CL900 Tablet PC

Model FWS-001

User's Guide

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L'utilisateur final ne peut accéder qu'à une seule version linguistique du système d'exploitation.

Der Endbenutzer darf nur auf eine Sprachversion des Betriebssystems zugreifen.

De eindgebruiker heeft slechts toegang tot één taalversie van het besturingssysteem.

L'utente finale può accedere a una sola lingua del sistema operativo.

El usuario final sólo podrá acceder a una versión de idioma del sistema operativo.

Loppukäyttäjä voi käyttää vain yhtä käyttöjärjestelmän kieliversiota.

Användaren har endast tillgång till en språkversion av operativsystemet.

Slutbrugeren har kun adgang til ét af operativsystemets sprogversioner.

Sluttbruker kan aksessere kun én av operativsystemets språkversjoner.

O utilizador final pode alcançar somente uma versão de língua do sistema de exploração.

O usuário final pode acessar apenas uma versão de idioma do sistema operacional.

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Getting Started 1

The Motion Computing® CL900 Tablet PC is a durable, powerfully equipped tablet developed and built for mobile business. Enterprise-ready, the CL900 offers a blend of performance, integrated features and mobility. The lightweight CL900 helps users work faster and more effectively; it provides the capabilities, applications and ergonomic ease-of-use that mobile workers need to be more productive in today's decentralized work environments.

Product specifications

This is a list of the main features of the CL900 Tablet PC.

- Intel® Atom™ processor Z670 running Windows® 7 Professional
- 1 or 2 GB 800MHz DDR2 memory*
- 30 or 62 GB solid-state drive (SSD)
- 10.1" touchscreen display (LED BL, 1376x768) with Corning® Gorilla® Glass
- Wi-Fi, Bluetooth, and optional mobile broadband with GPS* (Gobi™)
- Multi-touch input by finger and pen
- Mono speaker and dual array microphones
- Front-facing 1.3 MP web camera and rear-facing 3.0 MP documentation camera
- USB, SD slot, 3.5mm audio input/output jack and Micro-HDMI® video port
- Dock connector
- Built-in lithium-Ion battery (up to 8 hours per battery charge)
- Optional Trusted Platform Module* (TPM) for hardware-based security (Infineon)

* Optional features are available when you purchase the CL900.

Optional configurations

This section describes the optional CL900 configurations.

Mobile broadband with GPS

You can choose to purchase a CL900 Tablet PC with the optional mobile broadband with GPS module. When installed, the module provides:

- Worldwide mobile broadband support
- Worldwide global positioning (GPS) support

Motion Connection Manager is an application that you use to manage your mobile broadband and GPS network connections. For information on setting up mobile broadband, see "Set up mobile broadband with GPS" on page 9.

The GPS receiver uses satellites to determine the current location, altitude, heading and horizontal velocity of the CL900. You can use it with your preferred mapping applications to find your current and desired locations.

TPM Security

The CL900 Tablet PC can be purchased with the optional Trusted Platform Module (TPM), which is an embedded security chip that protects the hard drive and guards against unauthorized access to data. TPM can generate and store passwords, encryption keys and digital certificates.

TPM is used by enterprise-level software applications to implement advanced security features such as:

- User and device authentication
- Full disk data encryption
- Restricted network access

System administrators typically configure TPM, which entails enabling TPM in the BIOS and configuring the accompanying security software provided by the TPM manufacturer, Infineon.

CL900 Motion SlateMate™

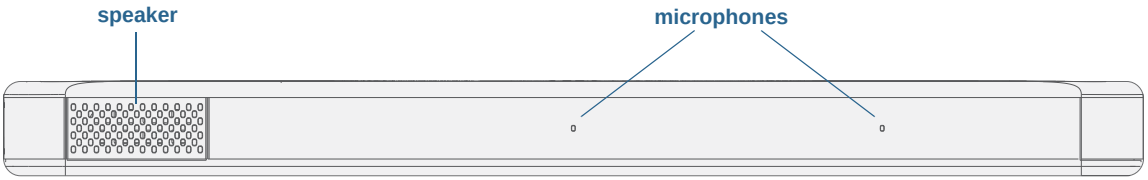
If you purchased the CL900 Tablet PC with the productivity module, Motion® CL900 SlateMate,™ the tablet comes with an integrated Magnetic Stripe Reader (MSR) and Barcode Scanner (BCS). This allows the CL900 to become a mobile point-of-sale and data acquisition tool.

Overview of the CL900

The following illustrations show the buttons, slots and ports on the CL900 Tablet PC.

Top view

The speaker and microphones are located on the top edge of the CL900.



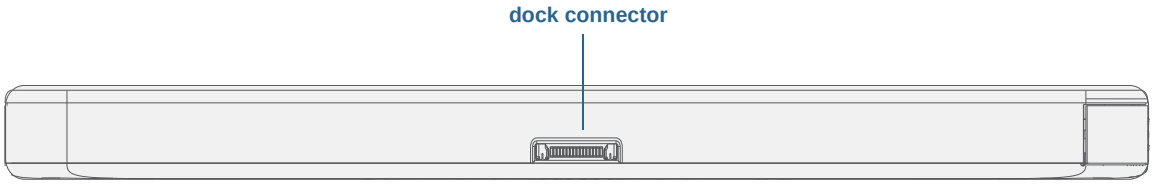
CL900 top view

Speaker	Listen to audio warnings, videos, music and other multi-media applications.
Microphones	Use voice commands, record audio and dictate notes with the two liquid-resistant array microphones without the need for an external microphone. For more information, see “Using speech recognition” on page 43.

NOTE: In addition to the built-in speaker and microphones, you can plug external headsets in the audio in/out jack.

Bottom view

A dock connector on the bottom edge of the tablet enables you to connect with a docking station.



CL900 bottom view

Dock connector	Connect CL900 to a CL-Series docking station.

Front view

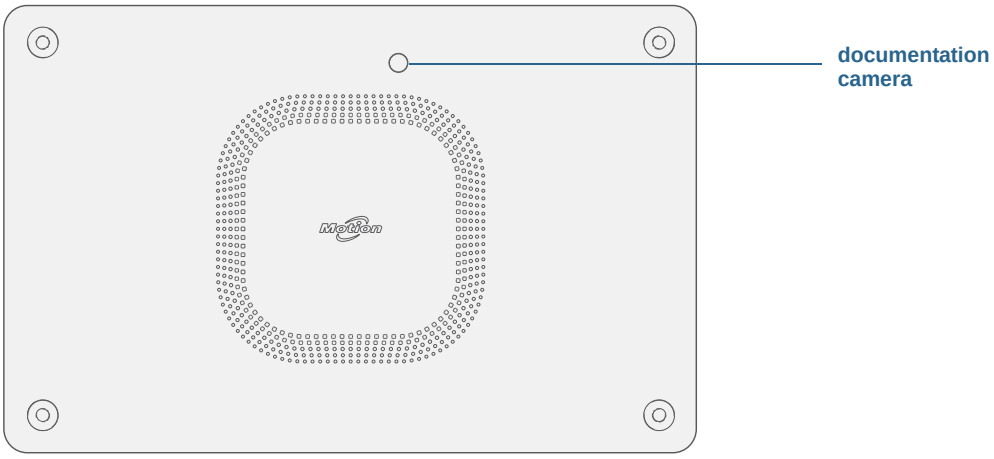
The front of CL900 consists of a capacitive touchscreen display, web camera and battery gauge.

CL900 front view

Web camera	Interact with people online, stream video or capture color images with a 1.3 MP web camera. See “Using the cameras with Motion QuickNav” on page 30.
Battery gauge	Monitor battery status. When running on battery, LED lights on the front show the current level of battery charge. See “Checking tablet battery power” on page 47.
Touchscreen display	Use your finger or pen to access all the functions of the CL900 on the 10.1” display.
Ambient light sensor	Measures background light and can automatically adjust the brightness of the display.

Back view

The documentation camera is located on the back of the CL900.



CL900 back view

	Documentation camera	Take photos or video with this 3.0 MP, auto-focus camera. It produces pictures in JPG format with a resolution up to 2048 x 1536 pixels. See “Using the cameras with Motion QuickNav” on page 30.

Right side view

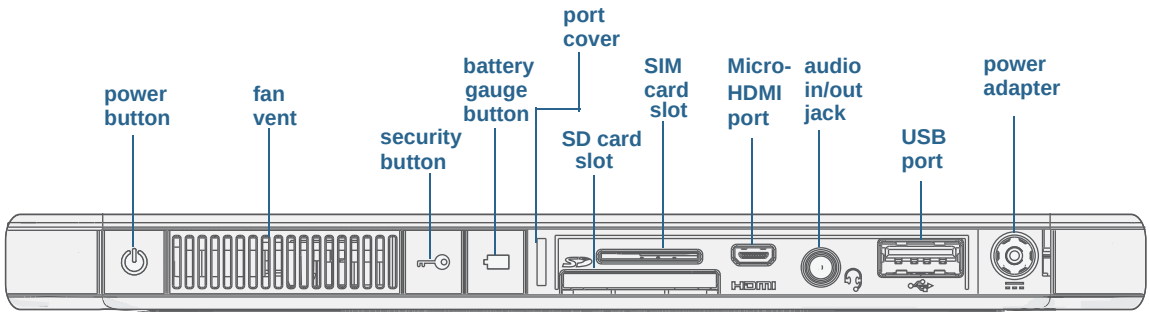
The pen is stored in a storage drawer on the right side of the CL900. (You may have purchased a CL900 without a drawer.)

CL900 right view

	Pen tether attach point	Loop a pen tether through this attach point to keep your pen with the tablet. A tether is packaged with each pen. See “Attach the pen tether” on page 12.
	Pen release button	Press to open the pen storage drawer.
	Pen storage drawer	Store the pen when not in use, pen tip down.

Left side view

Most of the CL900 connectors and slots appear on the left side of the tablet. The ports are protected by a cover which is not shown in the picture below.



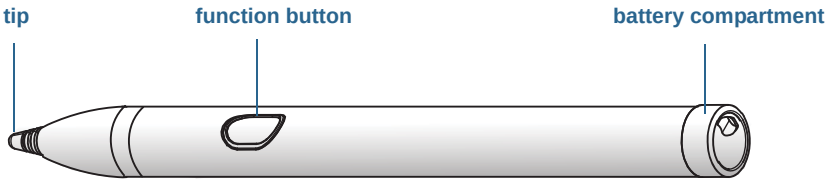
CL900 left side view

	Power button	Press to turn on and to put the CL900 Tablet PC to sleep.
	Fan vent	Cooling unit.
	Security button	Press to lock and unlock the CL900. Equivalent to pressing Ctrl+Alt+Delete on a keyboard.
	Battery gauge button	Check remaining battery power. Press the button to view battery gauge LED lights on the front, the number of lights indicates the current level of battery charge. See "Checking tablet battery power" on page 47.
	Port cover	Rubberized cover that protects the ports.
	SD card slot	Secure Digital (SD) memory card slot.
	SIM card slot	For some mobile broadband networks. If required, your cellular network carrier provides the SIM card.
	Micro-HDMI port	Connect digital audio/video devices such as an external digital monitor. The Micro-HDMI (Type D) supports up to 1080p @ 60Hz.
	Audio in/out jack	Connect headphones, speakers or any other audio device compatible with a 3.5mm jack.
	USB 2.0 port	Connect a USB device such as a mouse, digital camera, printer or external storage device.
	Power adapter port	Connect the power adapter.

Pen

CL900 supports touch with a pen as well as your finger. You may find the pen handy when you want to write a quick email or take notes. The pen is particularly effective for precise data entry and navigation.

The pen is a battery-powered electronic digitizer with a pressure-sensitive tip and function button. When pressed, the function button displays a right-click context menu. The pen comes with a AAAA battery and pen tether.



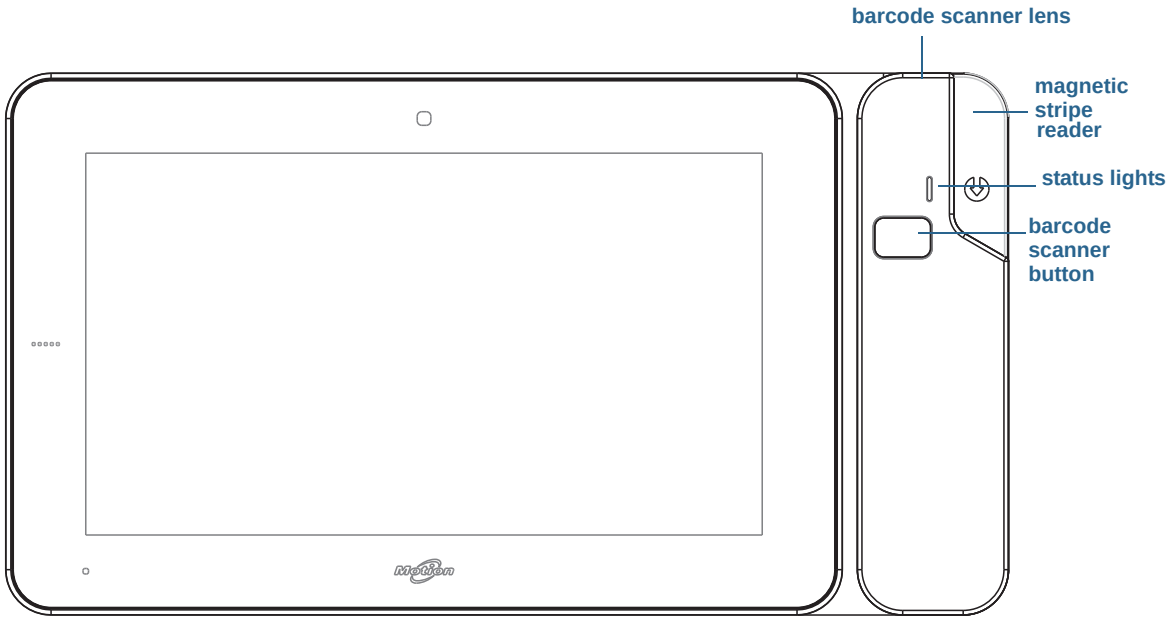
CL900 pen

If your CL900 did not come with a pen, you can purchase one from the Motion Computing Accessories page. For more information on using the pen, see "Using touch" on page 19.

NOTE: The CL900 pen is officially called the CL900 Digitizer Pen on the Motion Computing website. For simplicity, this book refers to it simply as the CL900 pen or pen.

CL900 SlateMate

CL900 SlateMate is a productivity module integrated with the CL900. The first configuration available contains a magnetic stripe reader (MSR) and barcode scanner (BCS).



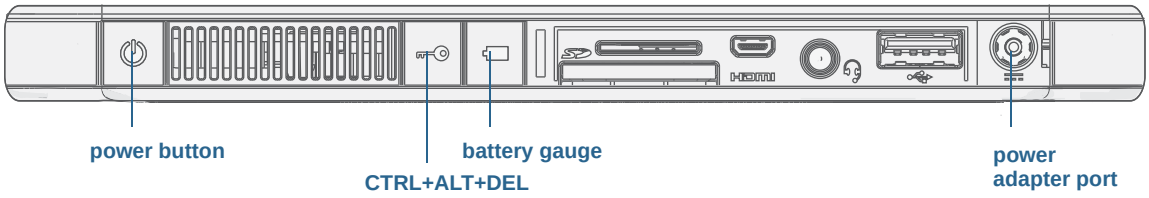
CL900 SlateMate with Magnetic Stripe Reader and Barcode Scanner

Where to begin with your CL900

Here are some steps you can follow to power up and get familiar with your CL900 Tablet PC.

Step 1: Power up the tablet

1. Pull out the port door located at the bottom of the left side of the CL900 to expose the AC adapter port and plug in the AC adapter.



Powering up the CL900

2. Plug the power cord into an outlet.
   - The battery gauge turns amber to indicate that the battery is charging.
   - Keep the tablet on AC power until the battery is fully charged.
3. Press and release the power button located on the top left side of the CL900 to turn it on.
4. Follow the on-screen instructions to set up your user account and install Windows 7.

Step 2: Connect to a wireless network

The CL900 comes with built-in Wi-Fi and Bluetooth. Your tablet may also be equipped with mobile broadband for accessing the Internet.

To set up available wireless networks:

- Enable wireless from the Motion Dashboard
- Set up Wi-Fi
- Set up mobile broadband with GPS
- Set up Bluetooth

Enable wireless from the Motion Dashboard

The first task when setting up wireless is to enable the wireless network adapters from the Motion Dashboard. The Dashboard is a Motion Computing application for configuring your CL900 Tablet PC.

To enable wireless adapters

1. Open the Motion Dashboard. From the Windows task bar, tap the Motion Dashboard icon .
2. Tap **Wireless**.
3. Tap the check boxes next to all wireless networks you intend to use:
   - **Enable Bluetooth Internal Wireless**
   - **Enable 802.11 Internal Wireless**
   - **Enable Mobile Broadband with GPS** (If this option is not listed, your CL900 does not have mobile broadband capabilities.)

NOTE: To extend battery life, enable only the wireless devices that you will be using.

Set up Wi-Fi

Connect to the Internet and other computers wirelessly over Wi-Fi.

To set up Wi-Fi

1. Enable Wi-Fi from the Motion Dashboard.
2. From the notification area, tap the wireless network icon .
3. Tap the desired wireless network from the list of available networks.

Set up mobile broadband with GPS

If you purchased your CL900 with the optional mobile broadband module, you can connect to high-speed cellular networks worldwide. With the mobile broadband module and a data plan from one of several cellular network providers, you have full Internet access.

To set up mobile broadband

1. Enable mobile broadband from the Motion Dashboard.
2. Start the Motion Connection Manager. From the Start menu, select **All Programs > Motion Computing > Motion CM**.
3. Tap the help icon and select the help topic, *Setting up mobile broadband*.
4. Follow the instructions to set up a network profile and connect to the mobile broadband network.

NOTE: Before you can connect to a mobile broadband network, you must have an active account with a cellular network provider. Some providers require a SIM card for mobile broadband access; if you are not sure whether you need one, contact your mobile broadband provider.

Set up Bluetooth

The CL900 has a built-in Bluetooth adapter which provides short-range wireless connectivity with other Bluetooth enabled devices.

To set up Bluetooth

1. Enable Bluetooth from the Motion Dashboard.
2. Add a Bluetooth device:
   a. From the notification area, tap the Bluetooth icon and select **Add a Device**.
   b. Make sure the device is discoverable according to Bluetooth device manufacturer's instructions. When a Bluetooth device is discoverable, it is visible to other Bluetooth devices within range.
   c. Select the desired Bluetooth device from the list of available devices.
   d. Follow the on-screen instructions to complete the procedure.
3. Make the CL900 discoverable (visible) to other Bluetooth devices:
   a. From the notification area, tap the Bluetooth icon and select **Open settings**.
   b. On the **Options** tab, select **Allow Bluetooth devices to find this computer**.

Step 3: Get familiar with your CL900 Tablet PC

Once you've set up your CL900, take a few minutes to get familiar with your tablet.

- Use Motion Computing tools to customize your tablet according to your work style. See "Using the Motion Dashboard" on page 16.
- Open the writing pad and provide handwriting samples to improve handwriting recognition. See "Entering text and handwriting recognition" on page 24.
- Take photos or use the web camera. See "Using the cameras with Motion QuickNav" on page 30.
- Set up speech recognition. See "Using speech recognition" on page 43.

Step 4: When you take a break

When you go away from your tablet for a while, you can lock it to avoid others from accessing it and put it in sleep or hibernate mode to save power.

Lock and unlock the tablet

To lock the tablet, either

- Press and the security button on the left side of the tablet.
- If a keyboard is attached, enter **Ctrl+Alt+Delete.**

To unlock the tablet

- Press the security button or **Ctrl+Alt+Delete** again.

Sleep mode

Place your tablet in sleep mode when you go away for a short period of time. Sleep mode conserves battery power while you are away and when you return, your desktop is the same as you left it. Sleep is sometimes called "stand-by."

To put the tablet in sleep mode

- Save your files.
- Press and release the power button .
  Note: While in sleep mode, the power button flashes green.

To wake up the tablet from sleep mode

- Press and release the power button .

The tablet quickly resumes activity and your desktop is the same as you left it.

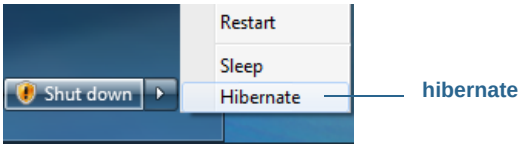
Hibernate mode

If you intend to leave your tablet for several hours or more, you can put the tablet in hibernate mode. Like sleep, when you return from hibernate, your desktop is the same as you left it.

It takes longer to start up from hibernate mode than sleep, but it consumes very little power, saves data to disk beforehand, and is still faster than starting your tablet after shutting it down.

To put the tablet in hibernate mode

- From the Start menu, tap the arrow next to **Shut down** and select **Hibernate**.



Hibernate from the Start menu

For more information on power options, see “Changing how the power button functions” on page 50.

Optional setup tasks

Here are some other tasks you may want to do when you start out with your CL900.

Create a recovery image

Once you have set up your CL900 the way you like it, including installing your applications, create a system image on an external USB drive. This is a safety measure in the unfortunate event that your system stops working.

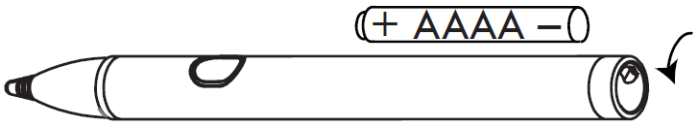
A system image is an exact copy of a drive and includes Windows 7, your system settings, programs, and files. For more information, see “Creating a system image” on page 52.

Insert the pen battery

The pen comes in a separate package with a AAAA battery and pen tether.

To insert the pen battery

1. Unscrew the pen cap.
2. With the plus side of the battery towards the pen tip, insert the battery in the cavity of the pen.



Pen and battery

3. Screw the pen cap in place.

NOTE: The tablet displays a low-battery warning when the pen battery has less than 20% remaining.

Attach the pen tether

The CL900 pen comes with a tether so that you can attach the pen to your tablet or docking station to avoid misplacing it. The tether is essentially a string with loops at each end.

To attach the pen tether

1. Slip one end of the tether through the hole at the end of the pen, then pull the pen through the loop until it is tight.
2. Slip the other end of the tether through the attach point on the CL900 then pull the pen through the loop until it is tight.

TIP: You may find it helpful to use a small screw driver or something similar to assist threading the loop through the tight space of the tether attach point.

You can purchase pens from the Motion Computing Accessories page.

Connect the tablet to a docking station

The CL900 docking station is a separate accessory that you can purchase from the Motion Computing Accessories page. The docking station has:

- Three USB ports to connect a keyboard, mouse, or other USB devices
- An Ethernet port to connect to a local network
- A pen tether attach point

To connect the tablet to a docking station

1. Connect the AC adapter to the port on the back of the docking station.
2. If desired, connect a mouse and or keyboard to USB ports on the back of the docking station.
3. With the front of the dock facing you and holding the tablet upright, slip the tablet into the dock.

TIP: You will know if the tablet is seated properly if the battery gauge located on the left side of the tablet lights up.

Connect the tablet to a display monitor

Connect a display monitor directly to the CL900 tablet itself using the Micro-HDMI port (located on the left side of the tablet) with an appropriate connector, such as a DVI-HDMI adapter.

To set up an external monitor

1. Connect the monitor cable from the external monitor into the Micro-HDMI port on the CL900.
2. Plug in the external monitor and turn it on.
3. If necessary, install software and drivers for the monitor. See the manufacturer's documentation for more information.

After connecting the monitor, set up the external display from the Motion Dashboard as described in "Setting up an external display" on page 41.

For more information

This *User's Guide* introduces the full set of CL900 features and provides instructions for common tasks you'll perform. The rest of this book is organized as follows:

- **Chapter 2 Using your CL900**—Provides instructions for basic CL900 tasks including how to customize your tablet to fit the way you work using Motion Dashboard, how to use the cameras, how to set up speech recognition and more.
- **Chapter 3 Caring for your CL900**—Provides suggestions for keeping your tablet in great shape.
- **Chapter Troubleshooting and FAQ**s—Provides answers to common issues you may encounter as you begin to use your CL900. Also includes FAQs.

The *Getting Started* document located on the desktop provides a number of quick tips to using the tablet.

You will find other useful information on our website:

- Tablet PC Tips & Tricks
- Motion Computing Support
- Free online training videos
- Knowledge Base
- CL900 accessories

NOTE: This guide is available in French, German, Spanish and Portuguese from the web site.

Using your CL900

2

This chapter provides information about performing common tablet tasks such as fine-tuning touch and changing tablet settings.

Introducing the CL900 desktop and applications

When you start up the CL900 for the first time, the desktop looks like the following picture where Motion Computing applications appear in the taskbar and notification area.

Motion Computing desktop and applications

The Motion Computing applications are described below.

	Motion Getting Started	Document that contains tips for starting out with the CL900 Tablet PC.
	Motion Dashboard	Motion application for changing tablet settings. See “Using the Motion Dashboard” on page 16.
	Motion Quicknav	User interface designed for touch devices. You can use this to access the web and documentation cameras. See “Using the cameras with Motion QuickNav” on page 30.
	EXOPC™	Third-party user interface designed for touch devices. Tap the EXOPC icon to open a user interface which you may find convenient for touch interaction and for accessing websites and web applications. (You can get new applications from the EXOStore.) For more information, tap the help icon in the EXOPC user interface or go to www.exopc.com.

Changing the taskbar

You may find it convenient to place the Windows taskbar on the left edge of the touchscreen display.

To place the taskbar on the left edge of the screen

1. Press and hold the Start menu icon and tap **Properties**.
2. Tap the **Taskbar** tab.
3. Make sure that **Lock the taskbar** is checked.
4. Under **Taskbar location on screen**, select **Left**.
5. Tap **OK**.

TIP: As an option, you can hide the taskbar altogether; it reappears when you tap the area. From the **Taskbar** tab, tap the **Auto-hide the task bar** check box.

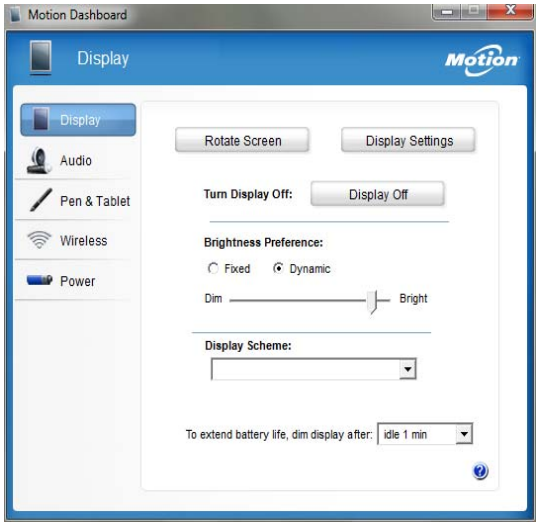
Using the Motion Dashboard

The Motion Dashboard provides a convenient way to change common tablet-related settings.

To open Motion Dashboard

- From the Windows task bar, tap the Motion Dashboard icon .

Motion Dashboard is organized into categories, which are listed on the left of the Dashboard. Tap a category to display its settings. In this illustration, Motion Dashboard is open to Display settings.



Motion Dashboard

The following table lists some of the tasks you can perform using the Motion Dashboard.

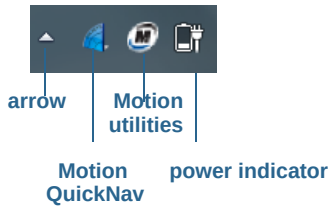
NOTE: This is a partial list of tasks that you can perform with Motion Dashboard. Some of these tasks are described in this chapter; all tasks are described in Motion Dashboard by tapping the help icon .

Dashboard Category	Task
Display	• Rotate the display orientation • Adjust the brightness of the display • Set advanced graphic properties • Set up an external display • Dim the display automatically
Audio	• Adjust speaker and microphone volume • Adjust advanced audio settings • Suppress background noise • Balance speakers
Pen & Tablet	• Configure touch to use touch only, pen only or both simultaneously • Adjust touch to left-handed setting • Adjust sensitivity to flicks and gestures • Use the pen function button for erasing digital ink instead of performing the right-click action • Personalize your handwriting so that it can be recognized more accurately
Wireless	• Enable and disable Bluetooth, 802.11 Wi-Fi, and mobile broadband • Choose to have wireless disabled on Start Up (it is enabled by default) • Adjust 802.11 Wi-Fi and Bluetooth properties
Power	• Dim the display to save power • Select a power plan • Change what the power button does when pressed: sleep, hibernate or shut down

Accessing Motion tools from Windows notification area

For convenience, you can access common Motion tools from the Windows notification area.

NOTE: Initially, the Motion icons do not appear in the notification area. Tap the arrow to view more icons. Tap **Customize** to have the icons appear in the notification area.



Motion icons in the notification area

Tap the Motion icon to display:

- **Battery Health**—Shows the current battery charge level.
- **Motion Dashboard**—Opens the Motion Dashboard.
- **Options**—Lists options you can set:
  - **Show Hard Drive Activity**—When selected, the Motion icon blinks when there is hard drive activity.
  - **Automatic Display Rotation**—When selected, the CL900 automatically changes the viewing orientation (landscape to portrait or vice versa) when the tablet is physically rotated.

Using touch

With the CL900, you can use either your finger, a pen or both to interact with the touchscreen display. While it's convenient to use your finger most of the time, a pen allows you more precise control for editing a document or drawing graphics among other things.

With touchscreen displays, you use your finger or pen as you would use a mouse. For example, tapping twice is the same as double-clicking a mouse. Tap and holding is the same as right-clicking a mouse to open context-sensitive menus.

Here are some common ways to perform tasks on a touchscreen:

- **Tap**—Select something
- **Press and hold**—Open a menu of options. This is equivalent to right-clicking a mouse to display the right-click menu.

  Note: Press and hold your finger until a circle appears then lift your finger to display the menu.
- **Double-tap**—Perform a double-click action
- **Tap and drag**—Drag and drop
- **Pinch fingers together**—Zoom in
- **Spread fingers apart**—Zoom out
- **Flick**—Scroll through a list or move quickly
- **Press and hold the pen's function button** (equivalent to a right-click on a mouse)—Open a context-sensitive menu

NOTE: If the tablet does not respond when you tap with your finger, try using more area of your fingertip. Unlike other types of touchscreens, the CL900 capacitive touchscreen does not respond to other input. For example, you can't tap it with another object such as a credit card or when wearing gloves.

How multiple-touch works fingers for gestures

The CL900 touchscreen display supports multi-touch which allows you to directly manipulate items on-screen, for example to navigate websites and view photos. For example, you can use your fingers to scroll through lists, zoom in and out, rotate, and so on.

A quick way to learn touch is to try out the EXOPC user interface that comes with the CL900.

From the taskbar, tap the EXOPC icon and choose any of the free applications available.

Changing to one-tap open for touch

With touch, you may want to change how you select and open items. By default, Windows folders are set up so that you tap once to select an item and double-tap to open it. For touchscreen displays, you can change the behavior to point to select an item and open an item with one tap instead of two.

To change folder options

1. From the Windows Control Panel, tap **Appearance and Personalization**, **Folder Options**, then tap **Specify single- or double-click to open**.
2. Under **Click items as follows**, tap **Single-click to open an item (point to select)**.

For more information, open Windows Help and search for "folder options."

Configuring touch input mode

You can determine how touch input is configured by setting the input mode. You can use:

- Your finger only; no pen input is detected.
- The pen only; no finger input is detected.
- Both your finger and a pen.
- Switch between touch and pen input, in which case you double-tap to switch to touch input. This is useful to avoid the tablet from responding to unintentional touch input.

To configure touch settings

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Touch Settings**.
4. From the **Digitizer Options** tab, under **Input Mode** tap the desired mode.

NOTE: When you tap **Pen & Tablet Touch Settings**, it opens a panel titled N-trig DuoSense Digitizer Settings. N-trig makes the CL900 digitizer pen and the digitizer software that detects your finger or pen input and converts it to digital input.

Using the touch tuning option

If you find that the touchscreen doesn't respond as you expect, or if the tablet starts to respond to unintentional touch input, you can fine-tune touch by resetting the touch system to its optimal state by selecting the touch tuning option from **Pen & Tablet**.

To use the touch tuning option

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Touch Settings**.
4. From the **Digitizer Options** tab, under **Touch Tuning** tap **Start** and wait for the program to complete.

NOTE: Do not touch the screen during the tuning process.

Adjusting touch settings

You can adjust how your finger movements are interpreted in many ways. For example, you can:

- Adjust how quickly the tablet responds when you double-tap your finger
- Adjust how quickly the tablet responds when you press and hold your finger
- Show the touch pointer when interacting with items on the screen
- Change the touch pointer location, which can be helpful if you are left-handed
- Enable or disable multi-touch gestures and inkings
- Change the location of menus to appear to the right of your hand, which is helpful if you are left-handed

To change touch settings

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Pen & Input Devices**.
4. Tap the **Touch** tab.
5. To enable Touch, tap **Use your finger as an input device**.
6. To enable multi-touch gestures, tap **Enable multi-touch gestures and inking**.
7. To adjust the Double-tap action, under **Touch action**, tap **Double-tap** then tap **Settings**. Move the slider to make your adjustments.
8. To adjust the Press and hold action, under **Touch action**, tap **Press and hold** then tap **Settings**. Move the slider to make your adjustments.
9. To display the touch pointer on the screen, tap **Show the touch pointer**.

10. To change what the touch pointer looks like or where it's positioned, tap **Advanced Options**.

To change the location of menus for left-handed users

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Tablet PC Settings**.
4. Tap the **Other** tab and tap **Left-Handed**.

Adjusting pen settings

If the pen doesn't respond as accurately as you would like, you can make adjustments. For example, you can:

- Use the button on the pen to perform the right-quick action or act as an eraser
- Adjust how quickly the tablet responds when you double-tap the pen
- Adjust how quickly the tablet responds when you press and hold the pen

To change pen settings

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Pen & Input Devices**.
4. Tap the **Pen Options** tab.
5. To adjust the speed and spacial tolerance of the Double-tap action, under **Pen action**, tap **Double-tap** then tap **Settings**. Move the slider to make your adjustments.
6. To adjust the speed and duration of the Press and hold action, under **Pen action**, tap **Press and hold** then tap **Settings**. Move the slider to make your adjustments.
7. To enable the function button on the pen, tap **Use the pen button as a right-click equivalent**.

NOTE: **Pen & Input Devices** contains the **Use the top of the pen to erase ink** option, which does not apply to the CL900 digitizer pen. Instead, you can set the pen's function button to act as an eraser.

To use the pen function button as an eraser

1. Tap **Pen & Tablet**.
2. Tap **Touch Settings**.
3. Tap the **Pen** tab.
4. Under **Pen button**, tap **Eraser**.

Adjusting tablet PC settings

From **Tablet PC Settings**, you can change from right-handed to left-handed use.

To change hand orientation

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Tablet PC Settings**.
4. Tap the **Other** tab and make your desired change.

The **Tablet PC Settings Display** tab has a **Calibrate** option. This does not apply to the CL900. Instead, if touch input does not behave as expected, you can tune touch as described in "Using the touch tuning option" on page 21.

The **Configure your pen and touch displays** option on the **Tablet PC Settings Display** tab is useful for assigning touch to the appropriate display when one or more displays are connected to the tablet. By default, Windows 7 assumes that an external display is for touch input. To change this, run **Setup** from **Tablet PC Settings** to assign touch to your tablet display. If you have multiple external monitors, run **Setup** to assign touch to the correct display.

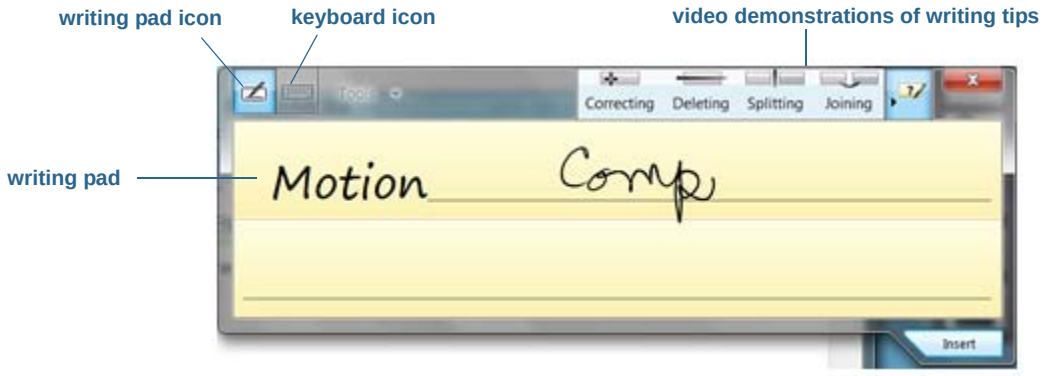
NOTE: A keyboard must be connected to the tablet to perform this procedure.

To assign touch to the desired display

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Tablet PC Settings**.
4. Tap the **Display** tab.
5. Tap **Setup** next to "Configure your pen and touch displays."
6. Tap **Touch Input.**
7. Press the **Enter** key until you see the instructions appear on the display that you want to use for touch input.
8. Follow the on-screen instructions.
9. Press **Esc** to end the process.

Entering text and handwriting recognition

You can enter text by either tapping characters on an on-screen keyboard or writing on a virtual note pad. When you write on the writing pad, your handwriting converts to digital ink. "Digital inking" refers to the process of converting your handwriting to text. In the following picture of the writing pad, someone started writing Motion Computing and "Motion" has already been converted into digital ink.



Input panel open to the writing pad

TIP: Tap the icons at the top of the input panel to view videos on making editing gestures. To hide the video tips, tap the icon on the right.

By tapping the keyboard icon at the top of the pad, the input panel opens to the on-screen keyboard.

Here's the input panel open to the on-screen keyboard. Tap the **Tools** menu for more input panel options and for viewing **Help Topics**.

Input panel open to the on-screen keyboard

TIP: Resize the keyboard panel by dragging the handle at the bottom right of the keyboard.

TIP: Use the Ctrl, Alt, Fn, Del and Bksp keys as you do on a normal keyboard.

Opening and closing the input panel

The tablet PC input panel often opens automatically when you tap in a text field. You can also tap the tab located on the left side of the screen to expand the input panel.

To open the input panel either

- Tap at the place you want to enter text, such as in a text box. Then tap the input panel icon .
- Tap the input panel tab on the left edge of the screen .

To close the input panel

- Tap the close button at the top-right. The input panel slides back to the edge of the screen.

Docking or floating the input panel

By default, the input panel is floating and you can move it anywhere on the screen by placing your finger or pen on the title bar and dragging it.

If you prefer, you can dock the input panel so that, when it is open, it always appears at the same location, either at the top or bottom of the screen.

To dock or undock the input panel

- At the top of the input panel, tap **Tools**.
- Select **Docking**.
- Select either **Dock at the top of the screen**, **Dock at the bottom of the screen** or **Float**.

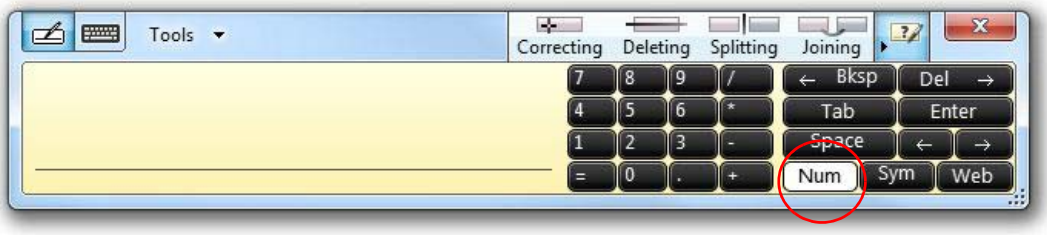
TIP: If you're left-handed, you might want to move the input panel to the right edge of the screen to make it easier to use.

Entering numbers with numbers pad

If you find yourself typing a lot of numbers, use the numbers pad.

To open the numbers pad

- Tap the Num key at the bottom of the writing pad.



Numbers pad

Entering special keys with the extended keyboard

You can enter special keys using the on-screen expanded keyboard. Special keys include:

- Home, End, Insert keys
- Page up, Page down keys
- Print screen key
- Pause key
- Scroll lock key

To open the expanded keyboard

- Tap the **Tools** key at the top of the input panel and choose **Show Expanded Keyboard**.

Expanded keyboard

Using the handwriting recognition program

The more you write, the quicker your handwriting is recognized because the tablet has an automatic learning tool that collects data about the words you use and how you write them. This data is stored under your user profile.

As a option, you can use the handwriting recognition application to train the tablet to recognize your handwriting style. You supply handwriting samples when prompted.

To start the handwriting recognition program

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.
3. Tap **Pen & Input Devices**.
4. Tap **Handwriting** and follow the on-screen instructions.

TIP: If you inherit your CL900 from another user, you can reset automatic learning.

To reset handwriting automatic learning

1. Open Motion Dashboard.
2. Tap **Pen & Tablet**.

3. Tap **Pen & Input Devices**.
4. Tap **Handwriting.**
5. Tap **Don't use automatic learning**. The current handwriting profile is deleted.
6. Tap **Use automatic learning** to begin collecting handwriting data again.

NOTE: You can find other handwriting applications at the Motion Computing Store.

Using Motion QuickNav

Motion QuickNav is a user interface application designed specifically for touch. You can use Motion QuickNav to:

- Take photos and insert them directly into your documents or email. For details on using the photo camera, see "Taking photos with Motion QuickNav" on page 31.
- Hold video chats with the web camera. For details, see "Using the web camera" on page 31.
- Record video clips. For details, see "Using the Motion QuickNav tools" on page 29.
- If you have the GPS module, you can acquire GPS locations and insert them in your documents, excel sheets or tag photos (called geotagging). You can also get driving instructions and other online services such as getting local fuel prices.
- Record or play back voice notes. For details, see "Using the Motion QuickNav tools" on page 29.
- Read barcodes using the camera. For details, see "Using the Motion QuickNav tools" on page 29.

In addition, Motion QuickNav includes an on-screen keyboard and a numeric pad. You may prefer to use them rather than the tablet PC input panel (as described in "Entering text and handwriting recognition" on page 24.)

NOTE: To use GPS with Motion QuickNav, your CL900 must have the mobile broadband module installed and set up and GPS must be running. For more information on GPS, see "Mobile broadband with GPS" on page 2.

Starting Motion QuickNav

To start Motion QuickNav

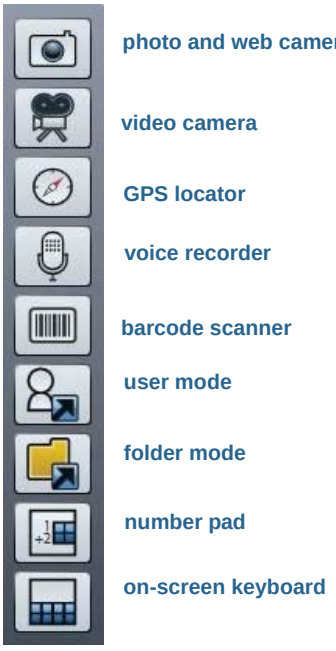
1. Tap the Motion QuickNav icon from the taskbar.

The Motion QuickNav keyboard appears at the bottom of your desktop.

Motion QuickNav keyboard

NOTE: As Motion QuickNav starts up, the screen displays "Motion QuickNav powered by Dial Keys." Dial Keys is the vendor that created Motion QuickNav for Motion Computing.

2. Tap the Motion QuickNav tool bar icon located on the bottom left of the keyboard to open the Motion QuickNav tool bar.



Motion QuickNav tool bar

Hiding and showing the Motion QuickNav tool bar

While Motion QuickNav is running, the Motion QuickNav tool bar appears on the right side of the desktop. You can hide the tool bar from view and show it only when you want to use it.

To hide and show the Motion QuickNav tool bar

- From the notification area, tap the Motion QuickNav icon .
- To show the tool bar, tap the Motion QuickNav icon again.

Stopping Motion QuickNav

When you are finished using Motion QuickNav, stop the application from the notification area.

To stop Motion QuickNav

1. From the notification area, tap and hold the Motion QuickNav icon .
2. Tap **Exit**.

Accessing Motion QuickNav help

For more details on using Motion QuickNav, view Motion QuickNav help.

To view Motion QuickNav help

1. From the notification area, tap and hold the Motion QuickNav icon .
2. Tap **Help**.

Setting Motion QuickNav options

You can change some Motion QuickNav settings from the navigation area. Tap and hold the Motion QuickNav icon to open the Options menu. For information on these options, see Motion QuickNav help.

Using the Motion QuickNav tools

This section provides a brief introduction to the tools available with Motion QuickNav. The next section describe how to use Motion QuickNav to operate the photo camera and web camera in greater detail.

To use the barcode scanner from Motion QuickNav

1. Open the Motion QuickNav tool bar then tap the barcode icon to open the barcode scanner.

2. Tap the Options icon to set up the scanner. You can choose to
   - Set the type of barcode the scanner recognizes. For best performance, disable the codes you do not need.
   - Use the front- or rear-facing camera to scan the codes.
   - Change the resolution. Use a higher the resolution to improve accuracy; use a lower resolution to improve performance.

To use the Motion QuickNav voice recorder

1. Open the Motion QuickNav tool bar then tap the voice recorder icon .
2. You can choose to
   - Send a voice message by email
   - Create a voice journal and add voice messages to it
   - Add a voice note to an active application
3. Tap the Options icon to set up which device to use for recording or playback or to change the location of your voice journal.

   Note: For another way to use speech, see "Using speech recognition" on page 43.

To use the Motion QuickNav video recorder

1. Open the Motion QuickNav tool bar then tap the video recorder icon .
2. Tap the appropriate icons to start, pause, save or cancel a recording.
3. Tap the Options icon to set the video quality, which device to use for recording or playback or to change the folder where your videos are stored.

Using the cameras with Motion QuickNav

Your CL900 comes equipped with two built-in cameras:

- Front-facing web camera—a 1.3 MP camera that supports streaming video.
- Rear-facing documentation camera—a 3.0 MP JPEG format camera with a maximum resolution of 2048x1536 pixels, which supports taking photos and capturing video.

The cameras can work with any application that uses a camera, such as Skype, Instant Messenger, Windows Live or Windows Movie Maker.

The Motion QuickNav application that comes free with the CL900 is one way you can use the cameras.

Using the web camera

You can use the web camera with a variety of applications and some applications can make use of both cameras. For example, Skype can detect the front and rear cameras and allow you to switch between them during a video conference.

Motion QuickNav is the web camera application that comes free with the CL900.

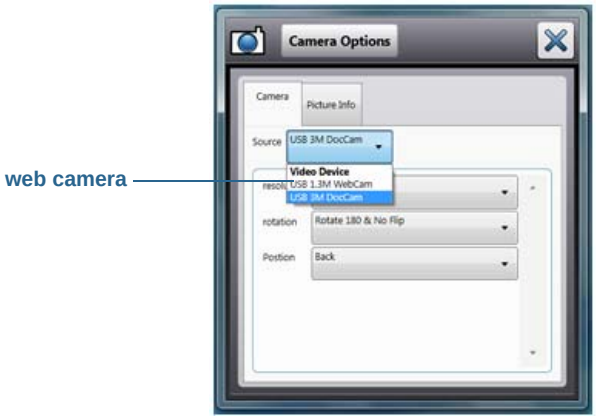
To start the web camera with Motion QuickNav

1. Open the Motion QuickNav tool bar then tap the camera icon to open the viewfinder.

   If you are not in view, you need to change Motion QuickNav to use the web camera.

2. To set Motion QuickNav to use the web camera, tap the Options icon at the top of the viewfinder.

3. From the Camera Options menu, Camera tab, Source, select USB 1.3 web camera:



Taking photos with Motion QuickNav

The Motion QuickNav camera tool is designed to use the rear documentation camera to take photos that you can:

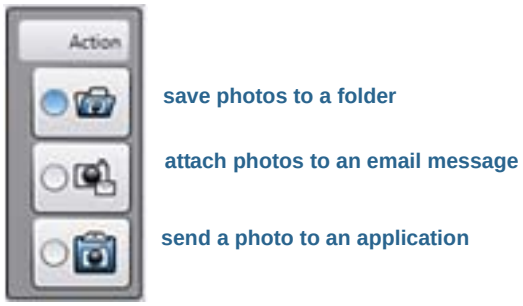
- Insert directly into an open application such as Microsoft Word
- Send through email
- Adjust and annotate on the spot
- Add geographical information (geotags) to the photo's metadata or the photo itself
- Add time stamp information to the photo's metadata or the photo itself

When you select the camera tool from the Motion QuickNav tool bar, the viewfinder appears.

Motion QuickNav photo viewfinder

Saving, emailing, or adding photos to an application

The Action menu on the top right allows you to choose how Motion QuickNav handles your photos as you take them. You can store them on disk, email them, or send them to the clipboard where they are loaded into an active program on your desktop.



Action menu to select photo destination

By default, Motion QuickNav saves photos to a folder.

Stamping photos with geographical locations and time

You can add geographical information (geotags) or time stamps to your photos' metadata and to the photo itself.

You choose whether to add the stamps when you open the viewfinder to take photos. The Stamp options are located on the bottom right of the viewfinder.

Stamp options

By default, a photo's metadata includes the filename, file location, dimensions, exposure, ISO speed rating and more. You enable Motion QuickNav to record geotags and time stamps from the Camera Options menu.

To enable geotags and time stamps

1. Open the Motion QuickNav tool bar then tap the camera icon to open the viewfinder.
2. Tap the Options icon located at the top of the viewfinder then tap the **Picture Info.**
3. Under Geotagging, select **Enable GeoTagging**. If the GPS Com port displays a message, "GPS device not yet detected," press **Detect** to associate Motion QuickNav with the GPS module.
4. Under Stamp, select the font size of the time stamp when displayed on a photo and the time Stamp Format, tap either **UTC** or **Local Time**. UTC format displays the official universal time independent of time zones and daylight savings.

Taking photos and saving them in a folder

To take photos using Motion QuickNav and save them in a folder

1. Open the Motion QuickNav tool bar then tap the camera icon to open the viewfinder.

   If you see yourself in the viewfinder, Motion QuickNav is set to use the web camera. Switch to the rear documentation camera as described in "Switching cameras" on page 37.

2. Make sure the folder icon is selected under the Actions menu.

3. Tap the geotag icon to add geographical information or the time stamp icon to add date and time information to the photo's metadata information. If you want the information to appear on the photo itself, tap the stamp icon . For details, see "Stamping photos with geographical locations and time" on page 33.

4. Frame the subject of your photo in the viewfinder and tap the shutter icon to take the photo.

5. As you continue to take photos, they appear in the temporary folder located on the left of the viewfinder.

6. Select a photo from the left to annotate it or make any other edits. For more information, see "Editing photos" on page 36.

7. By default, the photos are saved automatically in a folder called New Pictures under the Documents\Camera folder. To go to or change the folder location, see "Locating Motion QuickNav output" on page 39.

8. When you're done, tap the close icon to close the viewfinder.

Taking photos and attaching them to an email message

To email photos, you select the email icon from the Action menu, take one or more photos then, when you close the viewfinder, a new email message appears with the photos attached.

To attach photos to an email message

1. Open the Motion QuickNav tool bar then tap the camera icon to open the viewfinder.

   If you see yourself in the viewfinder, Motion QuickNav is set to use the web camera. Switch to the documentation camera as described in "Switching cameras" on page 37.

2. Select the email icon from the Action menu.

3. Tap the geotag icon to add geographical information or the time stamp icon to add date and time information to the photo's metadata information. If you want the information to appear on the photo itself, tap the stamp icon . For details, see "Stamping photos with geographical locations and time" on page 33.

4. Frame the subject of your photo in the viewfinder and tap the shutter icon to take the photo.

5. Continue to take photos and they will appear on the left of the viewfinder.

6. To add notes or make any other edits to a photo, tap the photo on the left. For more information, see "Editing photos" on page 36.

7. When you're done, tap the close icon to close the viewfinder. A new email message appears with the photos attached.

Taking photos and inserting them in an application

You can insert a photo directly into an application by choosing the clipboard icon from the Action menu. Take a photo, close the viewfinder, then the photo appears where your cursor is located in the application.

To insert a photo into an active application

1. From the application, place the cursor where you want the photo to appear.

2. Open the Motion QuickNav tool bar then tap the camera icon to open the viewfinder.

3. Select the clipboard icon from the Action menu.

4. Tap the geotag icon to add geographical information or the time stamp icon to add date and time information to the photo's metadata information. If you want the information to appear on the photo itself, tap the stamp icon . For details, see "Stamping photos with geographical locations and time" on page 33.

5. Frame the subject of your photo in the viewfinder and tap the shutter icon to take the photo. The photo appears in the edit window.

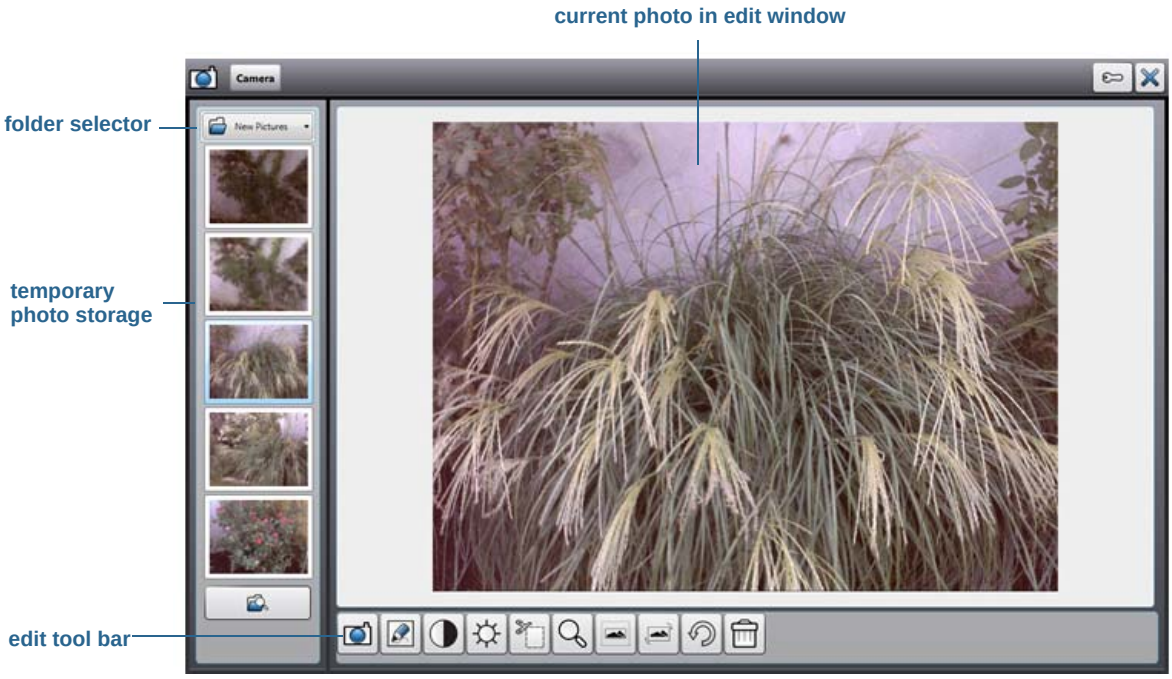
6. You can add notes or make any other edits to the photo from here. For more information, see "Editing photos" on page 36.

7. Tap the close icon located at the top right of the viewfinder.

8. The photo appears in your application.

Editing photos

You can open a photo in the Motion QuickNav edit window to change it, for example, you can add notes, adjust brightness, rotate, crop or delete it. Edit tools are available from the edit tool located at the bottom of the edit window.



Motion QuickNav calls this “review mode” because photos are available for editing as long as you have the Motion QuickNav viewfinder open. Once you close the viewfinder, Motion QuickNav sends the photo to the chosen output: clipboard, email, or folder. If you’ve saved your photos in a folder, you can make further changes using your favorite photo editing software.

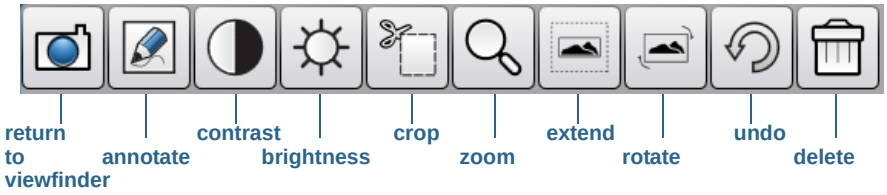
To edit a photo

1. Display the photo in the edit window.

   The edit window appears automatically if you are sending the photo to the clipboard.

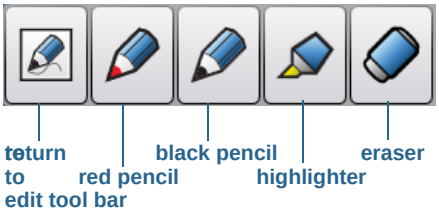
   If you are sending the photo to a folder or to email, the photos appear in a temporary folder on the left; as you continue to take photos, the folder fills up. Select a photo on the left and it appears in the edit window.

2. Tap an icon from the edit tool bar at the bottom of the edit window to make changes:



Motion QuickNav edit tool bar

3. Tap the pencil icon to enter annotate mode.



4. Tap the desired pen color or highlighter. Use the eraser if necessary. Then tap the pencil icon again to return to the edit tool bar.
5. Make any other adjustments by selecting the appropriate icon. For example, you can crop, zoom, rotate, or adjust brightness or contrast. You can add white space to the top, bottom, right or left side of the photo by selecting the extend icon . Tap the undo icon to remove your edits.
6. When finished editing the photo, tap the camera icon to return the viewfinder. Your edits are saved automatically.
7. Either select another photo to edit or return to camera mode.

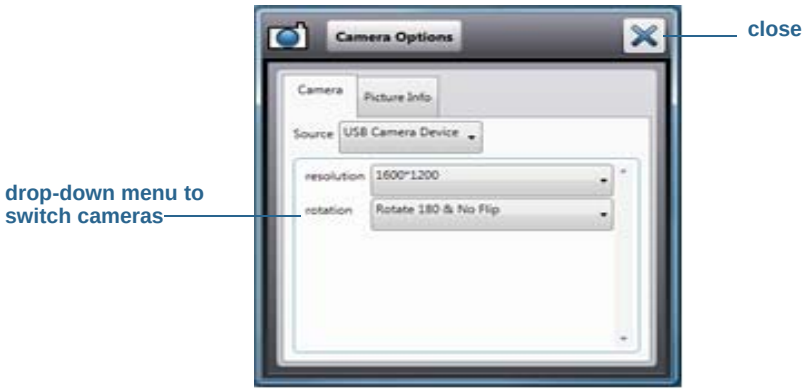
Switching cameras

When using Motion QuickNav as your camera application, you switch between using the web camera and documentation camera from the Motion QuickNav Camera Options menu.

To switch between the web camera and documentation camera

1. Open the Motion QuickNav tool bar then tap the camera icon to open the viewfinder. If you are in view, the web camera is active.
2. Tap Options icon located at the top of the viewfinder.

3. From the Camera Options menu, tap **Camera** tab, then under **Source**, select the desired camera:
   - **USB 1.3M WebCam** for the web camera
   - **USB 3.M DocCam** for the rear documentation camera

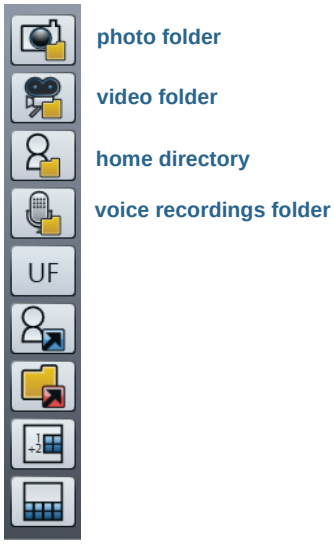


Note: You can change the photo resolution to either improve the picture quality (by choosing a higher resolution, such as 1600x1200) or to reduce the file size (by choosing a lower resolution such as 160x120). You can also rotate the camera from this menu.

4. Tap the close icon to close the Options menu.

Locating Motion QuickNav output

When you take photos, videos, or sound recordings with Motion QuickNav, QuickNav places them in default folders and you can access these folders directly from the Motion QuickNav tool bar by tapping the folder icon to switch to folder mode. A folder icon appears in front of each tool indicating that QuickNav is in folder mode as show below:



Motion QuickNav folder mode

To locate the folders where Motion QuickNav stores content

1. Open the Motion QuickNav tool bar then tap the folder icon to switch to folder mode.
2. Tap the folder icon for the tool whose output you want to change.
3. To leave folder mode, from the QuickNav tool bar, tap the folder icon again.

To change the folder where your Motion QuickNav output is stored

1. Open the Motion QuickNav tool bar then tap the icon for the QuickNav tool for the folder you want to change then tap the Options icon located at the top of the window.
   - To change the folder where photos are stored, tap the camera icon from the QuickNav tool bar. Tap the Options icon then tap the **Picture Info** tab. Under **Storage**, browse to the folder where you want to store photos.
   - To change the folder where videos are stored, from the Motion QuickNav tool bar tap the Video recorder icon then tap the Options icon. Under **Folder**, browse to where you want to store voice recordings.
   - To change the folder where voice recordings are stored, you browse to the folder directly from the video recorder window. (You don't need to open the Options menu.)
2. For photos and videos, tap the close icon to close the Options menu.

Setting display options

Use the procedures in this section to customize your display settings. You can adjust the brightness level, rotate the display and change the order in which the display rotates.

Adjusting the display brightness

You can change the brightness of the display which is useful for conserving battery power.

To adjust the display brightness

1. Open Motion Dashboard.
2. Tap **Display**.
3. Move the Brightness slider to the desired level.

TIP: For optimal battery conservation and viewability, set the brightness scale to the mid-point or slightly above.

4. Select one of the following:
   - **Fixed**—Sets the display brightness to a constant level. Move the slider to adjust the display to the desired brightness level. When set to Fixed, the ambient light sensor is ignored.
   - **Dynamic**—Uses the ambient light sensor to maintain an appropriate brightness level for the current lighting condition. The Dynamic setting helps to conserve battery power.

Rotating the display orientation

You can easily change the screen orientation to fit your current task. For example, you may want to use the portrait orientation for filling out forms or reading an e-book. At other times, you may want a landscape orientation for web browsing or sketching.

To rotate the display

1. Open Motion Dashboard.
2. Tap **Display**.
3. Tap the **Rotate Screen** button.

Enabling or disabling automatic rotation

You can set the display to automatically rotate when you physically rotate the tablet. By default, automatic rotation is disabled.

To enable or disable rotating the display automatically

1. From Windows notification area, tap **Options**.
2. Select or clear the **Automatic Display Rotation** check mark.

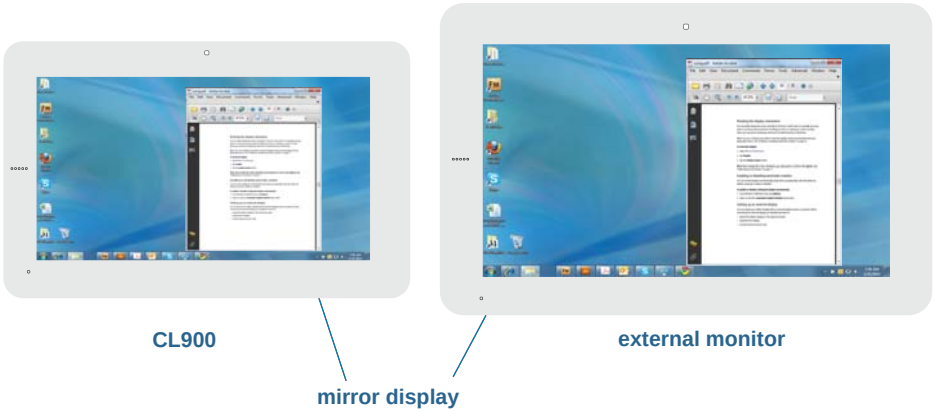
Setting up an external display

You can use your tablet with an external monitor or projector. When connecting to an external display, specify whether to:

- Duplicate (mirror) the displays
- Extend the tablet's display to span across the external monitor
- Use the external monitor only or use the tablet only

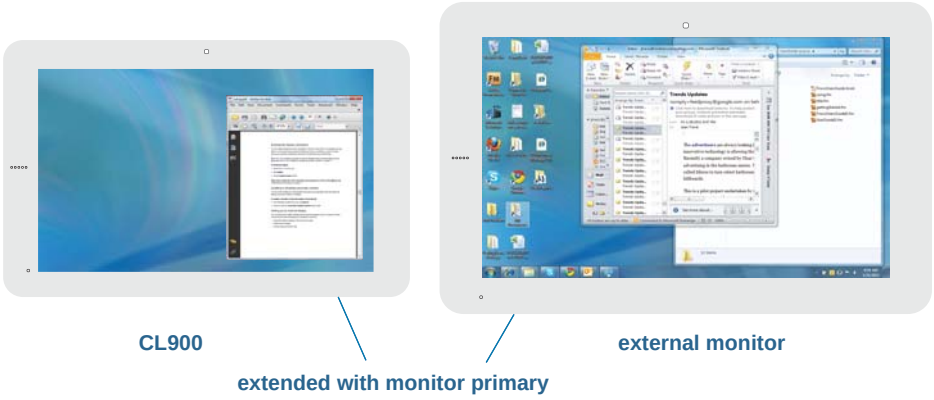
Mirror display

The "mirror display" theme duplicates the tablet display on both the display and monitor. This is useful with a projector.



Extended with monitor primary

The "extended with monitor primary" display theme expands the desktop area across the tablet and external monitor, where the external monitor as the primary monitor. You can set the external monitor to use a different display resolution than the tablet PC.



Extended with tablet primary

The “extended with tablet primary” display theme expands the desktop area across the tablet and external monitor, with the tablet is primary display. You can set the external monitor to use a different display resolution than the tablet.

Monitor only

The “monitor only” display theme uses the external monitor only.

Tablet only

The “tablet only” display theme uses the tablet display only.

To connect an external monitor to the CL900, you can use the Micro-HDMI port (located on the left side of the tablet) with an appropriate connector, such as a DVI-HDMI adapter.

To set up an external monitor

1. Connect the monitor cable from the external monitor into the Micro-HDMI port on the CL900.
2. Plug in the external monitor and turn it on.
3. If necessary, install software and drivers for the monitor. See the manufacturer’s documentation for more information.
4. Open Motion Dashboard.
5. Tap **Display**.
6. Select a **Display Scheme**.

Resetting touch after adding other monitors

After setting up an external monitor, touch might be disabled on your tablet because Windows 7 assumes that the external display is for touch input. You can enable touch on the correct display from the Motion Dashboard by following the procedure below. You’ll need a keyboard.

To enable touch when your tablet is connected to an external display

1. If it isn’t already, attach a keyboard to the tablet.
2. Open Motion Dashboard.
3. Tap **Pen & Tablet**.
4. Tap **Tablet PC Settings**.
5. Select the **Display** tab.
6. Tap **Setup** next to “Configure your pen and touch displays.”
7. Tap **Touch Input.**
8. Press the **Enter** key until you see the instructions appear on the display that you want to use for touch input.

9. Follow the on-screen instructions.

10. Press **Esc** to end the process.

Resetting the display after returning the tablet to the docking station

If you set up your tablet in a docking station with the display theme expanded across both, and you remove the tablet temporarily from the docking station, the display theme may need to be reset when you return the tablet to the docking station.

If it doesn't seem to work, change the **Display Scheme** to **Tablet Only** and then change it to the desired scheme.

Using speech recognition

You can use speech recognition to interact with your tablet by voice. You can dictate documents and emails or use voice commands to control programs.

- **Dictation mode**—With Dictation mode, your tablet listens to everything you say and converts your words to text. You can use dictation mode to enter text directly into any document or text box.
- **Voice command mode**—With Voice command mode, your tablet listens for specific words that correspond to a list of available voice commands. You can use commands to switch between programs, save documents, copy, paste or undo.

Setting up speech recognition

Before you can use speech recognition, you must configure the microphones and train the system for the characteristics of your voice. Then, you can take the available speech tutorial to learn basic voice commands.

Set up the microphones

For best results, move to a quiet environment.

To set up the microphones

1. In Control Panel, tap the **Ease of Access** category, then tap **Speech Recognition**.
2. Tap **Set up microphone**.
3. If you are using the tablet's microphone array, select **Other**.
4. Follow the instructions in the setup program.
5. If the microphones are set to an appropriate level, the meter will stay in the green zone while you read the sentences. If the level is too low or too high, use Motion Dashboard to adjust the level (page 16).

Train your tablet to recognize your speech

Use this procedure to improve your tablet's ability to understand your voice.

To train your tablet to recognize your speech

1. In Control Panel, tap the **Ease of Access** category, then tap **Speech Recognition**.
2. Tap **Train your tablet to better understand you**.
3. Follow the instructions in the setup program.

Taking the speech tutorial

You can use the speech tutorial to learn basic commands and dictation. The tutorial takes about 30 minutes to complete.

To take the speech tutorial

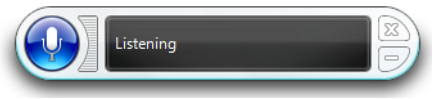
1. In Control Panel, tap the **Ease of Access** category, then tap **Speech Recognition**.
2. Tap **Take Speech Tutorial**.
3. Follow the instructions in the tutorial program.

Using dictation and voice commands

After you have set up speech recognition, you can open it from Control Panel.

To use Dictation and Voice Commands

1. In Control Panel, tap the **Ease of Access** category.
2. Under **Speech Recognition**, tap **Start Speech Recognition**.
3. Ensure that the Speech Recognition window is open and listening.

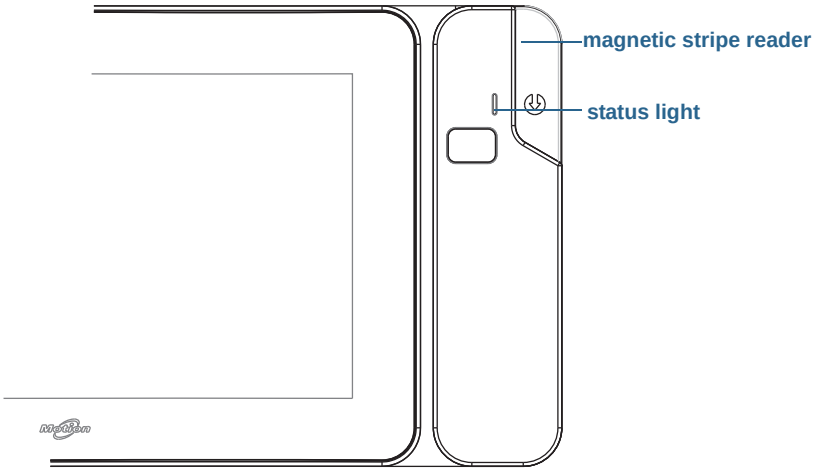


4. Do one of the following:
   - For voice commands, say the appropriate command. For a list of commands, search Windows Help and Support for "speech commands."
   - For dictation, open the program you want to use and start speaking.

   For more information about speech recognition, search Windows Help and Support for "speech recognition."

Using the magnetic stripe reader (optional)

If you have a CL900 with MSR and BCS, it comes with a magnetic stripe reader that you can use to read any card that has a magnetic stripe on the back, such as a credit or debit card.



magnetic stripe reader

The magnetic stripe reader is on the right side of the CL900 SlateMate and a status light appears at the top. The status lights indicate:

	Ready
	Good swipe
	Error
	Starting...

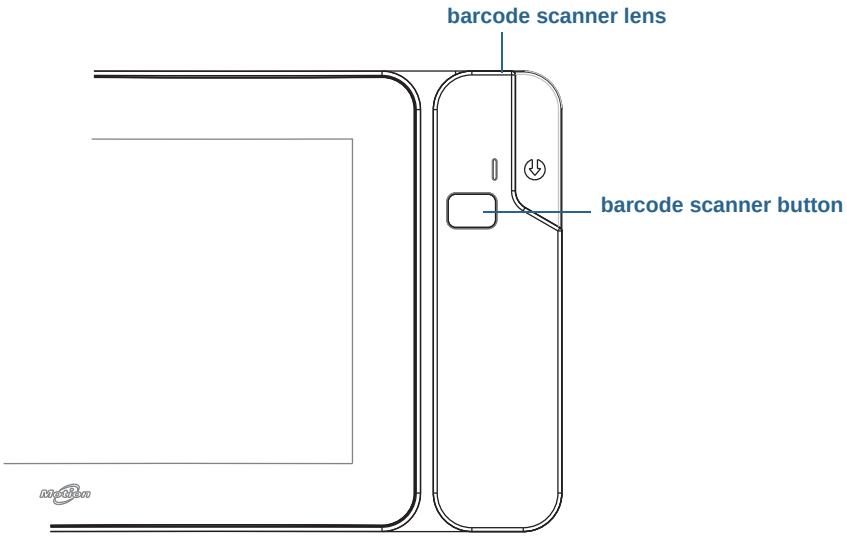
Status indicators for magnetic stripe reader

To use the magnetic stripe reader

1. Hold the CL900 steady with the top directed away from you.
2. With the magnetic stripe facing downwards, swipe the card from top to bottom. The green light flashes when the swipe is successful.

Using the barcode scanner (optional)

If you have a CL900 with MSR and BCS, it comes with a barcode scanner that you can use to scan barcodes. Many applications use barcodes for asset tracking, identification and process controls.



barcode scanner

To use the barcode scanner

1. Open your barcode application and place the cursor in the appropriate field.
2. Hold the tablet steady with the barcode scanner lens in front of you.
3. Aim the barcode scanner lens at the barcode.
4. Press and release the barcode scanner button located on the top of the CL900. Ensure that the scan beam covers the entire barcode.

   If the scan was successful, you'll hear a beep and the data appears in the application.

Barcode scanner tips

- You will typically get the best scans if the lens is six to seven inches from the barcode.
- If you are having trouble scanning a barcode, use two hands to steady the tablet while you scan.

Supported barcode types

The CL900 with barcode scanner supports several different types of barcodes—a minimum set of barcodes is enabled at the factory. The following barcode types are supported by default:

- Code 39
- Code 128/GS1-128
- EAN/UPC - UPC-A
- EAN/UPC - UPC-E
- Interleaved 2 of 5
- Micro PDF417
- QR Code

Other barcode types can be enabled by using the EasySet application, which is available through Motion Computing Support.

Using the battery

The CL900 has an internal battery which is charged automatically when the tablet is connected to an outlet. Under normal conditions, you can run the tablet on battery power for up to eight hours.

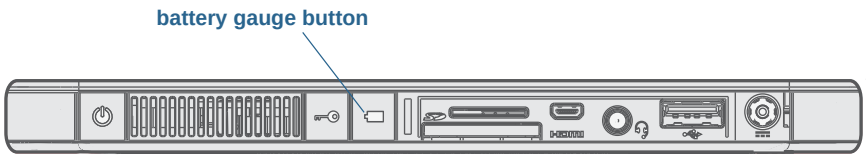
NOTE: The CL900 is equipped with a built-in lithium-ion battery which has a long battery life. If you ever need to replace the battery, contact your Motion Computing authorized service provider. Only authorized service providers can replace the battery.

Checking tablet battery power

You can check the remaining battery power several ways:

- When the tablet is plugged in to an outlet, the battery gauge button shows whether the battery is fully charged (green) or charging (amber).
- When the tablet is running on battery, pressing the battery gauge button on the left side displays status lights on the front of the CL900 indicating the current level of charge.
- From the Motion Dashboard.
- From the Windows notification area.

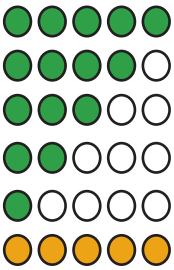
The battery gauge button is located the left side of the CL900 Tablet PC as shown:



To check the remaining battery power while running on the battery

1. Press the battery gauge button on the left side of the tablet. Battery gauge lights illuminate on the front of the tablet when the tablet is running on battery.

2. Count the number of battery gauge lights. Each light represents about 20 percent increments of a full charge as shown:



100% - 80% Battery is fully charged.

80% - 61% Battery has about 80 percent charge remaining.

60% - 41% Battery has about 60 percent charge remaining.

40% - 21 % Battery has about 40 percent charge remaining.

< 20% Battery has about 20 percent charge remaining.

! Battery is low and requires an immediate charge.

To check the battery power while running on AC power

1. Locate the battery gauge button on the left side of the tablet. The light illuminates when the tablet is connected to a power source.
2. Check the color of the battery gauge button for the current status:

Steady green—Battery is fully charged and the tablet is running on AC power.

Steady amber—Battery is charging.

Off—Not charging. The tablet is running on battery power.

Flashing amber (slow)—Less than 10 percent battery charge remaining.

Flashing amber (fast)—There is an error. Call Motion Computing Support.

To check the remaining battery power from the Motion Dashboard

1. Open Motion Dashboard.
2. Tap **Power** which displays the percentage of remaining battery charge.

To check the remaining battery power from the notification area

- Tap the power indicator, which appears differently depending on whether the tablet is plugged in.
  - If the tablet is plugged in, tap the plug icon .
  - If the tablet is on battery power, tap the battery icon .

Battery and power management tips

- To lengthen the battery's usable life, use AC power when you can. The battery charges automatically when the tablet runs on AC power.
- For optimal battery life, use AC power when using a USB device such as a DVD player or external hard disk drive.
- When running on battery power, place the system in hibernate or sleep mode if you are going to leave it unattended for more than a few minutes. For more information on hibernate and sleep mode, see "Changing how the power button functions" on page 50.
- Remember that the display, processor, wireless cards and accessories all draw on the battery, so adjust properties and disable unused accessories while running on battery power.
- Condition your battery once a month. To condition it, run the tablet on battery power until the battery's charge level drops below 20 percent.
- When running on battery power, adjust the display to a dimmer setting and enable Dynamic. Open Motion Dashboard, tap the **Display** tab and tap **Dynamic**.
- Turn off wireless devices when they are not being used. Open Motion Dashboard, tap the **Wireless** tab, and clear the check box next to the wireless device you want to disable.

Changing the power plan

By default, the CL900 uses the Motion Optimized power plan which is designed specifically for Motion Computing tablets. It balances the need to save power while maximizing system performance. When the tablet senses no current activity, it goes into Power Saver mode automatically.

If necessary, you can change the Motion Optimized power plan from the Motion Dashboard.

To change the power plan

1. Open Motion Dashboard.
2. Tap **Power**.
3. Tap **Power Options**.
4. Select a power plan from the list of available plans.

NOTE: Setting the power plan to Power Saver reduces the tablet's performance.

Changing how the power button functions

When you press and release the power button it can go into one of the following modes:

- **Sleep**—The tablet pauses all activity immediately and quickly resumes when awakened. This saves power when you are away from your tablet for a short time. However, you will lose unsaved data if there's a power failure.
- **Hibernate**—The tablet saves the contents of memory to the solid state drive and shuts down. Pressing the power button restores the desktop exactly as you left it. Hibernate consumes about as much power as a night light and takes less time to restart than the Shut down option.
- **Shut down**—Tablet shuts down. Pressing the power button reboots the tablet.

By default, the tablet goes to sleep when you press and release the power button . To wake up your tablet, simply press and release the power button again. You can put the tablet in hibernate mode or shut it down completely from the Start menu.

You can change how the power button behaves to:

- Hibernate or shut down or the tablet when the power button is pressed
- Behave differently, depending on whether the tablet is running on battery or plugged in

To change what happens when the power button is pressed

1. Open Motion Dashboard.
2. Tap **Power**.
3. Under **Power Switch on battery**, select what you want to happen when the power switch is pressed while the tablet is running on battery.
4. Under **Power Switch plugged in**, select what you want to happen when the power switch is pressed while the tablet is plugged into an outlet.

Setting up user accounts

If you share the tablet with other users, you can set up a user account for each user. User accounts control which files and programs users can access and what types of changes users can make to the computer. A user account allows each person to have their own settings.

If you have an administrator account, you can add new user accounts from the Microsoft Management Console. For detailed instructions on setting up new users, open Windows Help and search for "Create a user account."

Locating your serial number

You can locate the serial number for your CL900 from the:

- Label inside the SD card slot of the tablet
- Windows Start menu
- BIOS Setup Utility

To locate your serial number from the Start menu

1. From the Start menu, tap **Computer**, then tap and hold anywhere in the window to open the options menu. Select **Properties**.
2. Under the **System** section of the page, view **Model**.
   The serial number begins with "**S/N=**."

NOTE: You can also locate the number from the BIOS Setup Utility.

Backing up your system

To protect against loss or accidental deletion, schedule back ups to occur automatically on a regular basis. Windows 7 has a back up tool that you can use to set up what you want to backup and schedule backups on a regular basis.

To schedule back ups

1. From the Control Panel, tap **System and Security** category then tap **Back up your computer**.
2. Tap **Set up back up**.

   Follow the on-screen instructions.

You can restore files from a back up. For more information, open Windows Help and search for "Restore files from a backup."

Restoring your system

Windows 7 has specialized tools for restoring your system in case of system failure. This section covers:

- Creating a system image to use to restore your computer if necessary
- Restoring the computer from a system image using Windows control panel
- Restoring the tablet from BIOS if Windows 7 cannot run

NOTE: System images are designed for restoring your entire system at once when you have a serious problem with Windows 7. If you want to install particular files, folders or other data, use Windows Backup.

Creating a system image

You can use a system image to restore the contents of your tablet if it ever stops working. A system image is an exact copy of a drive and includes Windows 7, your system settings, programs, and files. The system image requires an external drive, such as a USB flash drive, on which to store the image.

NOTE: We recommend that you create a system image as soon as you set up your tablet and then periodically.

To create a system image

1. Locate a USB flash drive or other external drive on which to store your system image.
2. From the Windows Control Panel, tap **System and Security** category, then tap **Back up your computer**.
3. From the navigation bar on the left, tap **Create a system image**, then follow the on-screen instructions.

For complete instructions, open Windows Help and search for "Back up your programs, system settings, and files."

Restoring your system image from Windows Control Panel

Use the Recovery tool from the Control Panel to restore your system if you can still access Windows 7 or if you are restoring your system image onto a different computer.

To restore your system from Windows Control Panel

1. Locate the external drive that contains your system image.
2. From the Windows Control Panel, tap **System and Security** category, then tap **Backup your computer**.
3. Tap **Recover your system settings or your computer**, then **Advanced Recovery Methods**, then **Use a system image**...
4. Follow the on-screen instructions.

For more information, open Windows Help and search for "Back up your programs, system settings, and files."

Restoring your system image if you can't start Windows 7

If you need to restore your system and cannot access Windows 7, you can access the recovery tool from the BIOS screen.

NOTE: Before starting, locate the external drive that contains the system image you created previously (page 52).

To restore your system image from the BIOS screen

1. Locate the USB flash drive or other external drive where you stored your system image.
2. If it isn't already, attach a keyboard to the tablet.
3. Press the tablet's power button to start the tablet.
4. Press and hold the **F8** key to display the BIOS screen.

   You need to press the key *as soon as* the tablet starts up to access BIOS. If the Windows logo appears, you need to try again by waiting until the Windows logon prompt appears, and restarting your tablet from the Start menu.
5. On the **Advanced Boot Options** screen, select **Repair your computer** and press **Enter**.
6. Select a keyboard layout, then tap **Next**.
7. Select a user name and enter the password, then tap **OK**.
8. Attach the external drive that contains the system image.
9. On the **System Recovery Options** menu, tap **System Image Recovery**.

Follow the instructions to **Re-image your computer**.

Restoring your system without a system image

If you need to restore your Windows 7 system and you do not have a system image, you can restore Windows to its original factory image. This does not restore any of your files or any programs that you have installed.

To reinstall the original factory image

1. If it isn't already, attach a keyboard to the tablet.
2. Press the tablet's power button to start the tablet.
3. Press and hold the **F8** key to display the BIOS screen.

   You need to press the key *as soon as* the tablet starts up to access BIOS. If the Windows logo appears, you need to try again by waiting until the Windows logon prompt appears, and restarting your tablet from the Start menu.
4. On the **Advanced Boot Options** screen, select **Repair your computer** and press **Enter**.
5. Select a keyboard layout, then tap **Next**.
6. Select a user name and enter the password, then tap **OK**.

7. On the **System Recovery Options** menu, tap **Reinstall Windows**.
8. Tap **Yes** to reinstall Windows.
9. Check whether Windows was able to save any data from the tablet. Look in the folder called **Windows.old**.

NOTE: If the **Reinstall Windows** option is not available, the tablet does not contain a recovery partition. Use the recovery media that came with your computer to restore Windows.

Finding other software

For information about other software for your tablet, go to Motion Computing Accessories and the Motion Computing Store. You will find links to software solutions for purchase as well as free downloads from Motion Computing and its service partners.

Caring for your CL900 3

Proper care and maintenance will keep your CL900 Tablet PC working and in good condition for a long time. For general information about care of the tablet and its components and accessories, see the *Safety and Regulatory Guide* included with your tablet PC.

WARNING: Follow the guidelines listed below when caring for your tablet PC and its components. Improper use may damage the tablet PC and its components and void the warranty.

General care

- Protect the tablet PC from exposure to extreme temperatures, shock, liquids and strong magnetic fields.
- Do not place heavy objects on top of the tablet PC.

Caring for the display

Follow these suggestions to keep your display clean:

- Clean fingerprints and smudges from the display surface by wiping it with the display cloth provided.
- If needed, use a cleaning solution recommended by Motion Computing to clean the display. Spray the solution on a cloth then wipe the display. Never spray directly onto the display surface and never use an abrasive cleaner.

NOTE: Motion Computing maintains a list of tested cleaning solutions and chemical disinfectants on its website. You can also purchase protective display films from the Motion Computing Accessories page.

- If liquid is spilled on the display, wipe it up immediately with a soft cloth like the one provided with the tablet.
- Use only the CL900 pen to write on the display. Any other object could damage the display surface.
- Protect the display surface from unnecessary contact by using a case when transporting the tablet PC. Motion Computing sells a variety of cases for the CL900. You can purchase one at the Motion Computing Accessories page.
- Cover the display with a protective display film that you can purchase at the Motion Computing Accessories page.
- Avoid exposing the display to direct sunlight for long periods of time.

WARNING: Do not use any corrosive or abrasive cleaners to clean or disinfect the tablet. A list of tested cleaning solutions and chemical disinfectants is available on the Motion Computing website.

Caring for the pen

If you use a pen with your tablet:

- Store the pen in the pen storage drawer, tip down, or in a case when not in use.
- Avoid storing the pen vertically on its tip (when not in the storage drawer). It can damage the pen-to-digitizer function.
- Keep the pen away from any liquid because the pen contains electronic components that could be damaged when wet.
- In certain environments, particles or debris can stick to the pen tip or the tablet PC display. Make sure you wipe off the pen with a soft cloth to avoid scratching the display.
- Under normal conditions, the CL900 pen tip should not require replacement. However, extra pen tips are available if you want to replace one.

NOTE: To order pens or new pen tips, go to Motion Computing Accessories.

Caring for the tablet battery

To maximize the performance of the battery, condition the battery once a month. To condition it, run the tablet on battery power until the battery's charge level drops below 20 percent. Then use AC power until it is fully charged.

You will receive a message if the tablet detects that the battery needs conditioning.

For more information about batteries, see "Using the battery" on page 47.

Traveling with your CL900 Tablet PC

Use the following tips when you travel with your CL900 Tablet PC:

- Put the tablet PC in a case to protect the display. Motion Computing sells a variety of cases for the CL900. You can purchase one at the Motion Computing Accessories page.
- Store the pen in the pen storage drawer located on the right side of the tablet.
- Pack the tablet PC securely in a briefcase or hand-carried luggage and keep it separate from toiletries, liquids and food. Do not pack it in checked luggage.
- Before extended use in the field or long trips away from AC power, adjust the power properties to maximize battery conservation. See "Changing the power plan" on page 49.
- For international travel, use the appropriate adapters for your destination's electrical outlets. You do not need to buy a voltage converter; the Motion AC adapter will automatically adjust to different voltages.
- You may want to carry proof of ownership or a merchandise passport when traveling internationally.
- Consult your insurance and credit card companies to learn about emergency travel assistance in case your tablet PC becomes lost or disabled.
- Do not carry your tablet through a metal detector.
- Turn off the tablet PC or place it in hibernation mode for airplane takeoff and landing.

NOTE: The FAA requires that you suspend Wi-Fi, Bluetooth and Mobile Broadband connections before boarding a plane. You can disable them all at once. To disable the wireless devices, open Motion Dashboard, tap the **Wireless** tab, and clear the check box next to each the wireless devices listed.

Troubleshooting and FAQs

4

Motion Computing Tablet PCs are thoroughly tested for performance and quality, but occasionally problems can still occur. If you do not find the information you are looking for in this section, go to Motion Computing Support.

Troubleshooting

Use the information in this section to identify and resolve common issues. If an issue has more than one potential cause, the most common cause is listed first.

Power problems

The tablet does not shut down

- An application might have stopped responding. Use Task Manager to manually stop the application. Press Ctrl+Alt+Delete or press the Security button and select **Start Task Manager**. You can also press and hold the power button for five seconds to force the tablet to shut down. However, this is strongly discouraged.

The tablet will not enter Hibernation mode

- Hibernation might not be enabled. Enable hibernation by adjusting the power button behavior from Motion Dashboard. See "Changing how the power button functions" on page 50.

The tablet does not return from Hibernation while on battery power

- The battery might be depleted. Plug the tablet in to AC power.

The power button is blinking but nothing is happening

- The tablet is in sleep mode. Press the power button to wake up the tablet. To power off the tablet completely, you can press and hold the power button about 5 seconds. However, this is strongly discouraged. Under normal conditions, power off the tablet from the Start menu by tapping **Shut down**.

The display goes black while the tablet PC is still turned on

- The tablet might have turned off the display to save power. To restore the display, touch the screen with your finger or the pen.
- The tablet might have gone into Sleep mode. Press and hold the power button for about one second.
- The tablet might have gone into low-battery Hibernation mode. In Hibernation mode, the power status light is off. Plug the tablet in to AC power, then press and hold the power button for about one second.

Battery problems

The battery does not last very long (less than eight hours)

- Hot or cold conditions can adversely affect the battery charge. Use AC power if you are operating the tablet in these conditions.
- Accessory devices such as a DVD player and applications that make heavy use of the hard drive can drain the battery more quickly. Remove the accessory devices or use AC power if possible.
- Condition the battery once a month by using the tablet on battery power and allowing the battery charge to drop below 20 percent before connecting the battery to AC power.
- For other battery optimizing tips, see "Battery and power management tips" on page 48.
- Have the battery replaced. While the built-in lithium-ion battery is designed for a long battery life, you may find the need to replace it. If so, contact your Motion Computing service provider. Only authorized service providers can replace the battery.

Display problems

When I connect to an external monitor, the cursor appears on the external monitor and not on my tablet

- This is a known Windows 7 issue. If you have connected multiple touch-enabled displays, Windows may not assign touch to the correct display. To fix this issue, run **Setup** to assign touch to the appropriate display. Make sure a keyboard is attached to your tablet and then open Motion Dashboard. Tap **Pen & Tablet**, then tap **Tablet PC Settings**. Tap the **Display** tab, then tap **Setup** next to "Configure your pen and touch displays." Tap **Touch Input**, then press the **Enter** key until you see the instructions appear on the display that you want to use for touch input. Follow the on-screen instructions for setting up touch on this display.

When I disconnect an external monitor, the desktop area is larger than the tablet PC display

- The tablet may have expanded the desktop beyond the display area of the tablet PC display when it was connected to the external monitor. Use Motion Dashboard to reset the tablet PC to the display setting for stand-alone tablets. Open Motion Dashboard, tap **Display**. Then, from the **Display Scheme** drop-down list, select **Tablet Only**.

The display is too dim

- The display brightness may be set too low. Use Motion Dashboard to brighten the display. Open Motion Dashboard, tap **Display**, then move the brightness slider to the desired level.

The display is unreadable or distorted

- The screen resolution and color quality may not be set correctly. Use Windows Display Properties to reset the display settings. From Windows Control Panel, select **Hardware and Sound** category. Under **Display**, change the desired settings.
- The display driver may have been removed or become corrupted. Use Windows Device Manager to reinstall the driver.

To update the display device driver

1. Make sure that the tablet is connected to a network.
2. In Control Panel, tap the **System and Security** category.
3. Select **System**.
4. Under System, select **Device Manager**.
5. Expand **Display adapters**.
6. Select the adapter and select **Action** > **Update Driver Software**.
7. Follow the on-screen instructions.

Touch or pen problems

The tablet PC does not respond to the pen I am using

- Use only the CL900 pen with the tablet. The CL900 Tablet PC does not respond to other digitizer pens.

When I add an external display, touch input does not appear on the desired display

- Run touch set up on the desired display. Make sure a keyboard is attached to your tablet and then open Motion Dashboard. Tap **Pen & Tablet**, then tap **Tablet PC Settings**. Tap the **Display** tab, then tap **Setup** next to "Configure your pen and touch displays." Tap **Touch Input**, then press the **Enter** key until you see the instructions appear on the display that you want to use for touch input. Follow the on-screen instructions for setting up touch on this display.

When I write, I inadvertently click the function button on the pen

- Try adjusting how you hold the pen. Avoid resting your finger on the function button. You can also disable the function button. open Motion Dashboard then tap **Pen & Tablet**. Tap **Pen & Input Devices** and tap the **Pen Options** tab. Clear the check mark next to the box, "Use the pen button as a right-click equivalent."

The pen function button does not work

- You may not be pressing the button early enough. Try pressing and holding the pen function button before you touch the pen to the display surface.
- The pen function button may be disabled. To enable it, open Motion Dashboard then tap **Pen & Tablet**. Tap **Pen & Input Devices** and tap the **Pen Options** tab. Tap the check box next to the box, "Use the pen button as a right-click equivalent."

On-screen instructions require me to press Enter or Esc, but I don't have a keyboard

- Connect a keyboard to the tablet to continue.

The CL900 responds to my finger but not my pen

- The tablet may be configured to ignore pen input. To check, open Motion Dashboard then tap **Pen & Tablet**. Tap **Touch Settings** and tap the **Digitizer Options** tab. Set **Input mode** to the recognize both touch and pen.

The CL900 tablet is too sensitive to touch

- Consider changing a touch setting so that you have to double-tap the display to enable touch. Open Motion Dashboard then tap **Pen & Tablet**. Tap **Touch Settings** and then **Auto mode**.

The touch pointer jumps around the display and the display flickers

- In some cases, the tablet's touch system gets out of sync. To fix it, you can re-tune it. Open Motion Dashboard, then tap **Pen & Tablet**, tap **Touch Settings**, tap **Touch Tuning**, then **Start**. A calibration program begins. Do not touch the display until the program has finished.

Calibrate does not work

- The **Tablet PC Settings Display** tab has a **Calibrate** option but it does not apply to the CL900. Instead, if touch input does not behave as expected, you can re-tune touch.Open Motion Dashboard, then tap **Pen & Tablet**, tap **Touch Settings**, tap **Touch Tuning**, then **Start**. A calibration program begins. Do not touch the display until the program has finished.

Ports and connectors problems

The system does not recognize the USB 2.0 device

- Windows 7 may take a short time to recognize the USB device. Wait a few moments to see if Windows recognizes the device.
- The device may not be connected properly. Check the connection and ensure it is inserted properly into the USB port.
- The correct driver might not be included with Windows 7. Check the manufacturer's website for a current driver.

The CL900 is in its dock, but the system does not recognize any accessory devices, such as the external disk drive or monitor

- The CL900 may not be fully seated in the dock. Remove it from the dock and then replace it.

Network problems

The wireless adapter keeps connecting even when I do not want it to

- Disable the desired wireless adapter from the Motion Dashboard. Open Motion Dashboard, tap **Wireless** and clear the check box next to the wireless adapter that you want to disable.

I cannot connect to a wired Ethernet network

- To connect to an Ethernet network, your CL900 must be connected to a docking station. The Ethernet port for the CL900 is located on the dock.
- The connection may be loose. Remove the Ethernet cable and reconnect it.
- The Ethernet network may be experiencing problems. Ask your neighbors if they have network access.
- Replace the Ethernet cable.

Wi-Fi problems

I cannot connect to a wireless Wi-Fi network

- Your CL900 may not have located a Wi-Fi network. From the Start menu, tap **Control Panel** then **Network and Internet**. View your active networks. If no network is connected, tap **Connect to a network** and select a network from the list.
- Wi-Fi must be enabled from the Motion Dashboard. Open Motion Dashboard, tap **Wireless** and tap the check box next to **Enable 802.11 Internal Wireless**.
- You may not have access to the network. Obtain a user name and password from an administrator for the network.
- Your tablet's security settings may prevent a connection, for example, broadcasting a network name may be enabled or encryption is turned on. Check with your system administrator.

Bluetooth problems

I cannot connect to a Bluetooth network

- Bluetooth must be enabled from the Motion Dashboard. Open Motion Dashboard, tap **Wireless** and tap the check box next to **Enable Bluetooth Internal Wireless**.
- Your Bluetooth device must be paired. From the notification area, tap the Bluetooth icon and select **Add a Device**. Make sure the Bluetooth device is discoverable according its manufacturer's instructions. Select the desired Bluetooth device from the list of available devices. Follow the on-screen instructions to complete the procedure.
- Your Bluetooth device is out-of-range. The Bluetooth devices are designed for short-range communication and can connect at distances up to 33 feet (10 meters).

No other Bluetooth device can detect the CL900 tablet

- From the notification area, tap the Bluetooth icon and select **Open settings**. On the **Options** tab, select **Allow Bluetooth devices to find this computer**.

I tried to pair my Bluetooth device several times but it is not detected:

- Bluetooth must be enabled from the Motion Dashboard. Open Motion Dashboard, tap **Wireless** and tap the check box next to **Enable Bluetooth Internal Wireless**.
- Ensure that the Bluetooth device you are adding is discoverable. See the device's manufacturer's instructions for more information.
- Ensure that the Bluetooth device battery is charged.

- Check which Bluetooth devices are connected. From the notification area, tap the Bluetooth icon and select **Show Bluetooth Devices**. The Devices window displays all the Bluetooth devices that are currently connected.
- If the tablet still cannot detect the Bluetooth device, contact the device manufacturer for assistance.

My Bluetooth device doesn't work properly

- Some issues arise when using Bluetooth devices as listed below.

Bluetooth wireless tips

Motion Computing and its Bluetooth partners have worked to ensure a positive experience with this technology and to ensure Bluetooth interoperability. In doing so, we have found the following issues:

- **Interference**—If you are running Bluetooth and Wi-Fi at the same time, interference can affect the Bluetooth performance. This is most noticeable if:
  - You try to transfer large amounts of data, such as file transfers
  - Several Bluetooth devices are operating in an office simultaneously
- **Speech Recognition**—Bluetooth audio has not been fully developed for speech recognition. Therefore, for speech recognition, we recommend that you not use a Bluetooth wireless headset. A better solution is to use Motion Speak Anywhere, which can record clear audio, dictate notes and use voice commands without a microphone headset.
- **Disconnection**—Some Bluetooth devices will disconnect when they go into power-saving mode. Most devices will automatically reconnect when they become active again.
- **Incompatible drivers**—If you attempt to install other wireless headset or other audio drivers (such as Bluetooth or USB) over the tablet PC audio drivers, a malfunction of the tablet PC audio system may occur because the drivers may not be compatible.
- **Interoperability**—If you are having problems with interoperability of Bluetooth devices, contact the manufacturer of your Bluetooth device and check its compatibility with the Bluetooth software installed on your tablet PC.
- **Security**—Bluetooth devices use a passkey to create a secure connection between the tablet PC and the Bluetooth device. Although the passkey exchange helps to secure your data, Bluetooth wireless technology should not be considered completely secure.

Mobile broadband with GPS problems

I cannot connect to a mobile broadband network

- Mobile broadband is only available if you purchased your CL900 with the optional Mobile Broadband with GPS module.
- A mobile broadband network requires you to have a data plan from a cellular network provider.
- You may need a SIM card from your network provider. If the network is on a UMTS network (such as AT&T, Orange or T-Mobile), your network carrier must provide you with

a SIM card and you insert the SIM card in the slot on the left side of the tablet. The SIM card contains your account information.

- Mobile Broadband with GPS must be enabled from the Motion Dashboard. Open Motion Dashboard, tap **Wireless** and tap the check box next to **Enable Mobile Broadband with GPS**.
- Motion Connection Manager must be running. The Motion Connection Manager icon appears in the notification area when it is running. To start it, from Windows Start menu, select **All Programs > Motion Computing > MotionCM**.
- Mobile broadband must be set up through the Motion Connection Manager. To set it up, from Windows Start menu, select **All Programs > Motion Computing > MotionCM**. Tap the Help icon and select the help topic, "Setting up mobile broadband." Follow the instructions to set up a network profile and connect to a mobile broadband network.

I changed my SIM card and now I cannot connect to my mobile broadband network

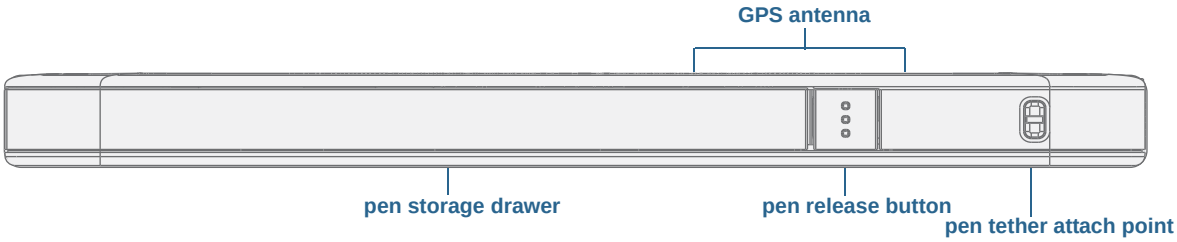
- After inserting a SIM card, the Motion Connection Manager must be restarted. From the notification area, tap the Motion Connection Manager icon and tap **Exit**. Restart the Connection Manager, from Windows Start menu, select **All Programs > Motion Computing > MotionCM**.

The GPS does not work

- The GPS receiver is only available if you purchased your CL900 with the optional Mobile Broadband with GPS module.
- Mobile Broadband with GPS must be enabled from the Motion Dashboard. Open Motion Dashboard, tap **Wireless** and tap the check box next to **Enable Mobile Broadband with GPS**.
- Motion Connection Manager must be running. The Motion Connection Manager icon appears in the notification area when it is running. To start it, from Windows Start menu, select **All Programs > Motion Computing > MotionCM**.
- GPS must be started from the Motion Connection Manager. Tap the Motion Connection Manager icon and select **Start GPS**.
- The GPS navigation or mapping application your are using must be able to handle standard NMEA GPS information.

My GPS isn't working properly

- Mobile Broadband with GPS must be enabled from the Motion Dashboard. Open Motion Dashboard, tap **Wireless** and tap the check box next to **Enable Mobile Broadband with GPS**.
- If performance is slow, you may be blocking the GPS antenna, which is located on the right side of the tablet as shown below.



Audio problems

No sound is coming from the built-in speaker

- Ensure that nothing is connected to the audio in/out jack. Connecting headphones or external speakers disables the built-in speaker.
- The volume may be set too low or muted. You can use Motion Dashboard to increase the volume or turn mute off. Open Motion Dashboard, then tap **Audio** and move the slider to the desired volume.

No sound is coming from the built-in speaker or external speakers

- The volume may be set too low or muted. You can use Motion Dashboard to increase the volume or turn mute off. Open Motion Dashboard, then tap **Audio** and move the slider to the desired volume.
- The integrated audio components may have been overwritten. If you install a third-party audio device (such as a USB or Bluetooth device), the integrated audio may stop working. If this happens, reinstall the audio drivers. After you install these, if you still have problems recording, contact your system administrator or service provider.

Motion QuickNav problems

Motion QuickNav doesn't respond

- Try to focus on another application then return to Motion QuickNav.
- Close Motion QuickNav from the notification area: tap and hold the Motion QuickNav icon and select **Exit**.
- If it still isn't responding, the Motion QuickNav process may have hung. Press Ctrl+Alt+Delete, tap **Start Task Manager**, tap the Processes tab, select **DialKeys.exe** then **End Process**.

Photos are backward (display mirror image)

- Set the camera rotation to Flip X. Open the Motion QuickNav tool bar then tap the camera icon , tap Options icon , tap the Camera tab, tap the **Camera** tab then under **Rotation**, select **Rotate 180 & Flip X**.

Camera makes a whirring sound and doesn't take a photo

- You may be covering up the camera lens.
- This can occur if you take many photos in sequence. Wait a few seconds before taking another photo. If that doesn't work, close the viewfinder and reopen it.

Barcode scanner is slow

- Remove any codes that you don't use. Tap the barcode scanner then tap the Options icon and disable the codes that you don't use.
- Lower the resolution, however, this affects accuracy. Tap the Options icon and select a lower resolution.

System problems

I forgot my BIOS password and cannot access my tablet

- You can enter several incorrect passwords before the BIOS temporarily locks the system. You can try again by restarting the system. If you still cannot log on, contact your system administrator.

The tablet seems to be operating slower than usual

- Reboot.
- The solid state drive (SSD) may be full or nearly full. You can use Disk Cleanup to free up space on your hard drive. For instructions, open Windows Help and search for "disk cleanup."
- Unlike traditional hard drives, SSD drives, like the one installed in CL900, see no performance benefit from traditional HDD defragmentation tools. Using these tools simply adds unnecessary wear to the SSD. It is recommended that you disable any automatic or scheduled defragmentation utilities on your tablet.

I want to make my tablet run faster

- Change the Power plan to **High Performance** from the Motion Dashboard Power tab.
- Adjust your Windows settings. For instructions, open Windows Help and search for "improve performance."

Frequently asked questions

How can I make the battery charge last longer?

- By default, the power plan for the CL900 is a balance between optimal performance and a long battery charge. If you want the tablet to run longer between charges, use the **Power saver** power plan. Open Motion Dashboard, tap **Power**. Tap **Power Options** and select **Power saver**.
- Use the Dynamic display setting. This automatically controls the display to conserve power. Open Motion Dashboard, tap **Display** then tap **Dynamic**.
- Set the display to the dimmest level you are comfortable with. Open Motion Dashboard, tap **Display** then move the Brightness slider to the desired level.
- Disconnect any Ethernet connections that are not being used. Disable the wireless adapter and Bluetooth adapter if you are not using them. Disconnect unnecessary USB devices. To disable the adapter, open Motion Dashboard, tap **Wireless** and clear the check box next to the adapters you are not using.
- Stop unnecessary background applications and processes.

How do I know if the tablet is charging when I plug it in to a power adapter?

- The battery gauge button on the left side of the tablet is amber when the tablet is charging.

How do I check the battery charge when I'm running on the battery?

- When you press the battery gauge button on the left side of the tablet, battery gauge lights appear on the front. If no lights appear, you should attach the tablet to a power source immediately. Five lights indicate a full charge.

How do I clean the display screen?

- To clean the display screen, wipe it with a soft cloth (like the one supplied). Do not spray cleaners, pour any liquid, or wipe any abrasive cleaner on the screen or any surface of the tablet PC. Do not use tissues or paper towels to clean the screen. They contain wood fibers that may scratch the surface.
- Motion Computing maintains a list of tested cleaning solutions and chemical disinfectants on its website.

Will scratches affect the performance of the display or digitizer?

- Our testing has not found appreciable loss of performance on a scratched display.

How sensitive is the screen to various elements?

- As with any computer or electronic device, you should protect the tablet PC from liquids, dirt and sand, other contaminants and extreme heat.

Will any monitor, USB device, keyboard or mouse work with the tablet PC?

- If the device has a driver for Windows, it will work with the tablet PC. For best result, an external monitor should be digital—and capable of connecting with the CL900 through the Micro-HDMI port. For a list of products that have been tested for Windows, look for the Windows Marketplace Tested Products page on the Microsoft website.

How do I adjust the tablet PC for left-handed use?

- From the Motion Dashboard, tap **Pen and Tablet**, then **Tablet PC Settings**, then the **Other** tab. You can select left- or right-handed which changes the location of the menus.

How can I stop the display screen from rotating automatically?

- From the navigation area, tap the Motion icon then tap **Options** and clear **Automatic Display Rotation**.

How do I calibrate my finger and pen for touch input?

- If the touchscreen does not respond as expected or if it responds to unintentional input, you can re-tune it. Open Motion Dashboard, then tap **Pen & Tablet**, tap **Touch Settings**, tap **Touch Tuning**, then **Start**. A calibration program begins. Do not touch the display until the program has finished.

What do I need to use the Tablet PC in another country?

- You will need a travel plug adapter, which you can find in airports and travel stores. You do not need to buy a voltage converter; the Motion AC adapter will automatically adjust to different voltages.

Where can I learn more about my CL900?

- To learn more about the CL900, check out our training tutorials and knowledge base articles. Motion Computing also offers corporate training classes.

Can I recycle my old computer?

- Yes. Motion Computing has a recycling program that allows free return of all Motion branded products and non-Motion branded electronics with the purchase of a similar Motion system for processing and disposal in an environmentally safe manner. For details, go to Motion Computing recycling program.

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