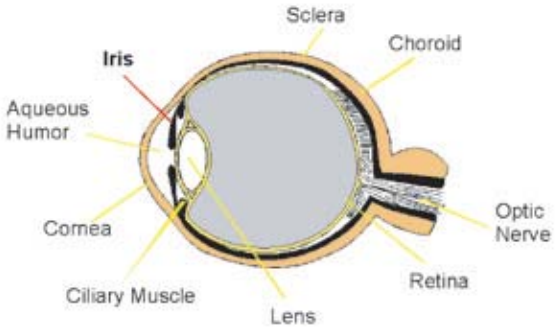
IrisGuard H100
Iris Camera System®

IrisGuard Incorporated

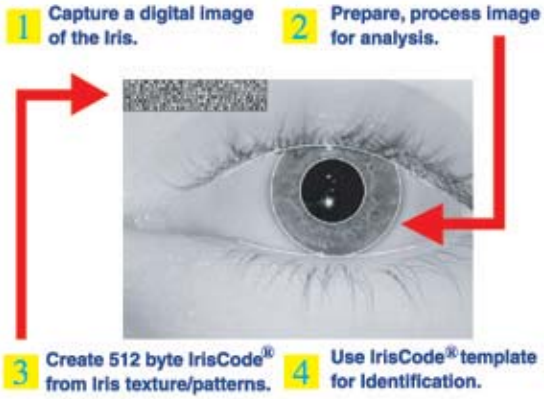
iridian® Proof Positive

An Introduction to Iris Recognition

Iris Recognition involves the ability to acquire an image of the rich pattern details of the Iris which is the coloured ring that surrounds the pupil of the human eye.
The iris begins to form in the third month of gestation and the structures creating its pattern are largely completed by the eight month and remain stable thereafter.
The amount of information that can be measured in a single iris is much greater than fingerprints, and the accuray is greater than DNA thus rendering Iris Recognition extremely suitable as a biometric identifier.



How Iris Recognition Works



The H100 camera takes a black and white picture from 12 to 30 cm distance form the candidate. The H100 camera uses non-invasive illumination that is barely visible and very safe. The H100 camera is in compliance with Iridian Proof Positive and all applicable international illumination safety standards.
Sophisticated mathematical software then encodes the iris pattern to create an IrisCode(TM) template. Each IrisCode(TM) template created is unique and therefore can be used for large scale identification solutions requiring scalability, speed and accuracy. This process allows one-to-all comparisons against large databases of other IrisCode(TM) templates. The IrisCode(TM) template is immediately encrypted to eliminate the possibility of identity theft and to maximize security.

IrisGuard H100 Handheld Camera System

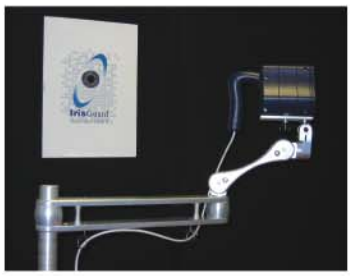
IrisGuard Incorporated is a world's leader in Iris-biometric security technology, offering Iris recognition software solutions and hardware products for large scale identification management systems. Our solutions have been implemented in broad range of industries and markets notably, government and law enforcement in expellee control, border control and airport security verticals. The demands imposed on the image acquisition system through national rollouts have directed us to develop a pristine imager resulting in the development of the H100 Handheld Camera System.
The H100 produces the most accurate iris images to-date for large-scale national databases. We have put our extensive experience into the design of the H100, and the result is a reliable, fast, safe-to-use and scalable camera system.

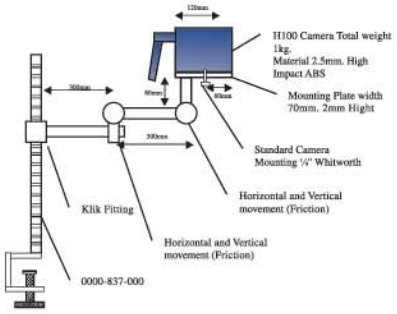
System integrators will appreciate the versatility and accuracy of the H100 Handheld Iris Camera System.
The H100 has the lowest level of emissions on the market today, rendering the safest camera to use. Meeting all eye-safety standards and breaking new grounds in its safety level.
The H100 was designed for versatile positioning where Iris acquisition and enrollment functions can break the legacy limits of the wall-mounted approach.

The H100 can be used as a handheld device, or mounted on an articulated arm, a tripod, a special trolley workstation or as a wall-mounted unit covering a range of heights and tilts, in standing or seated positions and for one or two-person operations.
The H100 was specifically; designed for robust utilization, at passport control facilities, airport kiosks and border control checkpoints etc.
Furthermore, the H100 exploit the standard USB II interface thus allowing your applications to run on Laptop computers without compromising the image quality. Effectively; opening a whole new world of possibilities for mobile Iris solutions.
With the H100 Iris Camera System, you finally have the freedom to innovate.

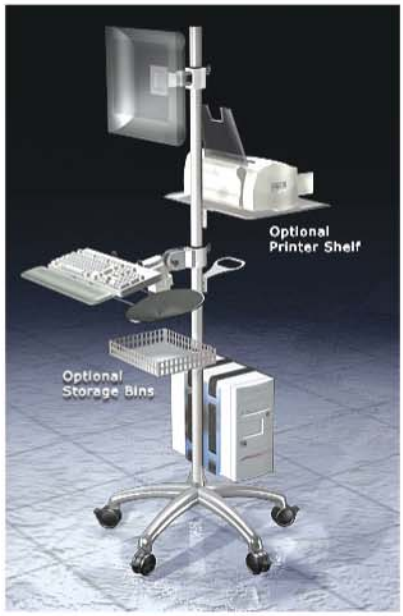
IG-H100 Mounting

Articulated Arm Mount





Trolley Mount



Tripod Mount

Wall Mount

Handheld

IG-H100 Camera Connections

Composite Video Output
Connect to the client PC

12Vdc Supply Input IrisGuard
Mains Power Supply

Camera Control Connect to the serial port on the Client PC

H100 IRT Camera System Specifications

IG-H100 Functions

Mounting	Tripod ¼ Standard Mount or IrisGuard wall and desk mounts
Indicator LEDS Front & Rear	Power Status, Move Back, Move Forwards, Accept, Yield, Reject
Audio	Voice Prompts (English, other languages possible)
User Alignment	Mirror - designed to reduce the effect of dominance.
Acquisition Time	8 shots in < 3 Seconds
Composite Video Output	RS170 (NTSC) Monochrome
Control Input/Output	RS232/USB II
Input Power	12Vdc (2.1mm Centre Positive Socket)
PC Interface	USB II Interface Kit

Imager Specifications

Composite Video	RS170 (NTSC)
Picture Elements	680K Pixels
Horizontal Resolution	470 TVL
S/N Ratio	> 49dB

Electrical Specifications

H100 Supply	+12Vdc (2.1 mm socket)
H100 Current (Standby)	200mA approx
H100 Current (Active)	800mA approx

External PSU

Input Voltage	100 to 263VAc
Cycles	47 to 63 Hz
Current Rating	12Vdc @ 1.2 Amps Max (2.1mm Plug)

General Specifications

Weight	750g approx
Size	120mm x 120mm (excluding handle) approx
Approvals	CE

IG - H100 Accessories

Artuculated Arm Mount
Wall Mount System
Trolley Mount System
LCD Aiming System

- **Iridian Technologies, Inc. of Moorestown, NJ leads the world in research, development and marketing of authentication technologies based on iris recognition the most accurate biometric identifier. Holder of U.S. and international patents on the core concepts and technologies behind iris recognition, Iridian offers the enabling technology to achieve unparalleled security for large-scale ID applications, physical facilities, information networks and electronic transactions.**
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