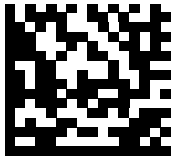


System Solutions for Forensic Samples Labeling



**Bar-code your samples NOW
Comply with ISO**



All laboratories should have a system for identifying test and/or calibration items. The identification should be retained through the life of the item and the system should be designed and operated so as to ensure that the items cannot be confused physically or when referred to records or other documents. The laboratory should have procedures and appropriate facilities for avoiding deterioration, loss or damage to the test or calibration items during storage, handling and preparation. The suggested system solution for forensic samples labeling is compliant with ISO 17025:2005 requirements (5.8 Handling with test and calibration items) and ILAC-G19:2002

The package offered by Forensic DNA Service consists of barcode scanner, barcode printer, special adhesive tapes and necessary consumables. We also offer custom made database system for storage and look-up of bar-coded samples and technical support.

Metrologic MS1690 Barcode Scanner

The Metrologic MS 1690 Focus is an omnidirectional scanner capable of reading all standard 1D, PDF417, microPDF, composite, Matrix and Postal Codes. The MS 1690 Focus's rugged housing means it's built for the toughest industrial environments. The Metrologic MS 1690 Focus also features automatic stand detection for convenient in-stand scanning and the firmware can be updated via Flash ROM.



Zebra TLP2844Z Barcode Printer inc. Designer SW



An exciting new addition to the Zebra Desktop Series, the dynamic TLP2844Z features a powerful combination of proven Zebra attributes. The TLP2844Z offers the best in-class integration capabilities of any desktop thermal label printer in the industry. This new ZPL based model comes standard with triple communications interfaces - serial, parallel & USB. The optional internal ZebraNet PrintServer II interface provides quick and easy integration into Ethernet networks and enables the printer to unlock the power of ZebraLink.

3M Scotch Adhesive Label

- Permanent adhesive for coatings, LSE plastics and oily metals
- Cannot be removed in one piece
- 22x15 mm, fits on 1.5 ml tubes
- Tested in laboratory environment



Technical specifications

Metrologic MS1690 Barcode Scanner

Light Source	LED 645 nm + 7.5 nm
Depth of Field (programmable)	0 mm - 230 mm (0" - 9") for 0.33 mm (13 mil) bar codes
Field of View	49 mm W x 19 mm H (1.9" W x 0.8" H) @ 20 mm (0.8"); 264 mm W x 106 mm H (10.4" W x 4.2" H) @ 280 mm (11.0")
Minimum Bar Width	0.127 mm (5.0 mil)
Decode Capability	Autodiscriminates all standard 1-D, RSS, PDF417, microPDF, MaxiCode, Data Matrix, QR Code, UCC, EAN Composites, Postals, Aztec (Image Transfer) - BMP, TIFF or JPEG output Resolution 1280 x 512
System Interfaces	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB (Low Speed and Full Speed), IBM

Zebra TLP2844Z Barcode Printer

MAXIMUM PRINT AREA

Width: 4.09"/104 mm
Length: 39"/990 mm (with standard memory)

RESOLUTION

203 dpi/8 dots per mm

PHYSICAL CHARACTERISTICS

Width: 7.9"/200 mm Width: 7.9"/200 mm
Depth: 8.38"/213 mm Depth: 9.75"/248 mm
Height: 6.7"/170 mm Height: 6.8"/173 mm
Weight: 3 lbs./1.3 kg Weight: 3.2 lbs./1.4 kg

MEDIA SPECIFICATIONS

Label and liner width:
1"/25.4 mm to 4.25"/108 mm

Programming Language

ZPL® or ZPL II® Universal language for Zebra printers.
Simplifies label formatting and enables compatibility with other Zebra printers.

ZBI™ - controls and interprets text and data streams from peripherals and non-ZPL printer programming languages. Transmits captured data over LAN, WAN or wireless network via email or TCP/IP messaging.

OPERATING CHARACTERISTICS

Environment

Operating Temp. 40° F/5° C to 105° F/41° C
Storage/Transport Environ. -40° F/-40° C to 140° F/60° C

Operating Humidity 10-80% non-condensing
Storage Humidity 10-90% non-condensing

FONTS/GRAPHICS/SYMBOLOLOGIES

Fonts and Character Sets

Standard Fonts: 16 bitmapped, 1 smooth scalable (CG Triumvirate® Bold Condensed)

Sets: IBM® Code Page 850 international character set

Graphic Features

Supports user defined fonts and graphics – including custom logos, ZPL II drawing commands – including boxes and lines

Bar Code Symbolologies

Linear Bar Codes: Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14, UPC-A and UPC-E with EAN 2 or 5 digit extensions

3M Scotch Adhesive Label

Chemical Resistance:	Bond is secure when exposed to the following:
Automotive oil:	72 hours at 120°F (49°C)
Weak base:	4 hours at room temperature
Weak acid:	4 hours at room temperature
Sodium chloride solution (5%):	72 hours at room temperature
Water Resistance:	Withstands exposure to water at room temperature for 100 hours.
Humidity Resistance:	Withstands exposure to 90°F (32°C) and 90% relative humidity for 168 hours.
Temperature Resistance:	Withstands short-term exposure (days, minutes) from -40°F (-40°C) to 300°F (149°C). Slight shrinkage and discoloration may occur at elevated temperatures.

Ordering information:

Cat. number	Product description
FDNAS- P-3100	Metrologic MS1690 Barcode Scanner
FDNAS- P-4100	Zebra TLP2844Z Barcode Printer inc. Zebra designer SW
FDNAS- P-4101	Printer ribbon
FDNAS- P-4102	3M Scotch Adhesive Label 22x15 mm
FDNAS- P-XX00	Custom made database system for storage and look-up of bar-coded samples