

Chapter 2 Using the MC55

Introduction

This chapter explains the buttons, status icons, and controls on the MC55, and provides basic instructions for using the MC55, including powering on and resetting the MC55, and entering and capturing data.

Today Screen

The Today screen displays important information, such as upcoming appointments and status indicators. Tap a section on the screen to open the associated program. Alternatively, tap **Start > Today** to display the **Today** screen.

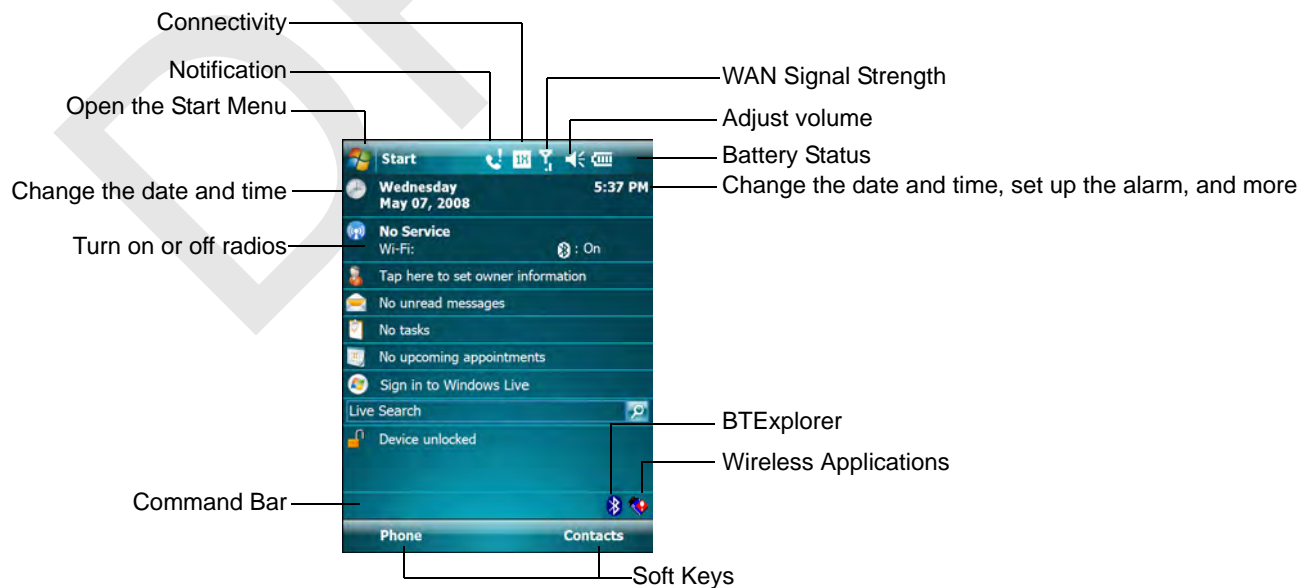


Figure 2-1 Today Screen

To customize the **Today** screen, tap **Start > Settings > Today** icon. Use the **Appearance** tab to customize the background and the **Items** tab to change the list and order of items that appear on the screen.

















Status Icons

The Navigation bar at the top of the screen can contain the status icons listed in [Table 2-1](#).

Table 2-1 Status Icons






Icon	Function	Description
	Notification	Backup Battery Low.
		Notification that one or more instant messages were received.
		Notification that one or more e-mail/text messages were received.
		Notification that one or more voice messages were received.
		There are more notification icons than can be displayed. Tap to display remaining icons.
		Indicates a reminder of an upcoming calendar event.
	Connectivity	Connection is active.
		Connection is not active.
		Synchronization is occurring.
		Wi-Fi available.
		Wi-Fi in use.
		GPRS available. (MC5504 and MC5574)
		GPRS connecting. (MC5504 and MC5574)
		EGPRS available. (MC5504 and MC5574)
		EGPRS connecting. (MC5504 and MC5574)
		WAN	Call missed.
	Dialing while no SIM card is installed.	
	Voice call in progress.	
	Calls are forwarded.	
	Call on hold.	

Table 2-1 Status Icons (Continued)

Icon	Function	Description
	WAN (Continued)	Speakerphone is on.
		Antenna/signal icon: wireless on/good signal.
		Antenna/signal icon: wireless off.
		Antenna/signal icon: no service or searching.
		GPRS in use. (MC5504 and MC5574)
		EGPRS in use. (MC5504 and MC5574)
		Roaming.
		SIM Card not installed.
	Speaker	All sounds are on.
		All sounds are off.
		Vibrate is on.
	Battery	Main battery is charging.
		Battery power completely depleted.
		Main battery is low.
		Main battery level.
	Time and Next Appointment	Displays current time in analog or digital format.

The command bar at the bottom of the screen can contain the task tray icons listed in [Table 2-2](#).

Table 2-2 Task Tray Icons

Icon	Description	Description
	Wireless connection status	Indicates WLAN signal strength.
	Bluetooth Enabled	Bluetooth radio is on.
	Bluetooth Disabled	Bluetooth radio is off.
	Bluetooth Connection	Bluetooth radio is connected to another Bluetooth device.
	ActiveSync	Active serial connection between the MC55 and the host computer.

Programs

Table 2-3 lists the default programs on the **Start** menu.

Table 2-3 Programs in the Start Menu








Icon	Name	Description
	Office Mobile	Use the complete suite of Microsoft® Office applications for your mobile device. Excel Mobile - Create new workbooks or view and edit Microsoft® Excel® workbooks. OneNote Mobile - Create new notes or view existing notes. PowerPoint Mobile - View Microsoft® PowerPoint® slides and presentations. Word Mobile - Create, view, and edit Microsoft® Word documents.
	Calendar	Keep track of appointments and create meeting requests.
	Contacts	Keep track of friends and colleagues.
	Internet Explorer Mobile	Browse Web and WAP sites as well as download new programs and files from the Internet.
	Messaging	Send and receive e-mail, MMS, and text messages.
	Phone	Make and receive calls, switch between calls, and set up conference calling.
	Help	See Help topics for the current screen or program.

Table 2-4 lists programs that are listed in the Programs window.

Table 2-4 Programs in Program Window



















Icon	Name	Description
	ActiveSync	Synchronize information between the MC55 and a host computer or the Exchange Server.
	AirBEAM	Allows specially designed software packages to be transferred between a host server and the MC55. Refer to the <i>MC55 Integrator Guide</i> for more information.
	BTE Explorer	Manages Bluetooth connections.
	Calculator	Perform basic arithmetic and calculations, such as addition, subtraction, multiplication, and division.
	Get Good	Link to download Good Mobile Messaging software.
	File Explorer	Organize and manage files on your device.
	Internet Sharing	Connect a notebook computer to the Internet using the MC55's data connection.
	Messenger	Use this mobile version of Windows Live Messenger.
	MSP Agent	Interacts with MSP agents to collect monitoring and asset information to enable the configuration, provisioning, monitoring and troubleshooting of the MC55. Refer to the <i>MC55 Integrator Guide</i> for more information.
	Notes	Create handwritten or typed notes, drawings, and voice recordings.
	Pictures & Videos	View and manage pictures, animated GIFs, and video files.
	Rapid Deployment	Facilitates software downloads from a Mobility Services Platform Console FTP server to the MC55. Refer to the <i>MC55 Integrator Guide</i> for more information.
	Remote Desktop	Log onto Windows NT server type computers and use all of the programs that are available on that computer from the MC55.

Table 2-4 Programs in Program Window (Continued)

Icon	Name	Description
	Search	Search contacts, data, and other information on your MC55.
	SIM Toolkit	Manage the contacts that are stored on your SIM card. Copy SIM contents to Contacts on the MC55.
	Tasks	Keep track of your tasks.
	Windows Live	Use this mobile version of Windows Live™ to find information on the web.
	Windows Media Player Mobile	Play back audio and video files.

Settings

Table 2-5 lists control applications pre installed on the MC55. Tap **Start > Settings** to open the **Settings** window.

Table 2-5 Settings in the Setting Window







Icon	Name	Description
Personal Tab		
	Buttons	Assign a program to a button.
	Input	Set options for each of the input methods.
	Lock	Set a password for the MC55.
	Menus	Set what programs appear in the Start menu.
	Owner Information	Enter personal information on the MC55.
	Phone	Make and receive calls, switch between calls, and set up conference calling.

Table 2-5 Settings in the Setting Window (Continued)

























Icon	Name	Description
	Sounds & Notifications	Enable sounds for events, notifications, and more, and set the type of notification for different events.
	Today	Customize the appearance and the information to be displayed on the Today screen.
System Tab		
	About	View basic information such as the Windows Mobile® version and type of processor used on the MC55.
	Backlight	Set the display backlight time-out and adjust brightness.
	Certificates	See information about certificates installed on the MC55.
	Clock & Alarms	Set the device clock to the date and time of your locale or to a visiting time zone when you're traveling. Alarms can also be set at specified days and times of a week.
	Customer Feedback	Submit feedback on the Windows Mobile 6 software.
	Encryption	Allow files on a storage card to be encrypted. Encrypted files are readable only on your device.
	Error Reporting	Enable or disable the device's error reporting function. When this function is enabled and a program error occurs, technical data about the state of the program and your computer is logged in a text file and delivered to Microsoft's technical support if you choose to send it.
	External GPS	Set the appropriate GPS communication ports, if required. You may need to do this when there are programs on your device that access GPS data or you have connected a GPS receiver to the MC55.
	GPS Setup	View GPS SUPL information.
	Keypad	Set the keypad backlight time-out.
	Memory	Check the device memory allocation status and memory card information and stop currently running programs.

Table 2-5 *Settings in the Setting Window (Continued)*

Icon	Name	Description
	Power	Check battery power and set the time-out for turning off the display to conserve battery power.
	Regional Settings	Set the regional configuration to use, including the format for displaying numbers, currency, date, and time on the MC55.
	Remove Programs	Remove programs that you installed on the MC55.
	Screen	Change the screen orientation, re-calibrate the screen, and change the screen text size.
	System Info	Displays the MC55's software and hardware information.
	Windows Update	Link to Microsoft's web site and update Windows Mobile® on your device with the latest security patches or fixes. Do not use. Obtain updates from Motorola.
Connections Tab		
	Beam	Set the MC55 to receive incoming IrDA beams.
	Connections	Set up one or more types of modem connections for your device, such as phone dial-up, GPRS, Bluetooth, and more, so that your device can connect to the Internet or a private local network.
	USB to PC	Enables or disables the enhanced network connectivity.
	Wi-Fi	Setup wireless network connection and customize settings.
	Wireless Manager	Enables or disables the MC55's wireless radios and customizes Wi-Fi, Bluetooth and Phone settings.

Adjusting Volume

To adjust the system volume using the **Speaker** icon in the navigation bar:

1. Tap the **Speaker** icon. The **Volume** dialog box appears.



Figure 2-2 Volume Dialog Box

2. Tap and move the slide bar to adjust the volume.
3. Select the **On** or **Off** radio button to turn the volume on or off.

You can also adjust the system volume using the **Sounds & Notifications** window, or use the **Up/Down** button on the side of the MC55.

Battery Status Indications

Battery icons appear on the navigation bar indicating the battery power level. When the main battery or backup battery power falls below a predetermined level the icon indicates the status and a battery dialog box appears indicating the status of the main or backup battery.



Figure 2-3 Battery Status Dialog Box

The **Battery** icon always appears in the **navigation bar** when the Today screen is visible. The icon indicates the battery power level. The message displays until the **Dismiss** button is pressed.



Figure 2-4 Battery Icon on the Title Bar

Also view the battery status using the **Power** window.

Battery Reserve Options

If the charge of the battery reaches a critical threshold, the MC55 shuts down. This threshold can be changed but affects the amount of time that data can be retained.

1. Tap **Start > Settings > Power icon > RunTime** tab. A warning message appears.

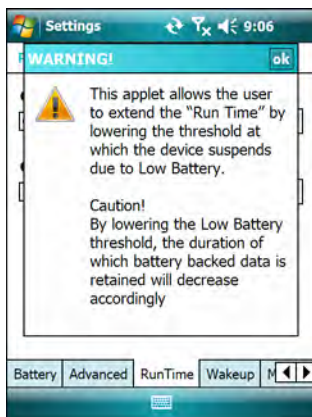


Figure 2-5 Warning Message

2. Read the warning message and tap **ok**.

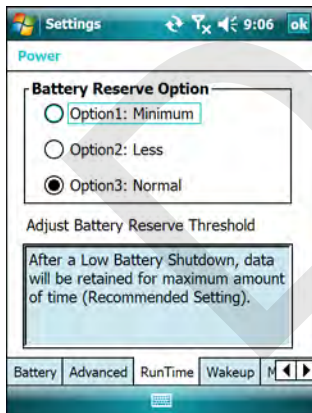


Figure 2-6 RunTime Tab

3. Select one of the **Battery Reserve Options**.
 - **Option 1: Minimum** - After a low battery shutdown, data will be retained for minimum amount of time. Battery should be replaced immediately to avoid data loss.
 - **Option 2: Less** - After a low battery shutdown, data will be retained for less than normal amount of time.
 - **Option 3: Normal** - After a low battery shutdown, data will be retained for maximum amount of time.
4. Tap **ok**.

Main Battery Temperature Notifications

The temperature notification system implements three levels of notification when the temperature within the battery exceeds specific temperature thresholds:

- **Level 1: Temperature Watch**; this level is similar to main battery low warning. It indicates that the battery temperature has reached the first threshold level. The user should move to an environment within proper operating temperature.
- **Level 2: Temperature Warning**; this level is similar to main battery very low warning. It indicates the battery temperature has reached the second threshold level. The user should stop using the MC55.
- **Level 3: Temperature Error**; this level indicates the battery has reached an unusable temperature threshold and immediately suspends the M55. This level does not have any graphical notification associated with it.



Figure 2-7 Main Battery Temperature Watch Dialog Box

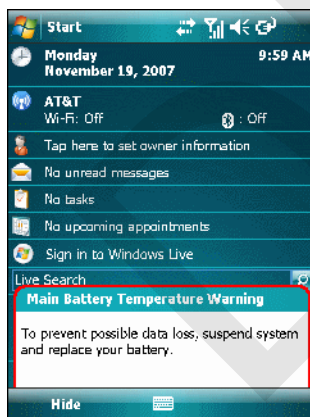


Figure 2-8 Main Battery Temperature Warning Dialog Box



NOTE The **Temperature Warning** dialog box remains visible until you tap **Hide**.

LED Indicators

The MC55 has three LED indicators. The Scan/Decode LED indicates status for scanning. The Charging/Battery Status LED indicates battery charging and status. The Radio Status LED indicates WAN radio status. [Table 2-6](#) describes the LED indications.

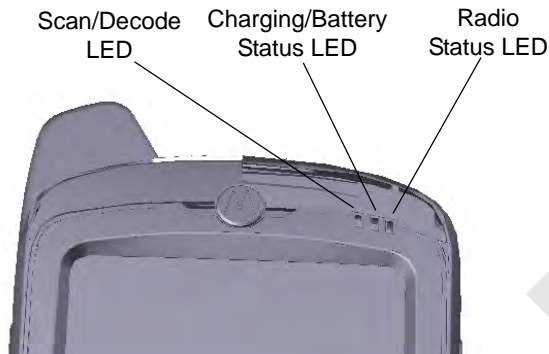


Figure 2-9 LED Indicators

Table 2-6 LED Indications

LED State	Indication
Scan/Decode LED	
Solid Green	Successful decode/capture.
Solid Red	Laser enabled, scanning/imaging in process.
Off	Not enabled.
Charging/Battery Status LED	
Slow Blinking Amber	Main battery in MC55 is charging.
Solid Amber	Main battery in MC55 is fully charged.
Fast Blinking Amber	Charging error.
Off	Not charging.
Single Blink Amber (when Power button pressed)	Battery depleted.
Blinking Amber (when Power button pressed)	Battery over-temperature condition.
Radio Status LED	
Slow Blinking Green	WAN radios is on.
Off	WAN radio is off.



NOTE For information about scanning/decoding, see [Data Capture on page 2-32](#). For information about WAN radio status and settings, see [Chapter 5, Using the Phone](#), or refer to the *MC55 Integrator Guide*.

Resetting the MC55

There are two reset functions, warm boot and cold boot. A warm boot restarts the MC55 by closing all running programs. A cold boot also restarts the MC55, and also resets the clock. Data saved in flash memory or a memory card is not lost.

If the MC55 is not functioning properly, perform a warm boot first. If the MC55 still does not respond, perform a cold boot.

Performing a Warm Boot

Hold down the **Power** button for approximately five seconds. As soon as the MC55 starts to boot release the **Power** button.

Performing a Cold Boot

To perform a cold boot simultaneously press the **Power** button and the **1** and **9** keys.

Waking the MC55

The wake-up conditions define what actions wake up the mobile computer after it has gone into suspend mode. The mobile computer can go into suspend mode by either pressing the Power button or automatically by Control Panel time-out settings. These settings are configurable and the factory default settings are shown in [Table 2-7](#) are subject to change/update.

Table 2-7 Wake-up Default Settings

Condition for Wake-up	Power Button	Automatic Time-out
AC power is applied.	No	Yes
Mobile computer is inserted into a cradle.	No	Yes
Mobile computer is removed from a cradle.	No	Yes
Mobile computer is connected to a USB device.	No	Yes
Mobile computer is disconnected from a USB device.	No	Yes
A key is pressed.	No	Yes
The scan triggered is pressed.	No	Yes
The screen is touched.	No	No
Audio Jack	No	No
Audio Btn	No	No
Bluetooth communication	Yes	Yes
Incoming phone call	Yes	Yes

Locking the MC55

Use the Device Lock feature to prevent use of the device. Note that when locked, the MC55 does not respond to screen or keypad input.

To lock the device, tap the **Device unlocked** icon. The icon changes to locked.



Figure 2-10 *Device Locked/Unlocked Icons*

To unlock the device and free it for use, tap **Unlock**.



Figure 2-11 *Unlock Device Window*

Tap **Unlock** on the **Unlock** window.

- ✓ **NOTE** You can make emergency calls even when the MC55 is locked. See [Making an Emergency Call on page 5-7](#) for more information.

Keypads

The MC55 offers two types modular keypad configurations: Numeric and alpha-numeric.

Numeric Keypad Configuration

The numeric keypad contains application keys, scroll keys, and function keys. The keypad is color-coded to indicate the alternate function key (blue) values. Note that an application can change keypad functions so the MC55's keypad may not function exactly as described. See [Table 2-8](#) for key and button descriptions and [Table 2-9 on page 2-18](#) for the keypad's special functions.



Figure 2-12 MC55 Numeric Keypad

Table 2-8 MC55 Numeric Keypad Descriptions













Key	Description
Blue Key (left) 	Use this key to launch applications or access items (shown on the keypad in blue). Press the Blue key once to activate this mode, followed by another key. A single press displays the following icon at the bottom of the screen, until a second key is pressed: 
Orange Key 	Use this key to access the secondary layer of characters and actions (shown on the keypad in orange). Press the Orange key once to lock the keypad into Alpha state. A single press displays the following icon at the bottom of the screen:  Press the Orange key a second time to return to the normal state. Press the Orange key, then the Shift key to add a temporary shift (that applies only to the next key pressed) to the orange lock state. This displays the following icon at the bottom of the screen: 
Talk/End  	Talk (Green Phone): press to display the phone keypad window or to dial a phone number (from the phone keypad window). End (Red Phone): press when the phone keypad window displays to stop dialing or end a call.
Scan (yellow) 	Activates the scanner/imager in a scan enabled application.
Scroll Up and Down 	Moves up one item. Moves left one item when pressed with the Orange key.
Scroll Left and Right 	Moves down one item. Moves right one item when pressed with the Orange key.
Soft Keys 	Accesses the command or menu above it on the screen.
Star 	Produces an asterisk in default state. Press and release the blue key, then press the Star key to open the <i>Start</i> menu.

Table 2-8 MC55 Numeric Keypad Descriptions (Continued)









Key	Description
Alphanumeric 	<p>In default state, produces the numeric value on the key.</p> <p>In Alpha state, produces the lower case alphabetic characters on the key. Each key press produces the next alphabetic character in sequence. For example, press and release the Orange key and then press the '4' key once to produce the letter 'g'; press and release the Orange key and then press the '4' key three times to produce the letter 'i'.</p> <p>Press the SHIFT key in Alpha state to produce the upper case alphabetic characters on the key. For example, press and release the Orange key, press and release the SHIFT key, and then press the '4' key once to produce the letter 'G'; press and release the Orange key, press and release the SHIFT key and then press the '4' key three times to produce the letter 'I'.</p>
SPACE 	Produces a space.
BACKSPACE 	Produces a backspace.
SHIFT 	<p>Press and release the SHIFT key to activate the keypad alternate SHIFT functions.</p> <p>A single press displays the following icon at the bottom of the screen, until a second key is pressed: </p> <p>Press the Orange key, then the Shift key to add a temporary shift (that applies only to the next key pressed) to the orange lock state. This displays the following icon at the bottom of the screen: </p>
ENT (Enter) 	Executes a selected item or function.
Pound 	<p>Produces a pound/number sign.</p> <p>Press and release the blue key, then press the Pound key to produce an OK.</p>

Table 2-9 Numeric Keypad Input Modes

Key	Numeric Mode			Orange Key (Alpha Lowercase Mode)				Orange + Shift Keys (Alpha Uppercase Mode)			
		Blue+ Key	SHIFT + Key	1st Press	2nd Press	3rd Press	4th Press	1st Press	2nd Press	3rd Press	4th Press
1	1	F1	!	*	*	*	*	*	*	*	*
2	2	F2	@	a	b	c		A	B	C	
3	3	F3	#	d	e	f		D	E	F	
4	4	F4	\$	g	h	i		G	H	I	
5	5	F5	%	j	k	l		J	K	L	
6	6	F6	^	m	n	o		M	N	O	
7	7	F7	&	p	q	r	s	P	Q	R	S
8	8	F8	*	t	u	v		T	U	V	
9	9	F9	(	w	x	y	z	W	X	Y	Z
0	0	F10)	.				>			
Up	Up	Up	Hilight Up	Left				Left			
Down	Down	Down	Hilight Down	Right				Right			
Enter	Action	Action	Action	Action				Action			

Note: An application can change the key functions. The keypad may not function exactly as described.

Alpha-numeric Keypad Configurations

The three types of alpha-numeric keypads produce the 26-character alphabet (A-Z, both lowercase and uppercase), numbers (0-9), and assorted characters. The keypad is color-coded to indicate which modifier key to press to produce a particular character or action. The keypad default is alphabetic, producing lowercase letters. See [Table 2-10](#) for key and button descriptions and [Table 2-11 on page 2-21](#) for the keypad's special functions.



Figure 2-13 QWERTY Keypad Configuration

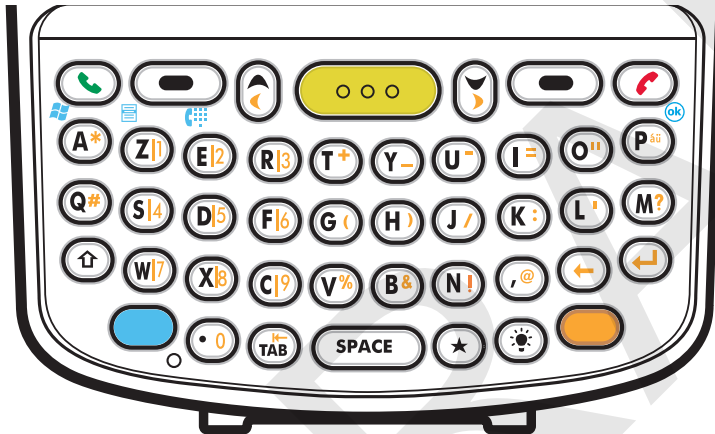


Figure 2-14 AZERTY Keypad Configuration

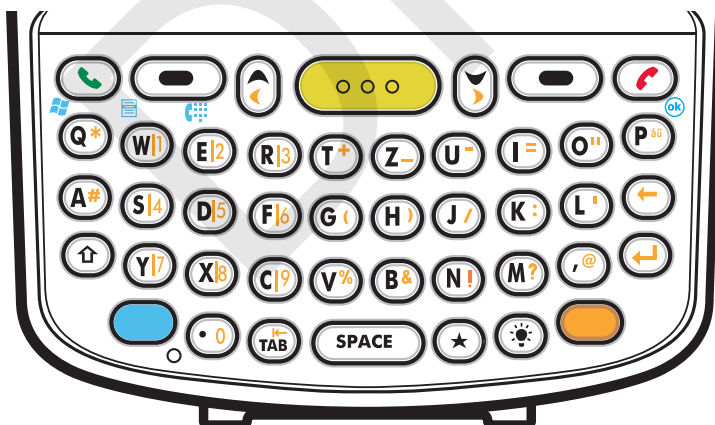


Figure 2-15 QWERTZ Keypad Configuration

Table 2-10 Alpha-numeric Keypad Descriptions














Key	Action
<p>Blue Key</p> 	<p>Launches applications (shown on the keypad in blue).</p> <p>Press the Blue key once to activate this mode temporarily, followed by another key. This displays the following icon at the bottom of the screen, until a second key is pressed: </p> <p>Press the Blue key twice to lock this mode. This displays the following icon at the bottom of the screen: </p> <p>Press the Blue key a third time to unlock.</p> <p>Press and hold the Blue key while selecting a sequence of keys to activate this mode temporarily. This displays the following icon at the bottom of the screen as long as the key is pressed: </p>
<p>Orange Key</p> 	<p>Accesses the secondary layer of characters and actions (shown on the keypad in orange).</p> <p>Press the Orange key once to activate this mode temporarily, followed by another key. This displays the following icon at the bottom of the screen, until a second key is pressed: </p> <p>Press the Orange key twice to lock this mode. This displays the following icon at the bottom of the screen: </p> <p>Press the Orange key a third time to unlock.</p> <p>Press and hold the Orange key while selecting a sequence of keys to activate this mode temporarily. This displays the following icon at the bottom of the screen as long as the key is pressed: </p>
<p>Talk/End</p>  	<p>Talk (Green Phone): press to display the phone keypad window or to dial a phone number (from the phone keypad window).</p> <p>End (Red Phone): press when the phone keypad window displays to stop dialing or end a call.</p>
<p>Scroll Up and Left</p> 	<p>Moves up one item.</p> <p>Moves left one item when pressed with the Orange key.</p>
<p>Scroll Down and Right</p> 	<p>Moves down one item.</p> <p>Moves right one item when pressed with the Orange key.</p>
<p>Soft Keys</p> 	<p>Accesses the command or menu above it on the screen.</p>

Table 2-10 Alpha-numeric Keypad Descriptions (Continued)











Key	Action
Shift 	Changes the state of the alpha characters from lowercase to uppercase. Press the Shift key once to activate the cap mode. This displays the following icon at the bottom of the screen:  Press the Shift key a second time to return to the normal state.
Backlight 	Turns the display backlight on and off.
Backspace 	Produces a backspace.
Enter 	Executes a selected item or function.
Star 	Produces an asterisk.
OK 	Use this key in conjunction with the Blue key as an OK or close button. This function is user programmable.
Start Menu 	Use this key in conjunction with the Blue key to instantly display the <i>Start</i> menu from any application without tapping the screen. This function is user programmable.
Menu 	Use this key in conjunction with the Blue key to instantly display the context menu from any application without tapping the screen. This function is user programmable.
Phonepad 	Use this key in conjunction with the Blue key to display the Phonepad application without tapping the screen. This function is user programmable.

Table 2-11 QWERTY Keypad Input Modes

Key	Normal	Shift + Key	Orange + Key	Blue + Key
Q	q	Q	*	Start Menu
W	w	W	1	Menu
E	e	E	2	Phone
R	r	R	3	
T	t	T	+	

Note: An application can change the key functions. The keypad may not function exactly as described.

Table 2-11 QWERTY Keypad Input Modes (Continued)

Key	Normal	Shift + Key	Orange + Key	Blue + Key
Y	y	Y	_	
U	u	U	-	
I	i	I	=	
O	o	O	"	
P	p	P	áü	OK
A	a	A	#	
S	s	S	4	
D	d	D	5	
F	f	F	6	
G	g	G	(
H	h	H)	
J	j	J	/	
K	k	K	:	
L	l	L	'	
Backspace	Backspace			
Shift	Shift			
Z	z	Z	7	
X	x	X	8	
C	c	C	9	
V	v	V	%	
B	b	B	&	
N	n	N	!	
M	m	M	?	
,	,	<	@	
ENTER	Enter			
.	.	>	0	.
TAB	Tab	Tab	Back tab	Tab
SPACE	Space			
Star	*	*	*	*

Note: An application can change the key functions. The keypad may not function exactly as described.

Table 2-12 AZERTY Keypad Input Modes

Key	Normal	Shift + Key	Orange + Key	Blue + Key
A	a	A	*	Start Menu
Z	z	Z	1	Menu
E	e	E	2	Phone
R	r	R	3	
T	t	T	+	
Y	y	Y	-	
U	u	U	-	
I	i	I	=	
O	o	O	"	
P	p	P	áü	OK
Q	q	Q	#	
S	s	S	4	
D	d	D	5	
F	f	F	6	
G	g	G	(
H	h	H)	
J	j	J	/	
K	k	K	:	
L	l	L	'	
M	m	M	?	
Shift	Shift			
W	w	W	7	
X	x	X	8	
C	c	C	9	
V	v	V	%	
B	b	B	&	
N	n	N	!	
,	,	<	@	
Backspace	backspace			

Note: An application can change the key functions. The keypad may not function exactly as described.

Table 2-12 AZERTY Keypad Input Modes (Continued)

Key	Normal	Shift + Key	Orange + Key	Blue + Key
Enter	Enter			
.	.	>	0	.
TAB	Tab		Back tab	
Space	Space			
Star	*	*	*	*

Note: An application can change the key functions. The keypad may not function exactly as described.

Table 2-13 QWERTZ Keypad Input Modes

Key	Normal	Shift + Key	Orange + Key	Blue + Key
Q	q	Q	*	Start Menu
W	w	W	1	Menu
E	e	E	2	Phone
R	r	R	3	
T	t	T	+	
Z	z	Z	-	
U	u	U	-	
I	i	I	=	
O	o	O	"	
P	p	P	áü	OK
A	a	A	#	
S	s	S	4	
D	d	D	5	
F	f	F	6	
G	g	G	(
H	h	H)	
J	j	J	/	
K	k	K	:	
L	l	L	'	
Backspace	Backspace			
Shift	Shift			

Note: An application can change the key functions. The keypad may not function exactly as described.

Table 2-13 QWERTZ Keypad Input Modes (Continued)

Key	Normal	Shift + Key	Orange + Key	Blue + Key
Y	y	Y	7	
X	x	X	8	
C	c	C	9	
V	v	V	%	
B	b	B	&	
N	n	N	!	
M	m	M	?	
,	,	<	@	
ENTER	Enter			
TAB	Tab		Back tab	
Space	Space			
.	.	>	0	
Star	*	*	*	*

Note: An application can change the key functions. The keypad may not function exactly as described.

PIM Keypad Configuration

The PIM keypad contains application keys, scroll keys, and function keys. The keypad is color-coded to indicate the alternate function key (blue) values. Note that an application can change keypad functions so the MC55's keypad may not function exactly as described. See [Table 2-8](#) for key and button descriptions and [Table 2-9 on page 2-18](#) for the keypad's special functions.

Figure 2-16 MC55 PIM Keypad

Table 2-14 MC55 PIM Keypad Descriptions













Key	Description
Blue Key (left) 	Use this key to launch applications or access items (shown on the keypad in blue). Press the Blue key once to activate this mode, followed by another key. A single press displays the following icon at the bottom of the screen, until a second key is pressed: 
Orange Key 	Use this key to access the secondary layer of characters and actions (shown on the keypad in orange). Press the Orange key once to lock the keypad into Alpha state. A single press displays the following icon at the bottom of the screen:  Press the Orange key a second time to return to the normal state. Press the Orange key, then the Shift key to add a temporary shift (that applies only to the next key pressed) to the orange lock state. This displays the following icon at the bottom of the screen: 
Talk/End  	Talk (Green Phone): press to display the phone keypad window or to dial a phone number (from the phone keypad window). End (Red Phone): press when the phone keypad window displays to stop dialing or end a call.
Scan (yellow) 	Activates the scanner/imager in a scan enabled application.
Scroll Up and Down 	Moves up one item. Moves left one item when pressed with the Orange key.
Scroll Left and Right 	Moves down one item. Moves right one item when pressed with the Orange key.
Soft Keys 	Accesses the command or menu above it on the screen.
Star 	Produces an asterisk in default state. Press and release the blue key, then press the Star key to open the <i>Start</i> menu.

Table 2-14 MC55 PIM Keypad Descriptions (Continued)









Key	Description
Alphanumeric 	<p>In default state, produces the numeric value on the key.</p> <p>In Alpha state, produces the lower case alphabetic characters on the key. Each key press produces the next alphabetic character in sequence. For example, press and release the Orange key and then press the '4' key once to produce the letter 'g'; press and release the Orange key and then press the '4' key three times to produce the letter 'i'.</p> <p>Press the SHIFT key in Alpha state to produce the upper case alphabetic characters on the key. For example, press and release the Orange key, press and release the SHIFT key, and then press the '4' key once to produce the letter 'G'; press and release the Orange key, press and release the SHIFT key and then press the '4' key three times to produce the letter 'I'.</p>
SPACE 	Produces a space.
BACKSPACE 	Produces a backspace.
SHIFT 	<p>Press and release the SHIFT key to activate the keypad alternate SHIFT functions.</p> <p>A single press displays the following icon at the bottom of the screen, until a second key is pressed: </p> <p>Press the Orange key, then the Shift key to add a temporary shift (that applies only to the next key pressed) to the orange lock state. This displays the following icon at the bottom of the screen: </p>
ENT (Enter) 	Executes a selected item or function.
Pound 	<p>Produces a pound/number sign.</p> <p>Press and release the blue key, then press the Pound key to produce an OK.</p>

Table 2-15 Numeric Keypad Input Modes

Key	Numeric Mode			Orange Key (Alpha Lowercase Mode)				Orange + Shift Keys (Alpha Uppercase Mode)			
		Blue+ Key	SHIFT + Key	1st Press	2nd Press	3rd Press	4th Press	1st Press	2nd Press	3rd Press	4th Press
1	1	F1	!	*	*	*	*	*	*	*	*
2	2	F2	@	a	b	c		A	B	C	
3	3	F3	#	d	e	f		D	E	F	
4	4	F4	\$	g	h	i		G	H	I	
5	5	F5	%	j	k	l		J	K	L	
6	6	F6	^	m	n	o		M	N	O	
7	7	F7	&	p	q	r	s	P	Q	R	S
8	8	F8	*	t	u	v		T	U	V	
9	9	F9	(	w	x	y	z	W	X	Y	Z
0	0	F10)	.				>			
Up	Up	Up	Hilight Up	Left				Left			
Down	Down	Down	Hilight Down	Right				Right			
Enter	Action	Action	Action	Action				Action			

Note: An application can change the key functions. The keypad may not function exactly as described.

Special Character Key

✓ **NOTE** Special characters are only available on the alpha-numeric keypad configurations.

To add special characters using the MC55 **áü** key, type the related character first, then press the Orange twice followed by the **áü (P)** key. Continue pressing the **áü** key until the special character displays. To modify an existing character, move the cursor to the right of the character then press the Orange key twice and then press the **áü** key until the special character replaces the original character. [Table 2-16](#) lists the special characters you can generate.

Table 2-16 Special Characters

Key	Special Characters	Key	Special Characters
a	à á â ã ä å æ	A	À Á Â Ã Ä Å Æ
c	ç ć Ć	C	Ç Ć Ć
d	ð	D	Ð
e	è é ê ë ð	E	È É Ê Ë Ì
i	ì í î ï	I	Ì Í Î Ï

Table 2-16 Special Characters (Continued)

Key	Special Characters	Key	Special Characters
l	ł	L	Ł ł
n	ñ	N	Ñ
o	ò ó ô õ ö ø œ	O	Ò Ó Ô Õ Ö Ø Æ
p	þ	P	Þ
r	®	R	®
s	ş š ß	S	Ş Š ß
t	ţ	T	Ț
u	ù ú û ü	U	Ù Ú Û Ü
y	ý	Y	Ý
z	ź ź	Z	Ź Ź
\$	€ £ ¥	/	\
"	' « ' »	([{ < «
)] } > »	+	± & - _
!	¡ ? ¿	.	¡ ; ;
*	#	@	~ %
%	^	,	¡ ; :
#	*	&	- _ + ±
_	+ ± & -	'	« » "
?	¿ ! ¡	:	¡ ; :
-	_ + ± &		

Function Buttons

The MC55's buttons perform certain functions.



Figure 2-17 Function Buttons

- **Power:** Press the red **Power** button to turn the MC55 screen on and off. The MC55 is in suspend mode when the screen is off. For more information, see [Powering On the MC55 on page 1-9](#). Also use the **Power** button to reset the MC55 by performing a warm or cold boot. See [Resetting the MC55 on page 2-13](#).
- **Scan/Action:** Press to scan bar codes or capture images. See [Data Capture on page 2-32](#). Or, press to open an application or perform a function. See the *Microsoft® Applications for Mobile 6 User Guide* to set an application to open.
- **Up/Down:** Press to increase or decrease the MC55's volume.
- **Action:** Press to open an application or perform a function. See the *Microsoft® Applications for Mobile 6 User Guide* to set an application to open.

Stylus

Use the MC55 stylus to select items and enter information. The stylus functions as a mouse.

- **Tap:** Touch the screen once with the stylus to press option buttons and open menu items.
- **Tap and Hold:** Tap and hold the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action to perform.

- Drag: Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.

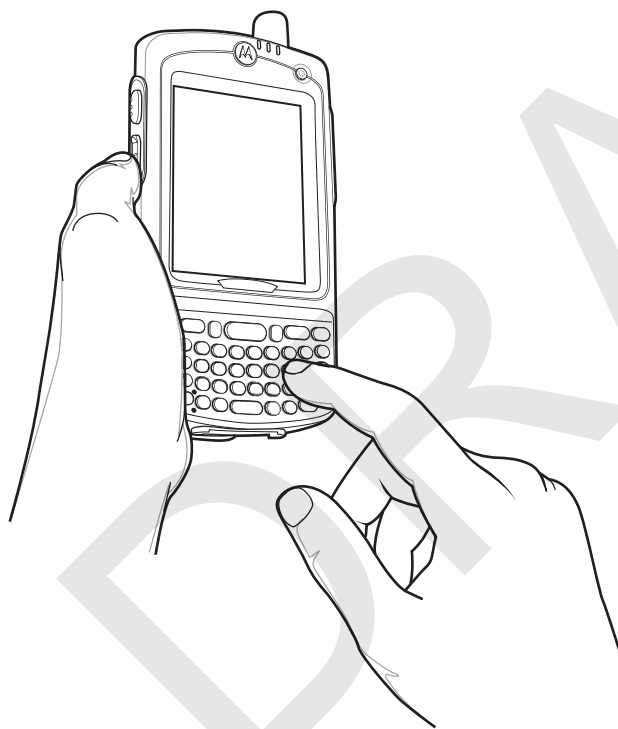
✓ **NOTE** Motorola recommends using the spring-loaded tip of the stylus to write on the screen, and the back end of the stylus to tap the screen. Use your finger to press the **Power** button and keypad buttons.



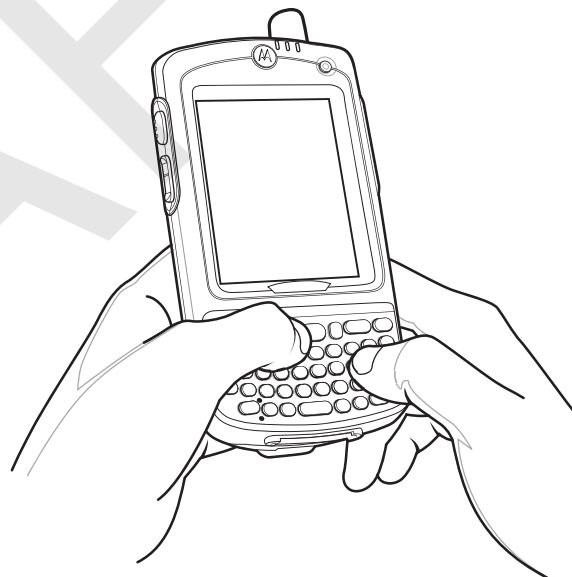
CAUTION To prevent damage to the screen, do not use any device other than the Motorola-provided stylus.

Entering Data

When entering data on the keypad, use either the single-hand method or the two-hand method as shown in [Figure 2-18](#).



Single-hand Method



Two-hand Method

Figure 2-18 *Entering Data on the Keypad*

Data Capture

The MC55 offers three types of data capture options:

- Linear scanning
- Imaging
- Digital camera.

✓ **NOTE** To perform data capture a scanning enabled application must be installed on the MC55. A sample scanning application can be downloaded from the Motorola Support site at <http://support.symbol.com>.

Linear Scanning

MC55 with an integrated linear scanner have the following features:

- Reading of a variety of bar code symbologies, including the most popular linear, postal, and 1-D code types.
- Intuitive aiming for easy point-and-shoot operation.

Imaging

MC55 with an integrated imager have the following features:

- Omnidirectional reading of a variety of bar code symbologies, including the most popular linear, postal, PDF417, and 2D matrix code types.
- The ability to capture and download images to a host for a variety of imaging applications.
- Advanced intuitive laser aiming for easy point-and-shoot operation.

The imager uses digital camera technology to take a digital picture of a bar code, stores the resulting image in its memory, and executes state-of-the-art software decoding algorithms to extract the data from the image.

Operational Modes

MC55 with an integrated imager support three modes of operation, listed below. Activate each mode by pulling the trigger or pressing the **Scan** button.

- **Decode Mode:** In this mode, the MC55 attempts to locate and decode enabled bar codes within its field of view. The imager remains in this mode as long as you hold the trigger, or until it decodes a bar code.

✓ **NOTE** To enable Pick List Mode, download the Control Panel applet from the Support Central web site at <http://support.symbol.com>. Pick List can also be set in an application using a API command.

- **Pick List Mode:** This mode allows you to selectively decode a bar code when more than one bar code is in the MC55's field of view. To accomplish this, move the aiming crosshair over the required bar code to decode only this bar code. This feature is ideal for pick lists containing multiple bar codes and manufacturing or transport labels containing more than one bar code type (either 1D or 2D).
- **Image Capture Mode:** Use this mode to capture an image within the MC55's field of view. This is useful for capturing signatures or images of items like damaged boxes.

Digital Camera

MC55 with an integrated digital camera have the following features:

- Omnidirectional reading of a variety of bar code symbologies, including the most popular linear, postal, PDF417, and 2D matrix code types.
- Advanced intuitive aiming for easy point-and-shoot operation.

The camera uses digital camera technology to take a digital picture of a bar code, stores the resulting image in its memory, and executes state-of-the-art software decoding algorithms to extract the data from the image.

Scanning Considerations

Typically, scanning is a simple matter of aim, scan, and decode and a few quick trial efforts master it. However, consider the following to optimize scanning performance:

- **Range**
Any scanning device decodes well over a particular working range — minimum and maximum distances from the bar code. This range varies according to bar code density and scanning device optics.
Scanning within range brings quick and constant decodes; scanning too close or too far away prevents decodes. Move the scanner closer and further away to find the right working range for the bar codes being scanned.
- **Angle**
Scanning angle is important for promoting quick decodes. When laser beams reflect directly back into the scanner from the bar code, this specular reflection can “blind” the scanner.
To avoid this, scan the bar code so that the beam does not bounce directly back. But don’t scan at too sharp an angle; the scanner needs to collect scattered reflections from the scan to make a successful decode. Practice quickly shows what tolerances to work within.
- Hold the MC55 farther away for larger symbols.
- Move the MC55 closer for symbols with bars that are close together.

✓ **NOTE** Scanning procedures depend on the application and MC55 configuration. An application may use different scanning procedures from the one listed above.

Linear Scanning

1. Ensure that a scan enabled application is loaded on the MC55.
2. Aim the scan window at the bar code.



Figure 2-19 *Linear Scanning*

3. Press the scan button. Ensure the red scan beam covers the entire bar code. The Scan/Decode LED lights red to indicate that scanning is in process, then lights green and a beep sounds, by default, to indicate the bar code was decoded successfully.

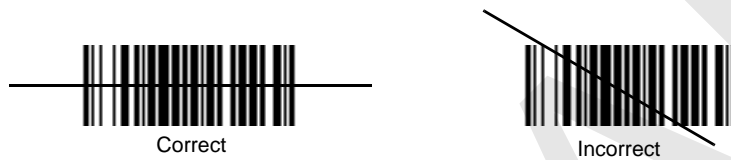


Figure 2-20 *Linear Scanner Aiming Pattern*

Imager Scanning

1. Ensure that a scan-enabled application is loaded on the MC55.
2. Aim the scan window at the bar code.



Figure 2-21 *Imager Scanning*

3. Press the scan button. The red laser aiming pattern turns on to assist in aiming. Ensure the bar code is within the area formed by the brackets in the aiming pattern. The Scan/Decode LED lights red to indicate that scanning is in process, then lights green and a beep sounds, by default, to indicate the bar code was decoded successfully. Note that when the MC55 is in Pick List Mode, the imager does not decode the bar code until the crosshair touches the bar code.

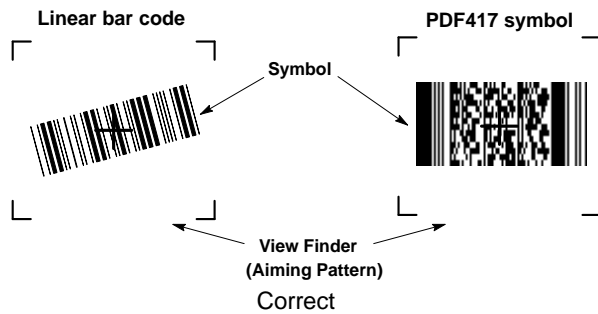


Figure 2-22 Imager Aiming Pattern: Bar Code Centered

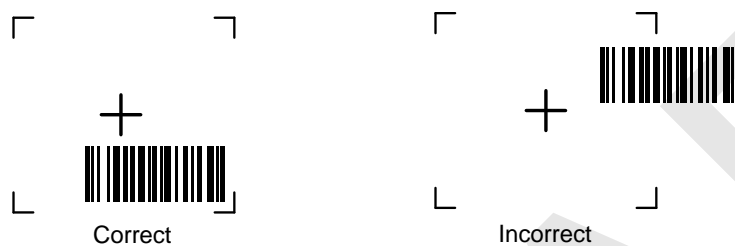


Figure 2-23 Imager Aiming Pattern: Bar Code Not Centered

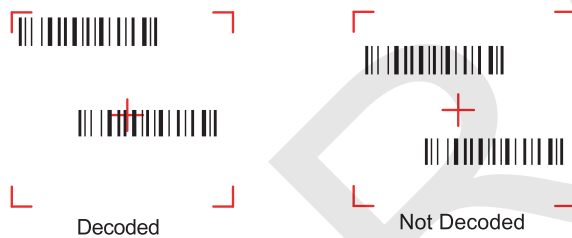


Figure 2-24 Pick List Mode with Multiple Bar Codes in Aiming Pattern

4. Release the scan button.

✓ **NOTE** Imager decoding usually occurs instantaneously. The MC55 repeats the steps required to take a digital picture (image) of a poor or difficult bar code as long as the scan button remains pressed.

Digital Camera Scanning

1. Ensure that a scan-enabled application is loaded on the MC55.
2. Aim the camera lens on the back of the MC55 at a bar code.
3. Press and hold the scan button. A preview window appears on the display window with a red aiming reticle in the center. The Scan/Decode LED lights red to indicate that scanning is in process.

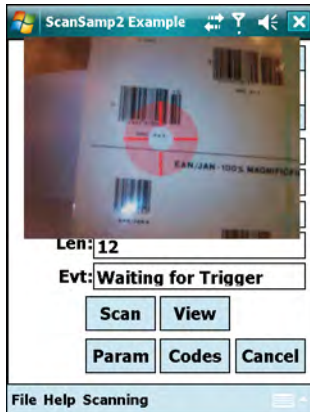


Figure 2-25 Sample Scan Application with Preview Window

4. Move the MC55 until the red aiming reticle is on the bar code to scan. The aiming reticle turns green when the MC55 is able to decode the bar code.



Figure 2-26 Digital Camera Scanning

5. Release the scan button. The Scan/Decode LED lights green and a beep sounds, by default, to indicate the bar code was decoded successfully.

Taking Photos

To take a photo:

1. Tap **Start** > **Programs** > **Pictures & Videos** icon.
2. Tap **Camera** on the command bar.
3. Check the image on the view finder, adjust if necessary.
4. Press the **Enter** key to take the picture. Hold the MC55 still until the camera flash occurs or the shutter sound is heard.

Recording Video

To record a video clip:

1. Tap **Start > Programs > Pictures & Videos** icon.
2. Tap **Camera** on the command bar.
3. Tap **Menu > Video** to set shooting mode to video.
The available recording time displays on the screen.

✓ **NOTE** By default, the time limit for recording videos is set to 30 seconds.

4. Press the **Enter** key to begin recording.
Recording stops when you press the **Enter** button again.

Viewing Photos and Videos

To view photos and video clips:

1. Tap **Start > Programs > Pictures & Videos** icon.
2. Tap the picture or video clip to view.
- 3.

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