

## Identix® IBIS Mobile Identification System

Ideal for any application that requires field-identification of a subject. With IBIS, both fingerprint and facial images are captured on a wireless handheld mobile device that transmits to a central site server for validation against a wide range of law enforcement databases. Transaction results are returned to the handheld mobile device, providing identity information in minutes. Improves officer efficiency and safety by eliminating the need to transport the subject to a central location for positive ID.

### SAVES OFFICERS' TIME

In the past, positive identification of a subject required a trip to the booking station, a process that would keep officers off line for two hours or more. With IBIS, the officer makes one request from a handheld device and receives ID information in minutes. Even processes multiple subjects simultaneously.

### ENHANCES OFFICER SAFETY

IBIS provides identity information on-the-spot, so that officers are better informed in a confrontation with an unknown subject. The handheld device is designed for single-handed operation, allowing the officer to maintain a safe distance from the subject while capturing fingerprints. Because IBIS utilizes secure wireless technology, officers do not have to return to the squad car for a response. And, unlike cell phones and two way radios, requests for information and responses cannot be intercepted or overheard by the subject or other individuals in the vicinity.

### HELPS PREVENT FALSE ARREST

IBIS helps to prevent detaining or incarcerating innocent people. By knowing right away if a subject is *NOT* wanted, officers can quickly move on to other tasks, maximizing resources and efficiency. No more time wasted taking an innocent subject to a station house for processing.

### UTILIZES BIOMETRICS FOR MORE RELIABLE IDENTIFICATION

Background searches based on name and date of birth information often lead to erroneous results. With IBIS, non-proprietary NIST compliant forensic quality fingerprint images and photographs are captured for search against AFIS, warrant, mug shot files and other databases. In minutes, the system returns ID information that an officer can trust.



### ADVANCED FEATURES

- Integrates with a variety of databases (i.e., AFIS, NCIC, warrant files, gang files, mug shot systems, etc..)
- Captures non-proprietary, NIST compliant, forensic quality fingerprint images for AFIS submissions
- Operates in a variety of wireless environments
- Handles multiple submissions simultaneously

### BENEFITS

- Returns ID information in minutes
- Eliminates the need to return to the squad car or station house to ID a subject
- Delivers single handed operation for maximum officer safety
- Prevents innocent people from being detained

### RECENT AWARDS

Minnesota High Tech Association  
TEKNE award for excellence in customer service for the IBIS implementation in Hennepin County. More information can be found at: [www.tekneawards.org](http://www.tekneawards.org)

QualComm CDMA A-List award for innovation application of wireless technology [IBIS] in Ontario Police Department. More information can be found at: [www.3gcdmalist.com](http://www.3gcdmalist.com)

**identix**  
Empowering Identification

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## IBIS Mobile Identification System

### IBIS HANDHELD TECHNICAL SPECIFICATIONS

#### Compaq® IPAQ 3955 PDA

Processor	400 MHz Intel XScale
Memory	64MB RAM, 32Mbyte ROM, 128 MB SD Flash
Operating System	Windows Pocket PC 2002
Display	Color Transflective 240 x 320 pixel TFT LCD Touch Screen with soft keyboard 3. 78" Low Power 16-bit color

#### Fingerprint Sensor

Platen Dimensions	1.2" (horizontal) x 1.2" (vertical)
Image Dimensions	1.0" x 1.0"
Geometric Distortion	Less than 1.5%
Illumination Non-Uniformity	Less than 3 db at the edges and corners; piecewise monotonic throughout
Resolution	500 dpi + 1%
Grayscale Quantization	8 bits per pixel

#### Camera

Camera Output	Color, NTSC, 420 camera lines
Image Format	24 Bit RGB
Capture Dimensions	640 x 480 pixels (configurable)

#### Wireless Connectivity Options

PCMCIA	Standard Plug-in
	802.11b
Frequency/Mode	2.4 GHz, Direct sequencing
Range (typical)	300m unobstructed, 80m through walls
Data Rates	Up to 11Mbits per second
CDPD	
Range	Subject to wireless coverage
Data Rates	Rated at 19.2Kbits per second
GPRS	
Range	Subject to wireless coverage
Data Rates	Rated at 44Kbits per second
CDMA/1XRTT	Available upon request

#### Operating Conditions

Temp., Operating	32° to 104° F (0° to 40° C)
Temp., Non-operating	4° to 120° F (-20° to 50° C)
Operating Humidity	10% - 90% (non-condensing)

#### Mechanical

Weight	Less than 2.5 pounds
External Connectors	Standard IPAQ Sync connector, 12VDC power, 9 pin DIN video-in (optional)

#### Power

Battery	Hot swappable, Lithium Ion, 1500 millamp-hr
Life: continuous operation	Up to three (3) hours
Life: standby	Up to fourteen (14) hours

## IBIS Components



### HOW IT WORKS

1. A subject's photo and forensic quality fingerprints are captured on the IBIS handheld device.
2. The fingerprint data is packaged into a National Institute of Standards and Technology (NIST) standard record and sent to the IBIS server via standard wireless networks (such as CDMA or GSM).
3. The IBIS server submits the transactions to one or more designated Automated Fingerprint Identification System (AFIS) databases for matching.
4. The IBIS server processes the match results.
5. If a match occurs, the IBIS server retrieves demographics and other information from designated databases, and forwards the identity information – name and date of birth – back to the IBIS handheld device wirelessly. A summarized history, recent mug shot, warrant information and other defined file histories can also be retrieved.
6. If there is no match, the IBIS server wirelessly transmits the "NO IDENT" result to the IBIS handheld. The fingerprint and photo are deleted from the system.