

A-Measure[®]

Observe. Measure. Explore.



The A-Measure Platform measures human decisions and actions in mission-critical environments. Made up of three products, A-Measure allows you to track, analyze, store, understand, and visualize human performance in real time. These three products can be used as an integrated system, individually, or in specific combinations, depending on the customer's needs.

PM Engine™

PM Engine is A-Measure's system-based measurement tool. PM Engine works with any type of data, allowing you to quickly implement new ways to connect to different data sources, including: neurological, physiological, simulator data (HLA, DIS), built-in instructor operator station control, communications, and audio. All of these data sources—and others—can be connected into PM Engine.

The core power behind PM Engine is the ability to take in all of the different types of data, fuse it into one data model, and allow users to analyze and run computations on top of that data to provide a better understanding of exactly what is going on in the training environment. Users can then pull out critical information, link it to performance, and assess how well an individual or team is performing in that environment.

PM Engine's layered calculation tree allows you to quickly identify key areas that are failing or succeeding in the training experience. With PM Engine, you don't just have the final end state, but rather a complex set of contexts of where exactly the training failed—information that is extremely important for determining where a team or trainee needs to perform better.

With A-Measure, all measures are written and processed in an emerging SISO standard: **HPML (Human Performance Markup Language)**. HPML provides both a schema for representing measures, and a means to report results and assessments.



SPOTLITE®

To understand what is going on inside an instructor's head, in the team dynamics, or inside the student's thought processes, A-Measure's SPOTLITE tool provides observer-based measurement. Used with PM Engine or as a standalone application, SPOTLITE allows observers to subjectively rate and understand the performance of students and instructors in real time. SPOTLITE is a mobile application that offers the user the flexibility to move around within the training environment to maximize situational awareness as the training exercise unfolds.

SPOTLITE also connects to third-party external devices, including Sociometric Badges®, security and action cameras, and other sensors, providing additional measure collection mechanisms to understand the full training picture.

SPOTLITE combined with PM Engine allows you to do even more:

- **Trigger new measures** in SPOTLITE from system data coming from PM Engine
- **Instantly aggregate and display results** with SPOTLITE's integrated Review/AAR interface and/or with A-Measure's real-time Performance Dashboard
- **Reduce workload** by focusing attention on trainee or team state
- **Capture and store important performance results** for trend analysis

Performance Dashboard™

The Performance Dashboard is A-Measure's data front-end. The Performance Dashboard features web-based displays and filtering tools that allow you to analyze performance data captured by PM Engine and SPOTLITE, in both real time and post mission (e.g., debrief, After Action Review). In real time, you can see performance results as they are captured, allowing you to gain and maintain an accurate understanding of trainee state and make timely adjustments to the training environment, as needed, to better the development experience.

The Performance Dashboard provides rich displays that allow you to look at the performance results and determine areas where trainees are succeeding or struggling, and determine opportunities for constructive intervention. The Performance Dashboard also displays trends across time and/or variables to help instructors diagnose problematic training areas and identify solutions.

Measures and assessments are generated in the **A-Measure Server Application—the ASA™**—a SQL server database that allows instructors and users to store and persist team and individual training information. Performance results are stored in relational tables that label the data according to desired meta information such as task/event type, conditions, standards, date, location, and learning objectives. In addition, the ASA stores measures to recall and use later in SPOTLITE and PM Engine. The ASA also provides a number of services for exporting that data into the format of your choice, as well as providing that information in a number of different After Action Reviews (AARs) and trend analyses.

A-Measure[®]



Versatile Data Integration

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