



IBIS Extreme

Rugged, Mobile ID for Harsh Environments

Proven Deployments

“During the last six months, our officers identified over 800 subjects using mobile identification technology. One hundred and twelve (112) of those subjects were arrested for giving false information to a police officer or for outstanding warrants. A recent arrest involved a reputed hardcore gang member that had approximately \$2.6 million dollars in outstanding warrants and was considered ‘armed and dangerous’. This subject actually bragged about giving false information to law enforcement officers in other jurisdictions. Without mobile identification technology, this subject would still be walking the streets endangering our community.”

Lieut. Jeffrey A. Rose
San Bernardino County
Sheriff's Department
CAL-ID Division

The Integrated Biometric Identification System (IBIS) has a long history of success with hundreds of units deployed and proven time and cost savings through remote bookings, increased arrests and solved crimes.

The IBIS Extreme is a rugged, handheld device used for capturing forensic quality fingerprint images for field identification and carries an IP54 rating which means it is protected against dust and sprays or splashed water.

The IBIS Extreme solution employs a singled-handed device that links via Bluetooth to any pre-configured PDA, laptop or computer. The workflow manager is customizable to interface with various databases simultaneously, including our ABIS® System. This flexibility, combined with the durability of an IP54 rating, a forensic quality fingerprint reader, the camera on the PDA, and auto-capture capability, ensure more accurate identifications based on fingerprint and face biometrics saving time and cost for officers, military personnel or border agents in the field – on land or at sea.

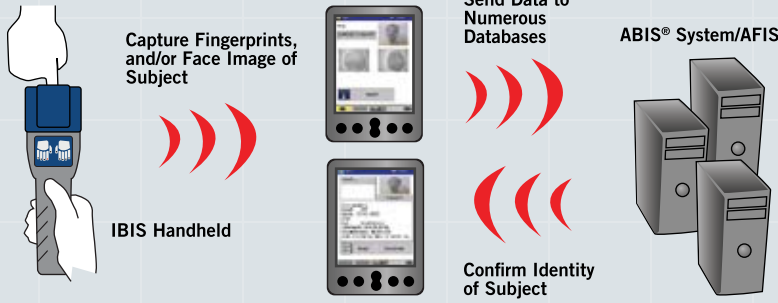
FLEXIBILITY AND DURABILITY TO MEET YOUR SPECIFIC NEEDS

- IP54 rating for ingress protection against dust and sprays or splashed water
- Utilizes the latest wireless communications (EVDO and EDGE/UMTS)
- Works with any PDA using Windows® Mobile 2005 or 2006
- Leverages your existing cellular service to avoid redundant fees

ON-THE-SPOT ID FOR TIME/ COST SAVINGS

- Captures photographs and forensic quality fingerprint images for AFIS searches in industry standard NIST EFTS format
- Interoperates with a variety of databases (AFIS, WIN, MAFIN, IDENT, NCIC, warrant files, gang files, mug shot systems, etc.)
- Does not rely on name and DOB searches or any verbal information provided by the subject
- Delivers real-time ID information for on-the-spot decision making
- Helps prevent false arrests or releases
- Avoids logistical and spatial challenges of integrating expensive and bulky cradles in police cruisers

IBIS Mobile Identification Process



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 an industry standard NIST EFTS record and sent to the Workflow Manager via available wireless networks (such as EVDO or EDGE).
3. The Workflow Manager submits the transactions to one or more designated Automated Fingerprint Identification System (AFIS) databases or ABIS® System for matching. Routing, archiving, and auditing options are all customizable for your specific application.
4. The Workflow Manager then processes the match results according to your requirements.
5. If a match occurs, the Workflow Manager retrieves demographics and other subject information from associated databases, and forwards identity information back to the IBIS handheld device wirelessly. Name and date of birth, as well as a summarized history, recent mug shot, warrant information and other allowed file histories are some of the retrievable data.
6. If there is no match, the Workflow Manager wirelessly transmits the result back to the IBIS handheld. The fingerprint and photo are then deleted from the system.

IBIS Mobile Identification System Specifications

Fingerprint Sensor	
Platen Dimensions	1.3" Vertical x .9" Horizontal
Image Dimensions	1.0" Vertical x .8" Horizontal (500x400 Pixels)
Geometric Distortion	1.5% or less
Illumination Uniformity	3db or less at the edges and corners; Non-uniformity piecewise monotonic throughout
Resolution	500dpi +/- 2%
Grayscale Quantization	8 bits per pixel
Operating Conditions	
Temperature, Operating	32 to 104 F (0 to 40 C)
Temperature, Non-Operating	4 to 120 F (-20 to 50 C)
Operating Humidity	10% - 90%
Mechanical Dimensions	
8.25" L x 2.2" W x 2" D	
Mechanical Weight	
0.75 lb (12 oz)	
Power	
External Connectors	12 VDC power for charging batteries
Battery	NiMH rechargeable 1.5 VDC, 4 each All battery life shown is for NiMH rechargeable (May also use standard 1.5 VDC AA Cell, non-rechargeable)
Operating Life	Over 150 two-finger bookings per full battery charge
Life (Standby)	Up to thirty (30) days
PDA Requirements	
Windows Mobile 2005 32 Mbytes RAM 64 Mbytes Flash	
Supported Cellular Technologies	
EVDO/CDMA 1XRTT (Sprint/Verizon) UMTS/EDGE/GPRS (Cingular)	
Other	
RoHS Compliant	

Award-Winning Technology

2007
CTIA Emerging Technology Award

2004
Government Computing News Award to MN BCA and HCSO for Collaboration on IBIS Mobile ID Project

2003
Qualcomm CDMA-List Award for Ontario Police Department IBIS Project

2003
Minnesota Tekne Award for Technology Services for MN BCA and HCSO IBIS Project

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