



Argus Science *ETMobile*

Eye Tracking System

ETMobile

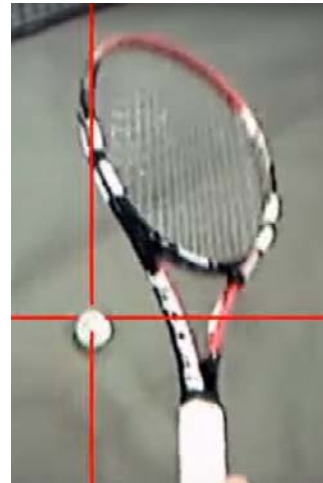
The *ETMobile* eye tracking system is especially suited to applications that require unobtrusive head gear, and unconstrained movement of the participant, including untethered movement over large areas. Eye movement and point of gaze information can be collected at either 30 or 60 Hz update rates, during performance of natural tasks under variable light conditions.



The system is designed to handle the increasingly diversified demands of eye tracking in a variety of applications including Sports, Kinesiology, Driving, Market Research, Reading, Safety and Training, social Interaction, Neuroscience, Mobile Device Usability, and much more.

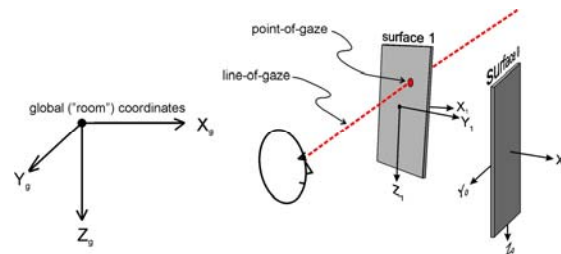
The participant wears lightweight ETMobile glasses that fit comfortably with unoccluded peripheral vision, and flexibility to fit all facial shapes and sizes. The glasses are connected to a small data recording / transmission unit (DTU) that can be easily carried by the participant on a belt loop, or worn as a small back or lumbar pack.

The data can be monitored and recorded using a real-time Wi-Fi connection to a laptop PC, or can be recorded locally by the DTU (unit carried by the subject) for later playback.



ET3Space

The ETMobile system can integrate with numerous commercially available position tracking systems to implement the Argus Science *ET3Space* function. *ET3Space* is used to find line of gaze with respect to real environment 3 Space coordinates, and point of gaze with respect to multiple physical surfaces in the environment. (See separate *ET3Space* brochure).





Argus Science

One Eye Tracker for Multiple Applications

The ETMobile glasses, combined with new Argus Science SceneMap or StimTrac data analysis technology and the ETAnalysis program, allows use of one eye tracker for multiple applications which, in the past, would have required different types of eye tracker systems.

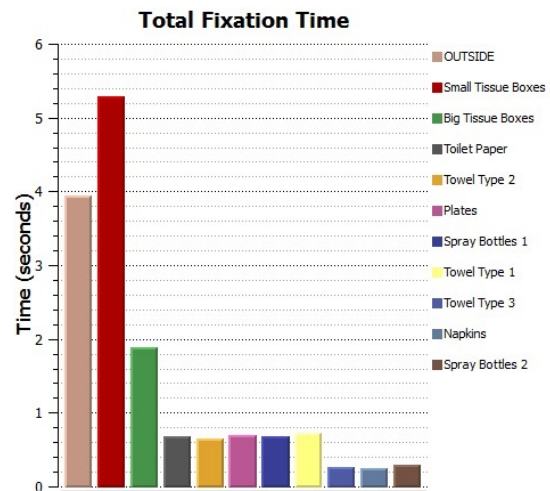


The advantages of analyzing data collected by a desktop eyetracker, when the participant is seated in front of a display monitor, can now be realized with ETMobile eye tracking glasses by using the optional Argus Science StimTrac (Stimulus Tracking) feature.

For certain environments, the Argus Science SceneMap (Scene Camera Mapping) feature can be used to collect data that includes the participant's head location in space and point of gaze with respect to multiple objects in the environment without requiring a separate head tracking device.

Features

- Allows unconstrained and untethered movement over large areas
- Very light and unobtrusive head mounted optics built onto safety glasses frames.
- Completely unobstructed field of view.
- 30 or 60 Hz data update rate.
- Argus *ET3Space* feature, with external head tracker, can be used to find line-of-gaze with respect to 3 dimensional environment coordinates, and point-of-gaze on multiple stationary surfaces.
- Optional Argus StimTrac or SceneMap features analyze gaze with respect to stationary surfaces, without use of an external head tracker.
- Flexible and powerful data analysis with Argus ETAnalysis software.
- Real-time network communication between ETMobile PC and external devices.





Argus Science

ETMobile Specifications



ETMobile SYSTEM	
Eye Tracking Technique	Dark Pupil
Eye Tracking	Monocular, Right Eye
Speed	30 Hz/60 Hz
Accuracy	0.5 degrees
Microphone	Yes
Firmware	Embedded O/S
Calibration	Automatic
Calibration Validation	Yes
Post Calibration	Yes
Outdoor Enhancements	Yes
Synchronization w/ external source	Available

ETMobile Glasses	
Color	Metallic, Silver, Black
Adjustable Monocle	Yes
Exchangeable Scene Lens	Yes, up to 96°
Frames for Glasses	Yes
Children's Optics	Yes
Sensor Resolution	1600 x 1200
Visual Range	60 Degrees Horizontal, 40 Degrees Vertical
Weight	63 g (0.14 lbs)



ETMobile RECORDER (DTU)	
Display	5.7 inch LCD
Controls	Touch Sensitive
Storage Media	SD HC Card
Maximum Card Size	32 GB
Maximum File Size/Recording	4 – 32 GB
Maximum Recording Time	> 3 Hrs
Main Battery	Rechargeable Li-Ion Smart Battery
Main Battery Life	Up to 4 hours
Dimensions (Length x Width x Depth)	192 x 118 x 50.8 mm
Weight (with Battery)	782 g (1.72 lbs)
Connection	802.11n WLAN or Gigabit Ethernet LAN



37 Westech Drive
 Tyngsborough, MA 01879
 info@ArgusScience.com