

# APPLICATION NOTE

## 1D Barcode Decoding, Identification and Verification

### CAPABILITY

Scanners & Smart Cameras have robust 1D Barcode algorithms which will decode all of the following symbologies:

- Code 128
- Code 39
- Codabar
- Interleaved
- EAN 13
- EAN 8
- UPC A *and* UPC E
- Postnet
- IMB
- Pharmacode
- PDF 417
- GS1-128



**Non-conforming Code**



**Correct Code**

### HARDWARE

Typical hardware requirement:

- Scanner/Smart Camera
- Trigger Sensor
- On-board LED illumination
- Electrical control box
- I/O & Ethernet Cables
- Mounting brackets

### METHOD

- a reference image is captured by the scanner
- a barcode search region is set (which can be all or part of the entire image)
- the scanner is triggered by a PE sensor to inspect the barcode
- the barcode is detected and read
- the read barcode string can be output to iDSnet or other connected host system or matched within the scanner to an entered string
- a minimum code grade quality can be set (Optional)
- a pass/fail output is set for non-conforming codes (incorrect, incomplete, low grade or missing)

### CONSIDERATIONS

- IP rating requirements
- Communication protocols of the host system
- Means available to receive/output code strings to/from the scanner

### OFFER

Call 1300-478-474 for your Free “Size & Purpose” Site Audit to help you start minimising your rework, rejections and recalls.

### TECHNOLOGY PARTNERS

