MX3X User's Guide





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Language: English Notices

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The user is strongly encouraged to read Appendix B, "Regulatory Notices and Safety Information". Important safety cautions, warnings and regulatory information is contained in Appendix B.

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MX3X User's Guide

Introduction

Overview

The MX3X is a rugged, portable, hand-held Microsoft® Windows® CE .NET equipped computer capable of wireless data communications. The MX3X can transmit information using a 2.4 GHz radio (with an internally mounted antenna) and it can store information for later transmission through an RS-232, InfraRed, or USB port.

The MX3X is horizontally oriented and features backlighting for the display. The touch-screen display supports graphic features and Windows icons that the Windows CE .NET operating system supports. The keys on the keypad are constructed of a phosphorescent material that can easily be seen in dimly lighted areas.

This device is a Windows CE compatible computer that can be scaled from a limited function batch computer to an integrated RF scanning computer.

The stylus in the Stylus Kit (shipped with unit) is used to assist in entering data and configuring the unit. Protective film for the touch screen is available as an accessory.



Related Manuals

The "MX3X Reference Guide" contains MX3X technical information and advanced functions.

Please refer to the "MX3 Cradle Reference Guide" for technical information relating to MX3X-compatible Desk Top and Vehicle Mount cradles.

Note: Until the Main Battery and Backup Battery are completely depleted, the MX3X is always drawing power from the batteries (On).

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2 Overview

Document Conventions

ALL CAPS	All caps are used to represent disk directories, file names, and application names.
Menu Choice	Rather than use the phrase "choose the Save command from the File menu", this guide uses the convention "choose File Save".
"Quotes"	Indicates the title of a book, chapter or a section within a chapter (for example, "Document Conventions").
< >	Indicates a key on the keypad (for example, <enter>).</enter>
	Indicates a reference to other documentation.
举	Differences in operation or commands due to radio type.
ATTENTION	Keyword that indicates vital or pivotal information to follow.
<u></u>	Attention symbol that indicates vital or pivotal information to follow. Also, when marked on product, means to refer to the user's guide.
	International fuse replacement symbol. When marked on the product, the label includes fuse ratings in volts (v) and amperes (a) for the product.
Note:	Keyword that indicates immediately relevant information.
CAUTION	Keyword that indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
WARNING	Keyword that indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
DANGER !!	Keyword that indicates a imminent hazardous situation which, if not avoided, will result in death or serious injury.

MX3X Environmental Specifications

Operating Temperature	Monochrome display : -4°F to 122°F (-20°C to 50°C) [non-condensing] Color display : 32°F to 122°F (0°C to 50°C) [non-condensing]
Storage Temperature	-22°F to 158°F (-30°C to 70°C) [non-condensing]
Water and Dust	IEC IP66
Operating Humidity	5% to 95% non-condensing at 104°F (40°C)
Vibration	Based on MIL Std 810D
ESD	8 kV air, 4kV contact
Shock	75G, 5ms duration, 100 shock impacts

Laser Warnings and Labels

- Do not look into the laser's lens.
- Do not stare directly into the laser beam.
- Do not remove the laser caution labels from the MX3X.
- Do not connect the laser barcode window to any other device. The laser barcode window is certified for use with the MX3X only.

Caution:

Laser radiation when open. Please read the caution labels.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.





Figure 1 CDRH / IEC 825 Caution Label Location - MX3X, Back

Figure 2 Caution Label - Scanner

Quick Start

This section's instructions are based on the assumption that your new system is pre-configured and requires only accessory installation (e.g. hand strap, external barcode scanner) and a power source

This guide takes you through an introduction to and daily use of the LXE MX3X.

In general, the sequence of events is:

- 1. Insert a fully charged battery. (Always put a fully charged battery in the MX3X at the beginning of the shift or workday.)
- 2. Connect an external power source to the unit (if required).
- 3. If the screen does not automatically display, tap the Power button.
- 4. Adjust screen display, audio volume and other parameters if desired.

Note: Do **not** connect a tethered scanner cable to an MX3X USB-C or USB-H labeled endcap port. These ports cannot power a tethered scanner.

About Lithium-Ion Batteries

Li-Ion batteries (like all batteries) gradually lose their capacity over time (in a linear fashion) and never just stop working. This is important to remember -- the MX3X is always 'on' even when in the Suspend state and draws battery power at all times. Use the **Start | Settings | Control Panel | Power | Battery** tab to check the battery status and power reading.

Always replace the used Main Battery with a fully charged Main Battery. The Battery Low Warning LED illuminates red at approximately 35% of power left in the Main Battery. You need to determine the point at which battery life becomes unacceptable for your business practices and replace the Main Battery pack before that point.

Components



Figure 3 Front of MX3X

1	Endcap	9	Shift LED
2	Touch Screen Display	10	Caps LED
3	Scan, Enter or Field Exit (programmable)	11	Scanner LED
4	Beeper	12	Backup Battery LED
5	On/Off Button	13	Status LED
6	2nd LED	14	Main Battery LED
7	Alt LED	15	Charger LED
8	Ctrl LED	16	Scan or Enter (programmable)

Note: The programmable Scan key (see number 3) is the Field Exit key when the MX3X is an IBM 5250 / TN5250 compatible device.

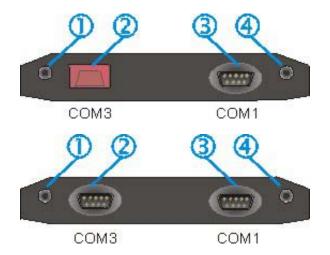


Figure 4 Endcap

- 1 DC Power Jack
- 2 Serial Com 3 or USB Host or Scanner Port
- 3 Serial Com 1 or USB Client Port
- 4 Audio Jack

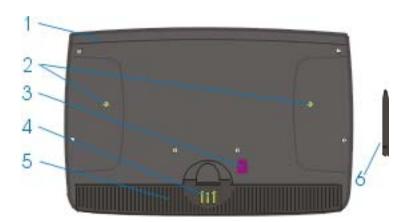


Figure 5 Back of MX3X

- 1 Endcap
- 2 Leather Handstrap Connector
- 3 IR Port (Com 2 Port)
- 4 Cradle Input Contacts
- 5 Main Battery
- 6 Stylus

Insert Main Battery

Press the Power button after the battery is inserted into the MX3X.

Note: New batteries must be charged prior to first use. This process takes up to four hours in an LXE Multi-Charger and eight hours with an external power source attached to the MX3X.



Figure 6 MX3X Battery Contacts

The MX3X Battery Compartment is located at the bottom of the back of the computer. The arrows in the figure above point to the battery and cradle contacts in the computer.



Figure 7 Main Battery

Place the battery in the compartment, making sure the side of the battery with six contacts matches up with the battery contacts in the computer battery compartment. Do not slide the battery sideways into the compartment.

Firmly press the battery into the compartment until the Retaining Clip on the battery clicks. The battery is now securely fastened to the MX3X.

Power Button

Note: Refer to the section titled "Power Modes" later in this guide for information relating to the power states of the MX3X.



Figure 8 Power Button

The power button is located above the ESC key on the keypad. When a battery is inserted in the MX3X for the first time press the Power button.

Quickly tapping the Power button places the MX3X immediately in Suspend mode. Quickly tapping the Power button again, or touching the screen, immediately returns the MX3X from Suspend.

Please refer to the section titled "Power Modes" later in this guide for a list of the kinds of activities (Primary Events) that will return the MX3X from Suspend Mode.

Restart Sequence

Tap the **Start** button then tap **Restart**. If the touchscreen is not accepting taps or needs recalibration, press <Ctrl>+<Esc> to force the Start Menu to appear.

When the Windows CE. NET desktop is displayed or an application begins, the power up (or reboot) sequence is complete. If you have previously saved your settings, they will be restored on reboot.

Check Battery Status

Tap the **Start** | **Settings** | **Control Panel** | **Power** icon. Main and backup battery level, status and Power Scheme timeout setting options are displayed.

Attach the Stylus Clip (Optional)

Carefully remove the paper backing from the Stylus Clip sticky. Firmly press the sticky side of the clip onto the MX3X and hold in place for 15 seconds. Thread the tether through the end of the stylus and tie the ends firmly to the Stylus Clip so that the ends don't interfere with placing the stylus in the Stylus Clip. Place the stylus in the Stylus Clip when not in use.

Connect External Power Supply (Optional)

There are three external power supplies available:

- US AC/DC 12V Power Supply
- Cigarette Lighter Adapter
- International AC/DC 12V Power Supply

The MX3X DC power jack is located on the endcap. The cradle power jack is located on the back of the cradle.



Figure 9 Connect External Power Supply

- 1. Insert the barrel connector into the MX3X power jack and push in firmly.
- 2. The CHGR LED above the keypad illuminates when the MX3X is receiving external power through the power jack. The Main Battery recharges when the MX3X is connected to an external power source. The BATT B and BATT M LEDs illuminate red when the batteries are recharging and green when the batteries are finished charging.

Note: When the MX3X is receiving power through a cradle connected to external power, the cradle's Status LED and the MX3X's CHGR LED are illuminated.

Connect Audio Jack (Optional)

The MX3X audio jack is located on the endcap.



Figure 10 Connect Audio Jack

Insert the 2.5mm barrel end of the connector into the MX3X audio jack and push in firmly.

Note: The audio option draws power from the Main Battery Pack.

Attach Hand Strap (Optional)

Once installed, the elastic handstrap provides a means for the user to secure the computer to their hand. It is adjustable to fit practically any size hand and does not interfere with battery charging when the MX3X is in a cradle.



Figure 11 MX3X With Handstrap Installed

Tool Required: #1 Phillips Screwdriver

Installation

- 1. Place the MX3X, with the screen facing down, on a flat stable surface.
- 2. Attach the hand strap to the MX3X with the screws and washers provided.
- 3. Test the strap's connection making sure the MX3X is securely connected to each end of the strap.

Periodically check the hand strap for wear and the connection for tightness. If the hand strap gets worn or damaged, it must be replaced.

Attach to Hip-Flip (Optional)



Figure 12 Hip-Flip Accessory

Note: #1 flat head screwdriver is not supplied by LXE. A waist belt can be ordered from LXE.

Once the MX3X is attached to the hip-flip and the hip-flip securely fastened to the user by a belt around their waist, the MX3X can be operated at a convenient height, leaving the user's hands free.

The hip-flip adjusts downward to allow removing and replacing the main battery without removing the unit from the hip-flip or the user's body.

The MX3X must be removed from the hip-flip before being placed in a docking station.

Caution: Never use the MX3X in the hip-flip without first securing the unit to the hip-flip with the screws.

Installation

- 1. If the MX3X has a handstrap, remove the handstrap and set it aside along with the handstrap screws and washers.
- 2. Slide the MX3X into the pocket in the hip-flip, making sure the keypad is up and the endcap ports are visible in the openings at the base of the hip-flip.
- 3. Place the MX3X (in the hip-flip) on a flat stable surface with the keypad down.
- 4. Tighten the assembly with the black screws provided, using the holes used for the handstrap (if used) on the back of the MX3X.
- 5. Test the hip-flip's connection making sure the MX3X is securely attached.
- Slide the waist-belt through the loop in the hip-flip and secure the belt around your body.

Tapping the Touchscreen with a Stylus

Note: Always use the point of the stylus for tapping or making strokes on the display. Never use an actual pen, pencil or sharp object to write on the touch screen.

Hold the stylus as if it were a pen or pencil. Touch an element on the screen with the tip of the stylus then remove the stylus from the screen. Firmly press the stylus into the stylus holder on the MX3X when the stylus is not in use.

Like using a mouse to left-click icons on a computer screen, using the stylus to tap icons on the MX3X display is the basic action that can:

- Open applications
- Choose menu commands
- Select options in dialog boxes or drop-down boxes
- Drag the slider in a scroll bar
- Select text by dragging the stylus across the text
- Place the cursor in a text box prior to typing in data or retrieving data using the integrated barcode scanner or an input/output device connected to the serial port.

An extra or replacement stylus can be ordered from LXE. See the section titled "Accessories" for the stylus part number.

Keypad Shortcuts

Use keyboard shortcuts instead of the stylus when the MX3X is running Windows CE .NET.

- Press Tab and an Arrow key to select a file.
- Press Shift and an Arrow key to select several files.
- Once you've selected a file, press Alt then press Enter to open its Properties dialog.
- Press 2nd then press numeric dot to delete a file.
- Right Mouse Click Touch the screen with the stylus and hold it on the screen until the Context Menu appears. Tap the screen to clear the Context Menu.
- To force the Start menu to display, press Ctrl then press Esc.

Set The Display Contrast

Adjusting screen contrast lightens or darkens the characters to make them visible at a comfortable level. The contrast is incremented or decremented one step each time the contrast key is pressed.

• To adjust screen contrast, locate the <F6> key at the top of the keypad. Adjust the display contrast by pressing the:

- 2^{nd} key ¹, then the $\langle F6 \rangle$ key
- Use the Up Arrow and Down Arrow keys to adjust contrast until the display lightens or darkens to your satisfaction.
- Press the Enter key to exit this mode.

Set the Display Backlight Timer

Note: Refer to the section titled "Power Modes" later in this guide for information relating to the power states of the MX3X.

Select **Start** | **Settings** | **Control Panel** | **Display** | **Backlight** tab. Change the parameter values and tap OK to save the changes.

The first option affects the MX3X when it is running on battery power only. The second option affects the MX3X when it is running on external power (e.g. AC adapter, cigarette adapter, powered cradle).

The default value for the battery power timer is 3 seconds. The default value for the external power timer is 2 minutes. The backlight will remain on all the time when both checkboxes are blank.

The transmissive color display backlight timer *dims the backlight* at the end of the specified time. The transflective monochrome display backlight timer *turns the backlight off* at the end of the specified time.

Set The Display Brightness

The brightness adjustment feature depends on the display type, color versus monochrome. Adjusting screen brightness lightens or darkens the background to make characters visible at a comfortable level. The brightness on a color display is incremented or decremented one step each time the arrow key is pressed until either the maximum or minimum brightness is achieved (8 steps). The brightness setting is recalled at power up.

Color -- To adjust screen brightness, locate the <F10> key at the top of the keypad. Adjust the display brightness by pressing the:

- 2^{nd} key², then the $\langle \text{F10} \rangle$ key
- Use the <Up Arrow> and <Down Arrow> keys to adjust brightness until the display lightens or darkens to your satisfaction.
- Press the <Enter> key to exit this mode.

Monochrome – The 2^{nd} key + F10 key sequence toggles the backlight from it's brightest (On) to it's dimmest (Off) readable settings.

The LED for this key blinks until the special editing mode (set volume, brightness or contrast) is complete.

² The LED for this key blinks until the special editing mode (set volume, brightness or contrast) is complete.

Set the MX3X Power Schemes Timers

Note: Refer to the section titled "Power Modes" later in this guide for information relating to the power states of the MX3X.

Select **Start** | **Settings** | **Control Panel** | **Power** | **Schemes** tab. Change the parameter values and tap OK to save the changes.

Battery Power Scheme

Use this option when the MX3X will be running on battery power only.

Switch state to User Idle:

Default is After 3 seconds

Switch state to System Idle:

Default is After 15 seconds

Switch state to Suspend:

Default is After 5 minutes

AC Power Scheme

Use this option when the MX3X will be running on external power (e.g. AC adapter, cigarette adapter, powered cradle).

Switch state to User Idle: Default is After 2 minute
Switch state to System Idle: Default is After 2 minutes

Switch state to Suspend: Default is 5 minutes

These mode timers are cumulative. The System Idle timer begins the countdown after the User Idle timer has expired and the Suspend timer begins the countdown after the System Idle timer has expired. When the User Idle timer is set to "Never", the power scheme timers never place the device in User Idle, System Idle or Suspend modes (even when the MX3X is idle).

Because of the cumulative effect, and using the Battery Power Scheme Defaults listed above:

- The backlight turns off after 3 seconds of no activity,
- The display turns off after 18 seconds of no activity (15sec + 3sec),
- And the MX3X enters Suspend after 5 minutes and 18 seconds of no activity.

Set The Audio Speaker Volume

Note: An application may override the control of the speaker volume. Turning off sounds saves power and prolongs battery life.

The speaker is located on the front of the MX3X above the Power button. The audio volume can be adjusted to a comfortable level for the listener. The volume is increased or decreased one step each time the volume key is pressed. The MX3X has an internal speaker and a jack for an external headset.

Using the Keypad

Note: Volume & Sounds (in Control Panel) must be enabled before the following key sequences will adjust the volume.

- To adjust speaker volume, locate the <F8> key at the top of the keypad. Adjust the speaker volume by pressing the:
- 2nd key³, then the <F8> key to enter Volume change mode.
- Use the <Up Arrow> and <Down Arrow> keys to adjust volume until the speaker volume is satisfactory.
- Press the <Enter> key to exit this mode.

Using the Touch Screen

Select **Start** | **Settings** | **Control Panel** | **Volume & Sounds** | **Volume** tab. Change the volume setting and tap OK to save the change. You can also select / deselect sounds for key clicks and screen taps and whether each is loud or soft.

As the volume scrollbar is moved between Loud and Soft, the computer will emit a beep each time the volume increases or decreases in decibel range.

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³ The LED for this key blinks until the special editing mode (set volume, brightness or contrast) is complete.

Enter Data

You can enter data into the MX3X through several different methods. The Scanner window provides barcode data entry, the RS-232 or the IR port are used to input/output data, and the keypad and stylus provide manual entry.

Keypad Entry

The keypad is used to manually input data that is not collected otherwise. Almost any function that a full sized computer keyboard can provide is duplicated on the MX3X keypad but it may take a few more keystrokes to accomplish a keyed task.

Almost every key has two or three different functions. The primary alpha or numeric character is printed on the key.

For example, when the 2nd key is selected pressing the desired second-function key will produce the 2nd character. The specific 2nd character is printed above the corresponding key. The 2nd key LED will illuminate and turn off after the next keypress (unless when setting volume or contrast – the 2nd key LED will flash at those times).

Please refer to "Appendix A - Key Maps" for instruction on the specific keypresses to access all keypad functions.

Stylus Entry

Note: This section is directed to the MX3X user. The assumption is that the unit has been configured and the touch panel calibrated by the System Administrator prior to releasing the MX3X for use. The touch screen should be calibrated before initial use.

Note: Always use the point of the stylus for tapping or making strokes on the display. Never use an actual pen, pencil or sharp object to write on the touch screen.

The stylus performs the same function as the mouse that is used to point to and click elements on a desk top computer. The stylus is used in the same manner as a mouse – single tap or double tap to select menu options, drag the stylus across text to select, hold the stylus down to activate slider bars, etcetera.

Hold the stylus as if it were a pen or pencil. Touch an element on the screen with the tip of the stylus then remove the stylus from the screen. The touch screen responds to an actuation force (touch) of 4 oz. (or greater) of pressure.

The stylus can be used in conjunction with the keyboard and scanner and an input/output device connected to one of the MX3X's serial ports.

- Touch the stylus to the field of the data entry form to receive the next data feed.
- The cursor begins to flash in the field.
- The unit is ready to accept data from either the keyboard, integrated scanner or a scanner connected to the serial port, if the scanner applet is configured correctly.

Input Panel

To show or hide the input panel, tap the Input Panel button (the icon looks like a keyboard and is shown in the System tray). Use the input panel to enter information in any program.

Integrated Laser Scanner Entry

Read all cautions, warnings and labels **before** using the laser scanner.

To scan with the integrated laser barcode reader (located on the endcap), point the laser window towards a barcode and press the Scan button. You will see a red laser beam strike the barcode. The MX3X has an SE923 scan engine.



Figure 13 Scan Beam

Align the red beam so that the barcode is centered within the beam. The laser beam must cross the entire barcode. Move the MX3X towards or away from the barcode so that the barcode takes up approximately two-thirds the width of the beam.



Figure 14 Scanner LED Location

The SCNR LED turns red when the laser beam is on. Following a barcode scan and read the SCNR LED turns green and the MX3X beeps, indicating a successful scan.

The laser and SCNR LED automatically turn off after a successful or unsuccessful read. The scanner is ready to scan again when the Scan key is pressed.

Large barcodes can be scanned at the maximum distance. Hold the imager closer to small barcodes (or with bars that are very close together).

When the scan is successful, the Scan LED turns green, then switches off, and the currently running application may produce a distinctive audible tone.

When the scan is unsuccessful, the SCNR LED remains red until the 10 second timeout occurs or the Scan key is released. The currently running application may produce distinctive audible tones. Check the following:

- Check the barcode for marks or physical damage e.g. ripped label, missing section, etc.
- Try scanning test symbols of the same code type at different distances and angles.
- Is the scan aperture unscratched and unsoiled?

Charge Battery in LXE Multi-Charger Plus

The Main Battery can be charged in the MX3 Multi-Charger Plus. The Multi-Charger Plus will analyze the battery using the analyze charging cup. The MX3X Backup Battery is recharged when the MX3X has a fully charged battery or is receiving external power.

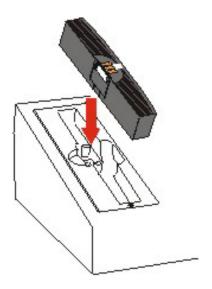


Figure 15 Insert Main Battery in Charging Cup

Insert the Main Battery into any charging cup in the Multi-Charger Plus. The retaining clip will snap the battery into place in the charging cup.

Do not "slam" or slide the battery into the charging cup. Failure to follow these instructions can result in damage to the main battery or the Multi-Charger Plus.



Please refer to the MX3 Multi-Charger Plus Operator's Guide for instruction when using the charger / analyzer with the MX3X Main Battery.

Important Battery Charger Version Information

Battery Chargers Affected



MX3 Multi-Charger Plus 9000A377CHGR5

Use LXE V1.01 Upgrade Kit



MX3 Multi-Charger MX3A378CHGR6 (Not Available After 7-2003)

Use LXE V1.20 Upgrade Kit

The MX3X Main Battery Pack may be incompatible with MX3 Battery Chargers that have not been upgraded to V1.20 or V1.01. To successfully charge the MX3X Battery Pack, pre-existing MX3 Battery Chargers must be returned to LXE for a software upgrade.

Using a Multi-Charger Plus Battery Charger with the MX3X Battery Pack

The MX3X device is designed to use a 2.2Ahr Main Battery Pack to achieve 8+ hours of continuous operation.

If the MX3X battery pack is inserted into a MX3 Multi-Charger Plus (without the V1.01 upgrade) bay, the battery may not become fully charged in the 4 hour time limit and a red LED illuminates after 4 hours have elapsed indicating a Battery Problem.

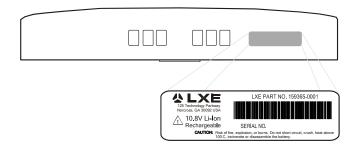
Remove and reinsert the MX3X battery pack into the same charging bay. This will reset the timer and allow the charger to complete the charge cycle for the battery in approximately 2 hours..



LXE does not supply an external timing device with the Multi-Charger Plus.

Battery Label Location

The MX3X battery pack has a silver label (see the figure below for the location of the label on the main battery packs).



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Getting Help

All LXE guides are now available on one CD and they can also be viewed/downloaded from the LXE website. Contact your LXE representative to obtain the LXE Manuals CD.

You can also get help from LXE by calling the telephone numbers listed on the LXE Manuals CD, in the file titled "Contacting LXE". This information is also available on the LXE website www.lxe.com.

Explanations of terms and acronyms used in this guide are located in the file titled "Glossary" on the LXE Manuals CD.

Manuals

MX3X Reference Guide

MX3 Cradle Reference Guide

MX3 Multi-Charger Plus Operator's Guide

Accessories

	_	
Tatharad	Scan	nare

Scanner, LS3203, Ext. Range, 8' Cbl, US.	8011LS3203ERC08DUS
Scanner, LS3203, Ext. Range, 8' Cbl, EC.	8011LS3203ERC08DEC
Scanner, LS3203, Ext. Range, 20' Cbl, US	8011LS3203ERC20DUS
Scanner, 530092IP, 7' Cbl, WW.	8110IP530092C07DWW
Scanner, 530092IP, 15' Cbl, US.	8110IP530092C15DUS
Scanner, P302FZY, 8' Cbl, WW	8200A326SCNRP3028DA9F
Scanner, P302FZY, 20' Cbl, US	8200A327SCNRP30220DA9F
Scanner, P304PRO, 8' Cbl, WW	8210A326SCNRP3048DA9F
Scanner, P304PRO, 20' Cbl, US	8210A327SCNRP30420DA9F
Scanner, Powerscan SR, 8' Cbl, WW	8300A326SCNRPWRSR8DA9F
Scanner, Powerscan SR, 12' Cbl, US	8300A327SCNRPWRSR12DA9F
Scanner, Powerscan LR, 8' Cbl, WW	8310A326SCNRPWRLR8DA9F
Scanner, Powerscan LR, 12' Cbl, US	8310A327SCNRPWRLR12DA9F
Scanner, Powerscan XLR, 8' Cbl, WW	8320A326SCNRPWRXLR8DA9F
Scanner, Powerscan XLR, 12' Cbl, US	8320A327SCNRPWRXLR12DA9F

Holding Accessories

Strap, Hand, Nylon	2381A49/HANDS1RAP
Nylon Holster for use with Belt	2381A401HOLSTER
Nylon Hip Flip	9000A408HIPFLIP
Adjustable Belt for Hip Flip – Velcro ends	9200L67
Nylon Case with Shoulder Strap	9000A409CASE
Stand, Scanner For 5300IP Series, Tethered	8100A001STAND
Bracket, Mounting LS300	8010A001BRKT
Holster, Hood, Nylon, 5300IP Series, Tethered	8100A401HLSTRHOOD

Miscellaneous

9000A501PASSIVEPEN
9000A501PASSIVEPEN
MX3XA502PROTFILMMONO
MX3XA503PROTFILMCOLR
9000A503HEADSET

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Battery Chargers and Battery

Battery Charger/Analyzer, US V1.01 9000A377CHGR5US
Battery Charger/Analyzer, WW 9000A377CHGR5WW
Battery, Li-Ion MX3A378BATT

Cradles and Power Supplies

MX3X Desktop Cradle ⁴ See Note 2381A002DESKCRADLE Vehicle Mount Cradle 4 2381A003VMCRADLE Vehicle Mount Cradle, 19.2K baud rate 9000A005VMCRADLE19KB Power Supply, Vehicle Cradle, 9-30VDC 2381A054CRDLDCPWR30V Power Supply, Vehicle Cradle, 30-80VDC 2381A055CRDLDCPWR80V AC Power Supply, External, US 2335A301PSACUS AC Power Supply, External, AC, International 9000A302PSACWW Power Cord, AC, US 9000A066CBLPWRAC P/S, External, Cigarette Lighter Adapter 9000A303PSCIGLTADPT Power Adapter, Bare Wire 12 VDC 1300A053CBL12ML3 Power Adapter, 24-72 VDC, Bare Wire (Vehicle) 9000A316PS24V72VMX13 Power Adapter, 110-240 VAC 1300A303PSACWW

Cables for Cradle and MX3X Serial Ports

Cable, Null Modem, PC, D9F to D9F, 6' 9000A054CBL6D9D9
Cable, Null Modem, Printer/PC, D9F to D25F, 6' 9000A053CBL6D9D25
Cable, USB Host D9F to USB, 6' MX3XA068CBLD9USBHOST
Cable, USB Client D9F to USB, 6' MX3XA069CBLD9USBCLNT
Cable, D9F to D9F for ActiveSync only, 6' See Note MX3XA070CBLD9RS232AS

Note: The MX3X Desktop Cradle supports RS-232 ActiveSync communication via the MX3XA070CBLD9RS232AS cable.



- 1 Cable, USB Host D9F to USB, 6' (Endcap only)
- 2 Cable, D9F to D9F for ActiveSync only, 6' (Cradle use only)
- 3 Cable, USB Client D9F to USB, 6' (Endcap only)



E-EQ-MX3XOGWW-A

MX3X User's Guide

⁴ Power Adapter Required.

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MX3X User's Guide

The MX3X Hand Held Computer

Touch Screen Display



Figure 16 MX3X Touch Screen Display

The MX3X Touch Screen Display is an LCD unit capable of supporting VGA graphics modes. Display size is 640 x 240 pixels. The touch screen allows signature capture and touch input. A pen stylus is included. The touch screen responds to an actuation force (touch) of 4 oz. of pressure (or greater).

There are two types of displays available: transflective greyscale monochrome and transmissive color. The transmissive color display is optimized for indoor lighting. It cannot be used without the backlight. The transflective monochrome display is optimized for outdoor use but may also be used indoors. The monochrome display has an electroluminescent backlight. The color display has a CCFL (Cold-Cathode Fluorescent Lighting) backlight.

The transflective display appears to have a greenish hue when the display is off. The transmissive display appears black when the display is off.

Applying the Protective Film to the Display

First, clean the display of fingerprints, lint particles, dust and smudges.

Remove the protective film from it's container. Remove any protective backing from the film sheet by lifting the backing from a corner of the film. Discard the backing.

Apply the film to the screen starting at one side and smoothing it across the display. If air bubbles appear, raise the film slightly and continue smoothing the film across the display until it covers the glass surface of the display.

If dust, lint or smudges are trapped between the protective film and the glass display, remove the protective film, clean the display and apply the protective film again.

Display Backlight

The Display backlight is turned on when the unit returns from Suspend Mode. The display backlighting feature is programmable and activates based on power source and amount of idle time before entering the Suspend state.

See the section titled "Set the Display Backlight Timer" in the previous section "Quick Start."

Touch Screen Calibration

If the MX3X is not responding properly to pen touch taps, the touch screen may need to be recalibrated. Press <Ctrl>+<Esc> to force the Start Menu to appear, if needed. Contact your System Administrator for assistance.

To recalibrate the screen, select **Start** | **Settings** | **Control Panel** | **Stylus** | **Calibration**.

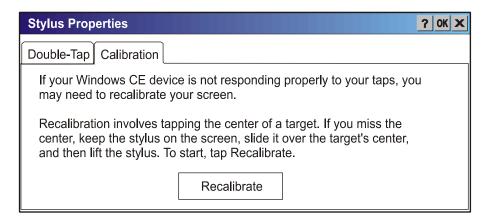


Figure 17 Touch Screen Recalibration

To start, tap Recalibrate. Follow the instructions on the screen and press the Enter key to save the new calibration settings or press <Esc> to cancel or quit.

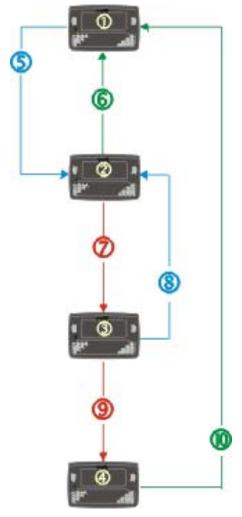
See the "MX3X Reference Guide" for complete instructions.

Cleaning the Glass Display/Scanner Aperture

Note: These instructions are for components made of glass. If there is a removable protective film sheet on the display screen, remove the film sheet before cleaning the screen.

Keep fingers and rough or sharp objects away from the scan aperture and display. If the glass becomes soiled or smudged, clean only with a standard household cleaner such as Windex(R) without vinegar or use Isopropyl Alcohol. Do not use paper towels or harsh-chemical-based cleaning fluids since they may result in damage to the glass surface. Use a clean, damp, lint-free cloth. Do not scrub optical surfaces. If possible, clean only those areas which are soiled. Lint/particulates can be removed with clean, filtered canned air.

Power Modes



- 1 On
- 2 Suspend
- 3 Critical Suspend
- 4 Off
- 5 Power Button or Power Off Timer expires
- 6 Primary Event
- 7 Power fail. Also from Suspend (2) or On (1).
- 8 Restoration of power.
- 9 Backup battery and main battery dead
- 10 Power applied. New main battery installed or external power applied. Tap the Power button.

Note: After event 8, the only primary event (6) which functions is a power button tap.

Figure 18 Power Modes - On, Suspend, Critical Suspend and Off

Primary Events Listing

Any key on the keypad	COM1 activity
Stylus touch on the touch screen	COM2 activity
Power button tap	COM3 activity
PC card activity	USB client connection
External power connection	Scanner activity

On Mode

The Display

When the display is On:

- the keyboard, touchscreen and all peripherals function normally
- the display backlight is on until the Backlight timer expires (default is 3 seconds) 15 seconds afterwards, the display turns off.
- when the Main Battery is hot-swapped, the display is turned Off.

The MX3X

After a new MX3X has been received, a charged Main Battery inserted, and the Power button tapped, the MX3X is always On until both batteries are drained completely of power.

When the Main Battery and Backup Battery are drained completely, the unit is in the Off mode. The unit transitions from the Off mode to the On mode when a charged Main Battery is inserted or external power is applied. Press the Power button to turn the device on.

User Idle Mode

Note: When the display backlight is Off, the unit is still On. The unit functions normally – tethered scanner trigger press or integrated scanner Scan key press will cause scans. Communications through the radio or serial ports continue.

User Idle timers are set using Start | Settings | Control Panel | Power | Schemes tab.

The display backlight is turned off when one of the following occurs:

- the user idle timer expires before a wakeup event takes place
- the Power button is tapped which immediately places the unit into Suspend Mode.

Display Backlight Suspend timers are set using **Start** | **Settings** | **Control Panel** | **Display** | **Backlight** tab.

Any of the following primary events will wake the display and display backlight:

Any key on the keypad	
Stylus touch on the touch screen	
Power button tap	

When the display backlight wakes up, the User Idle Timer begins the countdown again. When any of the above events occur prior to the timer expiring, the timer begins the countdown again.

The first display backlight wakeup key press or touch is sent to the operating system or running application. Once the display is On, the keyboard and touch screen function normally.

System Idle Mode

Note: When the display is Off, the unit is still On. The unit functions normally – tethered scanner trigger press or integrated scanner Scan key press will cause scans. Communications through the radio or serial ports continue.

System Idle timers are set using **Start** | **Settings** | **Control Panel** | **Power** | **Schemes** tab.

The display is turned off when the System Idle timer expires before a wakeup event takes place.

The Power button is tapped which immediately wakes the unit up.

The Status LED blinks green when the Display enters Off mode.

Any of the following primary events will wake the display and display backlight:

Any key on the keypad
Stylus touch on the touch screen
Power button tap

When the display wakes up, the System Idle Timer begins the countdown again. When any of the above events occur prior to the timer expiring, the timer begins the countdown again.

The first display wakeup key press or touch is sent to the operating system or running application. Once the display is On, the keyboard and touch screen function normally.

Suspend Mode

The Suspend mode is entered when the MX3X is inactive for a predetermined period of time, the user taps the Power button or the user selects **Start | Suspend**.

MX3X Suspend timers are set using **Start** | **Settings** | **Control Panel** | **Power** | **Schemes** tab.

Any of the following can be configured to wake the unit and reset the display and display backlight timers:

Any key on the keypad	PC card activity
Power button tap	Stylus touch on the touch screen
COM1 CTS	External power connection
COM3 CTS	USB client connection

When the unit wakes up, the User Idle, System Idle and the Suspend timers begin the countdown again. When any one of the above events occurs prior to the Suspend timer expiring, the Suspend timer begin the countdown again.

The first wakeup key press or touch is not sent to the operating system or running application – the first keypress or touch is only used to wake up the unit and reset the timers. Once the unit has transitioned from the Suspend mode to the On mode, the unit, keyboard and touch screen function normally.

Critical Suspend Mode

The purpose of the Critical Suspend mode is to reduce power consumption of the MX3X to a low level that still retains the contents of SDRAM. The unit enters Critical Suspend Mode only when the Main Battery has failed or is hot-swapped. The Backup Battery is supplying power to the unit during Critical Suspend Mode.

When hot-swapping (the Main Battery is removed), the display turns off, the BATT M LED begins to flash red, all peripherals are shut down, the CPU clock is stopped, and power is removed from the PCMCIA card.

When the MX3X is in the Critical Suspend state (the Main Battery is in place and the unit is being powered by the Backup Battery), the display turns off, the BATT M LED begins to flash red, all peripherals are shut down, the CPU clock is stopped, and power is removed from the PCMCIA card. The MX3X is saving the state prior to the Main Battery failing and cannot be used.

If a new fully charged main battery is installed before the Backup Battery is depleted (approximately 5 minutes) the MX3X transitions to the Suspend state. To resume operation tap the Power key.

If the Backup Battery is depleted before a fully charged Main Battery is inserted, the MX3X immediately turns itself Off and all unsaved information is lost. Insert a fully charged Main Battery and press the Power button to turn the MX3X On.

Off Mode

The unit is in Off Mode when the Main Battery and the Backup Battery are depleted.

Insert a fully charged Main Battery and press the Power button to turn the MX3X On.

Scan Buttons



Figure 19 Programmable Buttons

There are two buttons, one on each side of the display. The buttons are programmable and function as an integrated barcode scanner key or a numeric keypad Enter key. The Scan keys have no effect on scanners tethered to the MX3X. When there is no integrated scanner installed, both buttons default to Enter buttons (with the exception of IBM 5250 terminal emulation devices – in this case, the left button is marked "Field Exit").

Scan Buttons and the SCNR LED

The SCNR LED, located above the keypad, illuminates during an integrated barcode scanner function. It is affected by internal scanner algorithms.

- Red scanning.
- Green good scan.
- Unlit scanner is inactive.

The MX3X Scan buttons have no effect on tethered barcode scanners (connected to a serial port). Tethered scanners read barcode scans only when the trigger on the tethered scanner is pressed.

Button Settings

To edit the button parameters, select **Start | Settings | Control Panel | Scanner**. Change the parameter values and tap OK to save the changes.

The default setting for the right button is Enter. The default setting for the left button is Scan. When the MX3X does *not* have an integrated scanner, both buttons default to Enter keys and the Scan selection is greyed out.

Each button can be setup as:

- Disabled no response when pressed
- Scan initiate a barcode scan sequence (integrated scanner only)
- Enter Key
- Tab Key
- Field Exit (IBM 5250 / TN5250 devices only)
- Virtual Key (default values F20 and F21)

Note: Refer to the "MX3X Reference Guide" before programming the Scan / Enter buttons. The Reference Guide also contains instructions for the Key Map Utility for the keypad.

Endcaps and COM Ports

The MX3X supports three COM port options. Two external serial ports are dependent on the end cap chosen. A third serial port is used to support an infrared transciever (barcode reader). An additional endcap configuration supports serial and USB "slave" input/output at 1.5 MBps.

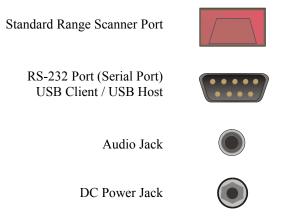


Figure 20 Endcap Connectors

The COM 2 port is always the IR port on the back of the MX3X, regardless of the type of endcap installed. COM 2 can only be accessed when a tethered scanner is connected to the RS-232 port on the cradle, and the MX3X is in the cradle. The cradle does not need to be powered by an alternate AC or DC power source. Tethered scanners receive power from the MX3X's Main Battery.

On the Standard Range Scanner / Serial Port endcap COM 3 is the Integrated Scanner port. The integrated barcode scanner scans only when the MX3X Scan button is pressed. To edit Scanner Com Port parameters, select **Start** | **Settings** | **Control Panel** | **Scanner**. Change the parameter values and tap OK to save the changes.

On the Dual Serial Port endcap the COM1 port is the serial port on the right side of the endcap when the display is facing you.

Endcap Combinations

Left Port	Right Port
Serial COM3	Serial COM1
Serial COM3	USB Client
USB Host	Serial COM1
USB Host	USB Client
Scanner	Serial COM1
Scanner	USB Client

Rear IR Port is COM2

Barcode scanners, tethered to the serial port on a cradle, send ASCII data to the MX3X in the cradle through the COM2 Port.

Tethered Scanners

Note: Do **not** connect a tethered scanner cable to an MX3X USB-C or USB-H labeled endcap port. These ports cannot power a tethered scanner.

The MX3X Scan buttons have no effect on tethered barcode scanners (connected to a serial port). Tethered scanners read barcode scans only when the trigger on the tethered scanner is pressed.

To set the MX3X to use a tethered scanner, select **Start** | **Settings** | **Control Panel** | **Scanner** | **COM1** (or 2 or 3).

Click the "Power on Pin 9 (+5V)" checkbox for the COM port selected. The COM port that accepts the scanner data can be configured for data rate, parity, stop bits and data bits.



Please refer to the tethered scanner manufacturer's guide for instruction when using the tethered scanner with the MX3X.

Note: Please refer to the section titled "Accessories" for the list of LXE supported tethered scanners.

USB Port

The USB port requires a DB9 to USB cable (available from LXE). The serial port/USB port also supports serial data transfer (using a null modem cable) and non-host USB I/O at 1.5 Mbps. The MX3X automatically detects the cable configuration. Refer to section titled "Accessories" in this guide for part numbers for the DB9-USB cable and the null modem cable.

IR Port



Figure 21 IR Port (COM 2)

The InfraRed (IR) port provides a means of transferring information to a device with a similar port and the proper software. The IR port can be used to communicate with printers or a host computer with the use of an adapter. The IR Port is specified as COM 2 and is a bi-directional half-duplex infrared port. It supports the Slow IrDA (Infrared Data Access) PHY Layer standard that allows communication speeds up to 115k baud.

When sending data through the IR port to another MX3X's IR port, make sure both units are in close proximity to each other. The IR operating envelope has a distance range of 2 cm (.79 inches) to 1 meter (3.2 feet) with a viewing angle of 30 degrees.

See the "MX3X Reference Guide" for complete instructions when sending data through the IR port.

Note: ActiveSync will transfer files over the RS-232 connector on the cradle. The cradle performs a "file pass through" to the IR port on the back of the MX3X.

The Keypad 33

The Keypad

The QWERTY keypad is phosphorescent. A phosphorescent keypad does not use a keypad backlight but glows in dim/dark areas after exposure to a light source.

The keypad is installed and configured by LXE.



Figure 22 The QWERTY Keypad

The keymaps (keypress sequences) are located in "Appendix A - Key Maps."

Key Functions

Key	Function
Scan	(MX3X's with an active Laser Scanner aperture in the endcap only.) The Scan key activates the scanner when a scanner endcap is installed and the Scan button is pressed. The internal scanner scans only when the Scan button is pressed. A Scan button press has no effect on externally attached scanners. See previous section titled "Programmable Buttons." When there is no integrated scanner endcap, the Scan keys function as Enter keys.
Enter	The Enter key is used to confirm a forms entry or to transmit information. How it is used is determined by the application running on the computer.
2 nd	The 2nd key is used to activate the 2 nd functions of the keypad. Printed on many keys at the upper left corner are small characters that represent the 2 nd function of that key. Using the 2 nd key activates the second key function. Note that the 2 nd key only stays active for one keystroke. Each time you need to use the 2 nd function you must press the 2 nd key. To cancel a 2 nd function before pressing another key, press the 2 nd key again. When the 2 nd function is active, the 2 nd LED illuminates.
Ctrl	The Ctrl key enables the control functions of the keypad. This function is similar to a regular keyboard's Control key. Note that the Ctrl key only stays active for one keystroke. Each time you need to use a Ctrl function, you need to press the Ctrl key before pressing the desired key.
	When the Ctrl function is active, the Ctrl LED illuminates.

The Keypad

Key	Function
Alt	The Alt key enables the alternate functions of the keypad. This function is similar to a regular keyboard's Alt key. Note that the Alt key only stays active for one keystroke. Each time you need to use an alternate function, you need to press the Alt key before pressing the desired key.
	When the Alt function is active, the Alt LED illuminates.
Shft	The Shft key enables the shifted functions of the keypad. This function is similar to a regular keyboard's Shift key. Note that the Shift key only stays active for one keystroke. Each time you need to use a Shifted function, you need to press the Shft key before pressing the desired key. When the Shft function is active, the Shft LED illuminates.
	When the Shft key is pressed the next key is determined by the major key legends, i.e., the alpha keys display lower case letters when CAPS is On alpha characters are capitalized. For example, when CAPS is on and the Shft key and the G key are pressed, a lower case g is displayed.
Spc	The Spc key adds a space to the line of data on the display. This function is similar to a regular keyboard's Spacebar. Note that the Spc key only stays active for one keystroke.

Field Exit Key Function (IBM 5250/TN5250 Only)



The Field Exit key is used to exit an input field. If the field is an Auto Enter field, the auto transmit function is activated. This key function is present on the IBM 5250/TN5250 specific keypad only.

Caps Key and CapsLock Mode

This function is similar to a regular keyboard's CapsLock key. Note that the CapsLock mode stays active until the CapsLock key sequence is pressed again. Each time you need to use a Caps function, you need to press the Caps key sequence first. To cancel a CapsLock function press the Caps key sequence again. When the CapsLock mode is active, the Caps LED illuminates.

The CapsLock key sequence is $<2^{nd}>+<F1>$.

- No CapsLock AND No Shift keypress result is a lowercase letter.
- CapsLock OR Shift result is an uppercase letter.
- CapsLock AND Shift keypress result is a lowercase letter.

Keypress Sequences

See Appendix A for all key press sequences.

Custom Key Maps

The System Administrator creates Custom Key Maps for the MX3X. To activate the Custom keymap, select **Start | Settings | Control Panel | Keyboard** icon. Select the Custom keymap from the keyboard popup menu, and close the control panel with the OK button.

To return to the default keymap, select **0409** from the keymap popup and click OK.

The Keypad 35

LED Functions



Figure 23 LED Functions

Across the top of the keypad are LEDs that provide visual cues to current computer operation. When the LED is not illuminated, the function is inactive.

LED	When illuminated
2nd	The next keypress is a 2 nd keypress. Orange when on Blinks orange during configuration key sequence.
ALT	The next keypress is an ALT keypress. Orange when on and unlit when off.
CTRL	The next keypress is a CTRL keypress. Orange when on and unlit when off.
SHFT	The next letter is the uppercase letter on alpha keys and the shifted character on the numeric keypad keys. Orange when on and unlit when off.
CAPS	Uppercase letters are active until the CAPS key sequence is pressed again. • Orange when on and unlit when off.
SCNR	Barcode scanner function, affected by both tethered scanners and the scanner endcap. Red - scanning. Green - good scan. Unlit - scanner is inactive.
BATT B	Backup Battery. When illuminated, the backup battery is charging. When unlit, the Backup Battery is not charging
STAT	 Status Indicator. Yellow – device is booting up. Blinking Green when display Suspend state begins.
BATT M	 Main Battery. When illuminated, main battery capacity is low. Red – low battery. Blinking Red – power fail. Unlit - Main Battery is fully charged.
CHGR	Charger. When on, the MX3X is receiving external power either from the DC power jack or the MX3X is seated in a powered cradle. Red - Main Battery is charging. Green - battery charge is complete and the MX3X is connected to external power through the power jack or a powered cradle.

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36 Batteries

Batteries

Note: New batteries must be charged prior to use. If the Main Battery and Backup Battery are depleted, the computer reverts to factory default values. RF configuration parameters will need to re-entered when the depleted Main Battery is replaced. The Backup Battery is eventually recharged by the Main Battery.

The MX3X computer is designed to work with a Lithium-Ion (Li-ion) battery from LXE. Under normal conditions it should last approximately eight to ten hours before requiring a recharge. The more you use the scanner or the RF transmitter, the shorter the time required between battery recharges. The MX3X keeps date and time valid for a minimum of four days using a fully charged Backup Battery and a Main Battery that has reached the Low Warning point.

Main Battery

The main battery has a rugged plastic enclosure that is designed to withstand the ordinary rigors of an industrial environment. Exercise care when transporting the battery making sure it does not come in contact with excessive heat or any power source other than an LXE MultiCharger or MX3X unit.

Backup Battery

The internal Nickel Cadmium (NiCd) backup battery provides power to the unit for a short amount of time when the main battery has been depleted, removed or has failed. The backup battery requires no user intervention. Replacement is performed by LXE.

Note: An uninterrupted external power source (wall AC adapters or DC/DC converters) transfers power to the MX3X internal charging circuitry which, in turn, recharges the Main Battery and Backup Battery.

Battery Hot-Swapping

When the battery power level is low, the BATT-M LED illuminates and remains on. You can replace the main battery without shutting the unit off. Simply replace the discharged battery with a fully-charged battery. The backup battery will retain data during a main battery hot-swap for at least five minutes.

Battery Chargers 37

Battery Chargers

Note:

LXE recommends that the correct MX3 Multicharger Plus always be used to charge the MX3X main battery pack. The Multicharger plus label is located on the back of the device and the charger must have been upgraded to V1.01. Please contact your LXE representative for further information about the V1.01 upgrade kit, if needed.

LXE Multi-Charger Plus



Figure 24 MX3 Multi-Charger Plus

The Main Battery can be charged in the MX3 Multi-Charger Plus. The Main Battery charges the Backup Battery using the MX3X's internal charging circuitry.

External Power Supply (Optional)

The MX3X DC power jack is located on the endcap.

The cradle power jack is located on the back of the cradle. The MX3X (and the Desktop Cradle) connect to any of the following power supplies through the DC Power Jack.

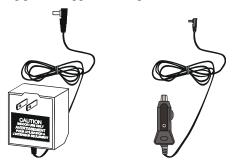


Figure 25 US AC/DC 12V Power Supply and Cigarette Lighter Adapter



Figure 26 International AC/DC 12V Power Supply

Note: When the MX3X is receiving power through a cradle connected to external power, the cradle's Status LED and the MX3X's CHGR LED are illuminated.

38 Cradles

Cradles

Note: The "MX3 Cradle Reference Guide" contains cradle installation and technical information.

There are two types of cradles: a desktop cradle for table top charging/communication applications and a vehicle mount cradle for vehicle mounted charging/communication applications.

The cradles give the MX3X the ability to communicate with a host computer and other equipment. In addition, using wall AC adapters or DC/DC converters, the cradle transfers power to the internal charging circuitry of the MX3X and, in turn, the MX3X recharges the Main Battery.

The MX3X can be either on or in Suspend mode while in the cradle. The MX3X can be inserted and removed from the cradle with one hand.

Cables are available from LXE for connecting the cradle to a printer, a personal computer or a barcode printer. Tethered scanners (for RS-232 cradle connection) are also available from LXE.

Status LED

An LED indicator on the front of the cradle shows the status of the cradle. When the indicator is not illuminated, there is no power applied to the cradle.

Cradle Power	Orange	External power applied to the cradle.
Docked	Green	Power applied to the cradle and charging connection made with the MX3X.
IR Active	Red	IR communication is active.

Desktop Cradle

Note: LXE recommends the correct Desktop Cradle always be used to store / charge / communicate with the MX3X. The MX3X Desktop Cradle label is located on the bottom of the device. The MX3X Desktop cradle Product Number is 2381A002DESKCRADLE.

Lower the MX3X straight into the cradle, tilt it forward and then let it rest backward in the cradle. Ensure that the MX3X is properly seated on the charging contacts. The CHGR LED will illuminate green when the MX3X is correctly seated in the cradle. The CHGR LED will illuminate red when the MX3X main battery is being charged (in a cradle connected to an external power source). To remove the MX3X, tilt the MX3X forward and lift it straight up out of the cradle.

Note: Do not "slam" or slide the MX3X sideways into the cradle. Damage may result.

Connectors

The Power connector is located on the back of the cradle in the top left hand corner. The cradle can be powered, if required, by an LXE US AC Adapter or an LXE International AC Adapter. When powered, the cradle transfers power to the internal charging circuitry of the MX3X allowing it to recharge the Main Battery. A powered cradle supports RS-232 and IR communications.

Cradles 39

The RS-232 connector is located in the back center of the cradle. When the MX3X is properly docked, the bi-directional half-duplex transceivers in the MX3X and cradle are aligned through their IR windows. The half-duplex IR signals from the MX3X are converted to RS-232 signals in the cradle and available at this connector.



Figure 27 ActiveSync Cable Connected to Serial port on Cradle

Note: The MX3X Desktop Cradle supports RS-232 ActiveSync communication via the MX3X4070CBLD9RS232AS cable.

Vehicle Mount Cradle

This cradle is specifically designed for vehicle mount applications. The cradle restrains the MX3X and isolates the computer from shock and vibration. The MX3X is inserted into the cradle by placing the base of the unit in the pocket and then firmly pressing the unit backwards until the release mechanisms latch and hold the unit in the cradle. The MX3X is removed from the cradle by pressing the release mechanisms and pulling the MX3X up and away from the cradle.

Connectors

The Power connector is located on the back of the cradle below and to the left of the RS232 port. The cradle is powered by either a vehicle's 12V battery or from an approved accessory for vehicles with higher voltage (24 to 60 VDC) batteries. When powered, the cradle transfers external power to the MX3X, which in turn, recharges the main battery. A powered cradle allows RS-232 and IR communication.

The RS-232 connector is located on the back of the cradle. When the MX3X is properly docked, the bi-directional half-duplex transceivers in the MX3X and cradle are aligned through their IR windows. The half-duplex IR signals from the MX3X are converted to RS-232 signals in the cradle and available at this connector.

Note: ActiveSync will transfer files over the RS-232 connector on the vehicle cradle.

40 Cradles

Appendix A Key Maps

Keypad



Note: The key mapping in this appendix relates to the physical keypad on the MX3X. See section titled "Input Panel" for the on-screen keypad.

Key Map 101-Key Equivalencies

Note: This key mapping is used on hand held computers that are NOT running an LXE Terminal Emulator. When using a sequence of keys that includes the 2^{nd} key, press the 2^{nd} key first then the rest of the key sequence.

Note: When the computer boots, the default condition of NumLock is On and the default condition of Caps (or CapsLock) is Off. The Caps (or CapsLock) condition can be toggled with a 2nd+F1 key sequence. The CAPS LED is illuminated when CapsLock is On.

To get this key	Press These Keys and Then					Press this key
To get this key	2 nd	Shift	Ctrl	Alt	CapsLock	Tress this key
Contrast	Х					F6
Volume	Х					F8
Backlight	Х					F10
2 nd						2 nd
Shift						Shft
Alt						Alt
Ctrl						Ctrl
Scan ⁵						Scan
Esc						Esc
Space						Spc
Enter						Enter
CapsLock (Toggle)	х					F1

⁵ Left Scan key default value is Scan. Right Scan key default value is Enter.

E-EQ-MX3XOGWW-A

To get this key	Press These Keys and Then				d Then	Press this key
To get tills key	2 nd	Shift	Ctrl	Alt	CapsLock	i ress tills key
Back Space						BkSp
Tab						Tab
BackTab	х					Tab
Break	х					F2
Pause	х	Х				F3
Up Arrow						Up Arrow
Down Arrow						Down Arrow
Right Arrow						Right Arrow
Left Arrow						Left Arrow
Insert	х					BkSp
Delete	х					DOT
Home	х					Left Arrow
End	х					Right Arrow
Page Up	х					Up Arrow
Page Down	х					Down Arrow
ScrollLock	х	Х				F4
F1						F1
F2						F2
F3						F3
F4						F4
F5						F5
F6						F6
F7						F7
F8						F8
F9						F9
F10						F10
F11	х	Х				F1
F12	х	Х				F2
а					Off	Α
b					Off	В
С					Off	С
d					Off	D
е					Off	E
f					Off	F
g					Off	G

To get this key	Press These Keys and Then			Then	Press this key	
. o got and noy	2 nd	Shift	Ctrl	Alt	CapsLock	riess tills key
h					Off	Н
i					Off	I
j					Off	J
k					Off	K
1					Off	L
m					Off	М
n					Off	N
0					Off	0
р					Off	Р
q					Off	Q
r					Off	R
S					Off	S
t					Off	Т
u					Off	U
V					Off	V
W					Off	W
Х					Off	Х
у					Off	Υ
Z					Off	Z
A		х				А
В		Х				В
С		Х				С
D		х				D
E		х				E
F		х				F
G		х				G
Н		х				Н
I		х				I
J		х				J
K		х				K
L		х				L
M		х				M
N		х				N
0		х				0
Р		х				Р

To get this key		Press 1	Press this key			
To got tills ney	2 nd	Shift	Ctrl	Alt	CapsLock	1 1000 timo koy
Q		Х				Q
R		Х				R
S		Х				S
Т		Х				Т
U		Х				U
V		Х				V
W		Х				W
Х		Х				Х
Υ		Х				Y
Z		Х				Z
1						1
2						2
3						3
4						4
5						5
6						6
7						7
8						8
9						9
0						0
DOT						DOT
<	х					0
[х					1
]	х					2
>	х					3
=	х					4
{	х					5
}	х					6
1	х					7
-	х					8
+	х					9
*	х					I
: (colon)	х					D
; (semicolon)	х					F
?	х					L

To get this key	Press These Keys and Then					Dunca thin key
To get this key	2 nd	Shift	Ctrl	Alt	CapsLock	Press this key
	х					N
_ (underscore)	х					M
, (comma)	х					J
' (apostrophe)	х					Н
~ (tilde)	х					В
1	х					S
[х					Α
и	х					G
!	х					Q
@	х					W
#	х					E
\$	х					R
%	х					Т
٨	х					Υ
&	х					U
(х					0
)	х					Р

Appendix B Regulatory Notices and Safety Information

FCC Information:

This device complies with FCC Rules, part 15. Operation is subject to the following conditions:

- 1. This device may not cause harmful interference and
- 2. This device must accept any interference that may be received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning: Changes or modifications to this device not expressly approved by LXE, Inc., could void the user's authority to operate this equipment.

EMC Directive Requirements:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Industry Canada:

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouiller du Canada. Le present appareil numérique n'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numeriques de le Classe A préscrites dans le Reglement sur le brouillage radioélectrique édits par le ministere des Communications du Canada.

RF Safety Notice





This device is intended to transmit RF energy. In accordance with FCC and Industry Canada radio-frequency safety regulations, when operating this device with the Hip-Flip accessory, it should be used in accordance with the user's instructions. Additionally, the user should take care to ensure that a minimum separation distance of 15cm (6 in.) is maintained from the antenna to nearby persons. Use of this device in a manner not consistent with these instructions can increase the risk of RF exposure. This device is not to be co-located with other transmitters.

Notice:

The long term characteristics or the possible physiological effects of radio frequency electromagnetic fields have not been investigated by UL.

Li-Ion Battery

When disposing of the MX3X Main Battery, the following precautions should be observed: The battery should be disposed of promptly. The battery should not be disassembled or crushed. The battery should not be heated above 212°F (100°C) or incinerated.

R&TTE Directive Requirements (Applies only to equipment operated within the EU/EFTA)



Information to User

A label on the exterior of the device should resemble one of the labels shown below (the label contains the LXE part number of the installed radio card). The labels shown below and affixed to the device, identify where the device may be used and where its use is restricted. Use of a device is prohibited in countries not listed below or otherwise identified by the label. (May or may not include the 0560 Notifed Body No.)





Permitted for use in: Austria, Belgium, Denmark, Finland, Germany, Greece, Iceland, Italy, Ireland, Liechtenstein, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom

Permitted for use in France.

MX3X Computer Approvals:

Product	EMI / EMC Standards	Safety Standards
MX3X	FCC Part 15 Subpart B, Class A	UL 60950; CSA C22.2 No. 60950
	EN 55022:1998	CDRH: 21 CFR 1040.10 and 1040.11
	Class A	
	EN 55024:1998	EN 60950
	Industry Canada Class A	IEC 60825-1
		IEC 60950

Cradle Approvals:

Product	EMI / EMC Standards	Safety Standards
MX3 Table	FCC Part 15 Subpart B, Class A	UL 60950; CSA C22.2 No. 60950
MX3 Vehicle Mount	EN 55022:1998	
	Class A	
	EN 55024:1998	EN 60950
	Industry Canada Class A	
		IEC 60950

Transceiver:

Transceiver	RF Standards	Notes
6726 (LXE Model No.)	FCC Part 15, Subpart C FCC Part 2	Unlicensed Operation
	EN 300 328	Unlicensed Operation
	EN 300 826 IC-RSS 139	Requires License for Outdoor Use
	IC-RSS 102	
6816 (LXE Model No.) 2.4GHz Type II PCMCIA Card	FCC Part 15, Subpart C FCC Part 2	Unlicensed Operation
2.40112 Type II TewerA caid	EN 300 328 EN 300 826	Unlicensed Operation
	IC-RSS 139 IC-RSS 102	Requires License for Outdoor Use

LXE Transceiver LXE 6726 Declaration of Conformity



DECLARATION OF CONFORMITY

according to Directives:

1999/5/EC Radio Equipment and Telecommunications Terminal

Equipment and the mutual recognition of their conformity

93/68/EEC CE Marking Directive

Type of Equipment: Direct Sequence 2.4 GHz Wireless LAN Card

Brand Name or Trademark: LXE

Type Designation: LXE 6726

Manufacturer: LXE Inc.

Address: 125 Technology Parkway

Norcross, GA 30092-2993 USA

Year of Manufacturer: 2001

The following harmonized European Standards, technical specifications, or other normative

documents have been applied:

EMC:

EN 300 826 : 1997 Electromagnetic compatibility and radio spectrum matters

(ERM); Electromagnetic compatibility (EMC) standard for 2,4 GHz wideband transmission systems and high performance

radio local area network (Hiperlan) equipment

Radio:

EN 300 328-1 and -2: 2000-7 Radio Equipment and Systems (RES);

Wideband transmission systems;

Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band

and using spread spectrum modulation techniques

Safety:

EN 60950-2: 1992 + A1..A4 Safety of information technology equipment, including electrical

business equipment

We, LXE Inc., declare that the equipment specified above complies with all Essential Health and

Safety Requirements of the above Directives and Standards, as amended.

Place LXE Inc., Norcross GA USA

Date of issue 20 November, 2001 D. C. Massey
Lead Regulatory Engineer

LXE Inc. 125 Technology Parkway Norcross, GA 30092-2993 USA ph. 770/447-4224 fax 770/447-6928

Annex to DoC for LXE 6726

With regard to the use of external antennas

The LXE 6726 can be equipped with external antennas. The antennas listed have been evaluated with the LXE 6726 pursuant to ETSI EN 300 328, and therefore meet the definition of 'dedicated antenna' per ERC/REC 70-03 Appendix 1 Table 3; thus the requirement set forth in ERC/REC 70-03, Annex 3 are met by the LXE model 6726 transceiver.

Dedicated Antennas for use with LXE 6726

LXE P/N	Antenna Gain	Radio Power Level	Antenna Description
153180-0001	0 dBi	17 dBm	Omni, for LXE VX-series computers
155522-0001	0 dBi	17 dBm	Omni, for LXE MX1-series computers
155814-0001	0 dBi	17 dBm	Patch, for LXE MX1-series computers
157368-0001	0 dBi	17 dBm	Patch, for LXE MX3-series computers
99004-0027	1.8 dBi	17 dBm	3 dB Omni, for LXE model 2325 computer
DAC2450CT1	2.15 dBi	17 dBm	Omni, for LXE MX2-series computers
(Toko P/N)			
153179-0001	0 dBi	17 dBm	Omni, Access Point Antenna
153325-0001	0 dBi	17 dBm	Omni, Access Point Antenna
480424-0400	0 dBi	17 dBm	Omni, Access Point Antenna
153599-0001	3 dBi	17 dBm	Omni, Access Point Antenna
153600-0001	3 dBi	17 dBm	Omni, Access Point Antenna
480424-3404	3 dBi	17 dBm	Omni, Access Point Antenna
155846-0001	3 dBi	17 dBm	Spire® Access Point Antenna
155845-0001	6 dBi	13 dBm	Spire® Access Point Antenna
155311-0001	6 dBi	13 dBm	Patch, Access Point Antenna
480424-3411	6 dBi	13 dBm	Patch, Access Point Antenna
480424-3402	6 dBi	13 dBm	Patch, Access Point Antenna
481246-2400	6 dBi	13 dBm	Patch, Access Point Antenna
480424-1702	6 dBi	13 dBm	180° Directional, Access Point Antenna
480424-0411	9 dBi	7 dBm	Omni, Access Point Antenna
480429-2703	12 dBi	7 dBm	90° Directional, Access Point Antenna
480429-0411	12 dBi	7 dBm	Omni, Access Point Antenna
400004 0000	45 JD:	O dD	VACI. Assess Beint Autom
460601-3020	15 dBi	3 dBm	YAGI, Access Point Antenna
460602-3020	15 dBi	3 dBm	YAGI, Access Point Antenna
480429-0415	15 dBi	3 dBm	Omni, Access Point Antenna

Lead Regulatory Engineer

20 November 2001

LXE Inc. 125 Technology Parkway Norcross, GA 30092-2993 USA ph. 770/447-4224 fax 770/447-6928

LXE Transceiver LXE 6816 Declaration of Conformity



DECLARATION OF CONFORMITY

according to:

the R&TTE Directive; 99/5/EEC
The EMC Directive; 89/336/EEC

The Low Voltage Directive; 73/23/EEC and the Marking Directive; 93/68/EEC

Type of Equipment: DSSS 2.4GHz WLAN Radio Card

Brand Name or Trademark: LXE

Type Designation: 6816

Manufacturer: LXE Inc.

Address: 125 Technology Parkway Norcross, GA 30092 USA

The following harmonized European Norms have been applied:

EMC Standards:

EN 301 489-1: 07-2000 Electromagnetic compatibility and Radio spectrum Matters (ERM);

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17:07-2000 Electromagnetic compatibility and Radio spectrum Matters (ERM);

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for

Wideband data and HIPERLAN equipment

EN 55022: 1998 Limits and methods of measurement of radio disturbance

characteristics of information technology equipment

Radio Standards:

EN 300 328-1 and -2: 2000-7 Radio Equipment and Systems (RES);

Wideband transmission systems;

Technical characteristics and test conditions for data transmission equipment operating in the 2.4 GHz ISM band and using spread

spectrum modulation techniques

Safety Standard:

EN60950-1: 2001 Safety of information technology equipment, including electrical

business equipment

The product carries the CE Mark:

(€ ⊕

We, LXE Inc., declare that the equipment specified above complies with all Essential Health and Safety Requirements of the above Directives and Standards, as amended.

Date of issue: June 18, 2003

Cyril A. Binnom Jr. Regulatory Engineer

LXE Inc. 125 Technology Parkway Norcross, GA 30092-2993 USA

ph. 770/447-4224 fax 770/447-6928

Annex to DoC for LXE 6816

With regard to the use of external antennas

The LXE 6816 can be equipped with external antennas. The antennas listed have been assessed with the LXE 6816 pursuant to EN 300 328, and therefore meet the definition of 'dedicated antenna'. The table below lists the maximum output power setting for the radio module in order to result in a total EIRP of 100mW or less. Any combination of output power and a specific type of antenna resulting in an EIRP greater than 100mW is illegal for use throughout the Community and is outside the scope of this DoC. Antennas not listed below are also outside the scope of this DoC.

Dedicated Antennas for use with LXE 6816

LXE Antenna Part Number	LXE Model Number	Antenna Gain	Max Radio Power Level	Antenna Description
153180-0001	N/A	2.2 dBi	17 dBm	Cushcraft Omni Antenna
155846-0001	6000A279ANT3SPIREL	3 dBi	17 dBm	Spire® Omni Antenna
	6000A280ANT3SPIRER			
	6000A283ANT3INDSPR			
155845-0001	6000A277ANT6SPIREL	6 dBi	13 dBm	Spire® Omni Antenna
	6000A278ANT6SPIRER			
	6000A282ANT3INDSPR			
480424-0411	N/A	9 dBi	11 dbm	Mobile Mark Omni Antenna
155104-0001	N/A	0 dbi	20 dbm	LXE Omni
154591-0001	N/A	0 dbi	20 dbm	LXE Patch
Toko DAC2450CT1	N/A	0 dbi	20 dbm	LXE Omni
157368-0001	N/A	0 dbi	20 dbm	LXE Omni
158586-0001	N/A	0 dbi	20 dbm	LXE Omni
158399-0001	N/A	0 dbi	20 dbm	LXE Omni

Cyril A. Binnom Jr. Regulatory Engineer 18 June 2003

LXE Inc. 125 Technology Parkway Norcross, GA 30092-2993 USA ph. 770/447-4224 fax 770/447-6928



A/C Power Supply Safety Statement – MX3X Output Rated 12 VDC, 1 A.





Optional A/C Power Supply:

Outside North America, this unit is intended for use with an IEC certified ITE power supply with output rated as stated at the top of this page. (US)

Alimentation c.a. optionnelle:

Hors de l'Amérique du Nord, cette unité est conçue pour être utilisée avec une alimentation ITE certifiée CEI de sortie nominale indiquée au haut de cette page. (FR)

Valgfrit vekselstrømforsygning

Udenfor Nord Amerika er denne enhed udstattet med en IEC (international elektronisk Kommission) udfærdiget med en ITE strømforsygning med strømudgang som fastslået på denne sides begyndelse. (DK)

Vaihtoehtoinen vaihtovirran syöttölaite:

Pohjois-Amerikan ulkopuolella tämä laite on tarkoitettu käytettäväksi sellaisen IEC:n sertifioiman ITE-tehonsyöttölaitteen kanssa, jonka antoteho on tämän sivun yläosassa esitetyn mukainen. (FI)

Optionales Netzteil (Wechselstrom)

Außerhalb Nordamerikas sollte diese Einheit über ein der IEC-Norm entsprechendes ITE-Netzteil gespeist werden, und zwar mit einer wie oben auf dieser Seite genannten Ausspeisung. (DE)

Προαιρετική Τροφοδοσία Συνεχούς Ρεύματος

Εκτός Β. Αμερικής, η μονάδα αυτή προορίζεται για χρήση με ένα τροφοδοτικό ΙΤΕ πιστοποιημένο κατά ΙΕC με ονομαστική ισχύ όπως δηλώνεται στην αρχή της σελίδας. (GR)

Alimentazione opzionale a corrente alternata:

Al di fuori dei paesi dell'America del nord, l'unità deve essere impiegata con un dispositivo d'alimentazione per attrezzature informatiche approvato dalla IEC la cui potenza nominale sia pari a quella indicata all'inizio della pagina. (IT)

Vekselstrømforsyning (ekstrautstyr):

Utenfor Nord-Amerika skal dette produktet brukes med en IEC-sertifisert ITE-strømforsyning med klassifisert effekt som angitt øverst på denne siden. (NO)

Fornecimento opcional de CA:

Fora dos EUA, esta unidade destina-se a ser usada com dispositivos de fornecimento de corrente ITE com certificação IEC, com a capacidade indicada no topo desta página. (PT)

Suministro optativo de corriente alterna

Fuera de América del Norte, esta unidad se debe utilizar con un alimentador ITE homologado por la IEC (comisión electrotécnica internacional) con una salida que tenga la calificación que figura en la parte superior de esta página. (ES)

Valfri A/C Strömförsörjning

Utanför Nordamerika är det meningen att denna enheten används med en IEC-certifierad ITE-strömförsörjare med den uteffekt som anges längst uppe på den här sidan. (SE)

İsteğe Bağlı A/C Güç Kavnağı:

Kuzey Amerika dışında, bu ünite, çıkış sınıflandırması bu sayfanın başında belirtilen IEC sertifikalı bir ITE güç kaynağı ile birlikte kullanılmak üzere tasarlanmıştır. (TR)

Updated 10/01/2001

Legend: Danish – DK; English – US; Finnish – FI; French- - FR; German – DE; Greek – GR; Italian – IT; Norwegian – NO; Portuguese – PT; Spanish – ES; Swedish – SE; Turkish – TR.



Laser Light Safety Statement



Warning:

This product uses laser light. One of the following labels is provided on the scanner. Please read the Caution statement. (US)

Mise én garde:

Ce produit utilise un rayon laser. L'une des étiquettes suivantes est apposée sur le scanneur. Veuillez lire l'avertissement qu'elle contient. (FR)

Advertência:

Este produto usa luz de laser. O scanner contém um dos seguintes avisos. Favor ler o Aviso. (PT)

Varning:

Denna produkt använder laserljus. En av de nedanstående etiketterna sitter på scannern. Var god läs varningstexten. (SE)

Advarsel:

Dette produkt anvender laserlys. En af følgende mærkater anvendes på scanneren. Læs venligst sikkerhedsforanstaltningen. (DK)

Varoitus:

Tämä tuote käyttää laservaloa. Skannerissa on jokin seuraavista tarroista. Lue Huomio-kohta. (FI)

Warnung:

Dieses Produkt verwendet Laserlicht. Eines der folgenden Etiketten befindet sich auf dem Scanner. Bitte lesen Sie den Gefahrenhinweis. (DE)

Attenzione:

Questo prodotto utilizza luce laser. Una delle etichette seguenti c' ubicata sullo scanner. Si raccomanda di leggere con attenzione le avvertenze riportate. (IT)

Advarsel:

Dette utstyret bruker laserlys. En av følgende etiketter er plassert på scanneren. Les advarselen på etiketten. (NO)

Advertencia:

Este producto usa luz de láser. Las etiquetas se proveen en la máquina exploradora. Por favor, lea detenidamente la explicación para las precauciones. (ES)

Waarschuwing:

Dit product gebruikt laserlicht. Een van de volgende labels is op de scanner aangebracht. Lees a.u.b. de waarschuwing onder Oppassen. (NL)



Laser Light Safety Statement



Uyarý:	Προειδοποίηση:	
Bu ürün lazer ýþýðý kullanýr. Aþaðýdaki etiketlerden bir tanesi tarayýcýnýn üstünde saðlanýr. Lütfen Dikkat ifadesini okuyun. (TR)	Αυτό το προϊόν χρησιμοποιεί λέιζερ φως. Υπάρχει μία από τις ακόλουθες ετικέτες στο σαρωτή. Παρακαλούμε διαβάστε τη δήλωση με τίτλο Προσοχή. (GR)	
경고: 본 제품은 레이저 광선을 사용합니다. 다음 라벨 중 하나가 스캐너에 제공됩니다. 주의 사항을 읽어 주십시오.(KR)	警告:この製品はレーザー光線を使用します。次のラベルのうち1つがスキャナーに貼られています。注意事項をお読みください。(JP)	
警告: 本产品使用激光。 下列一个标签将随扫描仪一道提供。 请阅读"当心"一栏的内容。(CN)	Legend: Chinese-CN; Danish-DK; Dutch-NL; English-US; Finnish-FI; French-FR; German-DE; Greek-GR; Italian-IT; Japanese-JP; Korean-KR; Norwegian-NO; Portuguese-PT; Spanish-ES; Swedish-SE; Turkish-TR	

Labels - MX3X Hand Held Computer









56	Appendix B	Regulatory Notices and Safety Information	r

		Critical Suspend mode	
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