

Chapter 1 Introduction

Welcome to the Electronic Monitoring System and correctional tool, created by ElmoTech Ltd., that has the ability to collect, analyze and intelligently act on information from multiple sources.

An inconspicuous transmitting Tag (TX) is attached to the client's ankle or wrist by means of a tamper-detecting strap. The client's presence (or absence) is tracked constantly by radio transmissions between the Tag and the MEMS 3000 HomeStation (RF Model). When the client enters or leaves the defined home environment, the MEMS 3000 HomeStation records the event. The MEMS 3000 HomeStation then checks the client's stored curfew schedule to determine if the event is in violation of his or her curfew order.

The MEMS 3000 HomeStation is a highly efficient monitoring unit, integrating alcohol testing (BAT), video identity verification and radio frequency (RF Model) presence monitoring into a single unit. The MEMS 3000 HomeStation transfers the breath alcohol test results and user's image to the monitoring center at a push of a button.

The MEMS 3000 HomeStation reports certain violations to the monitoring center as soon as they occur. All violation, non-violation events that are not defined as immediate are stored in the MEMS 3000 HomeStation for the next upload. The MEMS 3000 HomeStation initiates a pre-defined routine sanity call to the monitoring center in order to report the status of the equipment and upload stored events. This event information completes the audit trail of the client's behavior. The MEMS 3000 HomeStation detects and reports tilting, loss of power, loss of telephone line, low battery, and other alarm conditions. The MEMS 3000 HomeStation also detects transmitter tag tampering, tag removal and low battery.