

# 2D Bar Coding Integration



## MAXIMIZE INFORMATION STORAGE AND ACCURACY

### Introducing 2D Bar Coding

Utilizing a unique arrangement of horizontal and vertical bars and spaces of varying widths, 2D bar codes store significantly more information in a smaller area than 1D bar codes, while still maintaining readability. This is particularly advantageous when dealing with small volume samples and specific studies in a laboratory environment. Bar coding can be integrated into most of ATL's product lines including Sample Master® and Titan and can be thought of as an alternative keyboard to accurately and efficiently automate data entry and information retrieval.



### The Benefits of Bar Coding

Bar coding is easy to use and increases productivity in the laboratory environment from sample login through final disposal. Some of the advantages include:

- **Speed** - the average speed of a bar code scanner is estimated at five to seven times as fast as a manual typist
- **Accuracy** - bar coding eliminates manual data entry errors
- **Efficiency** - bar coding technology results in more accurate data collection and reduced transcription errors
- **Cost Savings** - all the advantages ultimately result in reduced costs

### Bar Coding System Components

The basic components of a bar coding system include:

- **Scanner** - the scanner type will depend on the size of the bar code on the labels and the surfaces that will be scanned, and needs to be rugged enough to withstand laboratory conditions
- **Label Printer** - varies depending on application requirements, label type, bar code font, print type, etc.
- **Labels** - type will depend on the environment to which it will be exposed (i.e. heat, cold or wet)



### 2D Bar Coding Starter Package

ATL offers a complete equipment starter package to integrate with your laboratory's LIMS in order to instantly leverage bar code technology. The starter package includes:

- **Hand-Held 2D Scanner**
- **Label Printer** (300 dpi Elton Thermal Printer)
- **One Universal Resin Ribbon**
- **Permanent, Waterproof Labels** (1000 qty, size 3" x 1")
- **One USB Printer Cable**
- **USB Cable** (Keyboard Wedge)

### System Installation and Training

ATL offers complete installation, configuration and training on bar code integration. In some cases, this system is included when purchased with an ATL LIMS product.

