

Title:

A Concise Guide To MICR And Associated Technologies

Word Count:

1344

Summary:

Magnetic Ink Character Recognition (MICR) was developed to utilize the benefits of computer te

The Sort-A-Matic system included 100 metal or leather dividers numbered 00 through 99. Each ch

Keywords:

MICR, MICR technologies, check sorters, check sorting equipment, MICR fonts, MICR toner, MICR softwa

Article Body:

Magnetic Ink Character Recognition (MICR) was developed to utilize the benefits of computer te

The Sort-A-Matic system included 100 metal or leather dividers numbered 00 through 99. Each ch

Under the Top Tab Key Sort system, small holes punched at the top of the checks indicated the

Both of these systems worked, but they were time-consuming. With the advent of the computer an

The Development of the MICR Font

The MICR font was developed by Stanford University in conjunction with Bank of America and app

The letter E indicates the fifth version considered. The letter B indicates the second revisio

MICR Readers

Three types of machines are used to read MICR characters. The two that read the characters mag

E-13B characters are printed with toner containing iron oxide, which is capable of being magne

Magnetic readers come in two types: single track (single gap or split scan) and multiple track

Single-Track Reader Characteristics

Single track uses a read head with one gap to detect the magnetic flux pattern generated by th

Multi-Track Reader Characteristics

The multiple track reader employs a matrix of tiny, vertically aligned read heads to detect th

An OCR reader does not use magnetic properties to detect the E-13B characters. Instead, it use

Waveform Theory

The readers move and read documents from right to left. The right-hand edge of the character,

As the character moves from right to left under the read head, the gap detects the magnetism o

At the second edge, the vertical read head detects a drop in magnetism, which results in a -11

The placement of the vertical edges must occur in increments of 0.013 inches from the first ri

What Affects the Signal Level?

Signal level can vary based on a number of factors. The amount of iron oxide (concentration) t

The taller the vertical edge of the character, the taller the peak (either positive or negativ

Keys to proper waveform detection are:

- * All peaks in a character's waveform must be detected. The reader sorter must know that the p
- * The peak must be located at or near its anticipated location.
- * No significant "extra" peaks can be present.
- * There cannot be wide variations in the signal levels of peaks within a character.

What to Look for in MICR Printers and Consumables

Printers that are used for MICR printing must have a unique MICR font that is modified to suit

The magnetic MICR toner that you choose must be specifically designed for the particular print

OEM cartridges are always a safe (but more expensive) bet. If you buy a "compatible" brand, en

The vendor you choose should use the latest and most advance MICR test equipment, such as a Ve

This is a demo version of txt2pdf v.10.1

Developed by SANFACE Software <http://www.sanface.com/>

Available at <http://www.sanface.com/txt2pdf.html>