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  
Height: 8.38"/213 mm  
Depth: 8.38"/213 mm

**Weigh**t: 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

**OPERATING CHARACTERISTICS**  
Environment  
Operating Temp. 40º F/5º C to 105º F/41º C

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

**FONTS/GRAPHICS/SYMBOLS**

**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 120ºF (49ºC)

- 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 90ºF (32ºC) and 90% relative humidity for 168 hours.

**Temperature Resistance:**  
Withstands short-term exposure (days, minutes) from -40ºF (-40ºC) to 300ºF (149ºC). Slight shrinkage and discoloration may occur at elevated temperatures.

Ordering information:

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<td>Metrologic MS1690 Barcode Scanner</td>
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<td>FDNAS-P-4100</td>
<td>Zebra TLP2844Z Barcode Printer inc. Zebra designer SW</td>
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<td>FDNAS-P-4101</td>
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<td>FDNAS-P-4102</td>
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<td>FDNAS-P-XX00</td>
<td>Custom made database system for storage and look-up of bar-coded samples</td>
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