



USER MANUAL

MFT v1.0 Multi Frequency Transmitter



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1 Introduction

1.1 About this Guide

This User Guide contains important information for **installers and users** of the PRF-MFT10 product and all of its series. MFT stands for **Multi Frequency Transmitter**.

This guide introduces the PRF-MFT10 and provides instructions on how to install, configure, operate, and troubleshoot the device. Each section has both written and graphical explanations to provide the technical information necessary to be successful at using, installing, and configuring the PRF-MFT10 device.

1.2 Important Information

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1.3 Safety Precautions



The equipment contains communication devices. Any changes or modifications made to the equipment without the written consent of SuperCom Inc. or SuperCom Ltd., or Vunce Ltd., and its resellers or distributors, can nullify the user's authority to operate this equipment.

The user assumes all risks associated with the use and handling of the equipment, and specifically acknowledges that SuperCom Inc. & SuperCom Ltd. & Vunce Ltd., and its resellers

or distributors, will not be liable for any damages of any kind, including personal injury or property damages resulting from use of the equipment.

!

Carefully read the safety information contained in this section, and throughout this user guide, before installing, operating, or performing any maintenance task on the equipment.

!

Operations not performed as per the instructions in this user guide are done at the user's own risk and liability.

!

Only trained, authorized personnel should install, maintain and repair the equipment.

!

Unit shall be powered by a certified Limited Power Source supply adapter only (marked "L.P.S")

!

Once you have thoroughly reviewed this user guide, if you have any questions, please contact your reseller.

1.4 FCC Warnings

The FCC Wants You to Know

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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:

- a) Reorient or relocate the receiving antenna.
- b) Increase the separation between the equipment and receiver.
- c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- d) Consult the dealer or an experienced radio/TV technician.

FCC Warning

Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

2 Technical Specifications

2.1 Interfaces and MMIs

2.1.1 RF

- 1 x RF 433MHz ASK\FSK Receiver module
- 2 x LF 125KHz OOK Transmitter module

2.1.2 Interfaces & Connectors

- RS-485
- 2 x Relay outputs / 3 x OC drivers
- 2 x Wiegand Outputs
- Ultra-Sonic module connector
- Power adapter socket

2.1.3 Tamperers & Sensors

- Case tamper (*Optional*)
- Ultra-Sonic module (*Optional*)

2.1.4 MMI

- Push Button
- Indication LEDs
- Internal Buzzer
- 1 x DIP Switch

Operational temperature:

- -20°C to +60°C

2.2 Power Requirements

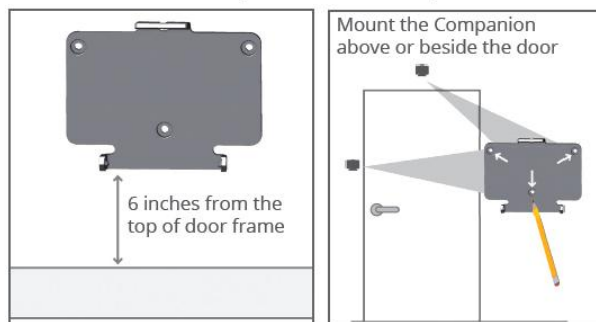
- 12V DC, 2A.

3 Installation

Reader Mounting Instructions

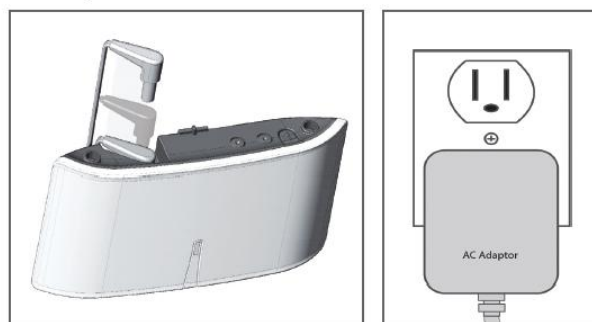
STEP 1: Mark Mounting Holes

Use the Companion mounting bracket to mark 3 holes on the wall (stepladder, ruler, & pencil needed).



STEP 3: Plug in AC Adaptor

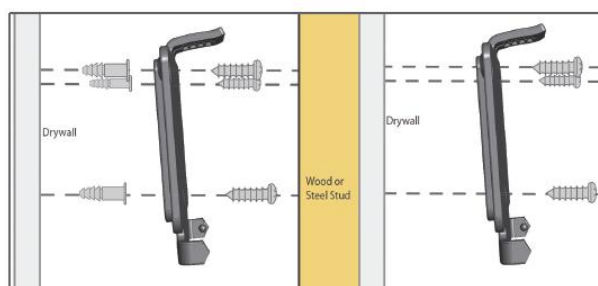
First, plug in AC adaptor to Companion. Then, plug AC adaptor into standard 120/230VAC outlet



STEP 2: Mount the Bracket (2 Options)

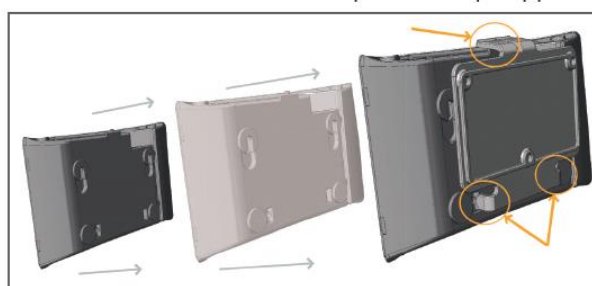
Plastic anchors & screws
for DRYWALL ONLY

Just screws for wall
with STUDS



STEP 4: Clip Companion to Bracket

Clip Companion to the mounting bracket lining up the 2 holes at bottom then snap on the top support



NOTE:

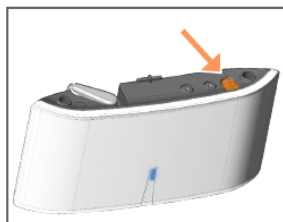
Unit shall be powered by a certified Limited Power Source supply adapter only (marked "L.P.S").

4 Configuration

Calibration Instructions

STEP 1

- Make sure the Companion is turned on (blue light is displayed).
- Click and hold the top button for 2 seconds.
- A long beep will indicate that the calibration process has begun.



STEP 2

- Step back and grab the wrist tag.
- Position yourself at the maximum distance for which the Companion should alert.
- The Companion will sound short beeps for 7 seconds to allow you to get positioned.

RECOMMENDED DISTANCE: 5 – 8FT.

STEP 3

- The Companion will sound rapid short beeps while scanning the area for the wrist tag.
- Please do NOT move during this time.

STEP 4

Calibration successful: A green light will be displayed for 2 seconds.

Calibration failed:

- A red light will be displayed for 2 seconds.
- Return to step 1 and this time position yourself closer to the Companion.

Pairing Instructions

STEP 1

- Make sure the unit is turned-on (Blue light steady-on).
- Click the top button (short click).
- The Companion will sound a long beep for 2 seconds along with light, indicating success or failure.

Pairing successful: A green light will be displayed for 2 seconds.

Pairing failed: A red light will be displayed for 2 seconds.

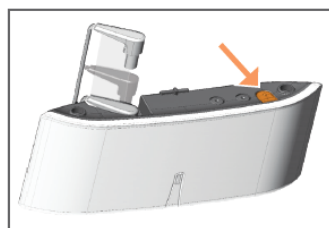
Factory Reset Instructions

STEP 1

- Disconnect the power cord from the Companion.
- Make sure the unit is turned off (light is off).

STEP 2

- Click and hold the top button while re-connecting the power cord.



- Release the button after 5 seconds.
- A short beep will sound to indicate that the factory reset is complete.

5 References

5.1 Acronyms and Abbreviations

API	– Application Programmer Interface
ADC	– Analog to Digital Conversion
RF	– Radio Frequency
CPU	– Central processing unit
CAD	– Computer Aided Design
CISC	–Complex Instruction Set Computing
DAC	–Digital to Analog Convertor
ETSI	–European Telecommunications Standards Institute
FCC	–Federal Communications Commission
GUI	– Graphical User Interface
I/O	–Input/output
IRQ	–Interrupt Request
ISO	–International Organization for Standardization
Kbps	–kilobit per second
LED	–Light Emitting Diode
MCU	– Micro Controller unit
MMI	– man machine interface
RAM	–Random Access Memory
ROM	–Read Only Memory

6 Appendix A:

Model Name: **PRF-MFT10**

MFT Types: PRF-MFT10A, PRF-MFT10R, PRF-MFT10F.

The tables below describe the sensor combination that can be for any PRF-MFT10,
For PRF-MFT10XX series:

FCC ID: W5P-PRF-MFT10			Alarm base unit
			Model: PRF-MFT10
LF Activator <input checked="" type="checkbox"/>	LF Activator <input type="checkbox"/>	LF Activator <input checked="" type="checkbox"/>	
RF Reader <input checked="" type="checkbox"/>	RF Reader <input checked="" type="checkbox"/>	RF Reader <input type="checkbox"/>	
PRF-MFT10F	PRF-MFT10R	PRF-MFT10A	SuperCom PN
Full MFT unit	Reader only	Activator only	