



SMART[®] MTD
Active Monitoring



COMPLETE REFERENCE GUIDE

SMART® ACTIVE Monitoring

System Overview

Pro Tech's Miniature Tracking Device (MTD) utilizes GPS satellites to establish offender locations utilizing the components of the SMART® MTD System.



Pro Tech's SMART System consists of four main components: The Ankle Bracelet, the Miniature Tracking Device (MTD), the Base Unit, and Pro Tech's Client Enrollment Software (PCE).

SMART MTD-Active Mode Communication and GPS Point Storage

- The AMTD (Active MTD) calls Pro Tech every hour while out of the Base Unit, or every 6 hours while in the Base Unit, while in compliance
- The AMTD will call Pro Tech as soon as a violation occurs
- If the AMTD is not able to make a call because of poor cellular coverage, it will continue trying to call Pro Tech until it is successful
- The AMTD collects a GPS point every minute. If a Geographic Rule is in violation, the AMTD will collect a GPS point every 15 seconds.
- The MTD has a battery saving feature that will place the MTD "At Rest" if it remains motionless for 10 consecutive minutes
- When "At Rest" the MTD will collect a GPS point every hour
- As soon as motion is detected, the MTD will come out of the "At Rest" feature



Ankle Bracelet

- Serves as an electronic tether to the AMTD

Miniature Tracking Device-Active Mode

- A 15 oz. device, approximately twice the size of a digital pager that clips to an offender's belt. The AMTD receives transmitted information from Pro Tech's ankle bracelet and the GPS satellites, and then uses its modem to transmit the data using the cellular network.



System Overview Cont.

Base Unit

- A small stationary device used to recharge the AMTD and transmits all information via a landline, if available. It also monitors the Ankle Bracelet when the AMTD is placed in the base unit (docked).



PCE

- The tracking and monitoring software that can be installed on almost any computer with Internet access. PCE provides access to maps, offender information, and reports.



Rule Definitions

Hardware Rules

Bracelet Battery

- The bracelet battery is getting low; the bracelet must be replaced within 72 hours

Bracelet Gone

- Occurs when the offender is out of range of the tracking device. Therefore, the location of the offender is unknown.
- Pro Tech adds a 5-minute buffer period to all Bracelet Gone violations – you may add additional time. **This is not a Grace Period. During this time the offender is not notified of the Bracelet Gone. Only after 5-minutes have passed will the Bracelet Gone rule go into violation.** If you add a grace, it will apply after the 5-minute buffer has passed. For example, if a 1-minute grace is set, the bracelet will have to be out of range for 6-minutes before notifications are sent.

Bracelet Strap

- The bracelet strap has been compromised or removed from the bracelet

Base Unit A/C Power

- The Base Unit has lost A/C Power and is running on battery back up

Base Unit Phone Line Disconnect

- The phone line has been removed from the base unit. You will not get this alert until the phone line has been reconnected, because the Base Unit requires a phone line to report violations.

Base Unit Battery

- The Base Unit has been running on the back-up battery and is about to go dead. With a full charge (24 hours) the back-up battery will last 16-20 hours. While running on the back-up battery, the Base Unit will not charge the MTD. If the MTD is in the Base Unit, and the Base Unit can call in, the MTD will still be able to successfully download its information.

Base Unit Unable to connect

- The Base Unit has not called Pro Tech in 6 ½ hours

Base Unit Tamper

- The Base Unit has been compromised in some form

Phone Number Caller ID

- Signals the offender may have moved the Base Unit to a new phone line
- The number cannot be private or “unlisted”

Rule Definitions

Hardware Rules Cont.

MTD Battery

- The MTD Battery is low. The MTD needs to be placed in the Base Unit within 60 minutes. The offender receives the automatic message “Battery Low-Place in Base Unit”.

MTD Tamper

- The MTD has been compromised in some form

Active MTD Unable to Connect

- It has been over 2 ½ hours since the MTD has called in. This is normally due to poor cellular coverage in the area that the offender is located in. The offender is not notified of the Unable to Connect and a message cannot be sent to the device. Once the MTD is able to use the cellular network to call in, it will report the violation.

Motion No GPS

- Occurs when the MTD has accumulated 10 minutes of motion in a 60-minute period, without receiving a signal from the GPS satellites

Home Curfew

- The MTD is NOT in the assigned Base Unit when the Home Curfew schedule is in effect

Geographic Rules

Zone Rules- The offender has violated a Zone set up by the user

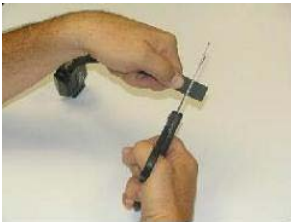
- **Inclusion Zone**
 - Geographic areas like home, work, or school where the offender is confined during an officer defined schedule
- **Exclusion Zone**
 - Geographic areas used to define off-limits areas to the offender

Activating the SMART MTD-Active Mode

Bracelet



Attaching the Bracelet



- Match the Bracelet serial number on the Bracelet case to the number on the Bracelet serial number in the hardware list in PCE. The ankle transmitter and strap will be shipped unattached. You must insert one end of the strap into the transmitter and push the locking pins into place. Make sure that the locking pins are flush with the case. Measure the strap to the offender's leg and cut the strap to fit around the offender's ankle. You should size the strap so that it allows approximately ¼ inch of space between the offender's leg and the strap to ensure comfort.
- Once you have the strap attached, push the locking pin through the holes on the bracelet and into the strap until it locks into place
- Make sure the locking pin is pushed far enough so that the top of the pin is flush with the bracelet case

Activating the SMART MTD-Active Mode

Bracelet



Removing the Bracelet



- Cut the strap



- Using the screwdriver provided, turn the right locking pin counter clockwise and the left locking pin clockwise to remove



- Lift each side of the pin up from the strap and remove. Slide both ends of the strap out of its channel. Dispose of the strap
- Clean the bracelet with mild detergent. Rinse, dry, and return to your inventory

Activating the SMART MTD-Active Mode

Base Unit



Connecting the Base Unit



figure 5.1



figure 5.2



figure 5.3

Step 1:

Plug A/C adapter into a wall outlet. (figure 5.1)

Step 2:

Plug A/C adapter into the back of base unit where POWER is located. (figure 5.2) The green power light will light up on the front of the unit.

Step 3:

If offender has a phone line:

A: Remove phone line from telephone and plug into the back of the Base Unit marked PHONE.

B: Take extra phone cord and plug one end back into the telephone and the other end into Base Unit marked LINE. (figure 5.3)

Activating the SMART MTD-Active Mode

Base Unit



Connecting the Base Unit Cont.



Figure 5.4



figure 5.5



figure 5.6

Step 4:

If activating at office:

A: Remove phone line from facsimile machine. (figure 5.4)

B: Plug facsimile phone line into base unit. (figure 5.5)

Base Unit Violation Status Lights:

Phone In Use

The Base Unit needs to make a call, but the phone line is in use.

No Phone Line

The phone line has been disconnected.

Curfew Violation

AMTD is not in assigned Base Unit when the schedule is in effect.

A/C Power

Base Unit has lost power.

Activating the SMART MTD-Active Mode



Active Mode



figure 5.7

Step 1:

Place AMTD in the Base Unit. Ensure that base unit is connected to the A/C power cord. (figure 5.7)

Note: Always make sure the AMTD is fully charged before activation.

Note: Ensure that the hardware has been assigned and saved to the offender's profile.



figure 5.8

Step 2:

Press the **Activate** button. (bottom right button) (figure 5.8)



figure 5.9

Step 3:

Press **Scroll** button (top right button) to select "Use Wireless" to activate using the cellular network. (figure 5.9)

If activating via the Base Unit, select which prefix (if any) the Base Unit must dial to complete a call. Refer to Base Unit step 4 for additional instructions.

Activating the SMART MTD-Active Mode

Active Mode Cont.



figure 5.10

Step 4:

Press Dial button. (bottom left button) (figure 5.10)

- The AMTD will begin to contact the Pro Tech data center and “Contacting Data Center” will be displayed on the screen.
- Once contact is complete, the AMTD will begin to search for the bracelet. “Searching for Bracelet” will be displayed on the screen.

Note: Both sides of the strap must be connected to the bracelet, and it must be in range of the AMTD.

- Once the AMTD recognizes the bracelet, it will display “Waiting for GPS”. Remove the AMTD from the Base Unit.

Note: Do not remove the AMTD from the Base Unit until this message appears. Be careful not to touch any buttons or the activation will be canceled and you will have to start over.



figure 5.11

Step 5:

Walk the AMTD outside, holding it upright in an area with a clear view of the sky. (figure 5.11)

The status bar will gradually move towards the right, indicating that the GPS signal is in the process of being acquired. Once GPS has been acquired, the AMTD will beep and display the message “GPS Acquired”

Activating the SMART MTD-Active Mode

Active Mode Cont.



figure 5.12

Step 6:

Press the **Acknowledge** button. (top left button) (figure 5.12)

Note: You may also push the Acknowledge button while outside.

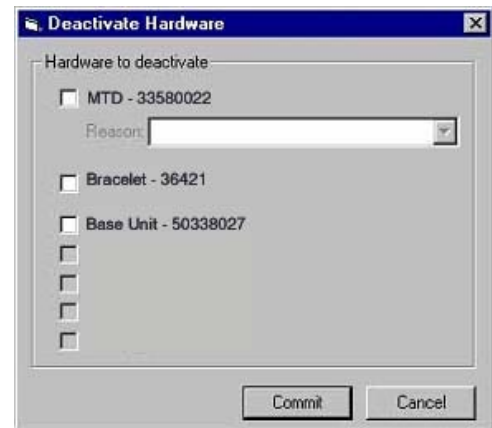
Activation Complete

The offender's name, date, time and battery status indicator will be displayed on the AMTD's screen.

Note: It is recommended that after activation, click the **Download All Points** icon, followed by the **Display Last Position** icon to verify that GPS has been acquired.

DEACTIVATING SYSTEM HARDWARE

- In PCE, go to the **Hardware** Tab and click the **Deactivate Hardware** button. The following screen will appear. Check the items that you wish to deactivate and the reason for the deactivation. Click the **Commit** button at the bottom of the screen.
- The AMTD needs to call in to download any stored information and receive the Deactivation Command
- When an AMTD has been successfully deactivated, the LCD screen will display **“Remove from Base Unit”**



Enrolling an Offender Quick Reference

Open PCE.

Enter Contact Information

- Enter Demographic Information
- Select Time Zone
- Go to the Reports Tab
- Select which DVSR(s) you wish to receive
- SAVE**
- Select View and Refresh Contacts to Update the PCE server

NOTE: You only need to enter a contact one (1) time

Offender Information

- Enter Demographic Information
- Select Time Zone
- Select Level of Supervision (Equipment)
- Enter Personal information (optional)
- Enter Employment information (optional)
- Enter Educational information (optional)
- Enter Sentencing information, enter Offense (optional)
- Enter Photo (if desired)

Enter Rules

- Highlight specific Rule
- Do you want the offender to receive notice of the violation?
- Set a Grace Period (if desired)
- Enter Actions for Hardware Rules
- Choose a Contact; Page, Fax, Email

Enter Inclusion Rules for specific offender

- Choose a radius
- Choose a Grace Period (if desired)
- Do you want the offender to receive notice of violation?
- Map the Address
- Choose a schedule
- Choose a Contact on the Actions Tab; Page, Fax, Email

Enrolling an Offender Quick Reference Cont.

Enter Exclusion Rules for specific offender

- Choose a radius
- Choose a Grace Period (if desired)
- Do you want the offender to receive notice of violation?
- Map the Address
- Choose a schedule
- Choose a Contact on the Actions Tab; Page, Fax, Email
- SAVE**

Hardware Installation, Assignment and Activation

- Size the bracelet and strap to fit snugly on the offender's ankle
- Cut the strap to fit and secure locking pins.
- Assign MTD, Base Unit, and Bracelet to offender in PCE Hardware tab
- SAVE**
- Place MTD in Base Unit and follow Activation Procedure on page 8
- Take unit outside to acquire GPS. Wait for Activation Successful message
- Have the MTD call in. Allow a few minutes for the unit to connect to the data center
- Display Last Position in PCE
- The map and one GPS tracking point will appear

Deactivation

- Choose offender in PCE
- Go to Hardware tab
- Choose Deactivate Hardware and Commit
- Select a reason for the deactivation of the MTD

FCC Statement

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 of the following measures:

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

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. 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.

SAR Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

The max SAR value as measured in the SAR report is 0.983W/Kg.

The belt clip is designed to maintain a safe distance between the equipment and the user's body. Do not attach the equipment to the body using any non-approved accessories. Using unapproved accessories may violate FCC RF exposure limits.