

# BI TAD<sup>®</sup>

Transdermal  
Alcohol Detector



BI TAD<sup>®</sup> offers both alcohol monitoring and curfew monitoring in one piece of equipment.

## Alcohol Monitoring + Reliable Curfew Monitoring

Until now, corrections agencies, courts and treatment providers have had limited options for alcohol monitoring. Backed by the electronic monitoring industry leader, BI TAD is a pioneering device that offers objective, reliable alcohol monitoring and radio-frequency (RF) curfew monitoring in one unit.

## Product Overview

BI TAD provides alcohol monitoring and relies on radio-frequency (RF) technology to report alcohol events to officers. Using transdermal technology, TAD is an ankle-worn device that senses alcohol through the skin. It detects and reports alcohol events over a 0.020 transdermal alcohol concentration (TAC) threshold. Installed in the client's home, the BI HomeBase receiver collects alcohol events and reports them to the central monitoring computer. To accommodate the growing needs of clients without a landline connection, HomeBase is offered with cellular capability.

To detect a potential drinking event, the alcohol detection module on the back of the device monitors moisture and vapor excreted from the client's skin for alcohol. If a client exceeds the 0.020 TAC threshold, an alcohol event will be recorded and transmitted to the central monitoring computer when he or she comes within 50 feet of the HomeBase.

## Simultaneous Curfew Monitoring

For agencies that perform alcohol and curfew monitoring, TAD provides a comprehensive solution in one product. Agencies are able to eliminate inventory management issues by using TAD for clients on alcohol and RF monitoring. Using the proven 314.2 Mhz frequency and the same RF monitoring technology trusted in other BI products, TAD is capable of monitoring the presence or absence of a client in the home. If a violation is detected, an alert is generated, and the supervising agency or officer is notified.

BI HomeBase is available with  
landline or cellular service.



## Key Features

### BI TAD

- Size: 2.7 x 2 x 3.4 inches
- Weight: 8 ounces
- RF operates on 314.2 Mhz frequency
- Calibration every 6-months
- Multiple modes of tamper detection
- Water resistant
- No client testing or initial training needed

### BI HomeBase

- Variable range for curfew monitoring – 35, 75, or 150 feet
- 48-hour backup battery
- 90,000 message buffer
- Landline or cellular compatibility
- Multiple alert notification methods (fax, page, e-mail, text message)
- Hello calls logged with every download (4 hour default)

### Compatibility

- BI ExacuTrack®
- BI ExacuTrack® One
- BI Drive-BI®

## Easy-to-Use & Secure

Because TAD is ankle-worn and easy to install, it removes the complexity associated with many hand-held breath alcohol testing devices. Client enrollment in the software is simple and doesn't require any initial client testing, training or participation. In addition, TAD incorporates several tamper detection technologies including:

- Proximity detection gauges the unit's proximity to the client's leg.
- A motion sensor to record the amount of time the unit is stationary, which may indicate it has been removed from the ankle.
- A skin contact sensor to ensure the client is not blocking the alcohol reading.
- A fiber optic strap to detect attempts to compromise or cut the strap.

Combined, these technologies provide comprehensive protection against client tamper attempts and help to ensure system integrity.

## The Technology Behind TAD

TAC levels can be correlated to blood alcohol content (BAC) levels, but not at a precise time because it takes much longer for alcohol to reach an individual's perspiration than to enter his or her bloodstream. Thus, alcohol events are reported after the fact since there is an inherent delay in transdermal alcohol testing. TAD uses a proprietary algorithm that provides a baseline for each individual wearing the device and enhances testing accuracy.

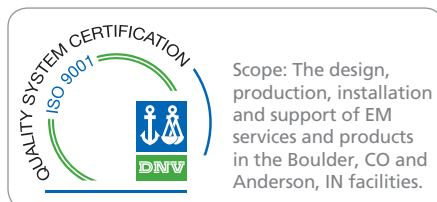
## Court Validated, Single-source Admissibility

Results generated by TAD stand on their own – no secondary or backup testing is needed. TAD has single source admissibility for court and revocation hearings and has met the Daubert standard of scientific evidence admissibility.

## Compatibility with the BI ExacuTrack GPS Series

In addition to providing RF and alcohol monitoring, TAD can be used in conjunction with active or passive GPS tracking. This capability for RF, alcohol, and GPS monitoring in one system simply requires an ankle-worn transmitter each for both alcohol and GPS monitoring.

**To learn more about TAD, call 360.486.2380.**



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