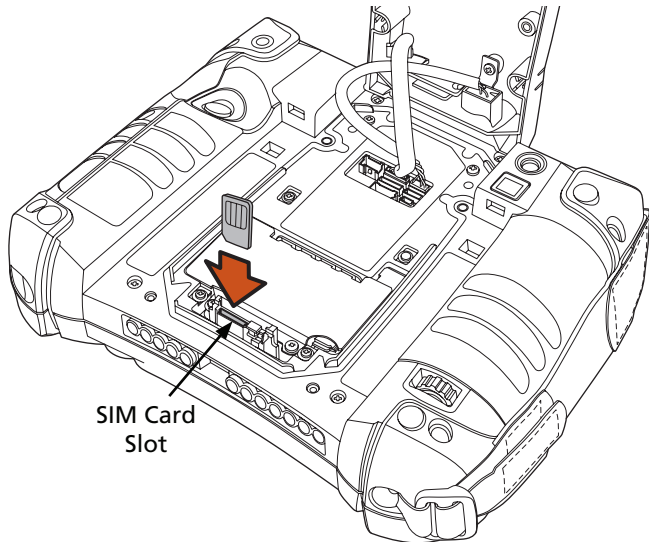
### 2.2 Installing Optional Memory Cards

1. Using a flathead screwdriver, remove the screws as shown.

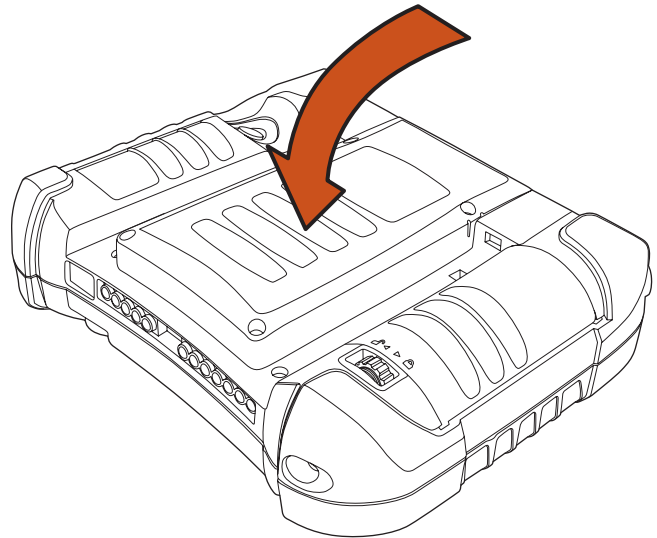


## 2.0 Getting Started

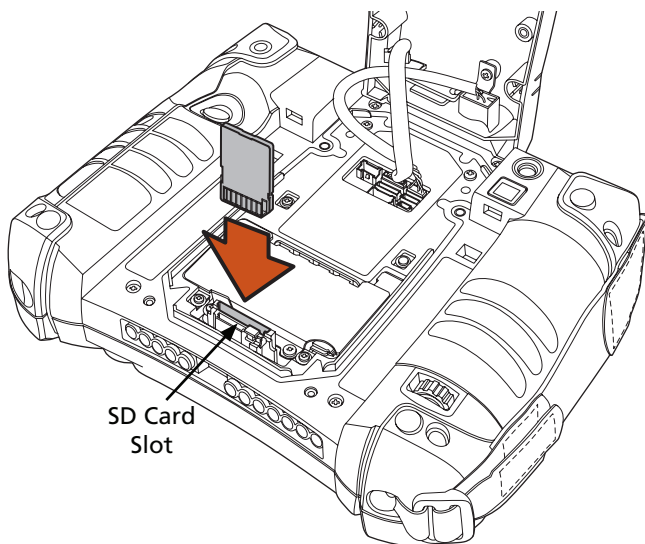
2. Lift the back cover off.
3. Insert the SIM Card into the small slot.



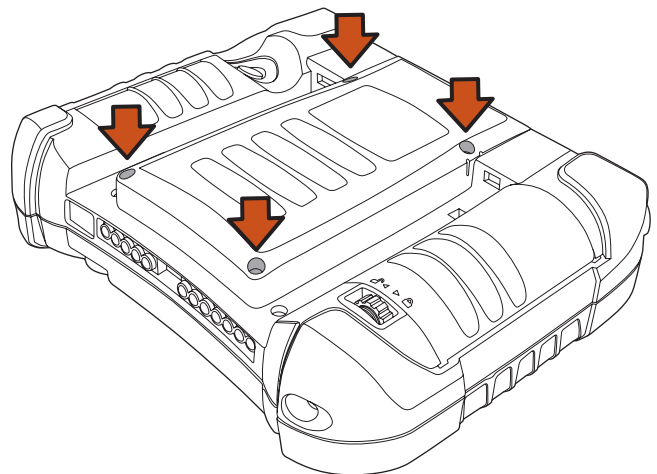
5. Place the cover back on the unit.



4. Insert the SD Card into the slot and press in until it locks in place.

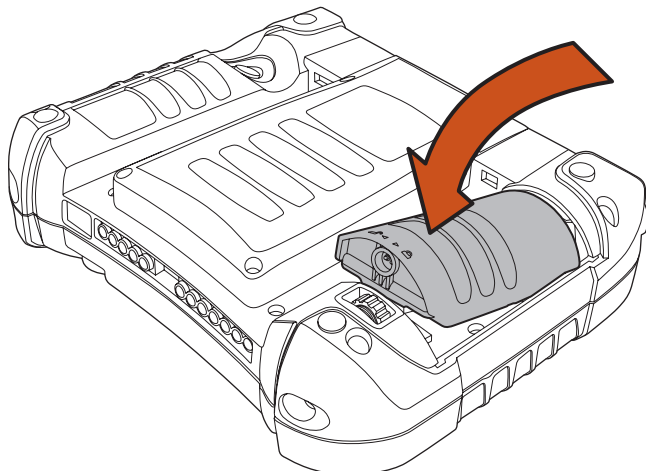


6. Insert the screws into their holes and tighten using a flathead screwdriver.

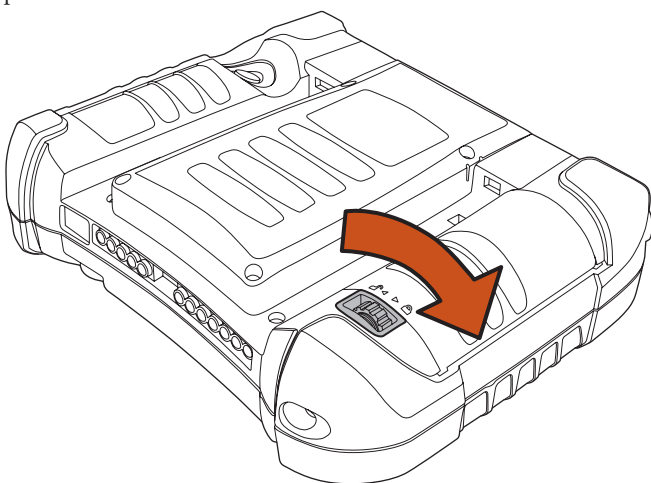


### 2.3 Install the Battery

1. Insert the battery as shown to the right.



2. Turn the battery lock wheel clockwise until the battery is locked in place.



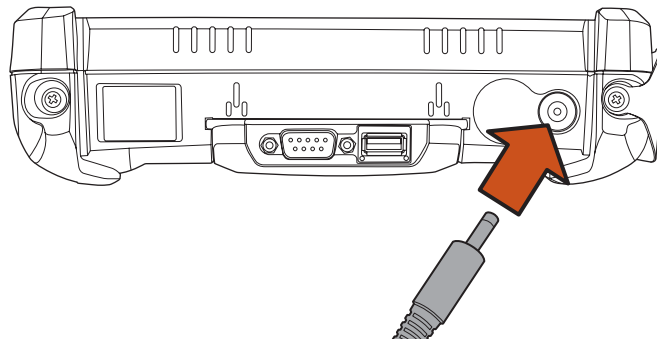
**- WARNING -**

If the battery is not properly locked into position, the unit **WILL NOT** start.

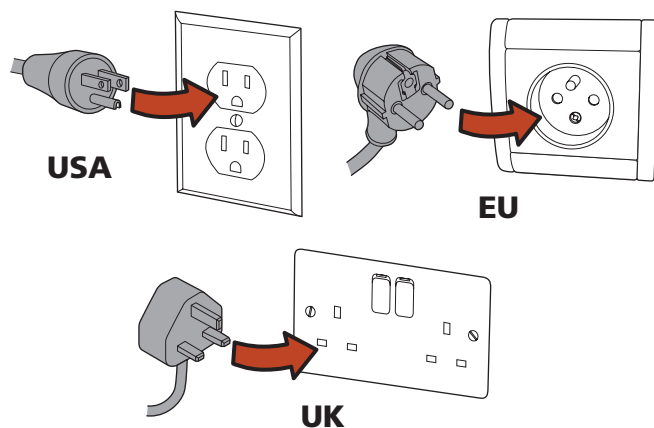
### 2.4 Charge the Battery

#### 2.4.1 Plugging In

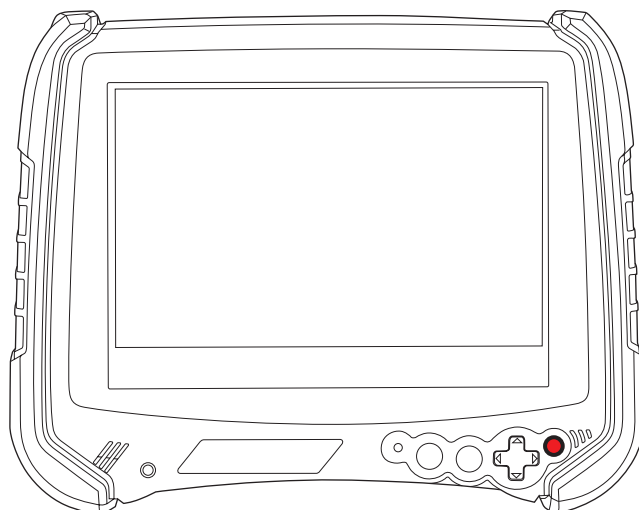
1. Insert the AC adapter into the power input.



2. Insert the power cord into the wall outlet and charge the battery for a minimum of 6 hours.



3. A red light will appear on the front of the unit while the unit is charging. It will turn green when charging is complete.

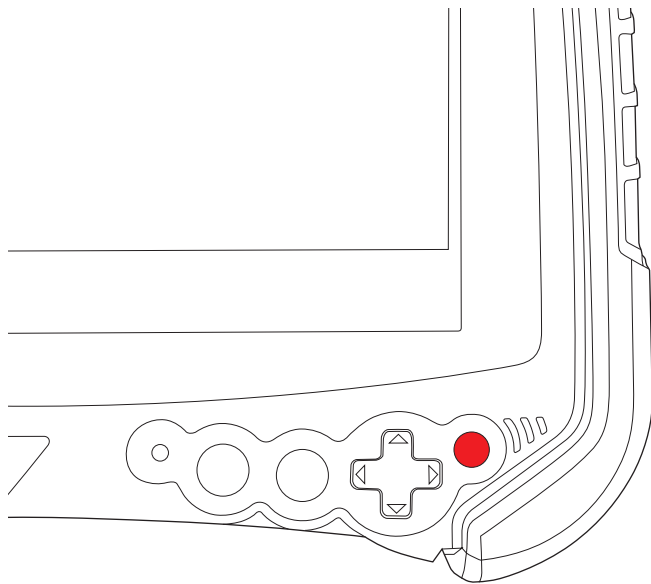


## 2.0 Getting Started

### 2.4.2 LED Indicators

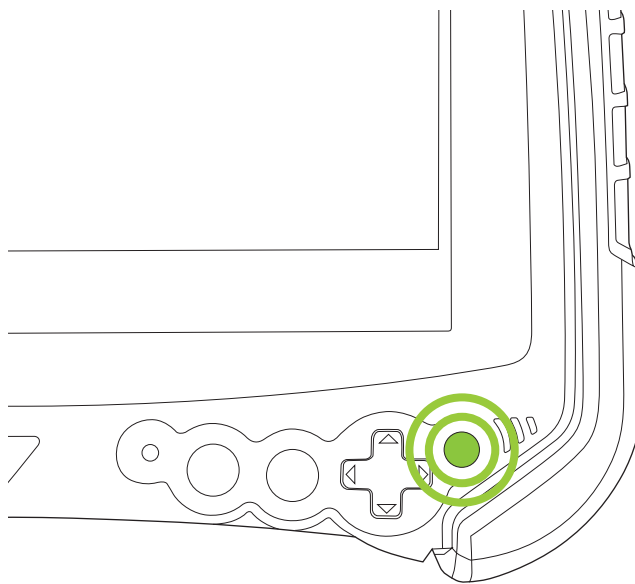
#### *Red LED*

Indicates that batteries are charging.



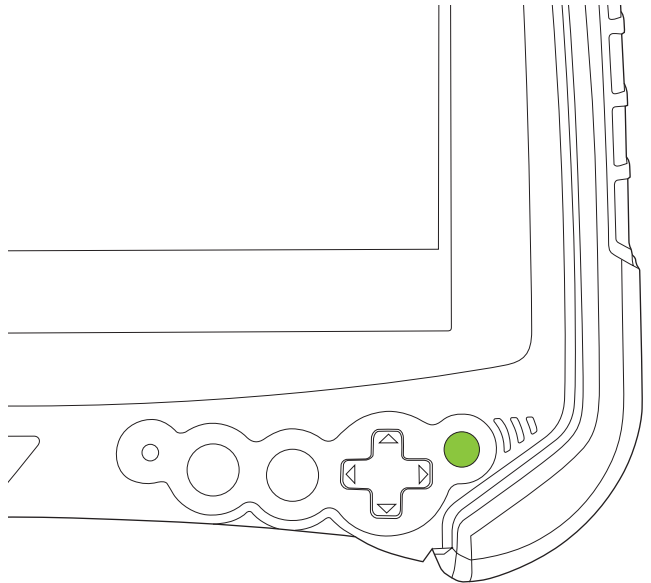
#### *Flashing Green LED*

Indicates that unit is booting, resuming, or hibernating.



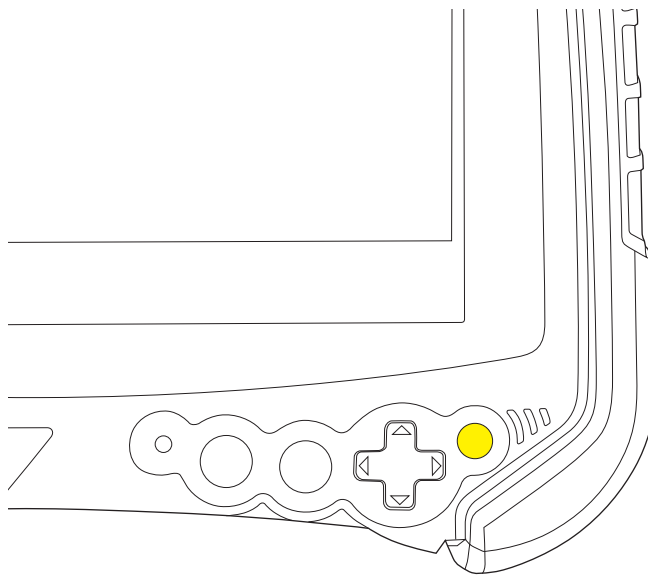
#### *Green LED*

Indicates that batteries are charged



#### *Yellow LED*

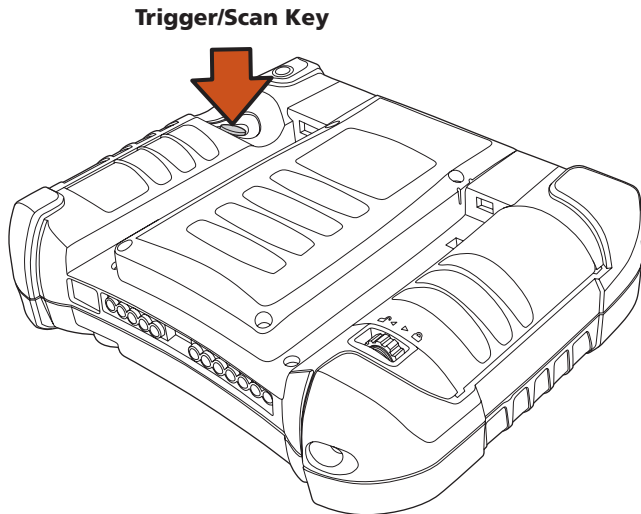
Indicates a battery error, including a missing one.



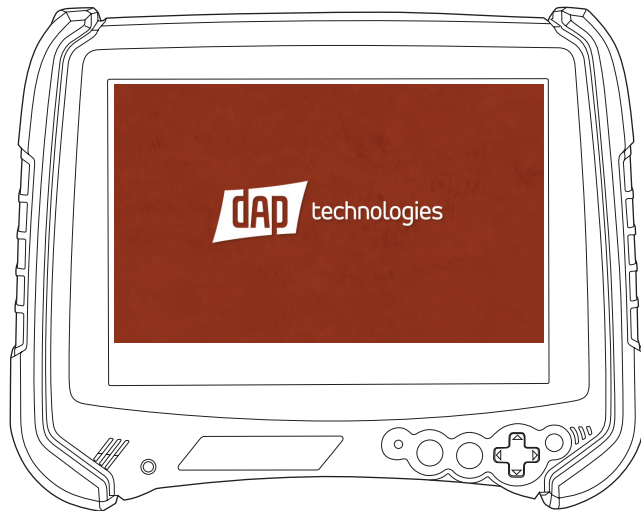
## 2.5 Operating the Unit

### 2.5.1 Turning the Unit On

1. Once the unit is charged, turn the unit on by pressing and releasing the trigger on the back of the unit.



2. A DAP splash screen will appear while the OS is loading.

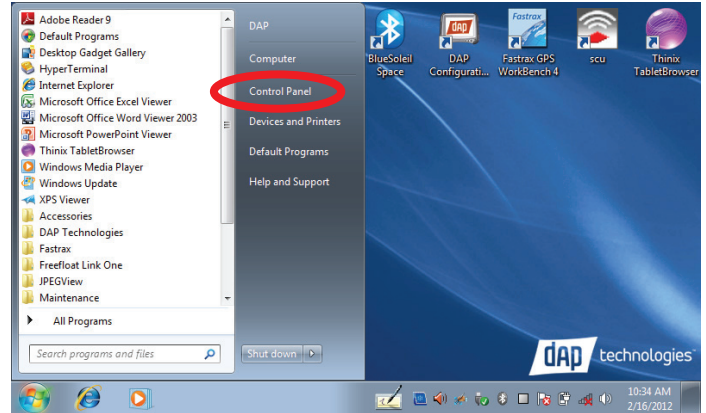


3. Once the OS has loaded, the desktop will appear.
4. The unit is ready for use.

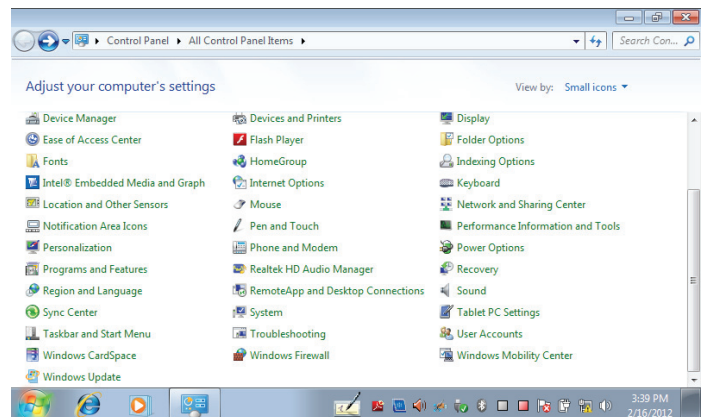
### 2.5.2 Calibrating the Touchscreen

The touchscreen comes pre-calibrated from the factory; however, if the screen ever needs to be re-calibrated, perform the following:

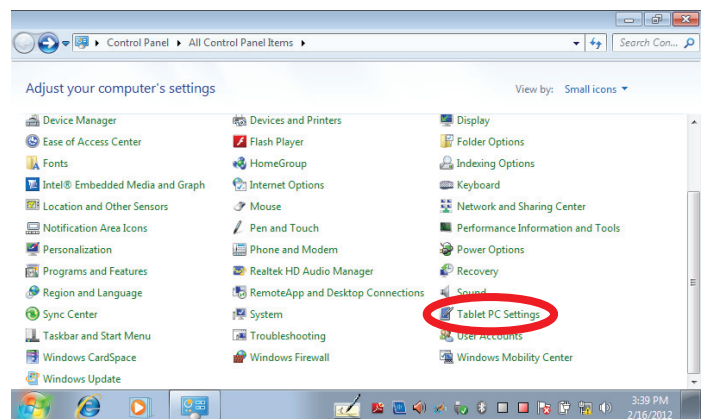
1. Open the **Start Menu** and tap on **Control Panel**.



2. A window entitled **Adjust Your Computer's Settings** will open.

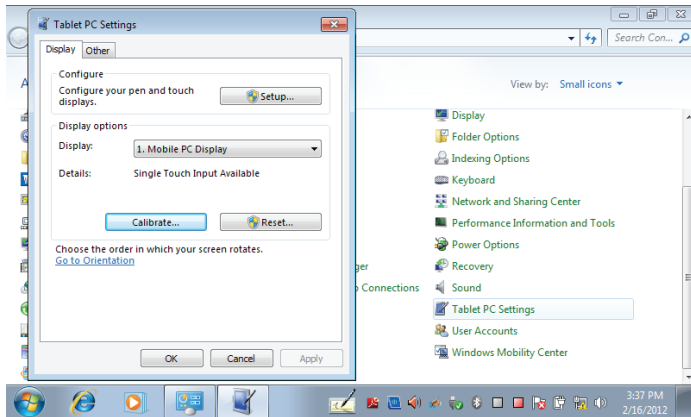


3. Tap the **Tablet PC Settings** icon.

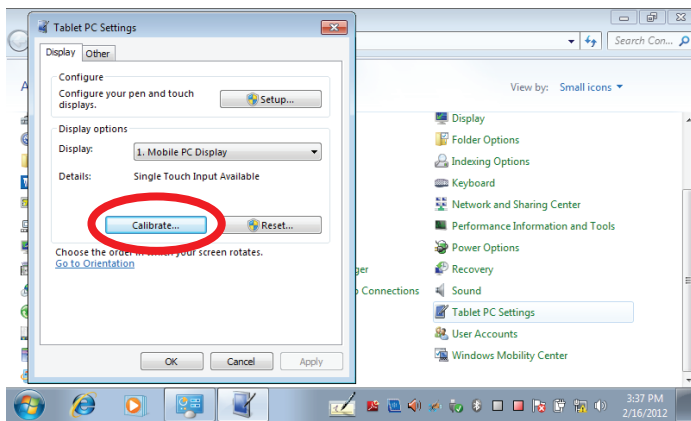


## 2.0 Getting Started

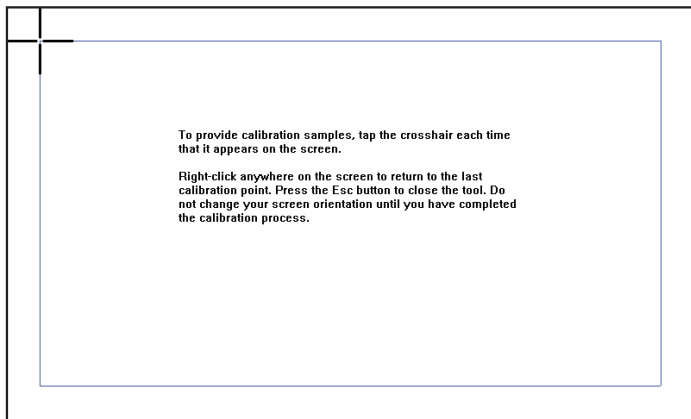
4. The **Tablet PC Settings** window will open.



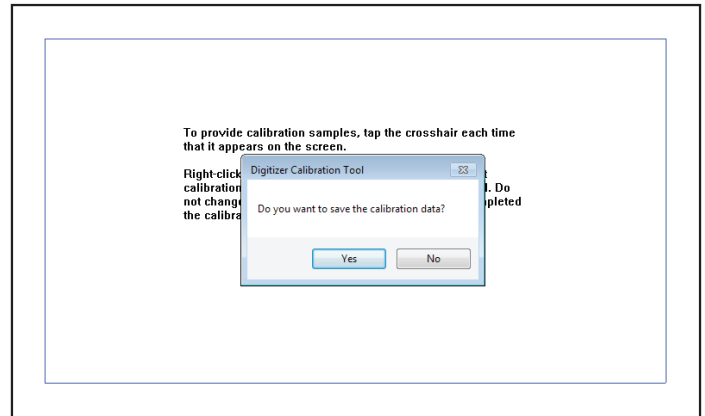
5. Tap the **Calibrate** button.



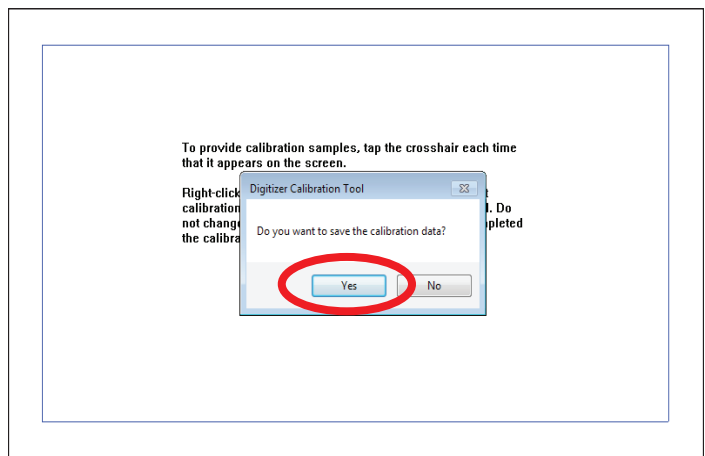
6. The Calibration window will open.



7. Follow the onscreen instructions and the Digitizer Calibration Tool window will open asking to save the calibration data.





8. If the calibration was satisfactory, tap the **Yes** button.





8. The screen will return to the **Tablet PC Settings** window.

### 2.5.3 Launching an Application

#### 2.5.3.1 Using the Stylus

1. Touch the Start Menu Icon  or Start Menu Button  with a finger or the stylus.
2. When the Start aMenu appears, select an item to launch or navigate with using a finger or stylus.

#### 2.5.3.2 Using the Nav Button

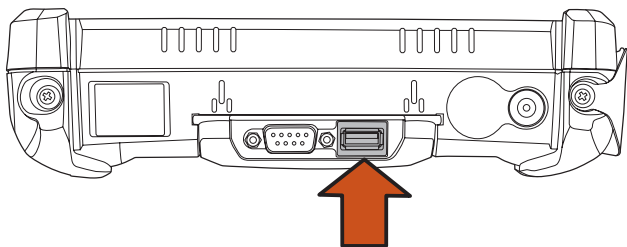
1. Touch the Start Menu Icon  or Start Menu Button  with a finger or a stylus.
2. Once the Start Menu appears, use the Nav Button to scroll the list of items.
3. To select a sub-menu, press the right side of the Nav Button. Pressing the left side of the Nav Button while in a sub-menu will take you to the previous menu.
4. Once an item to be selected is highlighted, press the Enter Button to launch the item.



## 2.0 Getting Started

### 2.5.4 Entering Data

1. Attach a keyboard to the USB connector on the top of the unit.



- OR -

2. Tap the **Tablet PC Input Panel** icon in the task bar at the bottom of the screen and the **Onscreen Keyboard** will appear:



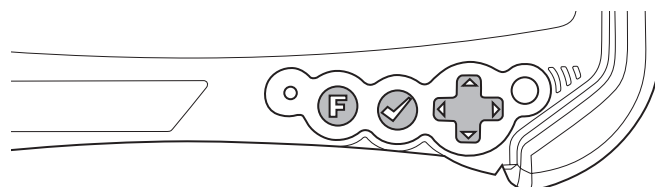
4. To close the Onscreen Keyboard, tap either the X or the **Tablet PC Input Panel** icon a second time.
5. If the unit is rotated, the screen will go dark, then re-orient the desktop in the following manner:



### 2.5.5 Using the Function Button

#### 2.5.5.1 Function Button Key Combinations

This unit provides certain commands through function button combinations. The combinations listed below provide access to the specific options listed below:



**Shutdown:** + +

(Hold until screen shuts off)

**Reset:** + +

**Brightness:** +

**Tab:** +

**Space:** +

#### 2.5.5.2 Function Button with Function Keys

Each Function Key has two states. The first is its programmable function. The second is indicated by an icon representing its function and is activated as shown below:



**Sleep:** +

**Product Site:** +

**Battery Status:** +

**Volume:** +

**Radio Mgmt:** +

**Camera:** +

**GPS:** +