



nac Image Technology introduces the latest in Eye Tracking Systems... *The Eye Mark Recorder EMR-9*

nac Image Technology introduces the EMR-9, the latest development in eye tracking measurement and analysis systems. The EMR-9 is a truly mobile system that offers significant reduction in size and weight over traditional eye measurement systems. This allows the subject to move freely and unencumbered in their natural environment. The EMR-9 records data to a compact SD memory card. This SD memory card can then transfer the data to a PC where detailed statistical analysis can occur using EMR-dFactory, our optional software analysis package. Finally, the EMR-9 offers detection and sampling rates up to 240 Hz, ideal for active and mobile participants.



Glasses-Type Head Unit



Cap-Type Head Unit

Features

- Lightweight**

Binocular, cap type Head Unit is 150 g, binocular, glasses type Head Unit is 75 g, controller unit weights 590 g (excluding battery).
- Easy to Use**

Auto binary image adjustment, measurement can be quick and easy.
- Versatile**

Both single and dual eye models are available.
- Fast Sampling**

Sampling rates from 60 Hz to 240 Hz are available, enabling high-speed measurement in single and dual eyes.
- Compact Data Storage**

Compact SD memory card inside the controller unit holds about one hour of video and data measurements.
- Real-time Display**

Video footage of the field of view as well as trajectory and fixation points are displayed in real-time video output.
- Wireless Option**

EMR-dStation software allows you to control the EMR-9 via wireless LAN from a PC. It also allows you to transmit video and audio via wireless LAN from the EMR-9 to the PC.
- Data Analysis**

EMR Analysis using EMR-dFactory (ver. 2.1 or later) enables complete quantitative of EMR-9 data. Includes (but not limited to) detailed analysis of gaze, fixation, blink, angle of convergence, and pupil reaction data.

Preliminary Specifications

Detection Method	Purkinje (Pupil / Cornea Reflection) Method, Pupil Center Method
Sampling Rate	60Hz / 120Hz / 240Hz (Sampling rate of 120Hz / 240Hz is available on the 240Hz model.)
Detection Resolutions	Eyeball Movement: 0.1 deg. in horizontal and vertical Pupil diameter: 0.02mm
Detection Range	Eyeball Movement: +/- 40deg. in horizontal, +/- 20deg. in vertical Pupil diameter: 2.5 – 7.0mm
Head Unit	Cap-type or Glasses-type
View Lenses	44 (standard), 62, 92 and 121 deg. (options)
View Finder (option)	3.5" LCD
Video Recording	MPEG4, 640x480
Data to be recorded	View image with eye marks, audio, measurement data (in binary format)
Storage Media	SD card (a specified SD card)
Recording Time	Approximately 60min. (with/ a specified SD card of 2GB, Class 4)
Network	100base-TX, wireless LAN using EMR-dStation (option)
Event Signal Output	Event signal is output according to settings of pupil diameter, number of blinking, a duration of fixation points
Data Analysis	EMR-dFactory (option, ver.2.1 or later)
Input Signals	Counter reset signal (TTL/contact), Cue signal (TTL/contact)
Output Signals	Video (View image superimposed with eye marks, counter), Audio (mono), Serial data (frame counter, XY coordinate data of gazing point, pupil diameter), Event signal (TTL)
Power Source	100-240Vac (via the standard AC adapter), or the optional battery
Power Consumption	Approximately 21watts
Operational Temperature	0-40deg.C, 30 ~ 80%RH, No dew
Weight	Glass-type Head Unit: approx. 75g Cap-type Head Unit: approx. 150g Controller: approx. 590g
Size	Controller 85(W) x 147 (D) x 63 (H) mm

Please Note: Above specifications are subject to change without notice.

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