



ELECTRONIC MONITORING SYSTEM



MOBILE UNIT OPERATIONAL GUIDE (MU-800-2)

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1 Introduction

1.1 About the Mobile Unit

The Mobile Unit (MU-800-2) is based on Elmo-Tech's field proven RF technology and is one of the many unique elements of the Monitoring System.

The Mobile Unit is a lightweight, palm sized, portable monitoring device that can be used by mobile officers in the field to detect the presence of clients wearing Elmo-Tech Transmitters.

The Mobile Unit is an add-on module that allows officers to discreetly confirm offender locations, while avoiding any physical contact as well as interruptions in offender daily activities. It enables officers to monitor clients who are required to attend work, school, or counseling sessions, therefore helping monitoring personnel to verify compliance with schedule requirements and sentence restrictions.

The Mobile Unit includes the following features:

- Ability to verify monitored offender compliance while patrolling in a vehicle, or on foot
- Minimizing direct unnecessary contact with offenders
- Light, palm sized and water-resistant new design
- 18 hour rechargeable battery
- Extended memory capacity
- Windows™ PC interface, for batch report processing

2 Getting Started

2.1 About This Manual

The Mobile Unit Operational Guide has been created for the monitoring personnel and is meant as a guide through the Mobile Unit operational procedures. This manual assumes that you have at least some experience with the Electronic Monitoring System.

This manual does not contain information regarding system settings, configuration or any other software produced by **ElmoTech Ltd.**, unless directly related to this produce.

Please refer to the appropriate manuals for information with respect to the Mobile Unit Monitor Operator's manual.

The Mobile Unit Operational guide is divided into the following chapters:

Introduction – This chapter introduces you to the Mobile Unit (MU) monitoring methodology.

Mobile Unit Activation & Operational Instructions – This chapter describes the various activation and operational procedures with regard to the Mobile Unit.

Maintaining the Mobile Unit – This chapter describes the maintenance procedures regarding the Mobile Unit.

Mobile Unit Specifications – This chapter lists the Mobile Unit specifications and main features.

All Mobile Unit related hardware and software must be installed and repaired by a qualified **ElmoTech Ltd.** customer service representative or an experienced system administrator.

2.2 Document Conventions

A **Table of Contents** and **Table of Figures** are included in this manual in order to help you quickly and easily find the information that you need.

The following conventions are used throughout the manual:

Notes within the documentation are preceded by the note symbol  and indicates extra information that can be of help about a particular function or procedure.

Reference Information within the documentation is preceded by an information symbol  and indicates a reference or link to information in another part of the manual that may be related to the current information.

Numbered Lists indicate procedures that must be followed sequentially. You must complete the steps shown in the sequence they are presented in order to ensure reliable results.

Bulleted Lists indicate general information about a particular function or procedure and do not imply a sequential procedure.

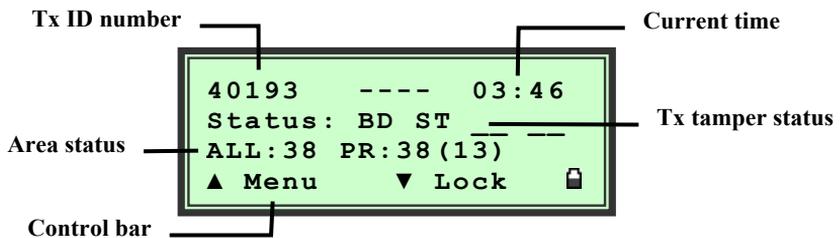
ElmoTech Ltd is committed to innovation and continued improvement. Upgrades may be announced that consist of software improvements and updated manuals will generally accompany those system changes.

3 Mobile Unit Activation and Operational Instructions

3.1 Parts of the Mobile Unit



3.1.1 A-Display Panel



3.2 Activating the Mobile Unit

To activate the Mobile Unit while in Off mode:

Connect one end of the power adapter into the wall socket and connect the other end into the charging socket on the Mobile Unit.

To activate the Mobile Unit while in Standby mode:

Press the Down ▾ button continuously for about 3 seconds. Once activated the Mobile Unit makes an audible beeping sound, the system logo, version number and current date and time are briefly displayed in the Display panel.

The Mobile Unit automatically enters into monitoring mode. This indicates that the Mobile Unit has been activated successfully.

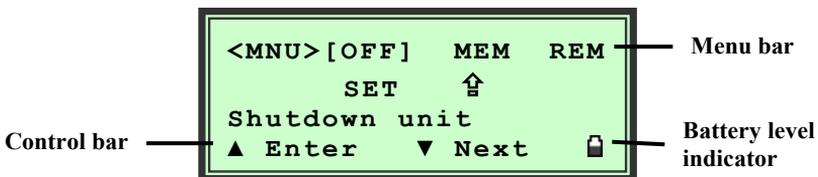
To deactivate the Mobile Unit:

Select Menu, navigate to the Off menu and select either Standby or Off. Once deactivated, the Mobile Unit shuts down.

3.3 Navigating the Display Panel

To enter the Main menu:

Select Menu located on the Control bar. The Main menu is displayed.



The Menu bar is located in the upper section of the Display panel and can be used to navigate through the appropriate menu options.

The Control bar is located in the lower section of the Display panel and, by using the Up \triangle and Down ∇ buttons on the Mobile Unit, can be used to navigate through the Main menu and select menu options.

 **Note** that, the menu or setting option positioned between the [...] symbols indicates which menu option is currently selected.

To navigate through the Main menu:

Select Next. Once you have reached the desired menu option, select Enter.

To return to the previous menu:

Navigate to the Back symbol \leftarrow and then select Enter.

To exit a menu:

Navigate to the Exit symbol \uparrow and then select Enter.

The Battery level indicator  is located on the right side of the Display panel next to the Control bar.

 For information about charging the Mobile Unit, refer to the section about, **Charging the Mobile Unit**.

3.4 Defining Mobile Unit Operational Settings

To enter the Settings menu:

Navigate to the Main menu and select Settings. The Settings menu is displayed.



3.4.1 Changing the Backlight Setting

To change the backlight settings:

1. With the Setting menu displayed, select Operational Settings and choose Backlight settings.
2. Select Next until the desired setting is displayed. The Backlight setting options are; Always Off, Always On or Auto shutdown after 20 seconds.
3. Select Set to save the new setting.

3.4.2 Changing the Buzzer Tone

To change the buzzer tone:

1. With the Setting menu displayed, select Operational Settings and choose Buzzer Tone settings.
2. Select Next until the desired setting is displayed. The Buzzer Tone setting options are; Always Off, Low Volume, Medium Volume or High Volume.

3. Select Set to save the new setting.

3.4.3 Changing the Keypad Tone

To change the keypad tone:

1. With the Setting menu displayed, select Operational Settings and choose Keypad Tone settings.
2. Select Next until the desired setting is displayed. The Keypad Tone setting options are; Beep On or Beep Off.
3. Select Set to save the new setting.

3.4.4 Changing the Disappearance Alert Time

To change the disappearance alert time:

1. With the Setting menu displayed, select System Definitions and choose Disappearance Alert settings.
2. Select Next until the desired setting is displayed. The Disappearance Alert setting options are; after 1 minute, after 2 minutes, after 3 minutes or after 4 minutes.
3. Select Set to save the new setting.

3.4.5 Changing the Range Setting

To change the range setting:

1. With the Setting menu displayed, select System Definitions and choose Range Settings.
2. Select Next until the desired setting is displayed. The Range Setting options are; Maximum, Long, Medium or Short.
3. Select Set to save the new setting.

3.4.6 Changing the Date and Time

To change the date and time:

1. With the Setting menu displayed, select Date and Time settings. The currently set date and time is displayed.
2. Select Edit to enter Date and Time settings.
3. Select Next until the desired date or time setting is selected.
4. Select Toggle until the desired date or time setting is displayed and continue until all date and time settings are correct.
5. Select Next until the Set or Reject options are displayed.
6. Select Set to save the new setting, or select Reject to discard.

3.5 Managing the Mobile Unit's Memory

Before you start a new monitoring session, you have the option to view and / or delete all redundant data previously stored in the Mobile Unit's memory.

To enter to the Memory Management menu:

Navigate to the Main menu and select Memory Management. The Memory Management menu is displayed.



3.5.1 Managing the Event Log

To enter the Event Log menu:

1. With the Memory Management menu displayed, select Event Log.
2. Select Next until the desired event log option is displayed. The Event Log options are; View event log or Delete event log.

3.5.1.1 Viewing the Event Log

To view the event log:

1. With the Event Log menu displayed, select Next until the View Event Log option is displayed and then select Enter.
2. Select Browse to browse through the event log, or select Exit to return to the Memory Management menu.

3.5.1.2 Deleting the Event Log

To delete the event log:

1. With the Event Log menu displayed, select Next until the Delete Event Log option is displayed and then select Enter.
2. Select Yes to confirm the deletion, or select No to return to the Memory Management menu.

3.5.2 Managing the Members List

To enter the Member List menu:

1. With the Memory Management menu displayed, select Member List.
2. Select Next until the desired member list option is displayed. The Member List options are; View all members or Delete all members.

3.5.2.1 Viewing the Members List

To view the member list:

1. With the Member List menu displayed, select Next until the View all members option is displayed and then select Enter.
2. Select Next to browse the members list, or select Exit to return to the Memory Management menu.

3.5.2.2 Adding / Editing a Member's Name

To add / edit a member's name:

1. With the Member List menu displayed, select Next until the View all members option is displayed and then select Enter.
2. Select Next until the desired member is displayed and the select Edit.
3. Select Next until the Edit Name option is displayed and then select Enter.

4. Select Toggle until the desired letter is displayed and then select Next to move onto the next letter.
5. Repeat this process until the members name has been entered into the Name field.
6. Select Next until the Set or Reject options are displayed.
7. Select Set to save or Reject to cancel

3.5.2.3 Deleting the Members List

To delete the member list:

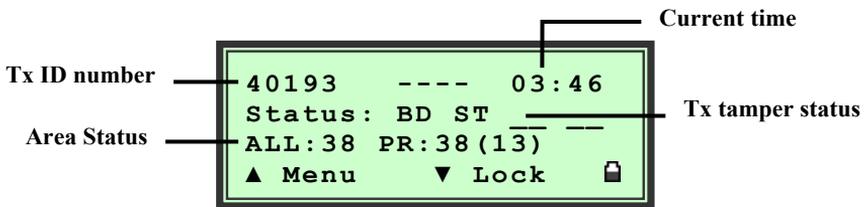
1. With the Member List menu displayed, select Next until the Delete all members' option is displayed and then select Enter.
2. Select Yes to confirm the deletion, or select No to return to the Memory Management menu.

3.6 Monitoring Offenders

You can use the Mobile Unit to monitor the continuously changing status of all Transmitters currently present within the defined range of the Mobile Unit, or you can lock onto and search for a single Transmitter.

3.6.1 Monitoring All Transmitters

Once the Mobile Unit has been activated the unit automatically enters into monitoring mode.



i For more information about the Tx tamper status indicators displayed in the Display panel, refer to the section about, **Status Indicators**.

3.6.2 Monitoring a Single Transmitter (Locked)

To lock onto an Offender’s Transmitter:

1. With the Mobile Unit in monitoring mode, wait for the desired Transmitter to be displayed in the Display panel.

- Once the desired Transmitter ID is displayed, select Lock. The Mobile Unit locks onto the selected Transmitter and a visual tracking gauge is added to the Display panel



You can use the displayed visual tracking gauge to estimate the approximate distance between the Mobile Unit and the selected Offender’s Transmitter.

 **Note** that, the longer the visual tracking gauge extends (e.g. ■■■■■■■■) the closer the Mobile Unit is to the selected Transmitter.

To un-lock the Offender’s Transmitter:

Select Unlock.

3.6.3 Status Indicators

A list of the possible status indicators displayed in the Mobile Unit’s display panel during monitoring are included below:

BD - indicates a Tx body tamper

ST - indicates a Tx strap tamper

RS - indicates that the Tx reset bit is On (valid 24 hour post MRD reset)

BT - indicates a Tx low battery

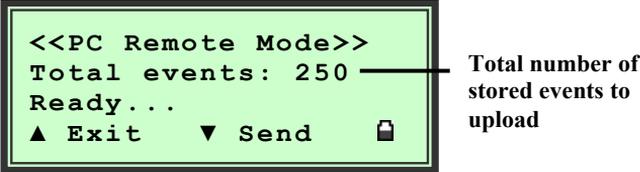
3.7 Activating the Remote PC Connection

Once you have completed a monitoring session, you have the capability to upload any stored data from the Mobile Unit directly to the Mobile Monitoring System software application on the desktop computer.

 **Note** that, you must have the Mobile Monitoring System software application and an Infrared Reader installed on your desktop computer before you activate the remote PC connection.

To activate the remote PC connection:

1. Navigate to the Main menu and select Remote PC Connection. The Remote PC Connection mode is displayed in the Display panel.



2. Place the Mobile Unit next to the infrared reader with the Infrared panel on the Mobile Unit facing the reader.
3. Either Select Send on the Mobile Unit, or click the Upload button in the Mobile Monitoring System software application.
4. Wait until the Upload Progress window in the Mobile Monitoring System software application closes.
5. Select Exit to return to the Main menu.

 For more information about installing and operating the Mobile Monitoring System software application, refer to the **Mobile Monitoring System Monitor Operator’s Manual**.

3.8 Charging the Mobile Unit

In order to keep the Mobile Unit fully operational, you should connect the unit to the supplied charging adapter whenever the unit is not in immediate use.

To charge the Mobile Unit:

1. Connect the appropriate end of the supplied charging adapter into either, the wall power socket, or the vehicle's cigarette lighter power outlet.
2. Connect the small end of the charging adapter into the charging socket located on the Mobile Unit. The left LED indicator lights up indicating the Mobile Unit is in charging mode.



Note that, if the Mobile Unit is connected for charging while the actual unit is in Off mode, the unit automatically activates itself and charging commences.

NOTICE - In case of the following:

- The LCD indicator blinks irregularly
- The unit unpredictably turns off and resets itself
- Any other irregular actions

Please disconnect and turn off, and return it to the monitoring agency / supplier for replacement. Do not attempt to fix the unit by yourself.

For agencies / customers: Do not use faulty units at any time. If any of the above malfunctions occur, return the unit to ElmoTech for repair.

4 Maintaining & Packing the Mobile Unit

4.1 Cleaning the Mobile Unit

To clean the Mobile unit:

1. Remove the Mobile Unit from its water resistant carrying pouch and simply wipe the outside of the unit with a damp cloth.



Do not, under any circumstances, submerge or place the Mobile unit under running water.

2. Using a piece of cloth or a paper towel, dry the outer side of the Mobile Unit.
3. Once the Mobile Unit is dry, place the unit into the water resistant pouch and then into the specially designed transportation case.

5 Mobile Unit Specifications

Mobile Unit Features

- Light, palm sized and water-resistant new design
- Ability to verify monitored offender compliance while patrolling in a vehicle, or on foot
- Minimizing direct unnecessary contact with offenders
- Extended memory capacity
- Windows™ PC interface, for batch report processing

Memory

- Store and monitor up to 200 transmitters
- Log up to 3000 events
- Records are time stamped

Operating Characteristics

- Battery Life between charges: 16-24 hours
- Charge Time: 5 hours

Mechanical Characteristics

- Water Resistant
- Size: 14 x 8.5 x 3.5 cm (5.5 x 3.3 x 1.4 in)
- Antenna length: 11 cm (4.1 in)
- LCD message display
- Backlight push button
- Acknowledge push button
- Waterproof pouch with belt clip

FCC Information

FCC ID: LSQ-MU-800-2

FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 15 STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the receiver away from the control/communicator.
- Move the antenna leads away from any wire runs to the control/communicator.
- Plug the control/communicator into a different outlet so that it and the receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user or installer may find the following booklet prepared by the Federal Communications Commission helpful: "Interference Handbook". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.