

# SafeMatch® Clinical ID System

## Technical Specifications

### SafeMatch® Secure Server

Software	Eye Controls SafeMatch® software, developed for the medical field by the team that pioneered iris ID for airport security and immigration.
Iris Matching Engine	Retica iris recognition algorithms, selected by the U.S. Department of Defense for very large database operations
Capacity	1,000 to 1,000,000 active records per server, unlimited inactive records. Larger databases supported through special licensing
Data Security	All pattern data is stored in the secure server
Privacy Protection	Iris pattern data is stored in the server's data vault with a unique identifier assigned by the facility. No personal identifying data is attached to the record. The iris pattern data is useless outside the system and cannot be easily linked to the individual; in the unlikely event of a security breach, patient privacy remains uncompromised.
Network communications	Encrypted TCP/IP, communicates securely with authorized clients located anywhere on LAN, WAN, or internet

### LifeSaver® LS-1 Camera

Form factor	Compact handheld, staff operated for self-identification and patient identification
Optical subsystem	2.0 megapixel autofocus CMOS camera with high resolution multi-element lens
Computer Interface	Six foot (2m) heavy-duty shielded USB data cable carrying USB 2.0 high speed digital data channel
Target Iris Illumination	Safe, low power Light Emitting Diodes
Operator Audiovisual Cues	Visual: - Front and rear LED range indicators - Front and rear mirrors and sight - On-screen camera video Audible: - Piezoelectric sounder - Verbal instructions through computer audio
Processing capacity	On Board High Speed digital video Processor and Dedicated custom ASIC device control processor
Safety/Regulatory	Contains no lasers or other harmful light sources. Complies with all applicable U.S. safety standards and FCC regulations
Housing	Hospital grade injection-molded housing.
Power	Powered via USB cable, standard 5.0 V DC at <500 mA.
Dimensions	6.5" long x 1.75" wide x 1.5" deep (16 x 4.5 x 4 cm)

### SafeMatch® Client Software

Client software	Eye Controls SafeMatch® client software with integrated dynamic camera control and automatic eye finding capability
Client computer requirements	Microsoft Windows XP or Vista system, with available USB 2.0 port providing standard 5 volt DC power at 500 mA.
Medical software interface	Makes an "ID service" available to any authorized software running on the client PC. Authorized programs call on the service to enroll or identify an individual. The system instantly translates the iris pattern into the facility's unique identifier for that person and returns the identifier to the calling program.
Medical software compatibility	Easy interfacing to any software package. "SafeMatch Enhanced™" partners offer EHR/EMR solutions with turnkey integrated support for the SafeMatch® system. The SafeMatch® Software Development Kit is available to vendors and customers for interfacing other systems. A universal Windows interface connects the system to legacy software without modifications.
Server communications	Encrypted TCP/IP, communicates securely with server located anywhere on LAN, WAN, or internet
Server compatibility	All versions and capacities of SafeMatch® ID server software and SafeMatch® Enterprise Class ID server software
Surreptitious ID Capability	Never. SafeMatch® systems are designed to enhance patient safety and privacy by identifying people only when they knowingly consent to ID by looking at a camera at close range. Eye Controls warrants that it will never develop or permit use of a long range ID or so-called "iris on the move" camera with the SafeMatch® Clinical ID system and pattern data format.



Designed and Manufactured by  
**Eye Controls**

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