L-1 IDENTITY SOLUTIONS
SECURIMETRICS IRIS SOLUTIONS

PIER 2.4

PIER™ 2.4 Features and Benefits

- High Capacity Storage

  Now with double the memory and storage, the PIER can hold a database of 200,000 iris templates (100,000 individuals) allowing for large watchlist remote Identifications.

- Deployed Technology

  4,000 PIER™ devices are in deployment throughout Iraq, Afghanistan, Bosnia and other areas of conflict.

- IP Configurable Device

  Allows for quick and easy network connections and high speed data transfer.

The Next Generation PIER

The Most Effective Means of Iris Identification Available

The PIER™ (Portable Iris Enrollment and Recognition) is a rugged hand-held device that allows the operator to enroll and identify individuals using the highly unique patterns and textures of the human iris. The PIER 2.4 can store a database of 100,000 individuals (both left and right eye) and quickly return the identity of the subject. When tethered to a PC, the device can identify an individual compared to a database of millions with extremely high accuracy.

How It Works

The PIER 2.4 includes state-of-the-art lenses, a high-resolution video sensor, dual band illumination, and a bright LCD screen to capture an exceptionally high quality image of the iris. The iris industry standard L-1 Daugman 2Pi algorithm then processes the detailed information contained in the iris image and converts it into a binary template. The stored template is then used to quickly, accurately, and effectively identify an individual by matching a newly captured iris image to the onboard database. Due to the ease of use and speed of identification, the PIER is the most effective means of iris identification available.

Deployments

Over 4,000 devices integrated or deployed by:

- U. S. Army, Battle Command Lab
- Navy
- Marines
- Army
- Other DOD and non-DOD Agencies
- U.S Law Enforcement & Corrections

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Why Iris?

Iris recognition is considered the fastest, most accurate, and scalable of all biometric identification technologies. Once the iris is completely formed, within the first few months of life, the structure remains virtually unchanged throughout one's lifetime.

The iris contains vast amounts of complex textures unique to each individual and useful for identification. The iris is so unique that it is not only different between identical twins, but it is also unique between an individual's right and left eye. Iris recognition technology is noninvasive and completely safe.

PIER™ 2.4 Specifications

Item	Description	Comment
Physical Dimensions	Height	6 inches (153 mm)
	Width	3.5 inches (89 mm)
	Depth	1.8 inches (46 mm)
	Weight	16.5 oz. (468 grams)
Hardware	CPU	133Mz, X86
	Display	240 x 320 LCD touch screen
	Memory – RAM	256MB
	Storage – Flash	512MB
	Battery	4400 mAh rechargeable, 3 hours of continuous use, 8 hours standby
	Connectivity	TCP/IP using Ethernet 10/100, serial port
Image Capture	Sensor Size	1/3" CMOS
	Resolution	640 X 480, 8 bit grayscale
	Frames/Sec	Approximately 15
	Focal Distance	4" – 6"
Illuminators	Infrared Illumination	IR & Near IR Illuminators (Safety tested)
Accessories	Power Supply + cord	For charging PIER device
	Carrying Case	Ballistic Nylon

"We believe that the use of biometrics, specifically iris recognition, in the War on Terror could help prevent another 9/11 from happening. SecuriMetrics' handheld device allows flexibility of use on the battlefield and provides a level of accuracy we have not seen before with biometrics. If the use of these devices can save just one life, we will have received benefit from our investment. Our goal is to use them to save many lives and win the War on Terror"

Lieutenant Colonel Kathy DeBolt

US Army Battle Laboratory

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