

COLUMBO



Columbo CNC



Columbo OEM



FBI PIV FAP 30 CERTIFIED SINGLE-FINGER SCANNER



Amazingly small, incredibly durable,
remarkably efficient FAP 30 scanner



IB's patented Light Emitting Sensor (LES) film
produces the highest quality fingerprint
images in the certified market



Applications: Standalone fingerprint scanner
Embedded version for mobile applications
also available



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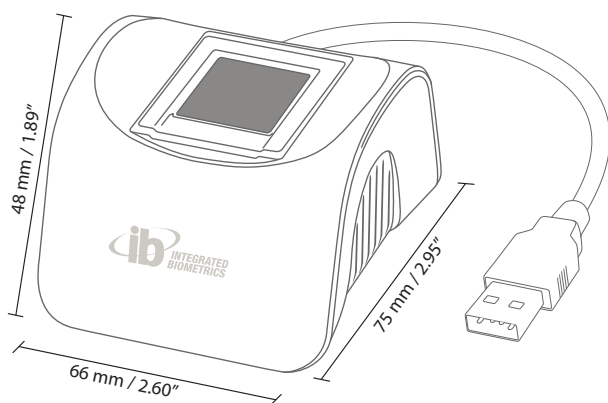
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✓ BENEFITS

- Enables fingerprint capture in standalone applications, smartphones, and tablets
- Light weight (170gm/6oz)
- Single finger scan
- No membranes to replace
- Ideal for use with mobile computers
- Easy to integrate
- Requires no cleaning for latent fingerprints
- Excellent with dry and dirty fingers
- Durable and shock resistant
- Operates in direct sunlight

✓ PRODUCT OPTIONS

PRODUCT	PART NUMBER
Columbo OEM	
◦ Small Board: Solder Pins	IBHCIS1FR-04
◦ Small Board: Parallel Interface*	IBHCIS1FR-P
◦ Small Board: 4cm FPC	IBHCIS1FR-045
◦ Large Board: USB 2.0	IBHCIS1FR-02
◦ Large Board: Right Angle J6 Connector	IBHCIS1FR-03
◦ Large Board: 4cm FPC	IBHCIS1FR-025
Columbo Desktop	IBHCIS1FR-01
Columbo CNC	
◦ Small Board: CNC Bezel Solder Pins	IBHCIS1FR-041
◦ Small Board: CNC Bezel Parallel Interface	IBHCIS1FR-P041



✓ SPECIFICATIONS

RESOLUTION	500 PPI
GRAYSCALE	256 grayscale dynamic range
SENSING AREA	0.8" x 1.0" / 20.32 mm x 25.4 mm
IMAGE SIZE	400 x 500 pixels
INTERFACE	USB 2.0
USB CERT SPEC	USB-IF USB.ORG
USB LEVEL	4.40V – 5.25V
PRODUCT WEIGHT	170g / 6 oz. (Columbo OEM: <70g)
SUPP. IMAGE FORMATS	RAW, JPEG2000, BMP, PNG, WSQ
OPERATING TEMP	-10°C ~ +55°C / 14°F ~ 131°F
STORAGE TEMP	-30°C ~ +60°C / -22°F ~ 140°F
HAZARDOUS MATERIAL	RoHS Directive 2002/95/EC
HUMIDITY	30~85% RH < 40°C / 104°F (Non-condensing)
INGRESS PROTECTION	IP54 Case Bezel to Film
FCC/CE CONFORMANCE	FCC Part 15 (per ANSI C62.4:2003) Class A, CSA ICES-003 Class A, CE Emissions: EN 55022:2006 Class A, CE Immunity EN 55024:1998/A1:2001/A2:2003, IEC 61000-4-2
SCANNER ASSEMBLY DIMENSIONS	66mm x 75mm x 48mm / 2.60" x 2.95" x 1.89 (Columbo OEM: 46.5mm x 39mm x 27.5mm)
POWER CONSUMPTION	DC Current: Standby <50mA / Full Scanning <115mA
AIR DISCHARGE / CONTACT DISCHARGE	In compliance with IEC 61000-4-2
API INTERFACE	Single-finger Image Multi-device / Multi-thread support
SURFACE DURABILITY	MIL-C-675c 4.5010, MIL-STD-810F
SURFACE RESISTANCE	Ammonia, IPA, Methanol, Soaps/Detergents, Salt Water
VIBRATION TEST	per MIL-STD-810F (Method 514.5), Category 24, Fig. 514.5C-17
FBI CERTIFICATION	PIV 071006, FIPS 201, FAP 30 / Certified to Mobile ID Requirements
OS SUPPORT	Windows 7, Windows 8.X, Windows Server, Windows Mobile 6.5, Linux, Android 4.0 (or higher)

