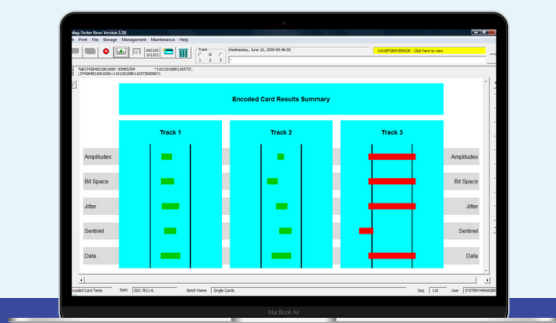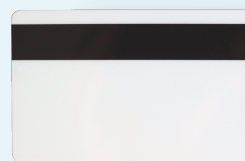# BARNES INTERNATIONAL

Mag-Tester VERIFY
Magnetic Stripe Analyser

Quick, accurate and reliable magnetic stripe testing of HiCo and LoCo encoded cards and tickets for ISO and CQM

The Mag-Tester VERIFY is a powerful magnetic stripe quality control analyser for encoded magnetic media - HiCo, LoCo and 650 Oersted. It is used by magnetic stripe card/ticket manufacturers and bureaus for testing, QC, encoding equipment maintenance and development. It provides quick, accurate and reliable testing, and the multi-level user interface makes it the ideal choice for production QC as well as laboratory analysis.
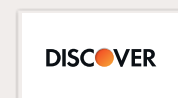
Solution Highlights

☑ High precision testing of encoded HiCo, LoCo and 650 Oersted mag-stripes to ISO, CQM and other standards

☑ Suitable for ISO ID-1 and CR80 magnetic stripe cards and tickets

☑ Automatic analysis on all three tracks – regardless of location – with fast test cycle times

☑ Widely used by magnetic stripe card and ticket issuers and manufacturers internationally

Typical Applications

☑ Cards – Lateral stripe, ID-1 and CR80 size, embossed, unembossed

☑ Tickets – Lateral or central stripes, ID-1 and CR80 size

THE BARNES ADVANTAGE

Barnes is the chosen test tool of Banks & Issuers, Card Manufacturers, Personalisation Bureaus and Test Laboratories worldwide.

BUSINESS AGILITY
Barnes test tools are easy to use by both technical and non-technical users, and speed up card development and payment scheme certification.

COST ELIMINATION
The high business costs and wasted resources of producing and issuing invalid cards are eliminated.

RISK REDUCTION
The reputational risk of issuing invalid EMV cards to end customers is reduced.

FUTURE PROOFED
Barnes works in partnership with all major payment schemes. As scheme rules evolve, Barnes rapidly makes updated test script packs available to customers via the Barnes website.

SERVICE EXCELLENCE
Our clients have every confidence that, whatever their test requirement, the Barnes team is always on-hand to deliver expert advice and fast support.

FEATURES AND BENEFITS

All the features of the Mag-Tester VERIFY are designed to deliver the highest levels of test-result accuracy and convenience to any magnetic stripe card and ticket manufacturing, bureau or QC environment.

High Precision Motorised Transports
These simulate field conditions by carrying the cards and tickets across the head. This helps to identify mechanical problems affecting the magnetic performance of the card or ticket, for example oversized cards.

High Resolution Optical Sensor
This unique feature tracks continuously the position and speed of the card or ticket ensuring the accurate measurement of bit spacing, jitter and amplitude throughout the analysis.

Automatically Positioned Lateral Slide
Using this feature, the complexity of testing multi-track cards or tickets is reduced. From the PC, the heads can be accurately and selectively positioned at non-standard track locations on each transport.

Uncoated Read Heads
Ensures ISO recommendations are met and results are not affected by stray magnetic flux from single gap read heads. Uncoated read heads are used for each transport. Ceramic coated heads are available; these are recognised by ISO for extended life in a QC environment.

Multi-level User Interface
The Mag-Tester VERIFY is designed to be easy to use by both the non-technical operator and at the same time provides detailed technical information for engineering staff. Comprehensive magnetic stripe analysis displays and diagnostic facilities for Encoded cards are available, making the Mag-Tester VERIFY ideal for both production QC testing and laboratory analysis.

Convenient USB Interface
A USB connection enables the Mag-Tester VERIFY to be installed on any laptop or PC running Windows 7 and 10 (32-bit and 64-bit), in the most demanding production environments as well as laboratories and bureaus.

UPGRADE YOUR MAG-TESTER

Mag-Tester VERIFY Level 2
- Complete Results Database, Results Report – Detailed Test Results shown vs. ISO requirements
- Powerful Graphical display - Detailed test information provided in a Graphical format to identify and illustrate possible problems

Mag-Tester VERIFY Level 3
- Level 1 and 2 upgrade items as above, plus Powerful QC batch analysis facility
- Automatic ISO 9000 style batch test Certificate function

Mag-Tester VERIFY Level 4
- Level 1, 2 and 3 upgrade items as above
- Batch Testing & Data Analysis Media can be batch tested; batch test data can be exported to external database programmes (MS Access, Excel) for further analysis (Gage R & R, Six Sigma), if required. Data analysis includes statistics, histograms and performance trends right through to the automatic generation of ISO 9000 test results certificates.
- Automatic Zoom to Error Software Intelligent analysis software zooms to display of faulty media or encoding locations.

Full MAG-TESTER 3000E

ENCODED STRIPE ANALYSIS

- ISO 7811-2, ISO 7811-6 / ISO 7811-8 Tables 2-7 tests
- Automatically test any or all 3 ISO tracks
- Variable Test Track location
- Character Count, Data, Parity, LRC
- Leading/trailing zeros, start/end sentinel locations
- Signal amplitudes, signal waveform
- Bit density, Bit spacing
- Bit/Bit spacing variation (Jitter)
- Reverse & Repeat read tests (encoded cards)
- Test to Mastercard CQM requirements (with Level 2 & above, to meet reporting requirements)