The Cogent Palm Scanner CS500q is the new Palm livescanner. Offering a superior fast acquisition speed and USB 3.0 technology.

The Cogent Palm Scanner CS500q is the livescanner for Law Enforcement applications. Offering superior image quality and matchless acquisition speed the Cogent Palm Scanner CS500q acquires not only 10-prints, rolls and half-palms but also all types of supplemental prints as per FBI standards: thenar (ball of palm), full finger (distal, medial and proximal) and fingertip impressions.

**FBI APP. F Certified and APP. P Compliant**

It comes with four different models in order to address all the applications where FBI IAFIS IQS Appendix F certified palm, 10 prints and rolled acquisition is requested.

Having a resolution of 500 dpi and an active window of 5” x 5” the Cogent Palm Scanner CS500q allows for an acquisition speed of up to 8 fps in full frame mode and up to 25 fps for rolled prints.

An easy-to-integrate and features rich SDK for all common platforms reduces integration time to a minimum thus making the Cogent Palm Scanner CS500q the perfect choice for system integrators and solution providers.

**Acquires Supplemental Prints: Rolled Thenar, Full Finger and Fingertips**

Well studied ergonomics and a full color LCD touchscreen (optional) help to enhance workflow efficiency while reducing the need for skilled operators.

**User-Friendly Ergonomics**

The Cogent Palm Scanner CS500q is designed with a small footprint, it can be used in a desktop setting or integrated into other systems like kiosks.
Multiscan SDK Features

- **CORRECT POSITION AND SLAP COMPLETENESS CHECK**: checks for correct finger and palm placing; checks for incomplete slaps or palm.
- **ELIMINATION OF LATENT PRINT**: originating from recent scans.
- **HALO ELIMINATION**: elimination of halo due to moist fingerprints during acquisition.
- **ROLLED FINGERPRINT CAPTURING**: displays in real-time, self-adaptive to rolling speed and directions, automatic stop detection.
- **SEGMENTATION**: automatic segmentation of four-slap and two thumbs fingerprint images in single flat images.
- **AUTOMATIC ACQUISITION START AND STOP**: sensing of finger placement and automatic acquisition of the image with the highest quality.
- **SLIDING DETECTION FOR FLAT PRINTS**: detects deformations of fingerprints due to sliding during acquisition.
- **REAL TIME IMAGE QUALITY CHECKING**: real-time estimation of fingerprint image quality during scanning process according to NIST IR7151 (NFIQ and NFIQ2).
- **IMAGE COMPRESSION**: FBI certified WSQ compression; further compression formats available are jpeg and jpeg2000.
- **ADAPTIVE ROLLED ACQUISITION**: rolled acquisition on all the front prism area.
- **DRY FINGER IMAGE ENHANCEMENT**: low contrasted images due to dry skin conditions are automatically improved.
- **LOWER VS. UPPER PALM IDENTITY CHECK**: based on inter digital area to check if both half-palm images are from the same hand.
- **SEGMENTATION AND SEQUENCE CHECK FOR UPPER PALM**: for cases when the upper palm is acquired instead of 4-finger slap.
- **ARTIFACTS CONTROL**: detects artifacts created during improper rolled print acquisition.

Technical Data

| ACTIVE SCANNING WINDOW | 4-slaps and half-palms up to 5” x 5”  
Rolled thenar up to 4.5” x 3”  
Flat Fingertips up to 3.2” x 3.0”  
Rolled fingertips up to 1.6” x 1.6”  
Image Resolution: 500 dpi - 256 gray |
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| IMAGE QUALITY AND FORMATS | FBI IAFIS IQS Appendix F certified and Appendix P compliant  
| TEMPERATURE | Storage: from -20°C to + 60°C  
Operating: from 0°C to +50°C |
| HUMIDITY | From 10% to 90% (non-condensing) |
| DIMENSIONS | 227 x 310 x 187 mm |
| WEIGHT | 4.7 Kg |
| SUPPORTED OPERATING SYSTEMS | Microsoft Windows up to Win10 in 32-bit and 64-bit configuration  
Linux Ubuntu 14.04 in 32-bit and 64-bit configuration - Android 4.4 |
| IP RATING | IP54 |
| CERTIFICATIONS | CE, FCC, RoHS |
| POWER SUPPLY | Input 100-240 Vac, 50 ÷ 60 Hz. Output 5Vdc, 10 W max. |
| OPTIONS | Prism Heater  
3.2 LCD full color touchscreen  
DactyMatch SW  
Silicon Membrane |