



Because image quality is so critical to AFIS performance in remote or on-site fingerprinting environments, be sure to choose...

## TouchPrint™ Enhanced Definition 3100 Live Scan

Going Beyond  
Appendix F and  
Standard Definition:  
500 ppi Output with  
Enhanced Image Detail  
and Clarity

- 3.5 times the pixel density required by the Appendix F Standard
- Enhanced image clarity and sharpness
- Greater ability to read features and detail in fine ridge structures
- Increased accuracy of minutiae and ridge detail location
- Not hindered by sweaty fingers or moisture on the platen
- Virtually no distortion
- Minimal smudging and smearing

With image quality so critical to AFIS performance, why settle for anything less?

A much higher level in image quality, packaged in a sleek, portable live scan unit is what the TouchPrint™ Enhanced Definition 3100 Live Scan is all about. Incorporating 6.2 megapixels of imaging power and new anti-smearing and anti-smudging technologies, the TouchPrint Enhanced Definition 3100 Live Scan far exceeds FBI Appendix F Standard requirements and outperforms the standard definition systems available on the market today.

In addition to superior image quality, with the TouchPrint Enhanced Definition 3100 Live Scan you get reliability and dependability for successful performance in any environment - an office, government facility or even a remote location. Designed to accommodate operators of all skill levels, this system helps to ensure durability and maximum uptime.

### BETTER DATA CAPTURED

- More pixels per inch for greater detail
- Breakthrough optics and electronic imaging for unparalleled image clarity
- Maximum contrast and gray scale highlights minutiae and pore detail

### MAXIMUM RELIABILITY

- Sealed optics deck with no moving parts for significantly lower maintenance costs
- No degradation in image quality over time
- No pads or coatings to change for less downtime

### LESS VARIABILITY

- Easy to use with operators of all skill levels
- Overcomes real-world challenges like sweaty fingers

Translates into Maximum AFIS Performance - Your Reason for Buying a Live Scan in the First Place.



# Configuration Options

1. Full desktop system operating on Windows or Linux



2. Full transportable system with laptop operating on Windows or Linux\*



3. Peripheral scanner device with software developer kit for integration in third party applications†

\* Hard case sold separately

† Does not include AccuCapture™ and PerfectScan™ quality assurance software tools.

# Product Specifications

## TECHNICAL

Model Number	TP-3100-ED
Configuration Options	
TP-3100XT-ED / TP-3100LT-ED	Transportable system that includes notebook computer, laptop carrying case and fully featured application software (on Windows XP or Linux) for tenprint capture, storage and transmission
TP-3100XD-ED / TP-3100LD-ED	Desktop modular system includes workstation with keyboard, mouse, 17" monitor and fully featured application software (on Windows XP or Linux) for tenprint capture, storage and transmission
TP-3100A-ED	A scanner device with SDK for integration into third party applications
FBI Certification	TP-5700 optics deck is FBI IQS Appendix F certified and is incorporated into the TouchPrint Enhanced Definition 3100 Live Scan
Active Imaging Dimensions	Roll/Slap Platen 3.2in x 2.0in (81mm x 51mm)
Rolled Print Size	Image compliant with FBI standard at 1.6in X 1.5in (41mm x 38mm)
Optical Resolution	Enhanced Definition 500 ppi image capture output, with square pixels
Dynamic Range	Greater than 8 bit, yielding over 256 gray scale depth
Image Quality	Exceeds FBI IQS IAFIS Image Quality Specification Appendix F
Calibration	Factory calibrated and sealed; automatic light-balance recalibration over time
Optical Scanner Interface	FireWireA IEEE 1394, OHCI compliant
Optical Scanner Dimensions	Deck W: 12.5in (32cm); H: 6.25in (19cm); D: 14in (35.5cm)
Package Weight	14lbs (6.4kg)
Voltage/Power Requirements	110-220/220-240 VAC, 50/60 Hz / less than 14 watts
Operating Environment	Ambient temp: 40° - 95° F (5° - 35° C) Rel. Humidity: 20% - 80% non-condensing
Housing	Sealed package, rugged container with high tolerance for shock and vibration
Data Content	Demographics (customizable), fingerprints and photo image transmission in compliance with FBI's EFTS in ANSI/NIST-CSL 1-1993 specified format
Data Protocols	Supports SMTP / FTP / NFS / TCP/IP sockets / VPN
Data Communication	Supports V.42 external modem, 56kbps synchronous communication, T-1 high-speed digital communications, Ethernet LAN communications, TCP/IP/NFS/FTP protocols; interfaces for Sagem Morpho; NEC; Printrak, a Motorola Company; Cogent Systems, Inc; Dermalog; and AFIX Tracker AFIS protocols
Workstation Computer	Pentium P4 1.7 GHz or greater with 256MB RAM ( <i>only included with Desktop or Transportable configurations; not included with the SDK</i> )

## STANDARD FEATURES

Moisture Discriminating Optics™	Patented optics ignore moisture on the fingerprint or on the platen
Dual Beam Illumination™	Delivers uniform illumination across entire platen, improving geo-accuracy
Clear Trace Imaging™	Reduces latent images between prints
Clean Image View™	Provides 70% or greater signal-to-noise ratio than Appendix F requirements, resulting in better ability to read features and detail in fine ridge structures
Precise Image Distribution™	Results in 200% less geometric distortion than what is required to meet Appendix F minimum requirements, resulting in enhanced accuracy of minutiae and ridge detail location
Fine Feature Contrast™	Provides 300% higher CTF/MTF performance than Appendix F requirements, resulting in enhanced image sharpness and clarity
AntiSmear™ Technology	Minimizes smudging and smearing during finger rolls

## SOFTWARE FEATURES FOR COMPLETE SYSTEM CONFIGURATIONS

PerfectScan™	High resolution live video display of platen surface during roll and slap capture; real time image quality assurance for evaluating images and providing instant feedback
AccuCapture™	Slap-to-roll comparison software to ensure correct sequencing

## OPTIONS

Demographic Data Import	Open File Communication System (OFCS)
Image Compression	FBI-accredited Wavelet Scalar Quantization (WSQ) processing
Photo Capture	Optional NIST Best Practices photo capture – SW/HW
Peripherals	Wide array of peripheral devices available to further enhance performance

## WARRANTY AND MAINTENANCE SUPPORT

Warranty	One year limited warranty
Maintenance and Support	Range of upgrade packages available to partners and end-users



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