

# DANNO

# The Smallest, Most Affordable FBI Certified FAP 30 TFT Fingerprint Sensor

- · Automatic Spoof Rejection
- · Software-Based Autodetect



### DANNO\_

For embedded mobile applications

Weighs less than 20 grams / .6 oz



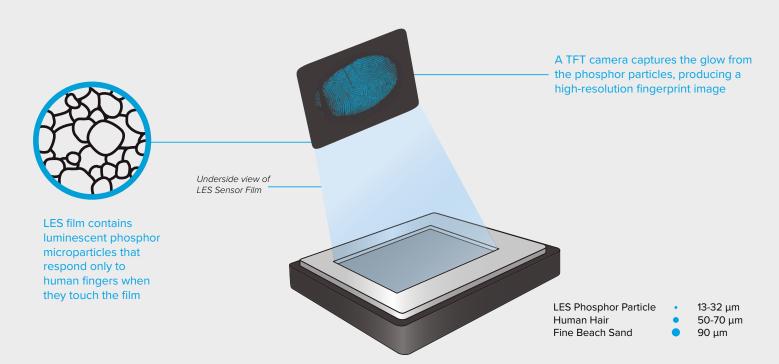
Supports single-finger enrollment and verification

Integrated Biometrics' Danno single-finger FAP 30 scanner delivers FBI-certified fingerprint images in the thinnest, most affordable, format available.

Small and lightweight, Danno enables 1-finger flat enrollment, identification and verification from a device that weighs less than 20g / .6 oz. Designed for embedded applications, Danno combines performance and durability with the compact size and low power consumption that mobile identity management applications demand.

### LES Light Emitting Sensor Technology

Integrated Biometrics' scanners use our patented light-emitting sensor (LES) technology to deliver fixed and mobile FBI certified fingerprint imaging in an exceptionally durable, lightweight scanner.



## FEATURES & BENEFITS

#### **Faster**

- · Rapid dry finger capture
- No need to clean latent prints in high-volume situations
- Easy integration via single SDK for all Integrated Biometrics FBI-certified products

#### **Better**

- Unaffected by extreme temperatures, direct sunlight, or bright artificial lights
- · Compact, lightweight, and rugged
- · Rejects common spoofing attacks
- · Emits no bright lights during scans
- Meets or exceeds US military durability specifications

#### **Smarter**

- · Competitive pricing
- · Extremely low power consumption
- Eliminates consumables (silicone membranes or cleaning tape)
- · Lower maintenance costs

#### **Hardware-based Automatic Spoof Rejection**

IB's LES film recognizes real versus manufactured fingerprints. LES-based scanners automatically reject fingerprints based on silicone, glue, rubber, and other common spoofing materials.

#### **Software-Based Autodetect**

IB's LES technology automatically detects the finger capture that generates the highest quality image without user intervention. Application developers enable this feature through the IB's software development kit (SDK).

## AVAILABLE VERSIONS

**Product** 

· Danno (OEM)

Part Number

DN110CM-E00

Description

FAP 30 TFT PIV Certified

**USB Voltage Level** OS Support & System Requirements..... 4.75V to 5.25V Sleep\* Windows 7 or later (32/64 bit), Linux Kernel 2.6 or later (32-bit, 64-bit, < 2mA ARMv7-A, and ARMv8-A), Android 4.0 or later (32-bit, 64-bit, ARMv7-A, \*Feature not available on all models. Ask technical support for further information. and ARMv8-A) CPU Conformance & Certifications..... x86 and x64 | 2.0GHz or higher ARM | 1.0 GHz or higher **USB** Certification Memory **USB-IF USB.ORG** 512MB or higher FCC/CE Conformance FCC Part15 (per ANSI C62.4:2003) Class A, CSA ICES-003 Class A, CE Images & Capture..... Emissions: EN55022:2006 Class A, CE Immunity EN 55024:1998/A1:2001/ A2:2003, IEC61000-4-2 **Sensor Type** LES Air Discharge / Contact Discharge In compliance with IEC 61000-4-2 Camera **Equipment Safety TFT** IEC 60950-1 Resolution 500 PPI **Hazardous Material** RoHS directive 2002/95/EC Grayscale 256 grayscale dynamic range **Vibration Test** Per Mil-STD-810F (Method 514.5), Category 24, Flg.514.5C-17 **Image Size** 400 x 500 pixels **Supported Image Formats** RAW, JPEG2000, BMP, PNG, WSQ (FBI-approved) **Operating Temperature** -10°C ~ +55°C / 14°F ~ 131°F **FBI / Image Certifications** PIV 071006, FIPS 201, FAP30 / Certified to Mobile ID Requirements Humidity 30~85% RH < 40°C / 104°F (Non-condensing) Speed Minimum frame rate > 10 FPS **Storage Temperature** -40°C ~ +80°C / -40°F ~ 176°F Capture single finger, Multi-device/muti-thread support **Quality Scoring** NFIQ v1 supported on all OSes and NFIQ2 for Windows Ingress Protection / Water / Dust IP65 Sealed bezel to scanning surface Weight & Dimensions..... **Surface Durability** MIL-C-675c 4.5010, MIL-STD-810F **Product Weight** < 25 grams / 0.06 lbs Cleaning & Sanitization For proper cleaning and disinfection of IB products, visit **Platen Size** integratedbiometrics.com/cleaning 21.52 mm x 26.6 mm / 0.85" x 1.05" Mean-Time Between Failures (MTBF) Sensing Area Based on 200 full single-finger enrollments per day, the Danno MTBF is 20.32 mm x 25.4 mm / 0.8" x 1.0" 66 years. **Scanner Assembly Dimensions** 40.0 mm x 42.9 mm x 8.0 mm / 1.57" x 1.69" x 0.31" Warranty ..... All products have a 12-month warranty starting from the date of delivery. Power & Connectors ..... Additional years warranties available. Inquire with your salesperson. View the warranty here: integratedbiometrics.com/warranty



Interface
USB 2.0 (Molex)

Power Source
USB Host