



## PT Mini



### Physical Characteristics

Eye tracker glasses	30 g (1 ½ oz)
Data storage module mass	1500 g (3 lbs)
Data storage module dimensions	25 cm x 19 cm x 6 cm (10" x 8" x 2")
Eye dominance	Left eye, right eye, or adjustable versions (Enquire for binocular versions)

### Recording

Resolution	720 x 480 pixels at 30 frames / second
Battery life	Up to 5 hours between charges
Capacity	Over 10 hours of storage between dockings to a host PC
Lighting	Any lighting condition (including the dark) Dynamically updates to changes in ambient light

### PC Integration

Connectivity	USB 2.0
Operating system	Microsoft XP or Vista (also works with MacOS Bootcamp)
Special I/O boards	None

### Eye Tracking

Accuracy	1°
Field-of-view	60°

#### Output

##### Video

Eye Gaze	Augmented graphical cross hair on each video frame
Fixations	Augmented graphical circle on each video frame according to user specified angle and time thresholds

##### Logs

CSV Files	Detailed time stamps, pupil location, fixation data, and user specified tags for each video frame. Compatible with almost any data analysis software (SPSS, SAS, MS Excel, Matlab, etc.)
-----------	--

+1 (604) 710 1442  
[info@locarna.com](mailto:info@locarna.com)  
[www.locarna.com](http://www.locarna.com)



## Competitive Advantages

### Primary Differentiators

Robust calibration	<ul style="list-style-type: none"><li>▪ Faster calibration than existing eye trackers – 90 sec. or less</li><li>▪ Maintain calibration longer – over 1 hr.</li><li>▪ Highly mobile: subject can roam freely or remain stationary</li></ul>
Best algorithms	<ul style="list-style-type: none"><li>▪ Innovative, proprietary pupil detection algorithms</li><li>▪ Most consistent tracking – no random fitting</li><li>▪ Excels for all skin colors, eye colors, and facial features</li><li>▪ Automatically adjusts for makeup (e.g., mascara)</li><li>▪ Automatically adjusts to users under the influence of drugs</li><li>▪ Dynamically adjusts to ambient lighting changes</li></ul>
Fastest data analysis	<ul style="list-style-type: none"><li>▪ Aggregate data up to 10x faster than existing eye trackers</li><li>▪ Leverages latest visual attention research</li></ul>

### Design Highlights

#### Eye Tracking

Accuracy	<ul style="list-style-type: none"><li>▪ 1° - 2° (limited to natural body movement)</li></ul>
Pupil detection	<ul style="list-style-type: none"><li>▪ Augmented graphical cross hair on each video frame</li></ul>
Fixation detection	<ul style="list-style-type: none"><li>▪ Augmented graphical circle on each video frame according to angle and time thresholds specified by user</li></ul>
Weight	<ul style="list-style-type: none"><li>▪ Eye tracking glasses weigh only 3 oz (75 g)</li></ul>
Logs	<ul style="list-style-type: none"><li>▪ Detailed time stamps, pupil location, fixation data, and user-specified tags for each video frame.</li><li>▪ Standard ASCII file output compatible with almost any data analysis software</li></ul>

#### Mobility Options

Real-time display	<ul style="list-style-type: none"><li>▪ Real -time display on recorder unit screen</li><li>▪ Real-time eye gaze display on a remote nearby monitor to support immediate field notes and qualitative processes</li></ul>
-------------------	---

+1 (604) 710 1442  
info@locarna.com  
www.locarna.com

