2D Basics

A simple explanation of how and why 2D is beneficial in our industry.

September 2016

What is 2D?

2-Dimensional (2D) Barcode –

- Optically readable symbols
- Must be examined both vertically and horizontally to read the entire message
- Holds almost 24 times as much data as a 1D barcode
- Two-dimensional symbols may be one of two types: matrix symbols and multi-row or stacked barcode symbols Body Copy

Why is 2D?

2D barcode has proven very effective in those applications where it's being used.

Our Industry Specification for 2D Barcode Labeling is EIGP 114 that is being adopted by manufacturers and distributors.

Benefits include

- Single barcode scans
- Improved data accuracy
- Increased efficiency
- Much more information can be included on the labels allowing ever increasing demands for attributes (RoHS, REACH, etc.)

The Industry Specification

EIGP 114.1 - 2D Barcode Labeling Specification for Product Package and Shipments in the Electronics Industry (Including Human Readable and 1D Barcode)

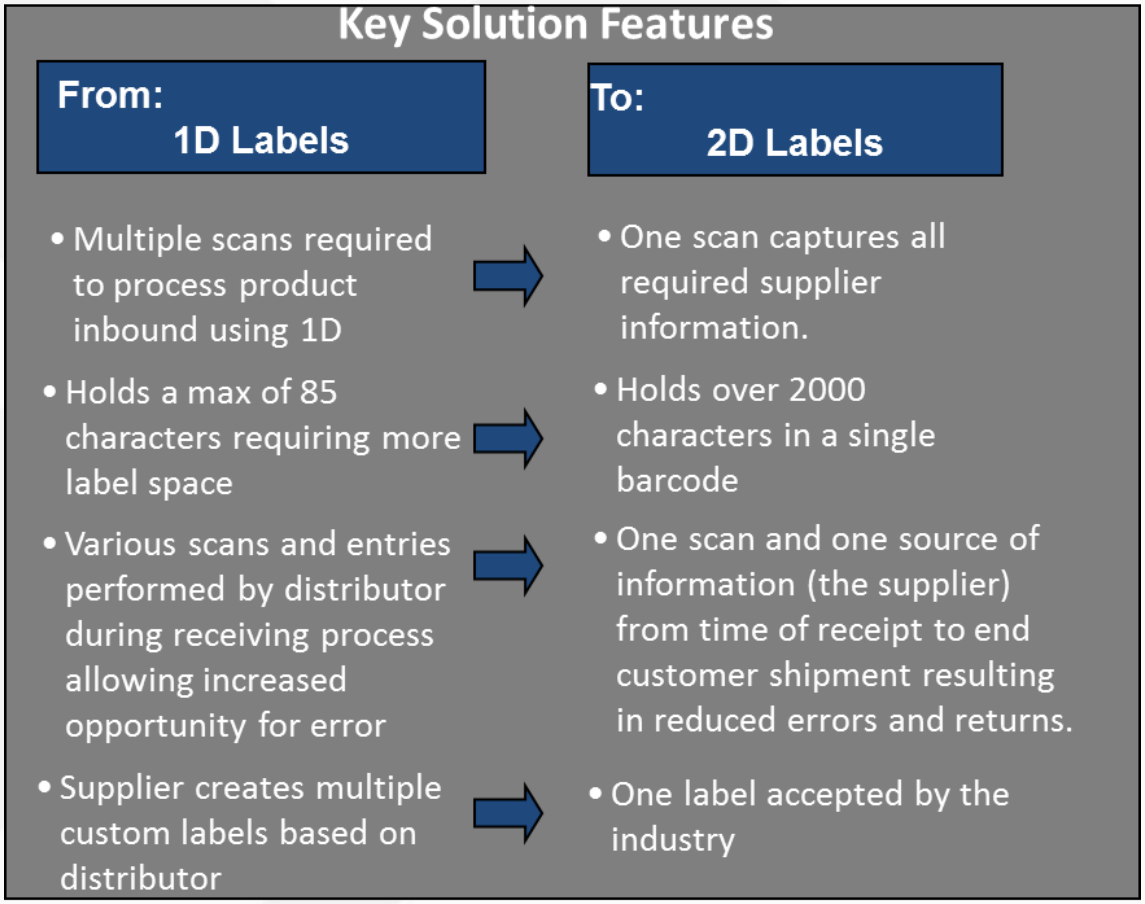
The one label accepted by the industry.

The specification defines fields and requirements for

- Product Package or Unit Pack
- Pack slip and/or accompanying label

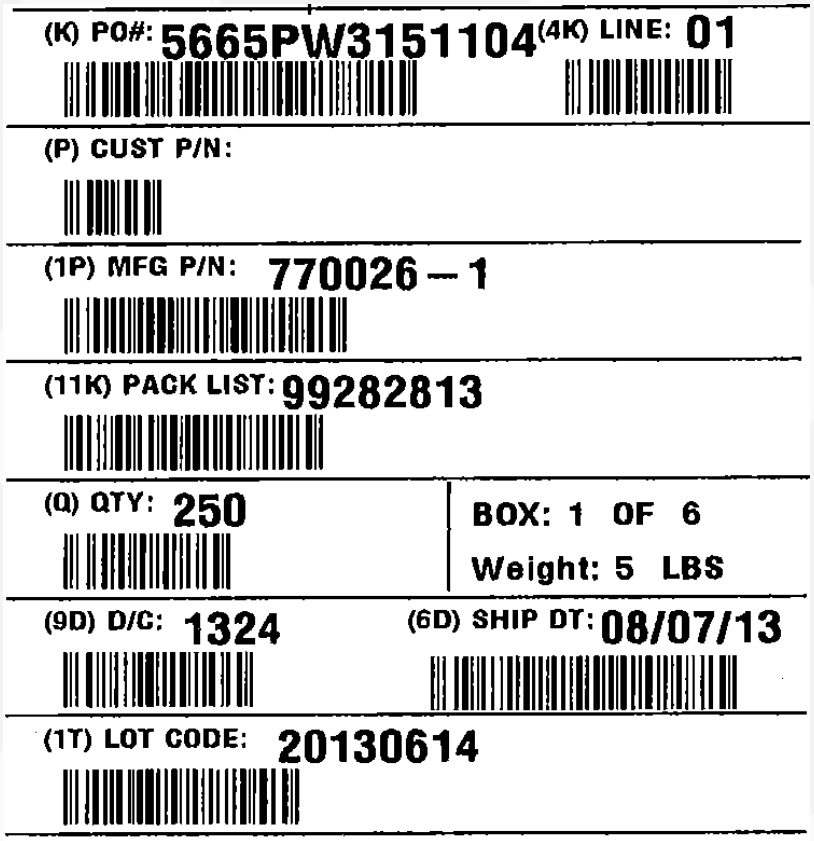
Can be used prior to implementation of 2D barcode for standardizing 1D and human readable labels.

2D vs. 1D


Key Solution Features
From:
1D Labels
To:
2D Labels
• Multiple scans required to process product inbound using 1D
• One scan captures all required supplier information.
• Holds a max of 85 characters requiring more label space
• Holds over 2000 characters in a single barcode
• Various scans and entries performed by distributor during receiving process allowing increased opportunity for error
• One scan and one source of information (the supplier) from time of receipt to end customer shipment resulting in reduced errors and returns.
• Supplier creates multiple custom labels based on distributor
• One label accepted by the industry

1D vs. 2D Visual

Containing same data



Requires 9 Scans

Same information in 1 Scan