

*Detect where people look at*



# **EMR ACTUS**

*CALIBRATION FREE Eye Tracker*



**EMR ACTUS** enables you to conduct eye tracking without calibration process by cutting edge "**CALFREE**" technology. It achieves stressless measurements to capture massive number of examinees, difficult subject such as infant or subjects with low attention.

Measured data will be statistically analyzed by newly developed software "EMR- dStream"



## Advantage of Calibration Free

### ■ Enable to measure mass examinees in a series of events

EMR ACTUS does not require a calibration process for each examinees because of CALFREE technology. Measurement instantly starts just after examinees stand or sit to the designated position. This technology will contribute for a measurement in a large number of examinees such as Marketing research.



### ■ Corresponding measurement to a difficult examinees such as infant and handicapped People.

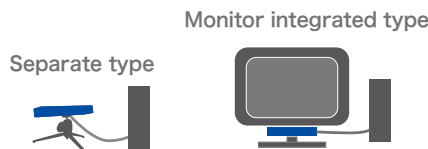
EMR-Actus fits to various kinds of eye tracking. This system also equips CAL mode which is valuable for a measurement requires more accurate data. In addition, CAL marker can be set to any still picture such as character which would be more easy to attract examinee's attention.



## Extensibility of EMR ACTUS

### ■ Monitor integrated CALFree unit

CALFREE is an expandable optional function. Detection unit can be used for both monitor integrated and separate type. Setting of CALFREE unit is connecting only one cable and it does not require adjustment for each measurement.



### ■ Simultaneous measurements with other peripheral devices.

This system provides Event input/output signal by voltage signal(TTL) or contact signal. It makes possible to conduct simultaneous measurements with other devices.

### ■ ACTUS SDK

EMR ACTUS provides SDK which makes possible for each users to control EMR ACTUS by own program. This would contribute to create program such as automatically data acquisition and analysis or the device which is controlled by eye data.

## Analysis by EMR-dStream

### ■ Heat map display

Visualization for attention level by color temperature between blue to red.



### ■ Gaze Point display

Easy to extract order and number of gaze point which defined by the user.



### ■ AOI analysis

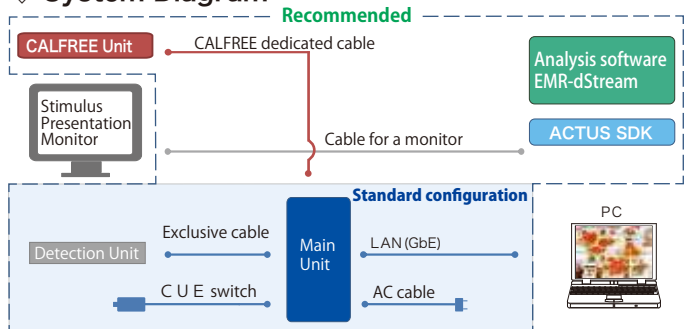
Extract duration and frequency of eye to the designated area by user.



## ◇ Specification

<b>Algorithm</b> : Corneal reflection / Pupil (dark pupil)
<b>Sampling rate</b> : Binocular 60Hz
<b>Detection Resolution With calibration Accuracy</b> : 0.5deg/Resolution :0.3deg CALFree Accuracy: 4.0deg/Resolution: 2.0deg
Pupil diameter 0.1mm /Detection range: 2.5mm~7.0mm
Operational distance(eye tracker to subject)500mm~800mm
Freedom of head movement 475(W)x 360mm(H) at operational distance 700mm
Output data: gaze position, pupil diameter, eye position, time stamp, cue signal
<b>Dimension/Weight Detection Unit</b> : 235 x 30 x 45mm/440g
<b>Main Unit</b> : 300 x 228 x 110 mm/3.5kg
<b>CALFREE Unit</b> : 693 x 484.5 x 71.5 mm/2.3kg AC 100~240V, 50/60HZ

## ◇ System Diagram



Specifications and appearance of the product are subject to change without notice.

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