L-1 IDENTITY SOLUTIONS™
BIOMETRICS DIVISION

Rugged Cost-Effective Iris Acquisition System

The Tethered PIER™

The PIER-T™ (Portable Iris Enrollment and Recognition -Tethered) is a compact, rugged, hand-held iris image acquisition device that allows the operator to easily capture a high quality iris image for both enrollment and identification while tethered to a host PC or laptop.

PIER-T™ Features and Benefits

• Ruggedized

  Aluminum case provides extra durability for use in harsh environments.

• Handheld Design

  Portable, lightweight, and easy to carry.

• Bright LCD Screen

  Facilitates easy and accurate image capture and data display.

• User-friendly Interface

  Designed for ease of use in stressful environments

How It Works

The PIER-T 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. To process the detailed information contained in the iris image, the PIER-T forwards the image to a host PC for algorithmic processing. The processing occurs through the use of the industry leading Daugman algorithm, which turns the image into a unique binary template, known as an IrisCode™. The template is then used to quickly, accurately, and effectively identify an individual by matching a newly captured iris image to an existing iris template stored on a server.

Deployments

PIER-T has been integrated and deployed globally:

• Biometric Application Toolset (BAT)

• Navy

• Marines

• Army

• Other DOD and non-DOD agencies

• Reliance Industries (India)

• The U.S. Registered Traveler Program

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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.

"We believe that the use of biometrics, specifically iris recognition, in the War on Terror could help prevent another 9/11 from happening. L-1's 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
Fort Huachuca, AZ

PIER-T™ Specifications

Physical Dimensions	Height 3.5 in (90 mm); Width 5.0 inches (125 mm); Depth 2.6 inches (65 mm); Weight 12 oz. (340 grams)
Hardware	CPU: TI dual core processor Display: 220x176 color Memory – RAM: 32 MB Memory – Flash: 64 MB Battery: 1850 mAh Lithium Ion Connectivity: USB 1.1
Image Capture	**Iris Capture Camera:** 640 X 480 (VGA) monochrome
Illuminators	Infrared Illumination: Dual Band IR:(Safety tested)
Accessories	External Power Supply 6 ft USB cable (Mini B)

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