

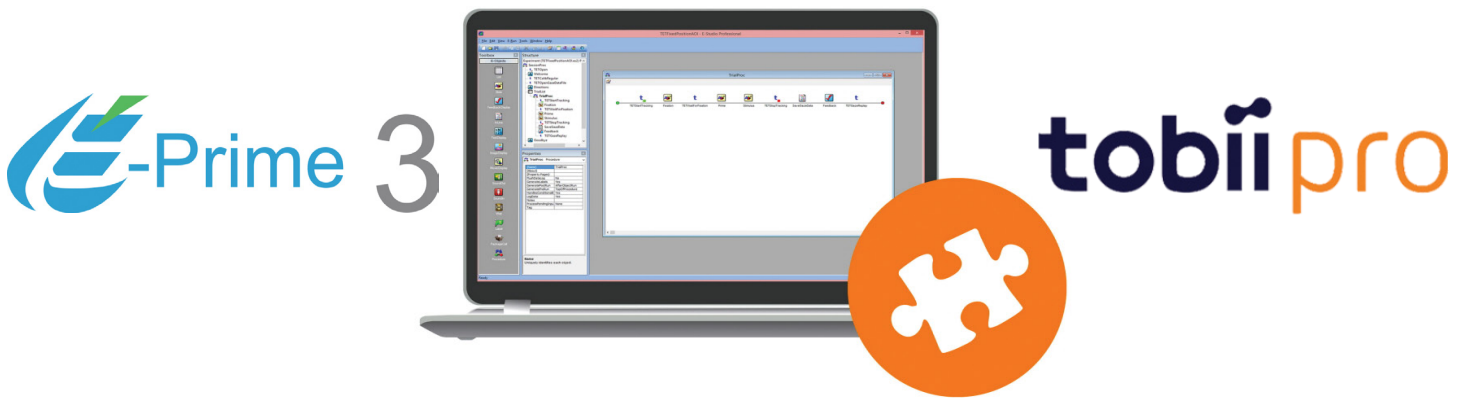
# E-Prime® Extensions for Tobii Pro

Eye tracking swings into view for behavioral research

E-Prime® Extensions  
for Tobii Pro



E-Prime® Extensions for Tobii Pro combines the power of E-Prime with easy to use Tobii Pro eye trackers. The E-Prime Extensions for Tobii Pro includes the script necessary to integrate E-Prime with Tobii Pro eye tracking technology. E-Studio's graphical design interface allows users to drag and drop eye tracking functionality into existing E-Prime experiments or to easily create new E-Prime eye tracking experiments.



## Customized To Fit Your Needs

Usability analysis

Psychological studies

Visual perception research

Human factors research

Advertising studies

Reading and dyslexia studies

Infant and children studies

Low vision studies

Flight and driving simulators

Eye based computer interaction



## Supports multiple types of studies:

- Diagnostic and Interactive
- Face perception and recognition
  - Infant studies
  - Reading (sliding window)
  - Attention patterns and behavior
  - Visual search
  - Scene recognition
  - No head restraint necessary
  - Seamless E-Prime integration

## Superior quality you can expect from E-Prime and Tobii Pro

Add eye gaze and eye movement capabilities to your existing E-Prime experiments. Create new paradigms with E-Studio's graphical design interface, now updated to include all the code necessary to interact with the Tobii Pro Eye Tracking technologies. Combine the full power of E-Prime's scripting and interface components with Tobii's easy to use eye trackers.

### E-Prime Features Include

- Millisecond precision for stimulus presentation and inter-stimulus timing.
- Comprehensive: Accommodates simple to complex experiments from design to analysis.
- Graphical design interface illustrating experiment structure at a glance.
- Full scripting language affording tremendous flexibility and power to the system.
- Supports a wide range of devices including sound, display, mouse, PST, keyboard, and ports.
- Present text, images, movies and sound.
- Basic support for interfacing with external devices (e.g., EEG, MRI, Eye Tracking).
- Create AOIs using Button sub-objects.



### Extending Research Possibilities

- Train subjects to fixate and control eye movements
- Give feedback on vigilance or attentive behaviors
- Combine eye gaze data with E-Prime condition data for powerful analysis
- Create interactive or passive eye tracking paradigms
- Create paradigms which change based on subject eye gaze data, AOI hit tests, fixation, and user interaction
- Allows for the use of Tobii Pro Eye Tracker as a straightforward input device for E-Prime
- Supports multiple AOI's. Regions are defined dynamically as stimuli are drawn to the screen
- Supports dynamic definitions of fixation and dwell time
- Enable your current paradigms to use eye tracking to corroborate subject compliance, fixation, and cognitive strategies
- Enable your paradigm to show feedback for training purposes
- Start and stop trials contingent on eye gaze, fixation, or eye movement criterion
- Tobii Pro Eye Tracker support added directly to the E-Studio experiment design environment
- Code library to allow additional run time processing of data
- Calibrate inside or outside of E-Prime
- Three types of calibration inside of E-Prime (regular, manual, infant)
- Import stimulus images generated by your paradigm, to use with other eye tracking analysis software (including Tobii Pro Studio)
- Allows the overlay of eye gaze data with your E-Prime stimuli
- Stop and start eye tracker to collect data selectively
- Include validity data for eye tracking quality, to allow the filtering of data
- Filter subject data based on eye gaze, fixation, and eye movement criterion
- Three modes of timing synchronization (none, local, and server)



### Includes

- Library of sample paradigms: used for learning and paradigm adaptation.
- Support: E-Prime support and Tobii Pro hardware support.

### Requirements

- E-Prime 3.0
- Tobii Pro eye tracker (e.g., TX300, X3-120, X2-60)

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