Barcodes are commonplace in various applications where they are used for identification and tracking purposes. They are a low cost and well-accepted technology known for its reliability and ease of implementation.

Numerous symbols have been introduced in the course of history, supporting different character sets, various amounts of information and built-in redundancy (check digits). One or more standards are used in each different industry.

A good barcode reader has to be fast and able to locate a symbol in any orientation and contrast, and possibly damaged robustly. For better convenience, it has to be able to discriminate between the supported encodings automatically.

**Main features**

**Automatic location**

The reader is able to find a code whatever the size and thickness and with arbitrary orientation and angle, even in a complex image. This is a fully automatic process requiring no training.

For improved performance, the search area can be restricted to a known area of interest, and a priori information can be provided.
Supported symbols and type recognition

The barcode module is able to decode all major types:

- Code 128/EAN 128
- Interleaved 2 of 5
- Codabar
- Code 39/Code 39 Extended
- UPC A/EAN 13

The symbol type is automatically detected, but pre-selection is also possible. Additional symbologies can be supported upon request.