# Mobile Collector Lite

## Installation Guide

**Identification**

Mobile Collector Lite Installation Guide
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**Disclaimer**

RF EXPOSURE

To comply with FCC requirements, maintain a separation distance of at least 40.0 cm between the antenna and all persons.

ELECTROMAGNETIC COMPATIBILITY

Use only approved accessories with this equipment. In general all cables must be high quality, shielded, correctly terminated, and normally restricted to 2 meters in length. The Mobile Collector employs special provisions to avoid radio interference and should not be altered or substituted.

Unapproved modifications or operation beyond or in conflict with these instructions for use, may void authorization by the authorities to operate the equipment.

**WARNING! Do not visually monitor or physically adjust the Mobile Collection system while driving. While driving, rely on the beeps produced when meter data is collected to indicate proper system operation. Visually monitoring or adjusting the Mobile Collection system while driving will divert your attention from your safe driving responsibilities. Attention to driving is your primary responsibility.**

**Suggestions**

If you have comments or suggestions on how we may improve this documentation, send them to TechnicalCommunicationsManager@itron.com

If you have questions or comments about this application, contact Itron Customer Support:

- Mail: Itron, Inc.; Attention: Customer Support; 2111 N. Molter Road; Spokane, WA 99019
- E-mail: support@itron.com
- Phone: 1 800 635 8725

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## Introduction

This document contains information to help you install your Mobile Collector Lite (MCLite, for short) RF unit (radio) and FC200 handheld meter data collector in a vehicle.

See your *MV-RS CE Handheld Guide* or the MV-RS CE online help for information on how to run MCLite from the MV-RS software running on the FC200.

You will also need to consult the following related documents:

- *FC200 Getting Started Guide*, which contains instructions for using and maintaining the FC200 handheld meter data collector.
- *FC200 Vehicle Dock User's Guide*, which contains instructions for using and maintaining the FC200 vehicle dock.

Except where it states otherwise, this guide uses the terms *FC200* and *handheld* interchangeably.

## Unpacking the MCLite Hardware

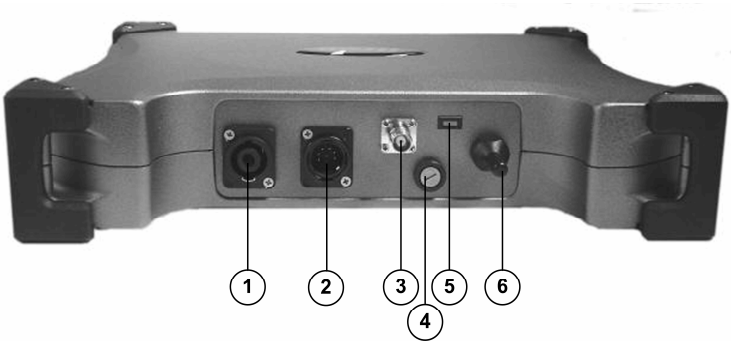
Your MCLite installation package should include these items:

- 1 MCLite RF unit
- 1 RF unit vehicle mount
- 2 bench seat straps
- 1 FC200 interface cable
- 1 power cable with cigarette lighter adapter
- 1 antenna and magnetic mount with attached antenna cable
- 1 FC200 handheld meter data collector
- 1 FC200 vehicle dock [w/retention bracket?]
- 1 FC200 vehicle dock [mounting plate]

- 1 *FC200 Getting Started Guide*
- 1 *FC200 Vehicle Dock User's Guide*
- 1 shipping case

## RF Unit Features

The following illustration identifies the main features of the MCLite RF unit.




| List of features | | | | | |
|---|---|---|---|---|---|
| 1 | Power supply socket | 3 | Coaxial magnetic-mount antenna connector | 5 | Radio status LED |
| 2 | FC200 communication/ power port | 4 | Fuse | 6 | Bluetooth antenna |

### The LED Status Indicator

The MCLite RF unit has a light-emitting diode (LED) radio status indicator that shows when the unit is in stand-by mode and when its radio is turned on.

| LED indication | Explanation |
|---|---|
| Blinking | Stand-by mode. The RF unit has power, but the radio is not turned on. |
| Steady | The radio is turned on. The RF retrieves meter data from all ERT endpoints within its range. |
| Off | The RF unit is not receiving power. Check power connections and fuse. |

## MCLite Installation Overview

Installing the MCLite hardware in a vehicle involves the following procedures:

1. Install the FC200 vehicle dock. See the instructions in the *FC200 Vehicle Dock User's Guide* included with the MCLite installation package.
2. Set up the FC200 handheld data collector. See the instructions in the *FC200 Getting Started Guide* included with the MCLite installation package.
3. Install the MVR handheld software on the FC200. See “Installing the MVR Handheld Software” in the *MV-RS Installation Guide*.
4. Insert the FC200 into the vehicle dock.
5. Mount the MCLite RF unit on the passenger-side seat back.
6. Connect the RF unit to its power supply through the vehicle cigarette lighter socket.
7. (Optional) Connect the FC200 handheld to the RF unit, using the [RS-232] cable provided.

   This cable provides power to the handheld, as well as communications with the RF unit. If you do not use the cable to connect the handheld to the RF unit, the handheld will draw power from its internal battery and automatically use Bluetooth technology to communicate with the unit.
8. Install the RF unit's magnetic-mount antenna, using the antenna's magnetic roof mount and coaxial antenna cable.

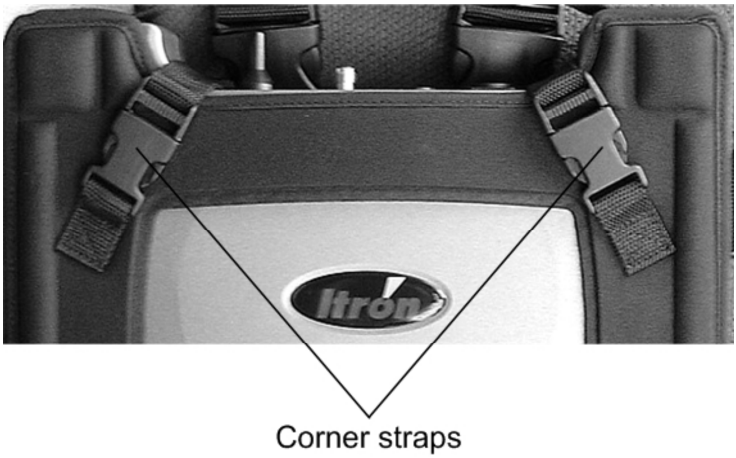
### *To mount the MCLite RF unit (radio) on the passenger-side seat back*

1. Slide the RF unit into the vehicle mount.

You can strap the mount to either the front or the back of the passenger-side seat back. Position the unit within the mount so that when it is strapped to the seat back, the unit's connectors face *toward the passenger-side door*.

**WARNING! Positioning the unit properly is critical for ensuring that the RF unit's cooling vents will not be blocked.**

Secure the RF unit in the mount by buckling the two diagonal corner straps.

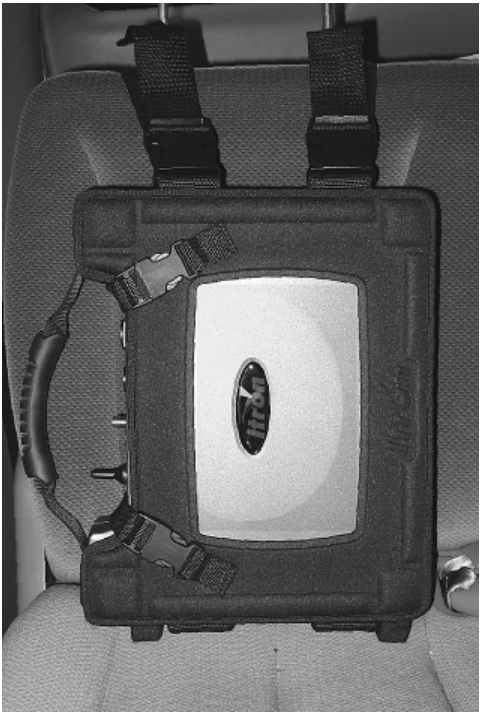



**2.** Depending on whether the vehicle has a separate passenger-side bucket seat or a bench seat, do one of the following:

- Bucket seat – Extending the mounting straps from the side of the vehicle mount, wrap them around the seat back and buckle them to the opposite side of the vehicle mount.

- Bench seat – connect the optional bench-seat straps to the buckles on the bottom of the vehicle mount.

Push the free ends of the straps between the seat cushion and the seat back, and then extend them up and over the top of the seat back and connect them to the buckles on the top of the vehicle mount.



3. Tighten the straps until the RF unit is snug against the seat back.

### *To connect the RF unit to its power supply*

1. Plug the the RF unit's power supply cable into the unit's power connector.
2. Plug the cigarette lighter adapter at the other end of the cable into the vehicle's cigarette lighter socket.

### To connect the FC200 to the RF unit

1. Plug the FC200 interface cable provided into the FC200 interface connector on the RF unit.
2. Plug the other end of the cable into the FC200's RS-232 port.

### To install the RF unit's antenna

1. Place the magnetic base of the antenna on the vehicle roof, on the passenger side.
2. Extend the free end of the antenna cable through the passenger-side window and connect it to the RF unit's coaxial antenna connector.