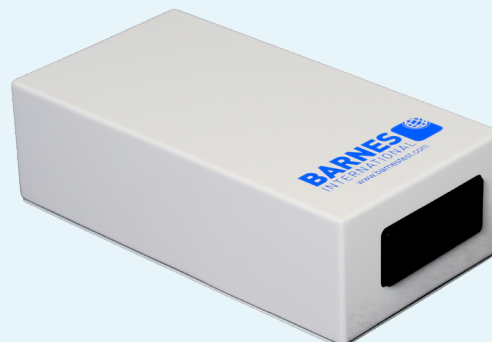# BARNES INTERNATIONAL

3K7 Reader
Barnes Chip Card Reader

Reads Magnetic Stripe, Chip and Contactless Data for further analysis by associated Barnes software

Card issuers need to ensure that contact/contactless chip and magnetic stripe data correspond and meet EMV and Payment Scheme requirements to prevent the costly production of invalid payment cards. The Barnes 3K7 reader collects data from the card. The Contact only version collects Magnetic Stripe (ISO tracks 1, 2 and 3) and Chip Data meeting T=0 and T=1 protocols. The Contactless option enables collection of data over ISO 14443 interface. The reader is full motorised and robustly built to meet the high demands of Card developers, Laboratories and Card Personalisation Bureaus. Barnes 3K7 working with Barnes card validation software enables card Issuers and Personalisation Bureaus to test that personalisation data on all or any one of the card data interfaces (magnetic stripe, chip, contactless) is correct, preventing costly defective cards being shipped to the end customer.

Solution Highlights

☑ Quickly tests that data on the chip and magnetic stripe are correct and valid according to issuer profiles and all major payment scheme specifications.

☑ Supports magstripe, contact and contactless cards.

☑ Essential in all EMV chip card issuing, personalisation, implementation and support operations.

AMERICAN EXPRESS

DISCOVER

JCB

mastercard

VISA

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

Card Type			Mag. & IC
Magnetic Stripe	ISO/IEC 7811 Hi-Co/Lo-Co	Track 1	Read
		Track 2	Read
		Track 3	Read
IC Card	ISO/IEC 7816		Read / Write
	Protocol Handling		T=0,1
	EMV		Ver. 4.0 approved
	IC Contactless		Optional
Shutter			Full
Interface			RS232C with optional Serial USB Converter
Power Supply			+12V DC
Reader Dimensions (mm)		W	184
		D	366
		H	228
Notes			LED, Motorized Insertion, Capture Function

ASSOCIATED SOLUTIONS

EMV Card PVT – CPT 3000v3CL
Validates data on chip and magnetic stripe are correct and valid according to issuer profiles, and payment scheme specifications

EMV PVT for Contactless - CPT 3000v3CL
Validates contactless cards and ensures that dual interface cards deliver consistent information over both interfaces.

EMV PVT for Mobile - CPT 3000v3ML
Validates mobile payment data over NFC plus SWP interfaces.

PersevalPro EMV PVT
Validates data on chip and magnetic stripe are correct and valid according to Payment Scheme Certification Specifications, issuer requirements and QC test scenarios.

TECHNICAL SPECIFICATIONS

Software
- OS: Windows 7, 10 & 11 (32-bit & 64-bit)

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