

# RED250

## Technical Specification



Human interface design	Contact-free, remote-controlled infrared eye camera with automatic eye and head tracker Modular design - integrated with 22" widescreen monitor (19" optional) and stand-alone setup for TV and projections
Eye tracking principle	Non-invasive, image based eye tracking Pupil with corneal reflection
Temporal resolution	250Hz binocular (120Hz, 60Hz)
Spatial resolution	<0.1° (typ.)
Gaze position accuracy	<0.4° (typ.)
Operating distance	60cm-80cm (subject to Eye Tracking Device)
Tracking range (head box)	40x40cm at 70cm distance
System latency	<10ms (typ.): 250Hz; <17ms (typ.): 120Hz; <25ms (typ.): 60 Hz
Processing latency	<2ms (typ.)
Gaze tracking range	40° horizontal (+/- 20°), 60° vertical (+20/- 40°)
Eyewear compatibility	Works with most glasses and contact lenses
Real-time operator feedback	Gaze position, pupil diameter, pupil position, corneal reflex position, tracking status, eye image
Digital data access	Network connection (Ethernet/UDP), serial port (RS-232), Optional Direct AOI™ port (16-channel TTL I/O)
Norm compliance	CE Declaration of Conformity  Electrical Safety EN61010-1:2001  Eye Safety EN60601-1-2 + EN55011, class B

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