OptimusPDA SP5700 Series
User Manual

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Notice

1. Limited Warranty

Metrologic warrants and represents that all Optimus SP5700 Series PDAs are free of all defects in material, workmanship and design, and have been produced and labeled in compliance with all applicable U.S. Federal, state and local laws, regulations and ordinances pertaining to their production and labeling.

This warranty is limited to repair, replacement of product or refund of product price at the sole discretion of Metrologic. Faulty equipment must be returned to one of the following Metrologic repair facilities: Blackwood, New Jersey, USA; Madrid, Spain; or Suzhou, China. To do this, contact the appropriate Metrologic Customer Service/Repair Department to obtain a Returned Material Authorization (RMA) number.

Metrologic will repair the defective parts free of charge if the problem is due to materials or workmanship during the warranty period. The warranty period for this product is one year from the date of product purchase. Provided that the date of purchase is not clear, it is six months from the date of manufacture. The warranty period for the battery is six months from the date of product purchase. Provided that the date of purchase is not clear, it is three months from the date of manufacture.

However, Metrologic does not service free of charge in cases noted below including during the warranty period.

Any damages or defectives: (1) as a result of accident, misuse, abuse, or other external causes; (2) by the reason of flood, typhoon, fire, war or other Acts of God; (3) by the user’s arbitrary modification or conversion; (4) by any other reasons beyond defects of materials or workmanship.

2. Certifications

This product has been approved by Ministry of Information and Communication.

EMC (EMI/EMS): MIC, EU EMC directive

3. Copyrights

This manual describes and explains the product on the basis of the time of present.

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Metrologic may terminate the contract in the event where a breach of contract has been made by the user.

4. Precautions

1) Always use the supplied AC adaptor and use at the correct voltage.

2) Do not dismantle or modify the product arbitrarily. It may cause damage and void warranty.

3) Do not use this product in dusty or humid environments.

4) Keep the PDA away from magnetic fields or large loudspeakers during use. Data may otherwise be erased from the PDAs memory or damage may be caused to the LCD.

5) Avoid eye contact with the laser beam while scanning. It is harmful for your eyes.

5. Tips for OptimusPDA trouble-free usage

1) The OptimusPDA is designed to operate between -20°C ~ 50°C. Protect your terminal from extreme temperatures. Do not leave it on the dashboard of a car on a hot day and keep it away from heat sources. Malfunction or loss of stored data may otherwise occur.

2) The PDA is durably made to withstand the 1.5m drop test. Care should still be taken not to drop the PDA or to exert excessive pressure on the LCD as the touch-sensitive screen of the PDA is made of glass.

3) Although the OptimusPDA is water resistant, do not expose it to rain or moisture for an extended period of time. Avoid using the terminal when it rains heavily and wipe any excess water off the terminal with a soft cloth before using.

4) Do not scratch the screen. The stylus pen provided is intended for use on a touch screen and should be used. Never use pens, pencils or any other sharp objects on the screen. Clean the screen with a soft, wet cloth when it is covered by dust.

5) Electronic devices are susceptible to RF energy interference from other devices or sources. Avoid using your industrial PDA in the proximity of other signal emitting appliances to ensure correct functioning of your PDA.

6) It is recommended not to store or use your terminal in an environment that is extremely dusty, damp or wet.
6. Unpacking

Carefully remove protective materials from the PDA and the cradle, and store the shipping cartons in case of the need to return the product for repair. Upon receipt of your PDA it is important to verify that you have received all the equipment listed below.

The PDA box should contain:

- PDA: 1  
- LITHIUM-ION BATTERY: 1  
- STYLUS: 1  
- STYLUS HAND STRAP: 1  
- HANDSTRAP: 1*  
- CARRY CASE: 1*  
- LCD PROTECTIVE FILM: 1*

The single-slot cradle box should contain (optional):

- ONE-SLOT CRADLE: 1  
- USB SYNCH CABLE: 1  
- RS232 SYNCH CABLE: 1  
- POWER SUPPLY: 1  
- POWER CORD: 1

* In plastic bag

If anything is damaged or missing, contact your local agent or distributor immediately. If the problem cannot be solved instantly, you should return the PDA to the local agent or distributor where the purchase was made. However, Metrologic is not liable for any damages that occurred due to mishandling during transportation or when the shipping package is not used. For more details with this regard refer to the warranty section.
1. OptimusPDA – General view

Picture 1 Front and left side view

1. Indicator LEDs (Charging & Operation)
2. Antenna (GSM models only)
3. USB Host connector
4. Speaker
5. Scan Trigger
6. 4 Way Navigation Pad
7. Power Button
8. Send (S) & End (E) Buttons for GSM-GPRS
9. Numeric Key Pad
10. Keypad Backlight Button
11. Function Key
12. Universal I/O connector
2. Getting Started

2.1 Charging the Battery

Before using the PDA for the first time, recharge the Li-ion Battery. When charging is completed, the LED indicator will turn **GREEN**. Typical charging time is approximately 3 hours.

**Note:** When charging the PDA for the first time, do not remove the battery before it is fully charged. For an optimal charge time, turn the PDA into sleep mode.

To charge the battery:
- Connect the cradle to the power supply source.
- Slide your PDA into the cradle until the red LED lights up. To charge the spare battery, insert the battery into the slot at the top of cradle. Charging starts automatically and is completed within 3 hours.

![Picture](image)

**Picture 2** Positioning PDA in the cradle

- When the charging LED turns **RED**, the battery is charging. The LED will turn **GREEN** when the charging process is complete.
Charging process

**Note:** The OptimusPDA is equipped with a memory backup battery. The backup battery allows data stored in the memory to be kept when the main battery is removed or discharged. If the PDA remains without the main battery for more than 1 hour, the backup battery will start to get low. It is highly recommended to replace the main battery within 10 minutes or keep charging the battery when the PDA is inserted in the cradle. Otherwise data may be lost.
2.2 Turning the PDA on/off

Before turning on the PDA, ensure the battery is inserted.

1) Inserting the battery
   • Slide the battery lock cover left.

   **Picture 4 Battery cover**

   • Insert the battery into the compartment and replace the cover. Ensure the latch is in the lock position.
2) Turning on your OptimusPDA

- Press the **Power** button to turn the PDA on.
  - If you press and then hold the **Power** button for about 3 seconds, the PDA switches into sleep mode and turns off.

![Power button](image)

**Picture 5** Power button

- When the booting process has finished, the Metrologic logo will be displayed on the desktop as illustrated below.

![Desktop background](image)

**Picture 6** Desktop background

- If the Power button does not activate your PDA, execute a hard reset. For details on how to do this refer to the section “Performing a Hard Reset”.

3) Turning off your OptimusPDA

- Press and hold the **Power** button for 3 seconds or tap **Suspend** on the start menu.

- It is possible to set your terminal to auto-suspend status or to auto-turn off after a specified period of time in order to save battery power.
- To change the power setting: Tap **Start** → **Settings** → **Control Panel**. Double tap the **Power** button and select the **Schemes** Tab.

![Picture 7 Navigating to the Control Panel](image)

- It is recommended to remove the battery from the PDA when it is not in use for a long time.
3. Settings

3.1 Sleep Mode

1) To reduce battery consumption the PDA can be manually put in to Sleep Mode. To do this, push the Power button for 3 seconds or tap Start → Suspend. Data stored in RAM remains unchanged when in sleep mode.

2) To wake up the PDA from sleep mode, press the Power button. When the system wakes up, the screen will display the same view as displayed before entering sleep mode.

3.2 LCD Display

1) To save battery power it is recommended to change the backlight settings so that the backlight turns off when it is not needed.

   Tap Start → Settings → Control Panel, then Double tap Display.

2) Press the Backlight tab and select the required length of time before the backlight switches off.

3.3 Volume & Sounds

To change sounds and the volume tap Start → Settings → Control Panel, then double tap the Volume & Sounds icon.

3.4 Date/Time

In order to adjust the date and time, select Start → Settings → Control Panel, then double tap on the Date/Time icon.
4. PDA Management

4.1 Using the Stylus

The stylus is useful for command selection and entering data. The stylus functions are similar to a mouse connected to a PC.

1) Tap: Touch the screen once with the stylus to open an item and select options.
2) Drag: Hold the stylus on the icon and drag it across the screen to a selected area. Drag in a list to select multiple items.

Note:

1. If the surface of the display becomes dirty, clean it with a soft cloth before using the stylus pen.
2. Take care not to scratch the screen. When operating the OptimusPDA, use only the stylus provided and never use a pen, pencil or any other sharp objects on the surface of the OptimusPDA screen.
3. Do not let children play with the stylus. Contact with the edges may cause injury.

4.2 Calibrating the Screen

When tapping the screen with the stylus, programs or functions may not activate or be selected correctly. If this is the case, the screen may need to be calibrated allowing better alignment of the cursor on the touch-screen. To calibrate, follow the below easy steps:

1) Select Start → Settings → Control Panel, double tap the Stylus icon.
2) Select the Calibration tab → Select the Recalibrate button.
2) Using the stylus, tap the center of the cross that appears. Continue to follow the instructions until the screen has been properly calibrated.

Picture 8 Calibration screen  Picture 9 Calibration settings completion
4.3 Resetting

If the screen freezes or the terminal becomes inoperative, you may need to reset your PDA.

4.3.1 Performing a Soft Reset

Note: Transfer all stored data into a computer otherwise files that are open during a soft reset may not be retrieved.

To perform a soft reset, press the Reset Button located at the rear of the PDA on the right side above the Battery Cover.

Press the Reset Button here by using your stylus

Note: Soft reset restarts the OptimusPDA and saves all stored records.
4.3.2 Performing a Hard Reset

When a Hard Reset is performed, all formats, preferences, date/time, and other settings are restored to their factory default values. To perform a hard reset, press the **Reset** and **Power** buttons simultaneously.

**Picture 11 Power button**

**Note:** Hard reset not only restarts your PDA, but also erases all stored records and entries in the RAM memory. Therefore, perform a hard reset only in cases when a soft reset mode does not work.

**BE CAREFUL WHEN YOU PERFORM A HARD RESET SEVERAL TIMES CONSECUTIVELY WITHIN A SHORT PERIOD OF TIME, THIS MAY CAUSE THE SCREEN TO BECOME BLANK ACCOMPANIED BY VERTICAL LINES.**
5. Applications

5.1 Creating documents

You can create a new document on your PDA with Microsoft WordPad®, or work on an existing one by sending it from the PC to your OptimusPDA. Data, files, and document uploads/downloads between PDA and computer are controlled by the Microsoft ActiveSync® software.

There are two ways to enter characters into the document using document-editing programs:

- Using the keyboard
- Using the handwriting recognition program

These two methods are explained in more detail below.

---

1 Microsoft WordPad® is a registered trademark of Microsoft.
1) Using the keyboard

- Select the WordPad icon from the Start menu or tap the shortcut icon on the desktop screen to run **Microsoft WordPad®,** the document-editing program.

The pictures below illustrate how to use the screen shortcut for activating WordPad. By double tapping on the Microsoft WordPad® icon (Picture 12), the Microsoft WordPad® program will appear (Picture 13).

![Picture 12: WordPad shortcut](image1.png)  
![Picture 13: New Document display](image2.png)
• Tap once on 

 at the bottom of the screen (see Picture 14). A keyboard should now appear. If this is not the case, press until a drop-down menu appears. Then select **Keyboard**. Picture 15 shows the keyboard panel.

*Note:* You can also use the PDA’s keyboard to input characters. The keyboard uses a numeric keypad that recognizes numbers (0~9). The keypad is color-coded to indicate particular actions that are taken when the **Shift** key is being pressed.
2) Using Transcriber program

- Keep the stylus on the icon at the bottom of the screen.
- A drop down menu will appear; select the Transcriber shown in Picture 16.

![Transcriber Program selection](image1)

Picture 16 Transcriber Program selection
Simply write on the screen with the stylus. Handwriting is converted into recognized characters shortly afterwards.

The following icons will be shown at the bottom of the screen:

- Options
  Set options of writing direction, inking, and shorthand.

- Letter Shape Selection
  This allows user to adapt user’s personal writing style to maximize recognition.

- Mini Keyboard
  Quick input of numbers, punctuation, and other symbols.

- Recognition Mode
  
a: Alpha mode. Default mode to optimize recognition.
  123: Numeric Mode.
  A: Uppercase Mode. Transcriber automatically capitalizes all letters.
5.2 Barcode Scanning

5.2.1 Laser Scan Engine

1) Open the barcode scanning program from the shortcut on the screen.

![Barcode scan Test](image)

**Picture 18** Barcode scan Test

2) Place the scanner in alignment with the barcode and press one of the scan trigger buttons. Ensure the **RED** laser beam line covers the barcode.

![Barcode scanning](image)

**Picture 19** Barcode scanning

---

! DO NOT KEEP THE SCAN BUTTON PRESSED FOR TOO LONG; IT MAY RESULT IN A SCAN ENGINE FAILURE OR MALFUNCTION.
3) A short beep sound indicates successful scanning and decoding of the bar code. The result will be displayed in the scan window.

![Scanner for Laser](image)

**Picture 20** Scanning result

4) Barcode Setting Options

Bar code settings can be changed. This should ideally be done only by an administrator.

- Select Start → Settings → Control Panel
- Double tap Barcode icon
- Click Admin button and then password window pops up
- The password is 23646.
- Click OK then option taps appear.
5) Readable codes

- **Linear Symbologies**: Codabar, Code 11, Code 128, Code 39, Code 93, EAN-8, EAN-13, Interleaved 2 of 5, ISBT 128, MSI, Reduced Space Symbology, Straight 2 of 5 IATA, UPC-A, UPC-E, UPC-E1
5.2.2 Image Scan Engine

1) Run the barcode image scanning program by tapping a shortcut on the background screen.

Picture 24 Opening barcode image scan program

2) Place the scanner in alignment with the barcode and press one of the scan trigger buttons. Ensure the Green laser beam line covers the barcode being scanned.

! DO NOT KEEP THE SCAN BUTTON PRESSED FOR TOO LONG AS THIS MAY RESULT IN A SCAN FAILURE OR DEVICE MALFUNCTION.

3) A short beep sound indicates successful scanning and decoding of the bar code. The result will be displayed in the scan window.

4) In order to accelerate the decoding process, disable imaging in the Options menu.

Picture 25 Disabling image function
5) Readable codes

- **Linear Symbologies**: Codabar, Code 11, Code 128, Code 39, Code 93, EAN-8, EAN-13, Interleaved 2 of 5, ISBT 128, MSI, Reduced Space Symbology, Straight 2 of 5 IATA, UPC-A, UPC-E, UPC-E1

- **Stacked Symbologies**: Codablock F, Code 49, EAN-UCC Composite, Micro PDF417, PDF 417, TCIF Linked Code 39 (TLC39)

- **2D Matrix Symbologies**: Aztec Code, Aztec Mesa, Data Matrix, MaxiCode, QR Code

- **Postal Symbologies**: Australian Post, British Post, Canadian Post, Japanese Post, KIX (Netherlands) Post, Planet Code, Postnet,

- **OCR Fonts**: OCR US Money Font
5.3 Connecting to a Desktop

ActiveSync® is the software that allows users to move files between the OptimusPDA and a desktop PC as well as synchronise data. When the PDA's cradle and desktop computer are connected via a USB cable, inserting the PDA into the cradle automatically activates the Microsoft ActiveSync window, which appears on the desktop and indicates the synchronization status.

5.3.1 Installing ActiveSync® on a Desktop

Insert the ActiveSync CD in the CD-ROM drive. The installation manager will lead you quickly through the installation process. You can also download the latest version of the software from the Microsoft website at http://www.microsoft.com

![ActiveSync 4.2 setup wizard](Picture 26 ActiveSync 4.2 setup wizard)

If the auto installation screen does not appear, click on the setup.exe file on the installation CD-ROM.
5.3.2 Setting up a partnership

With the cradle connected to a desktop computer via a USB or RS232, insert your OptimusPDA into its cradle. The desktop computer will display a window indicating that the PDA is being **connected**.

![Connection process](image.png)

**Picture 27** Connection process

The desktop computer and your PDA will attempt to synchronize. When the “New Partnership” window appears, click **Yes** and then select **Next**.

![Partnership set up window](image.png)

**Picture 28** Partnership set up window
The **Select Synchronization Settings** Window appears. Select the items you want to synchronize and then press the **Next** button.

![Select Synchronization Settings](image)

**Picture 29** Synchronization options

- To complete the process select the **Finish** button. The basic settings and configuration for a PC and the PDA connection will now be established.

![Setup Complete](image)

**Picture 30** Setup completion
Once a partnership is set up, synchronization between the PDA and the desktop computer can take place at any time by running ActiveSync® or by re-inserting the USB cable into the desktop computer with the PDA in the cradle.

![Synchronization process](image)

**Picture 31** Synchronization process

Once completed, the status window will show that synchronization is complete.

![Synchronization status](image)

**Picture 32** Synchronization status
5.4 Wireless Setting

You can turn on/off wireless functions in Wireless Setting menu.

- Select Start → Settings → Control Panel
- Double tap the Wireless Setting icon.

Once Wireless LAN On is selected, the Wireless LAN Setting button will be enabled.

Picture 33 Wireless Setting Icon

Picture 34 Enabling WLAN and changing settings
Click “Save” after changes have been made in each tab. The other wireless options are shown below.

- **Power Save Mode for WLAN**

You can select options for saving battery life in Power Save Mode menu.

- **Auto**: Power Save Mode activates when PDA is being used.
- **Extended**: Power Save Mode is always active. (Maximum battery life saved)
- **Disable**: Power Save Mode does not activate
5.5 Wireless LAN

With a wireless LAN enabled OptimusPDA, it is possible to access the internet wirelessly through the internal WLAN module. The PDA must be set up correctly including any Hotspot configurations. Follow the below steps to Configure your OptimusPDA for wireless LAN connection.

- Select **Start → Settings → Control Panel**
- Double tap the **Network and Dial-up Connections** icon.

![Network and Dial-up Connections icon](image)

**Picture 37 Network and Dial-up Connections icon**

- Select the appropriate driver to configure for wireless connection.

![Initializing connection process](image)

**Picture 38 Initializing connection process**

- Select either to obtain an IP address via DHCP server or to manually specify an IP address.
Specifying an IP address is covered separately under “Static IP”

- **Static IP**

  - Under the **IP Address** tab, select the **Specify an IP address** radio button. Enter the **IP Address, Subnet Mask** and **Default Gateway** data.

  - Select the **Name Servers** tab, and enter the required data. You will need to consult the network manager for specific server address information.

**Picture 39** IP address and server address assignment
To check your network connection status, select the icon on the Taskbar, and then click on the **Wireless Information** tab. The **Signal Strength** is indicated as **Very Good** or **Good** etc…

![Network connection icon](image1.png) ![Connection status](image2.png)

**Picture 40** Network connection icon  **Picture 41** Connection status

- To check the IP address data has been entered correctly, select the **IP Information** tab.

**Note**: IP address data is not lost when a soft reset is performed. However, it should be re-entered again, if a hard reset has been executed.

### 5.6 GSM / GPRS

The GSM/GPRS functionality allows your PDA to be used to make phone calls as well as send data over a cellular network at moderate 2.5G data speeds.

In order to set up a GPRS connection, it may be necessary to specify the Access Point Name (APN), user name and password, and very often IP address, all provided by the network operator.
5.6.1 Initializing the Modem

When the PDA starts up, the Modem.exe is activated automatically and the GSM Module is initialized.

During this process the following icons may appear in the Taskbar:

- : Modem suspended
- : Modem activation in progress
- : SIM card information is being loaded
Antenna and signal icon indicates the signal strength as follows:

- : Found signals only
- : Found signals and identified an operator
- ? : Service area not available

You can switch the GSM Module on or off by pressing the “END” button for an extended period. After turning the GSM function off, the Modem will display the message “Modem Off”.
5.6.2 Checking Subscriber Identity Module (SIM)

As soon as the Phone User Interface starts, the program checks the stored SIM data. The SIM card may require PIN information to be entered in order to continue. To enter a PIN, select “Input PIN” and enter the required PIN as shown in pictures 49 and 50.

**Picture 47** Request for SIM card insertion

**Picture 48** Emergency calls availability

**Picture 49** Request for PIN

**Picture 50** Entering PIN data
5.6.3 Menu

**Signal Indicator**

This is found in the tray at the bottom and shows the following icons:

(Signal found : - | Operator found : - | Service not available : - )

**Ear volume status**

Is shown in the Phone UI at the top and shows the following icons:

(Min : - | Med : - | Max : - )

**SMS memory status**

Has the following icons:

No unread messages : -

Single unread message : -

Multiple unread messages : -

SIM card is full (or in test mode) : -
1) Phone Setting Menu

Click on the Phone Setting Menu icon in the top right hand corner. The following menu will appear. The various menu options are discussed below.

![Network Finder]

**Picture 52** Phone setup options
2) Setup options

The Phone Setting Menu allows for configuration of sounds, network and SMS settings and Locking settings. Version info can also be viewed.

![Sound setup](Picture 53)

Sound setup

- **Ring**: Ring.wav
- **SMS**: MailRing.wav
- **Conn**: None
- **Exit**: None
- **Ear**: Min Max
- **Mike**: Min Max
- **Sidetone**: 0 - None

![Network setup](Picture 54)

Network setup

- **Automatic Operator Selection**
- **Manual : Unknown**
- **Display By MCC/MNC Number**
- **Manual/Auto:** If manual selection fails automatic mode entered
- **Select Oper:**
- **APN (Access Point Name) Setting**

![PIN edit](Picture 55)

PIN edit

- **Setting PIN Info**
- **Cannot Write PIN**
- **Input PIN Information**
  - **Use PIN Locking**
  - **Change PIN Number**
  - **Enter Your New PIN**
  - **PIN Auto Input**

![Version info](Picture 56)

Version info

- **Disler Ver 1.3b**
  - **Build : Feb 27 2007**

- **Manufacturer : SIEMENS**
  - **Model : MC55**
  - **Revision : REVISION D4.00**
  - **IMEI : 352020013102513**

- **MSISDN : 525522025591990**
  - **SIM ID : 8905000112033081782**
  - **Message Center : +6595540020**
After making any changes, always click on the “save icon”.

3) User Interface options

To access the phonebook, check out call history or view mailbox settings, select the relevant choice from the drop-down menu.
5.6.4 Voice call

4.1 Voice Dialing/Answering

If you want to make a call you should use the key pad or LCD touch-screen driven panel.

Picture 60 Mailbox

A) History: View call log history

B) Phone Book: Displays list of callers along with their names and respective phone numbers

C) Mail Box: Displays the SMS box and what has been sent/received.
1) Voice call: Use the keypad on the PDA and press “S” to make a call and “E” to end a call. Alternatively, use the LCD touch screen keypad.

2) Volume: Use the 4-way direction key pad to increase (Up) or reduce (Down) volume.

**5.6.5 Short Message Service**

**Reading Stored SMS texts**

To read a stored SMS, simply access the Mailbox and select the relevant SMS message. Once the message is open to be read, it can also be forwarded.
Sending a Message

To send a message, first go to the Mailbox. Then tap the envelope icon. The Message Detail window will then open allowing standard SMS details to be entered.

- To send a message, tap on the icon to write a message
- In the Blue Box, write a message
- Press the Send Message button to initiate transmission process

After writing a message, send SMS text by pressing the ‘Send’ button
5.6.6 Phonebook

How to Add a New Phone Number

1. Open up the phone book window by selecting it from the UI Menu at the top.
2. Tap on the icon to add a new address.
3. Enter phone number and other information into the “Address Detail” window.
4. Specify a “Quick Dial” number, or select primary phone number among cellular, home and office phones.

Picture 66 Adding a new contact
The entire list of contacts can be viewed by clicking on the two way icon arrow.
Updating Phone Numbers
To modify any of the phone contacts simply click on the specific contact within the phone book. The address detail screen will be shown.

Once changes have been made, click on the save icon. Clicking on the bin will delete the contact.

**Picture 68** Management of phonebook numbers

1. Select Phone Book
2. Select phone number
3. When the “Address Detail” screen appears, update phone number information, delete selected item, or save changes by tapping the icon
5.6.7 History

Missed call

Sent call

Received call

This button deletes history record

Save to the PhoneBook

Call indicated person

Delete indicated items

Picture 69 Tracking history records
5.6.8 Sound Settings

The sound setting window allows you to change sounds such as the Ring tone, Message Notification Sound and Network Register Sounds as well as other volume parameters.

![Sound configurations](image)

**Picture 70** Sound configurations
5.6.9 Setting the Wireless Network

Automatic Operator Selection is popped up as default

Access Point Name for GPS
When filling in this field, you will set a name for Phone UI front screen

Picture 71 Network advanced settings
Selecting manual Operator mode starts the system search for operators.

With ‘Display by MCC/MNC Number’ selected the MCC/MNC value will be displayed.

**Picture 72** Connecting to network in manual mode
5.6.10 How to Lock the Menu

If ‘Change PIN Number’ is selected, enter the new PIN Number.

1. Input your PIN number
2. Press tab ‘Input PIN information’
3. Check the “Use PIN Locking” box
4. Check the “PIN Auto Input” box

Picture 73 Locking menu values
5.6.11 Connecting to GPRS Network

To establish a new GPRS network, the Access Point Name (APN) should first be set.

1. How to set up GPRS Connection.

1. APN setting.

Setting APN on DDialer. Input APN No on the above blank then click APN Set button.
2. Setting GPRS Dialup Network

2. Setting GPRS Dialup Network Connection.

1. Settings and Network and Dial-Up Connection

2. Click “Make New Connection”.

3. Make a name for connection.
2. Setting GPRS Dialup Network


4. Select modem as COM8 and Click the Configure.. button

5. Setting the Band Rate

6. Setting Call Option then OK button
2. Setting GPRS Dialup Network

4. Setting GPRS Dialup Network Connection.

7. Click the Next button

8. Setting Phone Number " *99***1# "

   It doesn't matter Country or Area Code

   Then click the Finish button

9. Finish the setting
2. Setting GPRS Dialup Network

5 Checking the GPRS properties

10. Double Click the GPRS Icon  11. Checking the above number
6. Troubleshooting

The following table lists common issues that may occur along with possible solutions. Please contact Metrologic if an issue occurs which is not covered here.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-Battery</td>
<td>Charge or replace the battery.</td>
<td></td>
</tr>
<tr>
<td>Problem with Reset button’s rubber</td>
<td>If reset rubber can be pressed with your finger, then cut the tip of the rubber.</td>
<td></td>
</tr>
<tr>
<td>Battery malfunction</td>
<td>Remove the battery from the PDA and do a soft reset. Then re-insert the battery into the PDA.</td>
<td></td>
</tr>
<tr>
<td>OS is not loading</td>
<td>OptimusPDA is inactive (Sleep Mode)</td>
<td>PDA turns off after a period of inactivity. The period can be set under Settings-Power. Press the power button to turn the PDA on and return it to its previous status (prior to going in to sleep mode).</td>
</tr>
<tr>
<td>PDA turns itself off</td>
<td>Battery failure</td>
<td>Replace battery. If your terminal still does not operate, try a hard reset.</td>
</tr>
<tr>
<td></td>
<td>Device was removed from cradle while battery was charging</td>
<td>Re-Insert your PDA into the cradle. Ensure that the PDA is turned off or in a sleep mode while being charged.</td>
</tr>
<tr>
<td></td>
<td>I/O connector is not clean</td>
<td>Clean up the I/O connector.</td>
</tr>
<tr>
<td>Battery does not charge</td>
<td>PDA is not powered on</td>
<td>Press the <strong>Power</strong> button.</td>
</tr>
<tr>
<td></td>
<td>Battery is not charged</td>
<td>Charge the battery.</td>
</tr>
<tr>
<td>Characters on display are invisible</td>
<td>IP error</td>
<td>Fix the static IP address.</td>
</tr>
<tr>
<td>Communication failure with IrDA printer</td>
<td>IP crash</td>
<td>Check whether more than two users work under the same static IP address.</td>
</tr>
<tr>
<td>The stylus pen does not tap correctly</td>
<td>Shortcut icons do not activate the corresponding function</td>
<td>Select <strong>Start → Settings</strong> and double tap on <strong>Stylus</strong>. Then recalibrate the stylus.</td>
</tr>
<tr>
<td>A message appears stating that your PDAs memory is full</td>
<td>Too many files stored in memory module</td>
<td>Delete unused files or transfer data to your PC.</td>
</tr>
<tr>
<td></td>
<td>Memory allocation is too low</td>
<td>Adjust the memory allocation. Tap <strong>Start → Settings → Control Panel</strong>, then double tap the <strong>System</strong> tab. Select <strong>Memory</strong> and adjust the slider.</td>
</tr>
<tr>
<td></td>
<td>Too many applications are installed on your OptimusPDA</td>
<td>If you have installed new applications on your PDA, remove unused applications to extend memory capacity. Tap <strong>Start → Settings → Control Panel</strong>, and double tap <strong>Remove Programs</strong>. Then select unused programs and tap on <strong>Remove</strong> button.</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Your PDA does not accept scan data input</strong></td>
<td>Scan window is dirty</td>
<td>Clean scanner window with a soft, wet cloth.</td>
</tr>
<tr>
<td></td>
<td>Object moves while scanning</td>
<td>Fix the object while scanning.</td>
</tr>
<tr>
<td></td>
<td>Scanning application is improperly opened</td>
<td>Tap on <strong>Start</strong>, then <strong>Settings → Control Panel</strong>, and select the <strong>System</strong> tab to verify whether the unit is loaded with a scanning application or not.</td>
</tr>
<tr>
<td></td>
<td>Unreadable barcode</td>
<td>Scan engine cannot read damaged barcodes.</td>
</tr>
<tr>
<td></td>
<td>Distance PDA and the object too far or too close</td>
<td>Adjust the distance between them at approximately 6 inches, and try again.</td>
</tr>
<tr>
<td></td>
<td>PDA is not programmed for the barcode</td>
<td>Check whether your PDA is programmed to read the type of barcode you are scanning.</td>
</tr>
<tr>
<td></td>
<td>Scanning beam not aligned with a barcode</td>
<td>Angle the barcode at 45 degrees or place scan beam against a barcode to use direct rays.</td>
</tr>
<tr>
<td><strong>ActiveSync does not operate</strong></td>
<td>OptimusPDA was removed from the cradle during communication process</td>
<td>Insert your PDA into the cradle again.</td>
</tr>
<tr>
<td></td>
<td>Incorrect cable</td>
<td>Verify cable is correct and is properly connected.</td>
</tr>
<tr>
<td></td>
<td>ActiveSync is incorrectly installed or configured</td>
<td>Install the ActiveSync program again.</td>
</tr>
<tr>
<td></td>
<td>Connected as a Guest, not by previously created name</td>
<td>Take the terminal out, then insert it the cradle again and enter your name again.</td>
</tr>
<tr>
<td><strong>Sound is not audible</strong></td>
<td>Volume level is very low or turned off</td>
<td>Check the volume slider in <strong>Volume &amp; Sounds</strong> (Tap on <strong>Start → Settings → Control Panel</strong>) to ensure the volume is at adequate level.</td>
</tr>
<tr>
<td></td>
<td>Dust fills the speaker</td>
<td>Clean the speaker.</td>
</tr>
<tr>
<td><strong>Program does not recognize handwriting</strong></td>
<td>Characters are written incorrectly</td>
<td>To recognize handwriting input, characters must be written carefully, in a certain way.</td>
</tr>
<tr>
<td></td>
<td>Character strokes are written on the wrong part of the LCD</td>
<td>Fix the letter recognizer.</td>
</tr>
</tbody>
</table>

Table 1 Solving problems
7. Specifications

7.1 Physical Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>78 W x 177 L x 34 H (Top); 26 H (Bottom) mm / 3.1 x 7.0 x 1.3 x 1.0 in.</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>256g / 9.03oz. (WLAN, WPAN, Camera, Scanner Included/ Except Battery)</td>
</tr>
<tr>
<td><strong>Drop Specification</strong></td>
<td>1.5m / 5 ft onto Concrete Surface (Double Drop for Every Side)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-20 °C to 50 °C (-4 °F to 122 °F)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-30 °C to 70 °C (-22 °F to 158 °F)</td>
</tr>
<tr>
<td><strong>Environmental Sealing</strong></td>
<td>IP54 (Dust and Water Splash Protected)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>5% to 95% HH Non-condensing</td>
</tr>
<tr>
<td><strong>Electrostatic Discharge</strong></td>
<td>8KVDC/Air, 4KVDC/Contact</td>
</tr>
<tr>
<td><strong>Key Pad</strong></td>
<td>2 Triggers, Power, Backlight (LED Backlight Supported), Start, End, 4 Way Navigation Pad, Shift, Function, Backspace, Enter, 12 User-selectable Keys (Numeric, English)</td>
</tr>
</tbody>
</table>

Table 2 Physical specifications

* Subject to change without prior notice.

7.2 Performance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>Intel XScale PXA270 microprocessor (520MHz)</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Microsoft Windows CE® 5.0</td>
</tr>
<tr>
<td><strong>Memory (ROM/RAM)</strong></td>
<td>- Flash ROM: 128 MB</td>
</tr>
<tr>
<td></td>
<td>- SDRAM: 128 MB</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>- 3.5&quot; TFT Color LCD (Transflective Type)</td>
</tr>
<tr>
<td></td>
<td>- Resolution: 240 x 320 pixels</td>
</tr>
<tr>
<td><strong>Standard Communications</strong></td>
<td>RS232, USB v1.1(Host, Client), IrDA v1.2</td>
</tr>
<tr>
<td><strong>Sound (MIC and Speaker)</strong></td>
<td>Water-proof, Internal Microphone and Speaker for Voice Recorder</td>
</tr>
<tr>
<td><strong>Expansion Slot</strong></td>
<td>MiniSD card slot, SIM slot</td>
</tr>
<tr>
<td><strong>Radio Capacity</strong></td>
<td>- WWAN: GSM/GPRS (Optional)</td>
</tr>
<tr>
<td></td>
<td>- WLAN: IEEE802.11b/g (Up to 11Mbps/54Mbps) (Optional)</td>
</tr>
<tr>
<td><strong>Barcode Scanner</strong></td>
<td>1D Barcode: UPC/EAN/KAN, Code 39/ 93/ 128, Interleaved 2 of 5, etc.</td>
</tr>
<tr>
<td></td>
<td>2D Barcode: PDF417, QR Code, Data Matrix, Maxi Code, etc.</td>
</tr>
<tr>
<td><strong>SW</strong></td>
<td>Desktop device manager: Microsoft® ActiveSync</td>
</tr>
<tr>
<td><strong>Application Development</strong></td>
<td>Microsoft Windows CE SDK, Metrologic SDK</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Main Battery: Rechargeable Li-Ion Battery (3.7VDC, 2000mAh)</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Back-up Battery: Rechargeable Battery (3.7V, 130mAh)</td>
</tr>
<tr>
<td><strong>Battery Life</strong></td>
<td>3 - 72 hours</td>
</tr>
<tr>
<td><strong>Charge Time</strong></td>
<td>Less than 3 Hours</td>
</tr>
</tbody>
</table>

Table 3 Hardware specifications
8. Limited Warranty Statement

General

This Limited Warranty applies to the Metrologic brand name products sold with this Limited Warranty Statement.

This Limited Warranty may be enforced in any country where Metrologic or its authorized service providers offer warranty service subject to the terms and conditions set forth in this Limited Warranty Statement.

However, warranty service availability and response times may vary from country to country and may also be subject to registration requirements in the country of purchase.

Metrologic warrants that the Metrologic product you have purchased from Metrologic or from an Metrologic authorized reseller is free from defects in materials and or workmanship under normal use during the warranty period.

The warranty period starts on the date of purchase from Metrologic or from a Metrologic authorized reseller. You dated sales or delivery receipt, showing the date of purchase of the product, is our proof of purchase date.

During the warranty period, Metrologic will repair or replace the defective parts with new parts, or, at Metrologic’s discretion, used parts that meet or exceed performance specifications for new parts. All parts or products removed under this warranty become property of Metrologic. The replacement part or product takes on the warranty status of the removed part or product. In the unlikely event that your Metrologic product has a recurring failure, Metrologic, at its discretion, may elect to replace your product with comparable product. This is your exclusive remedy for defective products.

Before returning any unit for service, be sure to back up data and remove any confidential, proprietary, or personal information. Metrologic is not responsible for damage to or loss of any programs, data or removable storage media.

This Limited Warranty does not apply to expendable parts. This Limited Warranty does not extend to any product from which the serial number has been removed, damaged or rendered defective (a) as a result of accident, misuse, abuse, or other external causes; (b) by operation outside the usage parameters stated in the user documentation that shipped with the product; (c) by the use of parts not manufactured or sold by Metrologic; or (d) by modification or service by anyone other than (i) Metrologic, (ii) a Metrologic authorized service provider or (iii) your own installation of end-user replaceable parts if available for your product in the servicing country.

Limitation of Liability

Metrologic is not liable for any damages caused by the product or the failure of the product to perform, including any lost profits, lost savings, incidental damages, or consequential damages. Metrologic is not liable for any claim made by a third party or made by you for a third party.

This limitation applies whether damages are sought, or a claim made, under this Limited Warranty or as a tort claim (including negligence and strict product liability), a contract claim, or any other claim. This limitation can not be waived or amended by any person. This limitation of liability will be effective even if you have advised Metrologic or an authorized representative of Metrologic of the possibility of any such damages. This limitation of liability, however, will not apply to claims for personal injury.

EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, METROLOGIC MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. METROLOGIC EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY STATEMENT.

Some states or countries do not allow limitation on how long an implied warranty lasts or the exclusion or limitation of the incidental or consequential damages for consumer products. In such states or countries, some exclusions or limitations of this Limited Warranty may not apply to you. This Limited Warranty gives you specific legal rights.

You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state or country laws for a full determination of your rights.

Options and software

The warranty terms and conditions for Metrologic options are as indicated in the Limited Warranty
Statement applicable to Metrologic options. Metrologic’s only obligations with respect to software distributed by Metrologic under the Metrologic brand name are set forth in the applicable end-user license or program license agreement. Non-Metrologic hardware and software products are provided “AS-IS.” However, non-Metrologic manufacturers, suppliers, or publishers may provide their own warranties directly to you.

Warranty Period

The warranty period for this product is one (1) year from the date of product purchase. This warranty does not extend to expendable parts.

Types of Warranty Service

If your product needs service, call the Metrologic After-sales Service Dept. in your country or state at the number listed in the Contacting Customer Support in later section. A technical support specialist will help you diagnose the problem.

Carry-in Warranty service

Carry your product into Metrologic Authorized Center of warranty repair. To locate the service provider nearest you, access the service provider’s location on the Metrologic website; www.Metrologic.com or local reseller’s website you have purchased Metrologic product.

Contacting Metrologic

You are recommended to prepare the following information before you call Metrologic or a local service provider:

- Product Serial Number and Model Name
- Application error messages
- Add-on options
- Operating System version number
- Information on a third party hardware or software
- Detailed questions.

If you have any requests for Metrologic technical support, contact your regional office detailed below.
9. Regional Offices

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Metrologic Instruments GmbH
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Fax: +49 (0) 8085 850 19 300
Email: info@europe.metrologic.com
www.metrologic.com

**EMEA TERRITORY OFFICES**

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Fax: +44 (0)1296 363995
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www.metrologic.com

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Email: info.ru@metrologic.com
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Fax: +33 (0)1 46 63 24 94
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Fax: +34 913 750 437

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Email: info@us.metrologic.com
www.metrologic.com

**South America and Central America**

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Tel: 55-11-5832-0626
Fax: 55-11-5832-0015
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www.metrologic.com

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www.metrologic.com

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Fax: (65) 6862-7166
Email: info@sq.metrologic.com
www.metrologic.com

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Fax: 86-21-50662062
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Email: info.jp@metrologic.com
www.metrologic.com

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29 March 2007
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