Peripheral Dynamics Inc.

DOCUMENT SCANNER
&
AUTO IDENTIFICATION PRODUCTS CATALOG

Peripheral Dynamics Inc.
5150 Campus Drive
Plymouth Meeting, PA 19462-1123
Toll-Free: 800-523-0253
Phone: 610-825-7090 Fax: 610-834-7708
Email: sales@pdiscan.com Internet: www.pdiscan.com

Peripheral Dynamics Inc.

INTRODUCTION

Peripheral Dynamics Inc. ("PDI") is a world-class leader and OEM manufacturer of state-of-the-art data entry and image capture scanners, dispensers, card and ticket printers. PDI was founded in 1969 with years of experience to draw from and is pleased to offer a broad range of products. PDI is a wholly owned subsidiary of Indel/Rowan Technologies. With resources of a one billion dollar company, you can purchase PDI products with confidence. From applications engineering through quality assured product, we want to earn your business. PDI offers quality solutions that provide our customers a competitive edge.

PDI'S MAJOR PRODUCT CATEGORIES INCLUDE:

* Image Document Scanners including OMR-OCR-BCR
* Document Scanning Software
* Driver's License and ID Card Scanners
* Passport Scanners
* Optical Mark Sense Scanners with Optional Printers
* Color Card Printers
* Cell Phone Magnetic/Smart Card Readers
* NFC Near Field Communications Readers
* PCI Compliant Mag Read Heads bringing anti skimming to the source!
* Magnetic Stripe Readers and Writers
* Smart Card Contact and Contactless Reader/Writers
* Magnetic and Smart Card Dispensers
* RFID Contactless Reader/Writers
* Paper Ticket Printer/Dispensers

In addition, PDI provides custom design, product development and manufacturing for companies that have special applications related to data input, forms handling and document scanning.

PDI is located in Plymouth Meeting, Pennsylvania, just outside Philadelphia. This location enables PDI to utilize the high-tech and engineering talent available in the northeast United States. enabling us to stay on the cutting edge of the development of products that offer high reliability as well as excellent cost/performance ratios.

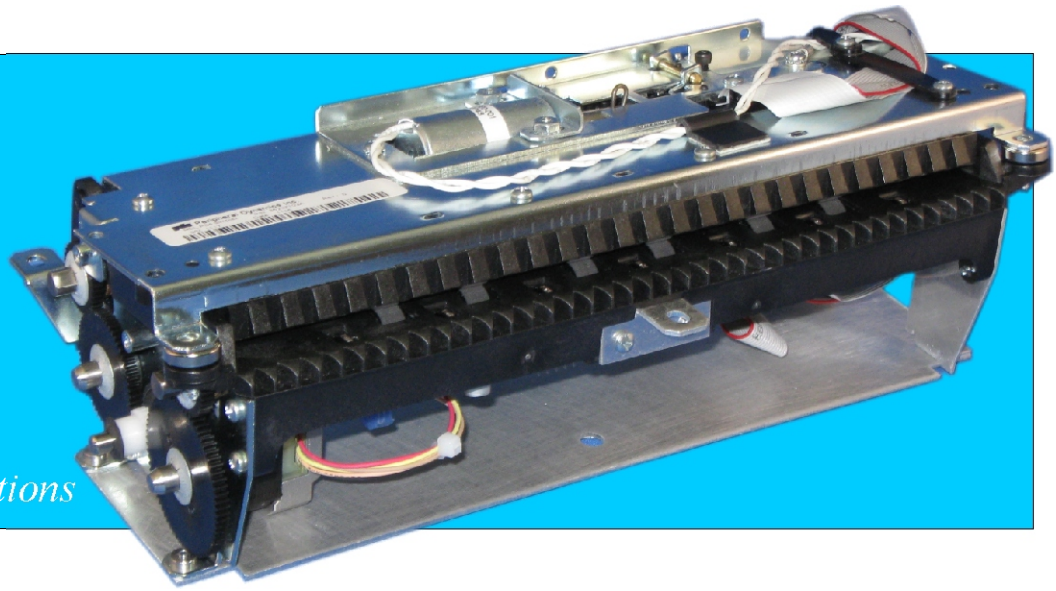
PDI's technical capabilities include customized mechanisms for document handling, innovative optical and magnetic sensing, advanced digital electronics, data communications and microprocessor technology and customized application solutions.

PERIPHERAL DYNAMICS INC. *Scanning New Horizons in Data Entry*
5150 Campus Drive, Plymouth Meeting, PA 19462-1123 USA
Toll Free: 800-523-0253 Phone: 610-825-7090 Fax: 610-834-7708
E-Mail: sales@pdiscan.com Internet: www.pdiscan.com

High-Speed Transport Exceeds Anything on the Market!

PAGESCAN IV SCANNER

The Fourth-Generation Full-Page Image Scanner from PDI, Combining Durability, High Speed and Superior Image Quality in an Open-Frame Mechanism for OEM Applications



TRANSMIT AND RECEIVE DATA VIA A SERIAL USB INTERFACE ... SCAN DOCUMENTS AT 17 IPS@200 DPI

The rugged and reliable PAGESCAN IV is ideal for demanding environments scanning documents at 17 IPS @ 200 DPI. This long-life scanner produces your choice of bitonal or 8-bit grayscale images. PAGESCAN IV is available in both simplex and duplex versions to suit your specific application and offers bi-directional document transport allowing straight-through or reciprocating (return to user) operation. PAGESCAN IV scans forms from a full-page legal size (8-1/2" x 14") down to forms 3.25" wide x 3.25" long. The industrial strength PAGESCAN IV captures images, decodes Bar Codes (BCR), Optical Characters (OCR) & Optical Marks (OMR) on Gaming Forms for Lottery, Keno, Bingo, and Racetrack Bet Slips. Other applications include Election Ballots, Medical Records, Time Cards, Maintenance Logs, Invoices, and much, much more.

Check these outstanding features:

- Extreme flexibility – Send full images to the host for processing or process the image data on-board the scanner and send only the decoded results, reducing resources needed on the host processor.
- Advanced optic system design provides the highest quality image available in the market by minimizing sensitivity to creases and folds in a document. This results in unparalleled archival data and higher accuracy of decoded data.
- Mechanism is modular and designed to fit as an OEM subassembly into most terminal enclosures.
- Designed with increased form clearance to handle a wide range of paper sizes and to minimize paper jams.
- Selectable bitonal or 8-bit grayscale scanning.
- Standard USB 2.0 high speed interface, backward compatible with USB 1.1 full speed.
- Bi-directional transport permits straight through transport for rear-binning or reciprocating operation.
- Increased form clearance to handle a wide range of paper sizes and to minimize paper jams.
- Equipped with hinge mounted transport path for easy access for cleaning and jam clearing.
- Software available for OCR, OMR, bar code and image capture applications.
- The image scanner that combines durability with high speed.

FOR THE FULL STORY ON THE ULTIMATE IMAGE SCANNER, CONTACT US TODAY.

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SCANNING NEW HORIZONS IN DATA ENTRY

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PAGESCAN IV SCANNER

The Fast Full-Page Image Scanner with USB Interface

GENERAL SPECIFICATIONS

DC POWER REQUIREMENTS

Simplex or Duplex:
+24 VDC ± 5% @ 30W

SIMPLEX THERMAL PRINTER OPTION

Additional +24 VDC ± 5% @ 30W

WEIGHT

The total weight of the scanner, including mechanism and PC assemblies, is approximately 4 lbs.

DATA DETECTION

Scan head is a linear photodiode sensor array containing 1728 pixels at 8 dpm (200 dpi). Scanning is reflective with advanced light sources (wavelength 660nm) for shadow-free illumination.

DOCUMENT SPEED/TRANSPORT TIME

Transport scanning speed = 17 ips @ 200 dpi
Transport speed (printing/branding) = 1.1 ips @ 180 lines/inch
2.2 ips @ 90 lines/inch

Typical transaction (transport) time:
For 8-inch long selection slip = 0.5 seconds (200 dpi).
For 11-inch long full-page = 0.7 seconds (200 dpi).

IMAGE DATA

Bitmap image data format is command selectable as either:
8-bit grayscale data (1 pixel per 8-bit data byte)
Bitonal (B/W) data (8 pixels per data byte)

TEMPERATURE

Operating: 0^0C to + 50^0C
Storage: -25^0C to + 60^0C

RELATIVE HUMIDITY (non-condensing)

Operating: 10 to 85%
Storage: 5 to 95%

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Batch Feed Image Scanners*
- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *RFID Reader/Writers*
- *Card Dispensers*
- *Ticket Issuing Machines*
- *Color ID Card Printers*
- *Scanning Software & Developer's Tool Kits*

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Scanjack Blackjack Card Scanner

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Printed in USA

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PAGESCAN IV SCANNER

Fourth-Generation Full-Page Image Scanner from PDI, Combining Durability, High Speed and Superior Image Quality in a Stand-Alone Table-Top Version!

PAGESCAN IV... the fourth generation image capture scanner is now available as a stand-alone unit in an attractive case. The rugged and reliable PAGESCAN IV is ideal for demanding environments scanning documents at 17 IPS @ 200 DPI. This long-life scanner, housed in a compact, durable polycarbonate plastic case, produces your choice of bitonal or 8-bit grayscale images. PAGESCAN IV is available in both simplex and duplex versions to suit your specific application and offers bi-directional document transport allowing straight-through or reciprocating (return to user) operation. PAGESCAN IV scans forms from up to a maximum of 8-1/2" x 22" down to forms 3.25" wide x 3.25" long. The industrial strength PAGESCAN IV captures images, decodes Bar Codes (BCR), Optical Characters (OCR) & Optical Marks (OMR) on Gaming Forms for Lottery, Keno, Bingo, and Racetrack Bet Slips. Other applications include Election Ballots, Medical Records, Time Cards, Maintenance Logs, Invoices, Tests, and much, much more.

Check these outstanding features:

- Extreme flexibility – Send full images to the host for processing or process the image data on-board the scanner and send only the decoded results, reducing resources needed on the host processor.
- Attractive, compact, yet rugged scanner gives you trouble-free operation for a variety of applications.
- Reliable advanced optic design provides the highest quality image available by minimizing sensitivity to creases and folds in a document. This results in clearer images and more accurate data for OCR, OMR, and bar code applications.
- Selectable bitonal or 8-bit grayscale scanning.
- Standard USB 1.1 or 2.0 interface.
- Bi-directional transport permits straight through transport for rear-binning or reciprocating operation.
- Increased form clearance to handle a wide range of paper sizes and to minimize paper jams.
- Software available for OCR, OMR, bar code and image capture applications.
- The image scanner that combines durability with high speed.

FOR MORE INFO ON THE PAGESCAN III TABLETOP SCANNER, CONTACT US TODAY.

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PAGESCAN IV SCANNER

The Image Scanner That Combines Durability with High Speed

GENERAL SPECIFICATIONS

DC POWER REQUIREMENTS

Simplex or Duplex:
+24 VDC ± 5% @ 30W

SIMPLEX THERMAL PRINTER OPTION

Additional +24 VDC ±5% @ 30W

WEIGHT

The total weight of the scanner is approximately 5.2 lbs.

DATA DETECTION

Scan head is a linear photo diode sensor array containing 1728 pixels at 8 dpm (200 dpi). Scanning is reflective with advanced light sources (wavelength 660nm) for shadow-free illumination.

DOCUMENT SPEED/TRANSPORT TIME

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Transport speed (printing/branding) = 1.1 ips @ 180 lines/inch
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Typical transaction (transport) time:
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IMAGE DATA

Bitmap image data format is command selectable as either:
8-bit grayscale data (1 pixel per 8-bit data byte) or
Bitonal (B/W) data (8 pixels per data byte)

TEMPERATURE

Operating: 0°C to + 50°C
Storage: -25°C to + 60°C

RELATIVE HUMIDITY (non-condensing)

Operating: 10 to 85%
Storage: 5 to 95%

COMPLIANCE

FCC Part 15, Subpart B, Class B compliant

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *RFID Reader/Writers*
- *Card Dispensers*
- *Ticket Issuing Machines*
- *Color ID Card Printers*
- *Scanning Software & Developer's Tool Kits*

Scanjack Blackjack Card Scanner

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SCANNING NEW HORIZONS IN DATA ENTRY

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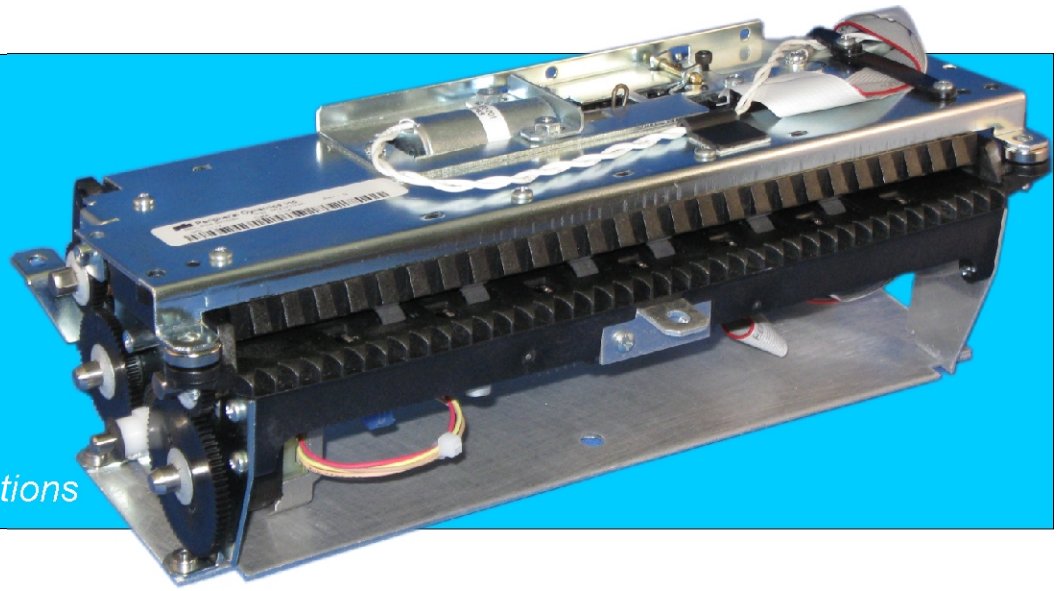
Printed in USA

Now in Full Color at 400 / 600 DPI or 200 / 300 / 400 DPI Monochrome

PAGESCAN V SCANNER

The New Fifth-Generation Full-Page Image Scanner from PDI, Combining Durability, High Speed and Superior Image Quality in an Open-Frame Mechanism for OEM Applications



USB 2.0 INTERFACE
200/300/400 DPI MONOCHROME OR 400/600 DPI FULL COLOR

The rugged and reliable PAGESCAN V is ideal for demanding environments scanning documents at 17 IPS @ 200 DPI with lower speeds at higher resolution. This long-life scanner produces your choice of bitonal, 8-bit grayscale or color images. PAGESCAN V is available in both simplex and duplex versions to suit your specific application and offers bi-directional document transport allowing straight-through or reciprocating (return to user) operation. PAGESCAN V scans forms from a full-page legal size (8-1/2" x 14") down to forms 3.25" wide x 3.25" long. The industrial strength PAGESCAN V captures images, decodes Bar Codes (BCR), Optical Characters (OCR) & Optical Marks (OMR) on Gaming Forms for Lottery, Keno, Bingo, and Racetrack Bet Slips. Other applications include Election Ballots, Medical Records, Time Cards, Maintenance Logs, Invoices, and much, much more.

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- Advanced optic system design provides the highest quality image available in the market by minimizing sensitivity to creases and folds in a document. This results in unparalleled archival data and higher accuracy of decoded data.
- Mechanism is modular and designed to fit as an OEM subassembly into most terminal enclosures.
- Designed with increased form clearance to handle a wide range of paper sizes and to minimize paper jams.
- Selectable bitonal, 8-bit grayscale or optional full color scanning.
- Standard USB 2.0 high speed interface, backward compatible with USB 1.1 full speed.
- Bi-directional transport permits straight through transport for rear-binning or reciprocating operation.
- Increased form clearance to handle a wide range of paper sizes and to minimize paper jams.
- Equipped with hinge mounted transport path for easy access for cleaning and jam clearing.
- Optional software available for OCR, OMR, bar code and image capture applications.
- The image scanner that combines durability with high speed.

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PAGESCAN V SCANNER

The Fast Full-Page Image Scanner with USB Interface

GENERAL SPECIFICATIONS

DC POWER REQUIREMENTS

Simplex or Duplex:
+24 VDC ± 5% @ 30W

SIMPLEX THERMAL PRINTER OPTION

Additional 30W on 24V input

WEIGHT

The total weight of the scanner, including mechanism and PC assemblies, is approximately 4 lbs.

DATA DETECTION

Scanning head is constructed with a linear photodiode sensor array and an advanced light source design that provides shadow-free illumination.

Monochrome version: 660nm red or green at resolutions up to 400 dpi.
Color version: RGB color at resolutions up to 600 dpi.

DOCUMENT SPEED

Transport scanning speed = 17 ips @ 200 dpi monochrome
7.6 ips @ 300 dpi monochrome
5.6 ips @ 400 dpi monochrome
3.3 ips @ 200 dpi color - optional
2.1 ips @ 400 dpi color - optional
1.0 ips @ 600 dpi color - optional

Transport speed (printing/branding) = 1.1 ips @ 180 lines/inch
2.2 ips @ 90 lines/inch

OUTPUT DATA FORMATS

Monochrome version: 8-bit grayscale; bitonal (B/W) bitmap; Decoded row-column OMR; Decoded Bar Code.
Color version: RGB Color 24-bit bitmap.

TEMPERATURE

Operating: 0^0C to + 50^0C
Storage: -25^0C to + 60^0C

RELATIVE HUMIDITY (non-condensing)

Operating: 10 to 85%
Storage: 10 to 90%

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Batch Feed Image Scanners*
- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *RFID Reader/Writers*
- *Card Dispensers*
- *Ticket Issuing Machines*
- *Color ID Card Printers*
- *Scanning Software & Developer's Tool Kits*

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Scanjack Blackjack Card Scanner

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Printed in USA

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Now in Full Color at 400 / 600 DPI or 200 / 300 / 400 DPI Monochrome

PAGESCAN V SCANNER

New Fifth-Generation Full-Page Image Scanner from PDI, Combining Durability, High Speed and Superior Image Quality in a Stand-Alone Table-Top Version!

PAGESCAN V... the fifth generation image capture scanner is now available as a stand-alone unit in an attractive case. The rugged and reliable PAGESCAN V is ideal for demanding environments scanning documents at 17 IPS @ 200 DPI or lower speeds at higher resolution. This long-life scanner, housed in a compact, durable polycarbonate plastic case, produces your choice of bitonal, 8-bit grayscale or full color at up to 600 dpi images. PAGESCAN V is available in both simplex and duplex versions to suit your specific application and offers bi-directional document transport allowing straight-through or reciprocating (return to user) operation. PAGESCAN V scans forms from up to a maximum of 8-1/2" x 22" down to forms 3.25" wide x 3.25" long. The industrial strength PAGESCAN V captures images, decodes Bar Codes (BCR), Optical Characters (OCR) & Optical Marks (OMR) on Gaming Forms for Lottery, Keno, Bingo, and Racetrack Bet Slips. Other applications include Election Ballots, Medical Records, Time Cards, Maintenance Logs, Invoices, Tests, and much, much more.

Check these outstanding features:

- Extreme flexibility – Send full images to the host for processing or process the image data on-board the scanner and send only the decoded results, reducing resources needed on the host processor.
- Attractive, compact, yet rugged scanner gives you trouble-free operation for a variety of applications.
- Reliable advanced optic design provides the highest quality image available by minimizing sensitivity to creases and folds in a document. This results in clearer images and more accurate data for OCR, OMR, and bar code applications.
- Selectable bitonal, 8-bit grayscale or optional full color at up to 600 dpi scanning.
- Standard USB 1.1 or 2.0 interface.
- Bi-directional transport permits straight through transport for rear-binning or return to user.
- Increased form clearance to handle a wide range of paper sizes and to minimize paper jams.
- Optional software available for OCR, OMR, bar code and image capture applications.
- The image scanner that combines durability with high speed.

FOR MORE INFO ON THE PAGESCAN V TABLETOP SCANNER, CONTACT US TODAY.

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PAGESCAN V SCANNER

The Image Scanner That Combines Durability with High Speed

GENERAL SPECIFICATIONS

DC POWER REQUIREMENTS
Simplex: 18W (max) Duplex: 24W (max)
All versions operate from a single supply +24 VDC ± 5%

SIMPLEX THERMAL PRINTER OPTION
Additional +24 VDC @ 32W (max)

WEIGHT
The total weight of the scanner is approximately 5.2 lbs.

DATA DETECTION
Scanning head is constructed with a linear photodiode sensor array and an advanced light source design that provides shadow-free illumination.
Monochrome version: 660nm red or green at resolutions up to 400 dpi.
Color version: RGB color at resolutions up to 600 dpi.

DOCUMENT SPEED
Transport scanning speed = 17 ips @ 200 dpi monochrome
7.6 ips @ 300 dpi monochrome
5.6 ips @ 400 dpi monochrome
3.3 ips @ 200 dpi color - optional
2.1 ips @ 400 dpi color - optional
1.0 ips @ 600 dpi color - optional

Transport speed (printing/branding) = 1.1 ips @ 180 lines/inch
2.2 ips @ 90 lines/inch

OUTPUT DATA FORMATS
Monochrome version: 8-bit grayscale; bitonal (B/W) bitmap; Decoded row-column OMR; Decoded Bar Code.
Color version: RGB Color 24-bit bitmap.

THERMAL PRINTER OPTION
Print Width: 18 mm
Dot Pitch: 7.1 mm

TEMPERATURE
Operating: 0^0C to + 50^0C
Storage: -25^0C to + 60^0C

RELATIVE HUMIDITY (non-condensing)
Operating: 10 to 85%
Storage: 10 to 90%

INTERFACE
USB 2.0 High Speed
USB 1.1 Full Speed

REGULATORY CERTIFICATIONS
FCC Part 15, Subpart B, Class B
Industry Canada, ICES-003

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Batch Feed Image Scanners*
- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *RFID Reader/Writers*
- *Card Dispensers*
- *Ticket Issuing Machines*
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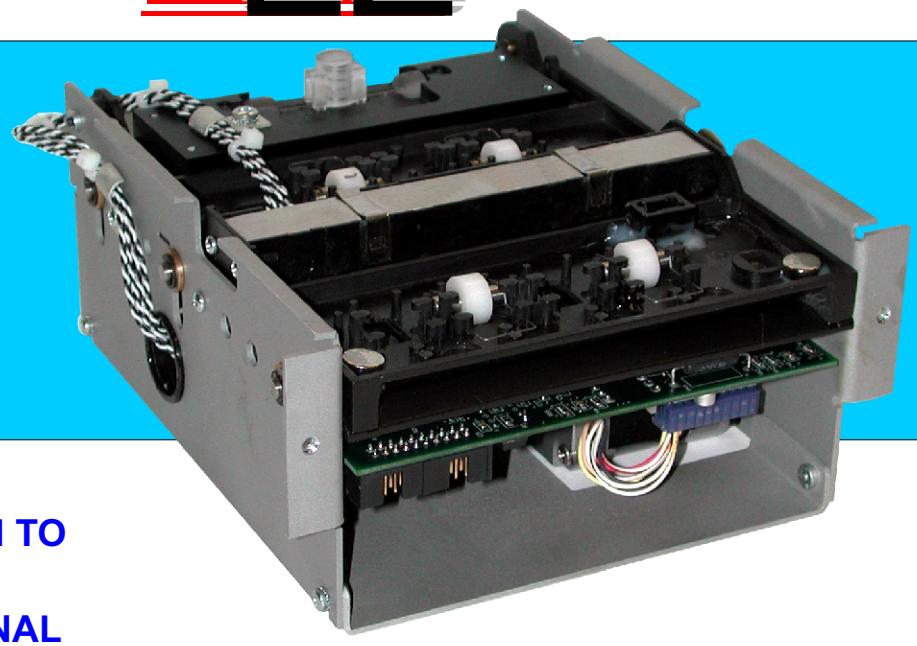
Printed in USA

Highest Quality Image Available Anywhere!

EZscan™ IV

The New Half-Page Image Scanner that Lets You Scan Both Sides of a Form Simultaneously at a Fast 22 ips!



SCAN FORMS FROM A HALF-PAGE SIZE (A6) DOWN TO 2.75 INCH-WIDE FORMS IN 8-BIT GRAYSCALE OR BITONAL

It's here....the New EZscan IV from PDI...the high-speed half-page scanner that provides the highest quality image available on the market. EZscan IV is ideal for a variety of applications including point of sale for lottery, wagering, test scoring, banking and business forms.

EZscan IV automatically transports and scans forms from A6-size down to 2.75 inch-wide personal checks...and its bi-directional transport permits straight through or reciprocating operation. EZscan IV connects with a high-speed USB 2.0 port and can scan both sides of a form simultaneously. The scanner's hardware and software automates form design, expedites form handling and simplifies data decoding.

The scanner captures document images with command selectable at 100, 200 or 400 dpi and scans forms on a line-by-line basis up to 22 ips. Image data is available in 8-bit grayscale or bitonal (b/w) formats. Proprietary PC software decodes mark-sense data (OMR), OCR, bar code and MICR data. The mechanism is modular and is designed for an easy fit as an OEM subassembly into most terminal enclosures.

TAKE A LOOK AT THE MANY FEATURES OF EZscan IV

- Bi-directional transport permits straight through (eject rear) or reciprocating (eject front) operation....with the ability to pay Brand or cancel a paid ticket with a high-density thermal print head or ink-jet print head prior to ejecting
- An advanced optical system design provides the highest quality image available by minimizing sensitivity to creases and folds which results in unparalleled accuracy and successful data decode
- Handles forms in sizes ranging from 2.75" wide personal checks up to a maximum of 4.25" W. x 11.00" L. or A6-size documents
- Contains document skew correction software
- Scans and transmits image data at 100, 200 or 400 dpi (command selectable)
- Hinged transport design opens effortlessly for easy access to the document path for read head cleaning
- Optional inkjet print head available for endorsing checks or other printing requirements

FOR THE FULL SCOOP ON EZscan IV, CONTACT US TODAY.

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EZscan™ IV

The Versatile High Speed Half-Page Image Scanner

GENERAL SPECIFICATIONS

DC POWER REQUIREMENTS
+24 VDC ± 5% @ 32W

WITH THERMAL PRINTER OPTION
+24 VDC ± 5% @ 65W

WEIGHT
The total weight of the scanner, including mechanism and PC assemblies, is approximately 3 lbs.

DATA DETECTION / SCAN HEAD
Scan head is 100, 200 or 400 dpi. Scanning is reflective minimizing the effect of creases and wrinkles on the document. Optional light sources, 660nm red for red dropout for OMR applications or 565nm yellow-green for detection of a wider spectrum of ink colors. Light sources designed for shadow-free illumination.

DOCUMENT SPEED/TRANSPORT TIME
Transport scanning speed up to 22 in/sec @ 200 dpi
Transport speed (thermal printing): 1.0 in/sec (minimum)

IMAGE DATA
Image data format is command selectable as either:
8-bit grayscale data (1 pixel per 8-bit data byte) or
Bitonal (b/w) data (8 pixels per data byte)

TEMPERATURE
Operating: +0°C to + 50°C
Storage: -25°C to + 60°C

With Ink Jet
Operating: +10°C to + 40°C
Storage: -5°C to + 55°C **

** Limits of storage temperature apply only when the ink-jet cartridge is sealed in its original package (as shipped from HP and PDI). After the cartridge is installed in the scanner, storage temperature is replaced by the values shown for ink-jet operating temperature.

RELATIVE HUMIDITY (non-condensing)
Operating: 10 to 85%
Storage: 10 to 90%

With Ink Jet
Operating: 10 to 80%
Storage: 10 to 90%

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *Special Purpose Impact Printers*

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Highest Quality Image Available Anywhere!

EZscan™ IV

The New Half-Page Image Scanner that Lets You Scan Both Sides of a Form Simultaneously at a Fast 22 ips!

SCAN FORMS FROM A HALF-PAGE SIZE (A6) DOWN TO 2.75 INCH-WIDE FORMS IN 8-BIT GRAYSCALE OR BITONAL

It's here....the New EZscan IV from PDI...the high-speed half-page scanner that provides the highest quality image available on the market. EZscan IV is ideal for a variety of applications including point of sale for lottery, wagering, test scoring, banking and business forms.

EZscan IV automatically transports and scans forms from A6-size down to 2.75 inch-wide personal checks...and its bi-directional transport permits straight through or reciprocating operation. EZscan IV connects with a high-speed USB 2.0 port and can scan both sides of a form simultaneously. The scanner's hardware and software automates form design, expedites form handling and simplifies data decoding.

The scanner captures document images with command selectable at 100, 200 or 400 dpi and scans forms on a line-by-line basis up to 22 ips. Image data is available in 8-bit grayscale or bitonal (b/w) formats. Proprietary PC software decodes mark-sense data (OMR), OCR, bar code and MICR data. The mechanism is modular and is designed for an easy fit as an OEM subassembly into most terminal enclosures.

TAKE A LOOK AT THE MANY FEATURES OF EZscan IV

- Bi-directional transport permits straight through (eject rear) or reciprocating (eject front) operation....with the ability to pay Brand or cancel a paid ticket with a high-density thermal print head or ink-jet print head prior to ejecting
- An advanced optical system design provides the highest quality image available by minimizing sensitivity to creases and folds which results in unparalleled accuracy and successful data decode
- Handles forms in sizes ranging from 2.75" wide personal checks up to a maximum of 4.25" W. x 11.00" L. or A6-size documents
- Contains document skew correction software
- Scans and transmits image data at 100, 200 or 400 dpi (command selectable)
- Hinged transport design opens effortlessly for easy access to the document path for read head cleaning
- Optional inkjet print head available for endorsing checks or other printing requirements

FOR THE FULL SCOOP ON EZscan IV, CONTACT US TODAY.

Peripheral Dynamics Inc.®
SCANNING NEW HORIZONS IN DATA ENTRY

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EZscan™ IV

The Versatile High Speed Half-Page Image Scanner

GENERAL SPECIFICATIONS

DC POWER REQUIREMENTS
+24 VDC ± 5% @ 32W

WITH THERMAL PRINTER OPTION
+24 VDC ± 5% @ 65W

WEIGHT
The total weight of the scanner, including mechanism and PC assemblies, is approximately 3 lbs.

DATA DETECTION / SCAN HEAD
Scan head is 100, 200 or 400 dpi. Scanning is reflective minimizing the effect of creases and wrinkles on the document. Optional light sources, 660nm red for red dropout for OMR applications or 565nm yellow-green for detection of a wider spectrum of ink colors. Light sources designed for shadow-free illumination.

DOCUMENT SPEED/TRANSPORT TIME
Transport scanning speed up to 22 in/sec @ 200 dpi
Transport speed (thermal printing): 1.0 in/sec (minimum)

IMAGE DATA
Image data format is command selectable as either:
8-bit grayscale data (1 pixel per 8-bit data byte) or
Bitonal (b/w) data (8 pixels per data byte)

TEMPERATURE
Operating: +0°C to + 50°C
Storage: -25°C to + 60°C

With Ink Jet
Operating: +10°C to + 40°C
Storage: -5°C to + 55°C **

** Limits of storage temperature apply only when the ink-jet cartridge is sealed in its original package (as shipped from HP and PDI). After the cartridge is installed in the scanner, storage temperature is replaced by the values shown for ink-jet operating temperature.

RELATIVE HUMIDITY (non-condensing)
Operating: 10 to 85%
Storage: 10 to 90%

With Ink Jet
Operating: 10 to 80%
Storage: 10 to 90%

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *Special Purpose Impact Printers*

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SCANNING NEW HORIZONS IN DATA ENTRY

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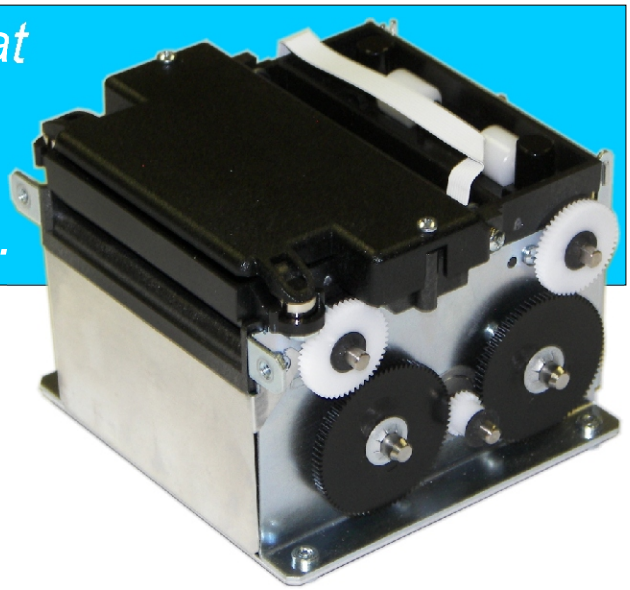
Quality Images that Give **YOU** the Competitive Edge!

UltraScan+

The Newest 3.25" Image Scanner that Lets you Scan your OMR cards And Much More at a Fast 22 IPS at 200 & 300 DPI or 5.5 IPS At 600 DPI.



OMR & OCR
1D & 2D BARCODES
IMAGE CAPTURE
THERMAL PRINTING

New + Features

Increase the native resolution to 600 dpi.

Providing the selection of 200, 300 and 600 dpi.

Increase the transports ability to move damaged documents.

Two rows of LEDs to improve images from damaged documents.

Color ready as an optional feature.

The newest UltraScan from PDI is the latest addition to our very successful line of document image scanners. This high-speed 3.25" document scanner provides the highest quality images available in the industry. UltraScan can be used as a replacement for our tried and true VMR-138 OMR and will also provide the additional ability to decode OCR, Bar Codes and capture full or partial images with optional Thermal Printing. UltraScan is designed to meet the stringent requirements of the OEM terminal manufacturer. UltraScan can handle all your applications - including processing Lottery, Bingo, Keno, Parimutuel, Test Scoring, Prescriptions, Parking, Healthcare, Surveys, Business forms and more.

UltraScan automatically transports and scans 3.25" wide forms and its bi-directional transport permits straight through or reciprocating operation. UltraScan interfaces to its host via a high-speed USB 2.0. The scanner's hardware and software automates form design, expedites form handling and simplifies data decoding. UltraScan allows the user to choose the mode of operation. The user can decode the data in the unit and send just a small decoded string of data thereby reducing the overhead on the terminal or have the full or partial image sent to the terminal for decoding and any other post processing as required by your application.

The scanner captures document images at 200, 300 or 600 dpi and scans forms on a line-by-line basis. Image data is available in 8-bit grayscale or bitonal (b/w) formats. PDI supplied Proprietary PC software or internal selectable code interprets optical mark-sense (OMR), optical character recognition (OCR) and bar code (BCR). The mechanism is modular and flips open easily for cleaning or the removal of foreign objects. UltraScan is designed with the smallest Footprint available in a scanner of this class to allow easy integration in any OEM terminal enclosure.

FOR THE FULL STORY ON UltraScan+, CONTACT US TODAY.

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UltraScan+

The Versatile High Speed 3.25” Image Scanner

SPECIFICATIONS

DC POWER REQUIREMENTS

+24 VDC ± 5% @ 18W (0.75A) (max., scanning)
30W (1.25A) (max., For thermal printing option)

WEIGHT

The total weight of the scanner, including mechanism and PC assemblies, is approximately 2 lbs.

DATA DETECTION / SCAN HEAD

Scan head array contains 2048 pixels at 24 dpm (600 dpi). Scanning is monochrome Red LED light source

SCAN SPEED

Transport scanning speed: 22 ips at 200 & 300 dpi or 5.5 ips at 600 dpi

IMAGE DATA

Image data format is command selectable as either:
8-bit grayscale data (1 pixel per 8-bit data byte) or
Bitonal (b/w) data (8 pixels per data byte)

TEMPERATURE

Operating: +5°C to +50°C (with brander option)
Operating: +0°C to +50°C (without brander option)
Storage: -25°C to + 60°C

HUMIDITY

Operating: 10 to 85% RH non-condensing
Storage: 10 to 90% RH non-condensing

THERMAL PRINTING

48mm print line centered in paper path
8 dpm print resolution
Print speed at 8 dpm: 1.76 in/sec

RELATED PDI EQUIPMENT

- *Batch Feed Image Scanners*
- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *RFID Readers*
- *Card Dispensers*
- *Ticket Issuing Machines*
- *Scanning Software & Developer’s Tool Kits*

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

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SCANNING NEW HORIZONS IN DATA ENTRY

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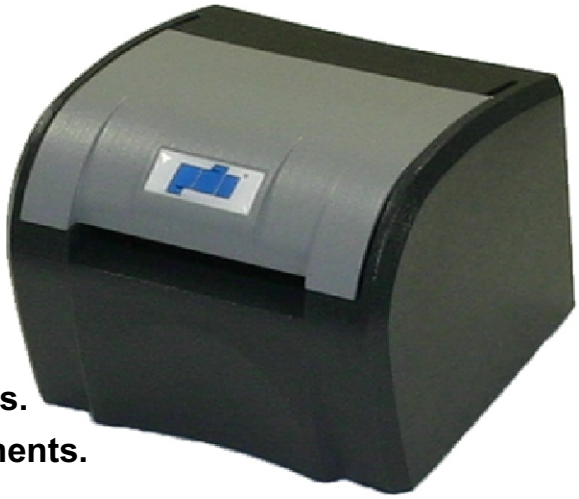
Quality Images that Give **YOU** the Competitive Edge!

UltraScan+

The Newest 3.25" Image Scanner that lets you Scan your OMR cards and Much More at a Fast 22 IPS at 200 & 300 DPI or 5.5 IPS at 600 DPI In a Stand-Alone Table-Top Version!

OMR & OCR
1D & 2D BARCODES
IMAGE CAPTURE
THERMAL PRINTING



New + Features

Increase the native resolution to 600 dpi.
Providing the selection of 200, 300 and 600 dpi.
Increase the transports ability to move damaged documents.
Two rows of LEDs to improve images from damaged documents.
Color ready as an optional feature.

The newest UltraScan from PDI is the latest addition to our very successful line of document image scanners. This high-speed 3.25" document scanner provides the highest quality images available in the industry. UltraScan can be used as a replacement for our Tried and True VMR-138 OMR and will also provide the additional ability to decode OCR, Barcodes and capture full or partial images with optional Thermal Printing. UltraScan is designed to meet the stringent requirements of the OEM terminal manufacturer. UltraScan can handle all your applications - including processing Lottery, Bingo, Keno, Parimutuel, Test Scoring, Prescriptions, Parking, and Healthcare, Surveys, Business forms and more.

UltraScan automatically transports and scans 3.25" wide forms and its bi-directional transport permits straight through or reciprocating operation. UltraScan interfaces to its host via a high-speed USB 2.0. The scanner's hardware and software automates form design, expedites form handling and simplifies data decoding. UltraScan allows the user to choose the mode of operation. The user can decode the data in the unit and send just a small decoded string of data thereby reducing the overhead on the terminal or have the full or partial image sent to the terminal for decoding and any other post processing as required by your application.

The scanner captures document images at 200, 300 or 600 dpi and scans forms on a line-by-line basis. Image data is available in 8-bit grayscale or bitonal (b/w) formats. PDI supplied Proprietary PC software or internal selectable code interprets optical mark-sense (OMR), optical character recognition (OCR) and bar code (BCR). The mechanism is modular and flips open easily for cleaning or the removal of foreign objects. UltraScan is designed with the smallest footprint available in a scanner of this class to allow easy integration in any OEM terminal enclosures.

FOR THE FULL STORY ON UltraScan+, CONTACT US TODAY.

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UltraScan+

The Versatile High Speed 3.25” Image Scanner

PRELIMINARY SPECIFICATIONS

DC POWER REQUIREMENTS

+24 VDC ±5% @ 18W (0.75A) (max., Scanning)
30W (1.25A) (max., for thermal printing option)

WEIGHT

The total weight of the scanner, including mechanism and PC assemblies, is approximately 2 lbs.

DATA DETECTION / SCAN HEAD

Scan head array contains 2048 pixels at 24 dpm (600dpi). Scanning is monochrome Red LED light source

SCAN SPEED

Transport scanning speed: 22 ips at 200 & 300 dpi or 5.5 ips at 600 dpi

IMAGE DATA

Image data format is command selectable as either:
8-bit grayscale data (1 pixel per 8-bit data byte) or
Bitonal (b/w) data (8 pixels per data byte)

TEMPERATURE

Operating: +5°C to + 45°C
Storage: -25°C to + 60°C

RELATIVE HUMIDITY (non-condensing)

Operating: 10 to 85%
Storage: 5 to 95%

THERMAL PRINTING

48mm print line centered in paper path
8 dpm print resolution
Print speed at 8 dpm: 0.5 in/sec

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *RFID Reader/Writers*
- *Card Dispensers*
- *Ticket Issuing Machines*
- *Color ID Card Printers*
- *Scanning Software & Developer’s Tool Kits*

Peripheral Dynamics Inc.
Scanjack Blackjack Card Scanner

Peripheral Dynamics Inc.
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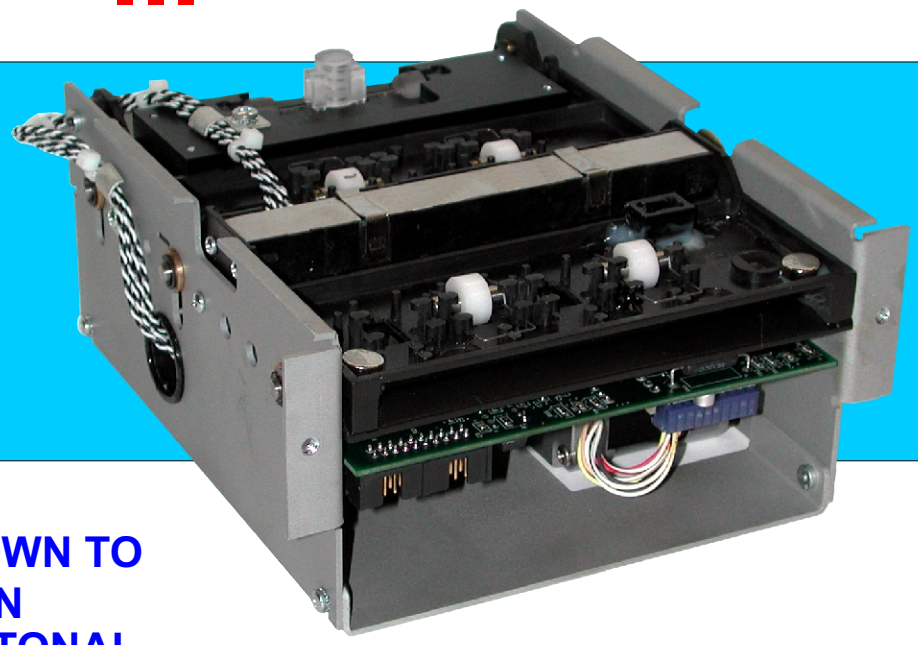
Highest Quality Image Available Anywhere!

EZscan™ III Check Scanner

The Half-Page Image Scanner that Lets You Scan Both Sides of a Form Simultaneously at a Fast 22 ips!



SCAN FORMS FROM A HALF-PAGE SIZE (A6) DOWN TO 2.75 INCH-WIDE FORMS IN 8-BIT GRAYSCALE OR BITONAL

It's here....the EZscan III from PDI...the high-speed half-page scanner that provides the highest quality image available on the market. EZscan III is ideal for a variety of applications including processing lottery, wagering and test score forms as well as scanning bank checks and business forms.

EZscan III automatically transports and scans forms from A6-size down to 2.75 inch-wide personal checks...and its bi-directional transport permits straight through or reciprocating operation. EZscan III interfaces to its host via a high-speed USB 2.0 serial port and can scan both sides of a form simultaneously. The scanner's hardware and software automates form design, expedites form handling and simplifies data decoding.

The scanner captures document images at 8 dpm, dots per millimeter, (approximately 200 dpi) and scans forms on a line-by-line basis at 22 ips. Image data is available in 8-bit grayscale or bitonal (b/w) formats. Proprietary PC software interprets mark-sense (OMR), optical (OCR)and bar code (BCR) data. The mechanism is modular and designed to fit as an OEM subassembly into most terminal enclosures.

TAKE A LOOK AT THE MANY FEATURES OF EZscan III

- Bi-directional transport permits straight through or reciprocating operation....with ability to audit information that has been printed utilizing a high-density thermal brander
- Advanced optic system design provides the highest quality image available by minimizing sensitivity to creases and folds in documents. This results in unparalleled archival data and higher accuracy of decoded data
- Handles forms with widths ranging from 2.75" wide personal checks up to forms 4.25" W. x 11.00" L. or A6-size documents
- Contains document skew correction software
- Scans and transmits image data at 100 or 200 dpi (command selectable)
- Easy access straight through document path for cleaning and to minimize paper jams
- Optional internal thermal print head or inkjet print head available

FOR THE FULL SCOOP ON EZscan III, CONTACT US TODAY.

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SCANNING NEW HORIZONS IN DATA ENTRY

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EZscan™ III

The Versatile High Speed Half-Page Image Scanner

GENERAL SPECIFICATIONS

DC POWER REQUIREMENTS
+24 VDC ± 10% @ 32W

WITH THERMAL PRINTER OPTION
+24 VDC ± 10% @ 65W

WEIGHT

The total weight of the scanner, including mechanism and PC assemblies, is approximately 3 lbs.

DATA DETECTION / SCAN HEAD

Scan head array contains 896 pixels at 8 dpm (200 dpi). Scanning is reflective with advanced light sources (wavelength 660 or 575nm) for shadow-free illumination.

DOCUMENT SPEED/TRANSPORT TIME

Transport scanning speed: 22 in/sec
Transport speed (inkjet strip, printing): 22 in/sec
(thermal printing): 1.0 in/sec (minimum)

IMAGE DATA

Image data format is command selectable as either:
8-bit grayscale data (1 pixel per 8-bit data byte) or
Bitonal (b/w) data (8 pixels per data byte)

TEMPERATURE

Operating: +5°C to + 45°C
Storage: -25°C to + 60°C

HUMIDITY

Operating: 10 to 85% RH non-condensing
Storage: 5 to 95% RH non-condensing

APPLICATIONS ENGINEERING ASSISTANCE

If you have specific requirements, call and challenge us. We make custom solutions our business.

RELATED PDI EQUIPMENT

- *Batch Feed Image Scanners*
- *Dual-Sided Check & Document Scanners*
- *Full-Page Image Scanners*
- *Multi-Function Image Capture Scanners*
- *Optical Mark Sense Readers & Reader/Printers*
- *Magnetic Stripe/Smart Card Readers*
- *Custom Scanners for Lottery, Race Tracks, etc.*
- *Customized Form Design & Printing*
- *Casino Blackjack Scanners*
- *RFID Reader/Writers*
- *Card Dispensers*
- *Ticket Issuing Machines*
- *Color ID Card Printers*
- *Scanning Software & Developer's Tool Kits*

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Quality Images that Give **YOU** the Competitive Edge!

DriversScan

Scans Driver's Licenses and ID Cards at 300/600 DPI Full Color in Duplex Mode

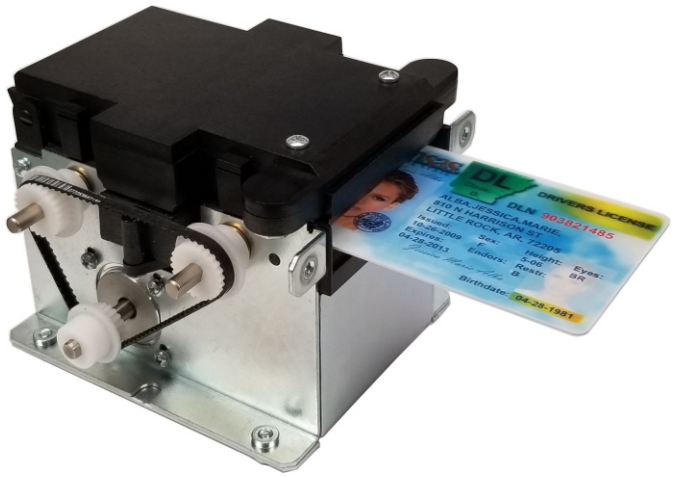

IMAGE CAPTURE
1D, 2D & PDF 417 BARCODES
MRZ OCR

- Duplex mode scans front and back of document in one pass.
- Hinged card path for easy cleaning.
- Downloadable firmware allowing for field updates.
- Accepts driver's licenses, credit cards and other Cr80 (2.125" x 3.75") sized ID Cards.
- Output image is selectable: Full Color, IR, and Monochrome.
- Decode - ICAO compliant documents: MRZ Optical character recognition available with PDI software.
- Decode Barcodes - 1D, 2D including PDF 417 with PDI software.
- Size 3.125" H x 3.960" W x 4.035" L.
- Standard 300/600 DPI resolution.
- Windows and Linux compatible.

For The Full Story On DriversScan, Contact Us Today.

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DriversScan

The Versatile High Speed Image Scanner

SPECIFICATIONS

DC POWER REQUIREMENTS

+24VDC ±5% @ 24W

WEIGHT

The total weight of the scanner, including mechanism and PC assemblies, is approximately 1.2 lbs.

SIZE

3.125” H x 3.960” W x 4.035” L

DATA DETECTION / SCAN HEAD

Scan head array contains 12/24 dpm (305/610 dpi). Full color scanning.

SCAN SPEED

Transport scanning speed: 305 dpi, 15 ips ±1% in monochrome & 5 ips in color.
610 dpi, 9 ips in monochrome & 3 ips in color.

IMAGE TYPE

Full 24 bit Color, IR, 8 bit Monochrome or a combination of any of these in one pass.

TEMPERATURE

Operating: $+0^0$C to $+50^0$C
Storage: -25^0C to $+60^0$C

HUMIDITY

Operating: 10 to 85% RH non-condensing
Storage: 10 to 90% RH non-condensing

RELATED PDI EQUIPMENT

- *Image Document Scanners including OMR-OCR-BCR*
- *Optical Mark Sense Scanners with Optional Printers*
- *Driver’s License Scanners*
- *ID Card Scanners*
- *Document Scanning Software*
- *Color Card Printers*
- *Passport Scanners*
- *Cell Phone Magnetic/Smart Card Readers*
- *PCI Compliant Read Heads bringing anti-skimming to the source*
- *Magnetic Stripe Readers and Writers*
- *Smart Card Reader/Writers*
- *Magnetic and Smart Card Dispensers*
- *RFID Contactless Reader/Writers*
- *Paper Ticket Printer/Dispensers*

APPLICATIONS ENGINEERING ASSISTANCE

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Peripheral Dynamics Inc.

OSMOND full featured Passport scanner

Data reading and verification capabilities, technical values and compliances.

Imaging

Active Scan Area	129 mm × 89 mm
Illumination Sources	LED visible white, IR (B900), UVA
Image Resolution	700 PPI
Sensor	12M pixel
Provided Images	Visible, IR, UV (UVA), OVD image, glare-free image – oblique (edge light)
Image Formats	BMP, JPG, JPG2000 and PNG
Image Color Depth	24 bits/pixels [RGB, 8 bits/pixels (IR image)]
Automatic Image Enhancement	YES – Hardware-accelerated
Automatic Document Detection (ADD)	YES
Reflection Removal (RR)	YES
Adaptive Light Control (ALC)	YES

Programming & Interfaces

Supported Operating Systems	USB mode: Windows & Linux
Software Development Kit (SDK)	USB mode: Complete SDK including DLLs and demo programs
Programming Languages	USB mode: C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java
General Interfaces	In USB mode: ARH native, Twain, PC/SC and BioAPI 2.0, Acuant AssureIDTM In network mode: HTTP/HTTPS for accessing the reader, WS, WSS, FTP, SFTP, FTPS, SMB, SMTP, WebDav,Local Database for result upload
RFID hardware	Adaptive Recognition RFID hardware (latest generation)
RFID functions	ICAO Doc. 9303 LDS 1.7, ISO 18013 (Driver License) PKI 1.1, BAC, EAC, EAC2.0, PACE, PACE-CAM, AA, PA, TA, CA, BAP, EAP
Authentication included in standard SDK	Authentication included in standard SDK - data consistency checks (MRZ, barcode, RFID), IR B900 ink and UV dull paper check.
VIZ OCR data reading option	VIZ and non-ICAO document reading
VIZ OCR + Authentication software module option	Automated verification based on document specific security features in visible white, IR and UVA
PC Connection	USB 3.0 (USB 3.1 Gen 1)
Status indicators	OLED graphical display
Firmware Upgrade	USB - optionally via network

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Reading Capability

ICAO MRZ Reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1 v1 Part 2, Part 3 and Part 3v3 for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ Reading Option	Available with Adaptive Recognition VIZ OCR software
Barcode Reading	1D: UPC-A, EAN8, EAN13, Code39, Code128, ITF, 2D: PDF 417, Data Matrix, QR Code, Aztec Code, Interlaced 2 of 5 (ITF), AAMVA compliant PDF417 and IATA BCBP
Contactless IC (RFID) and Contact Smart CardOption	Reading and writing contactless ICs according to: ISO 14443 Type A & B, BSI TR-03105All standardized rates up to 848 Kbps Contact Smart Card: according to ISO 7816 and EMV 4.2/4.3, ETSI TS 102 221, supports Class A, AB and C smart cards T=0, T=1 protocol support

Mechanical Data

Internal processor	Multi-core processor
Size (width × depth × height) / Weight	178mm × 203mm × 157mm / 2.25 kg
Power supply	Universal external power supply, 100-240 V AC, 50/60 Hz
Case	Sturdy ABS-PC plastic & Aluminum
Security	Kensington® security slot
Maintenance	Maintenance-free operation
Warranty	3-year warranty (can be extended)
Operating temperature	5 °C to 40 °C (45 °F to 113 °F) Operating humidity 0-90 % (non-condensing)

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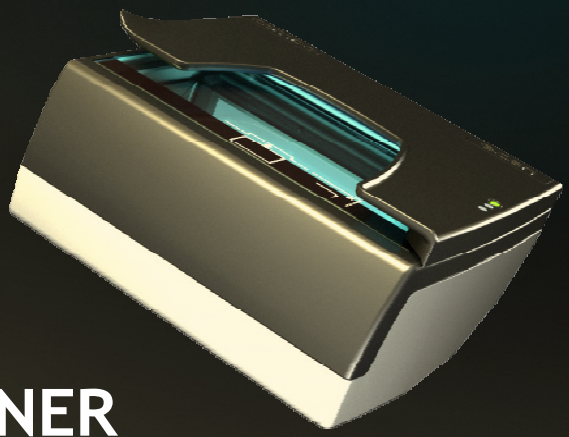
PASSPORT READERS & ID



COMBO SCAN

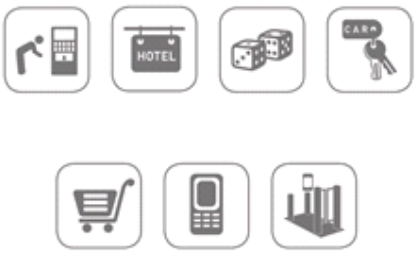
ULTRA COMPACT ID SCANNER

Size of your palm, but types ~150x faster
Forget manual typing and focus more on your customers

Imagine a solution that scans and reads IDs, including driver's licenses and passports within a blink of an eye. Suits perfectly to front-desk applicationslike hotel check-in, car rental, casinos, retail stores and visitor management systems. This is Combo Scan which can save up to 3-4 minutes per guestand reads accurately international IDs too.

Combo Scan is perfect for age verification, client registration and visitor management applications. It provides a secure and super-fast method of ID scanning and reading.

Utilize Combo Scan to provide a fully digitalized solution where scanned data remains secure and inaccessible. Operates from a single USB connection, thusit is highly portable.
Seamless integration into any IT environment is ensured by the provided SDK package.



Main benefits

- Accurate data entry within seconds, without typos
- Forget the headache when trying to read foreigner IDs
- Be compliant to privacy and security regulations
- Have more time to focus on your clients not on typing
- Looks great. Fits well to any front-office application.

Peripheral Dynamics Inc.

5150 Campus Drive • Plymouth Meeting, PA 19462-1123 • USA
Tel: 610-825-7090 • 1-800-523-0253 • Fax: 610-834-7708
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Combo Scan

Specifications

• MRZ OCR reading of ID-1/ID-2/ID-3 documents • 1D and 2D barcode reading • 500 PPI glare-free imaging • compact &USB-powered • various OCR engines available to read foreign characters • no moving parts, maintenance-free operation

Imaging

Active Scan Area	125 mm × 55 mm (4.92” × 2.17”)
Illumination Sources	LED visible white, IR (B900)
Image Resolution	500 PPI
Provided Images	Visible, IR, OVD image, glare-free image
Image Formats	BMP, JPG, JPG2000 and PNG
Image Color Depth	24 bits/pixels [RGB, 8 bits/pixels (IR image)]

Reading Capability

Automatic Document Detection (ADD)	YES
Reflection Removal (RR)	YES
Adaptive Light Control	YES
ICAO MRZ Reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1v2, Part 2, Part 3 and Part 3_{v2} for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ Reading	Available with VIZ OCR software for ID-1 size documents
Barcode Reading	1D: UPC-A, EAN8, EAN13, Code39, Code128 and ITF 2D: PDF 417, Data Matrix, QR Code, Aztec CodeFrom paper-based documents AAMVA compliant PDF417 and IATA BCBP
Contactless IC (RFID) option*	Reading and writing contactless ICs according to: ISO 14443 Type A & B, BSI TR-03105 All standardized rates up to 848 Kbps

Programming & Interfaces

Supported Operating Systems	Windows 7, 8, 8.1, 10 + Linux (ask for details)
Software Development Kit (SDK)	Complete SDK including DLLs and demo programs
Programming Languages	C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java
General Interfaces	ARH native and Twain, Acuant AssureID™
Advanced Document Authentication Module	Data consistency checks: MRZ, VIZ, RFID, barcodes etc., vs. IR B900 check
PC Connection	USB 2.0 high speed (USB 3.0 compatible)
Status indicators	Three programmable status LEDs (yellow, red, green)
Internal Memory	Storing factory calibration
Firmware Upgrade	Automatic, via USB

Mechanical & Other Data

Size (width × depth × height)	152 mm × 130 mm × 82 mm (5.98” × 5.12” × 3.23”)
Weight	0.6 kg (1.32 lbs.)
Operating Temperature	5 °C to 45 °C (45 °F to 113 °F)
Operating Humidity	0-95 % (non-condensing)
Power supply	From USB with no external power supply is required
L-frame for coverless design	Optionally available
Case	Sturdy ABS-PC plastic
Security	Kensington® security slot
Window glass	4 mm (0.16”) tempered glass
Compliances	FCC, CE, WEEE, RoHS
Maintenance	No moving parts, maintenance-free operation
Warranty	3-year warranty, upgradeable

Technical specifications are subject to change without prior notice. This document does not constitute an offer. * available in type ’R’ models

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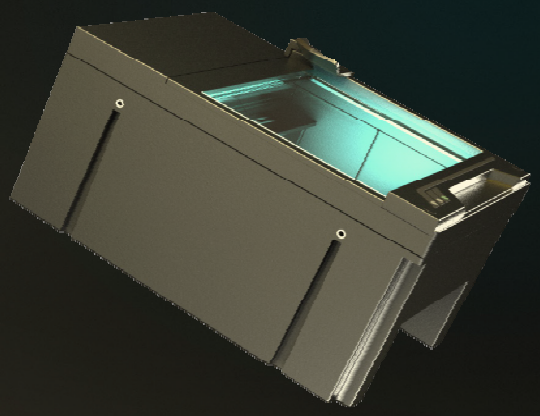
PASSPORT READERS & ID SCANNERS



COMBO SMART KIOSK

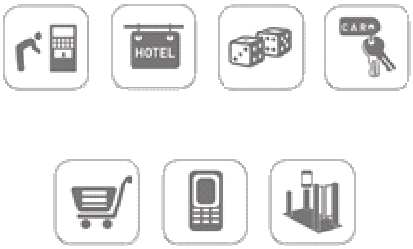
FULL-PAGE, OEM E-PASSPORT READER

Low profile and simple shape e-passport reader, ideal for integration

Automated Border Control (ABC) gates at airports, self-service kiosks at railways and cruise terminals, virtual teller machines need a reliable e-passport reader that can be seamlessly integrated both physically and into the workflow. In the core foundation, there must be a passport reader which lets people gain access to their route while protects borders efficiently.

Combo Smart Kiosk complies to all these requirements.
It is designed to image and inspect identity documents including electronic travel documents and 1D and 2D barcodes used by the airline industry on boarding passes and cell phones.

Integration is easy thanks to the low profile and simple shape design accompanied by mounting points. Users benefit from the intuitive design.The reader does not just capture the data but offers full spectrum authentication too. All of this happens in a blink of an eye – for managing
continuous and fast passenger flow even at the largest travel hubs worldwide.



Main benefits

- Profit from accurate data entry and verification
- OEM design for ABC gates and self-service kiosks
- Intuitive design helps infrequent passengers
- Automated passenger screening, 24/7 operation
- Reads & verifies every IDs including electronic travel documents

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Peripheral Dynamics Inc.

Specifications

Combo Smart

• true color, high-quality images • full-page scanning up to ID-3 size • wide range of models to match all business needs • single step reading of printed & RFID data • visible white, IR, UV illumination • OVD visualization & Reflection Removal

Imaging

Active scan area	129 x 89 mm
Illumination sources	LED: visible white, IR (B900), UVA
Provided images	Visible, IR, OVD image, glare-free image, UV image
Image formats	BMP, JPG, JPG2000, PNG
Image color depth	24 bits/pixels [RGB, 8 bits/pixels (IR image)]

Reading Capabilities

Automatic Document Detection (ADD)	YES
Reflection Removal (RR)	YES
Adaptive Light Control	YES
ICAO MRZ reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1v2, Part 2, Part 3 and Part 3v2 for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ reading	Available with ARH VIZ OCR software
Barcode reading	1D: UPC-A, EAN8, EAN13, Code39, Code128, ITF 2D: PDF 417, Data Matrix, QR Code, Aztec Code From paper-based documents and mobile devices AAMVA compliant PDF417 and IATA BCBP
RFID reading**	Reading and writing contactless ICs according to: ISO 14443 Type A & B, BSI TR-03105 All standardized rates up to 848 Kbps

Programming & Interfaces

Supported Operating Systems	Windows 7, 8, 8.1, 10 + Linux (ask for details)
Software Development Kit (SDK)	Complete SDK including DLLs and demo programs
Programming languages	C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java
General interfaces	AR native, Twain and Acuant AssureID
RFID functions (where applicable)**	ICAO Doc. 9303 LDS 1.7, ISO 18013 (Driver License) PKI 1.1, BAC, EAC, EAC2.0, PACE, PACE-CAM, AA, PA, TA, CA, BAP, EAP
Status indicators	Four programmable status LEDs (blue, green, yellow, red)
Advanced Document Authentication (included in standard SDK)	Data consistency checks: MRZ, RFID**R B900 and UV dull paper check*, Bearer's printed photo vs. RFID DG2**
Additional Authentication Options (available as optional SDK)	VIZ and non-ICAO document reading Automated verification based on document specific security features in visible white, IR and UVA*
PC connection	USB 2.0 high speed (USB 3.0 compatible)
Firmware upgrade	Automatic, via USB

Mechanical & Other Data

Size with passport fixer	150 mm × 195 mm × 117 mm (5.90" × 7.67" × 4.60")
Size without passport fixer	150 mm × 195 mm × 108 mm (5.90" × 7.67" × 4.25")
Weight	1.01 kg (2.15 lbs.)
Operating temperature	5 °C to 45 °C (45 °F to 113 °F)
Operating humidity	0-90 % (non-condensing)
Power supply (V DC)	12 V DC
Max. power consumption	0.8 A / 9.6 W
Case housing	Sturdy ABS-PC plastic
Window glass	5.5 mm (0.22") normal glass
Programmable status LEDs	3
Compliances	FCC, CE, WEEE, RoHS
Maintenance	No moving parts, maintenance-free operation
Warranty	3-year warranty, upgradeable
** available in type 'R' models	Technical specifications are subject to change without prior notice. This document does not constitute an offer.

NUVIA (New Model)

Lock In A More Secure Card Printing Solution

It Fits Your Space, Your Needs and Your Budget

Starting at $649 **5 Yr Warranty** **3 Yr Hot Swap**

You can simplify your card printing without giving up quality and security. The NUVIA direct-to-card printer produces vibrant color, edge to edge printing and security features to issue professional looking cards instantly.

Single Hopper Dual Hopper

FEATURES

Ideal For Access Control Cards, ID Badges, Bank Cards, Gift Cards, Loyalty Cards, Membership Cards

Locked Enclosures
Protect unauthorized access with multiple locks and Kensington lock slot.

Secure Encoding
Magnetic stripe (ISO and non-ISO), contact smart card encoding (EMV, ISO 7816), and contactless smart card encoding (ISO and Mifare).

Fast Print Speed
190 cards/hour (full-color, single-sided) or 19 secs. and up to 140 cards/hour (full-color, dual-sided) or 26 secs.

Compact
Lightweight design with a small footprint which allows you to operate the Nuvia card printer where you need it most.

User-Friendly
Simplicity is built into the design, operation and user interface.

Flexible Feeding Options
Innovative dual hopper lets you load up to 200 cards or 2 different types of cards to avoid reloading.

Mobile Access
Design and print right from your smartphone or tablet with the mobile app.

Ready To Run
Your Nuvia comes loaded with Card Designer™ software and printer driver already installed.

Common Verticals
Identification, Access, Retail, Hospitality, Control, Financial, Government, Services and Education.

Reliable
Nuvia offers unmatched protection, with a 5 year warranty on the printer and 3 years on the printhead.

Nuvia is a reliable and easy to use card printer that delivers a secure card printing solution. Contact PDI to purchase the Nuvia card printer now.

Peripheral Dynamics Inc.
SCANNING NEW HORIZONS IN DATA ENTRY

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NUVIA CARD PRINTER

N 10

Single-Sided
Manual Feeding

N 20 / N 30

Single-Sided
Manual Feeding
Card Stacker
Dual Sided (Optional)

Single Hopper

Dual Hopper (Optional)

PRINTER
Direct-to-Card Dye-Sublimation/ Resin Thermal Transfer
Single or Dual Sided Printing
Additional hopper for the 2nd type of card or to increase hopper card capacity
Edge-to-Edge printing
Full Color and Monochrome printing capability
300 dpi (11.8 dpm), 16.7 Million Colors
128 MB memory

OPTIONAL ENCODING
Magnetic Stripe Encoding
- ISO7811 (Track 1,2,3), Coercivity (HiCo & LoCo)
- JIS II *Non-ISO mag stripe encoding upon request
- Contact Smart Card Encoding
- ISO7816
- EMV Level 1 (PC/SC, serial)

Contactless Smart Card Encoding
- ISO14443A/B, ISO15693, Mifare

* Other types upon request

CERTIFICATION
FCC Class A
CE (EN 55022 Class A, EN 55024), CCC, KCC
Energy Star
RoHs

CARD
Card Type: PVC and Composite PVC Cards
Card Thickness: 15 mil ~ 40 mil card
Card Format: ISO CR80 – ISO 7810
(3.370 in. x 2.125 in.)

Capacity
- Input Hopper: 100 cards (30 mil)
- Up too 200 cards with dual hopper option
- Output hopper: 60 cards (30 mil)
- Manual single feed: 1 card input

* Input/Output hopper is not available for N10

INTERFACE
USB2.0 (High Speed)
Built in 10/100 Ethernet IP Port (optional)
WIFI (optional)

POWER
Input
AC 100V~240V, 50/60 HZ
Output
DC 24V, 2.5A

SECURITY
Kensington Physical Lock Slot
Hopper Lock (N20/N30)
Optional
Top Cover Lock
Ribbon Lock (optional)

PRINTER DIMENSIONS & WEIGHT
Dimensions
N10: 12.03 (L) x 7.24 (W) X 8.98 (H) in.
N20/N30: 14.40 (L) x 7.24 (W) x 8.98 (H) in.
Weight
N10 – 8.1 lbs
N20/N30 – 9.9 lbs

CONSUMABLE (Ribbon)
YMCKO: 200 prints/roll
YMCKO-K: 170 prints/roll
Half YMCKO: 400 prints/roll
KO: 500 prints/roll
Monochrome Ribbon: 1000 prints/roll
Automatic identification or ribbon type and set up
Monochrome Ribbon Type
(Blue, Red, Green, White, Metallic Gold, Metallic Silver)
* Strongly recommended for optimal printing quality, proper printer performance and longest lifespan of your print head

DRIVER & SOFTWARE
Operating System
Windows Vista, Windows 7, 8 & 10, Windows 2003/2008 Server
Software Package
Card Designer™ for Easy Printing
Font: True Type Fonts via Windows Drivers

PACKAGING CONTENT
Printer
Quick Start Manual
CD-ROM (Driver, Software & User Manual)
USB Printer Cable
Cleaning Roller and Card (CR-80)
Power Supply and Cord

PRINTING SPEED *Under specific conditions
Full-Color Printing
- Single Side: 180 ~ 200 cards / hour
- Dual Side: YMCKOK 140 / hour
- YMCKO 95 / hour
- Monochrome Printing
- 800 cards / hour

OPERATING ENVIRONMENT
Min/Max Operating Temperature: (5~40° C), (41~104° F)
Humidity: 20% to 65% non-condensing
Min/Max Storage Temperature: (10~60° C), (14~140° F)
Storage Humidity: 20% to 70% non-condensing

CLEANING KIT (Sold Separately)
Standard Kit
T-Card 2 pcs, CR-80 Cleaning Card 2 pcs, Alcohol Swab 3 pcs

Advanced Kit
T-Card 3 pcs, CR-80 Cleaning Card 5 pcs, Alcohol Swab 7 pcs, Thermal Cleaning Pen 1 pc

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DISPLAY
4-Line White LCD Indicates Status of Printer
LEDs Notifications of Empty/Low Level Ribbon, Empty Input Hopper, Error

WARRANTY
Printer 5 years
Printer Head 3 years
* Under Specific Conditions

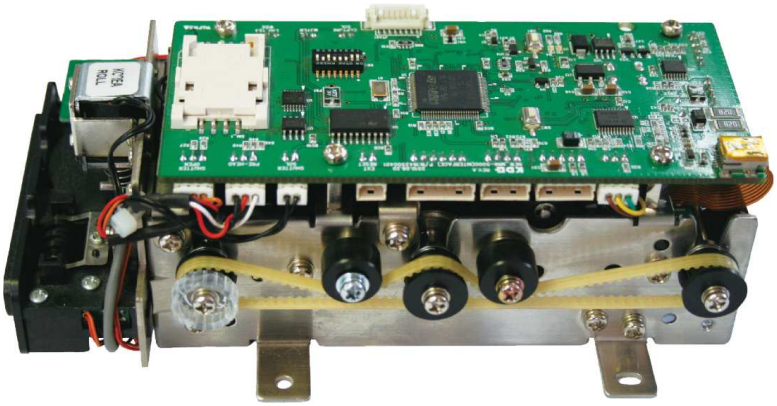
Motorized Reader
ESM-5000 Series

Overview:

A compact sized motorized insertion type card reader which provides high reliability and its mechanism which offers accurate and efficient card reading for kiosks, payment systems, parking systems, etc. Its robust design and superior components withstand the most severe operating conditions. Various options provide high flexibility for customers applications.

Features:

- ❖ Cycle Counting for Head, Solenoid, Flash Write
- ❖ Triple DES Encryption
- ❖ Mag Stripe Card Read
- ❖ IC Contact Card Read/Write
- ❖ T=0, T=1 Protocol (default)
  Customized Protocol available
- ❖ Easy to Upgrade Firmware
- ❖ Electric Shutter Available
- ❖ EMV Level 1 / PBOC



Applications:

- ▪ ATM / Cash Dispenser
- ▪ Vending Machine
- ▪ Kiosk (information & payment)
- ▪ POS System

Technical Specifications:

Card Standard	Magnetic – ISO-7810, 7811; IC – ISO/IEC-7816-3: 1997
Power	DC 24V ± 10%
Communication	TTL / RS-232C / USB
Life Time	Mag Head: Min. 500,000 cycles; IC Contacts: Min. 700,000 contacts
Feeding Speed	350 mm/sec. + 20%
Environment	Operation: 5 ~ 50°C / 20 ~ 90% RH; Storage: -20 ~ 70°C / 0 ~ 90% RH
Dimensions	90 x 66 x 163 mm

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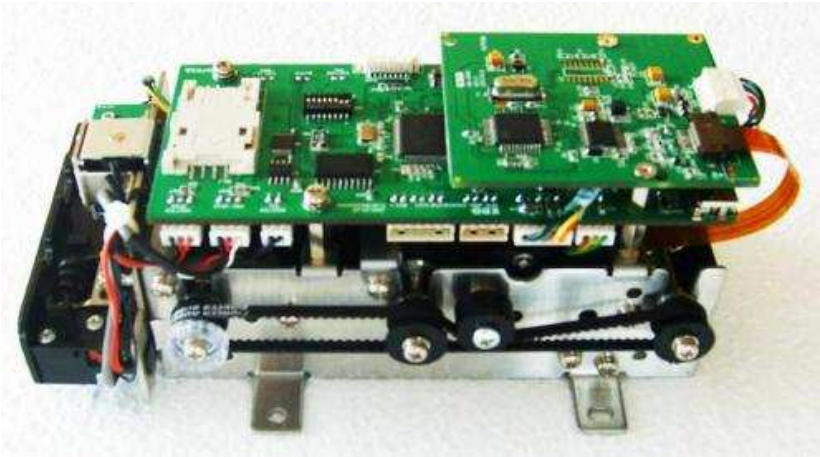
Motorized Card Encoder
ES1-5XXX Windows & Android Series

Overview:

ES1-5XXX series are compact sized motorized insertion type card readers providing high reliability in a space saving device. The mechanism offers accurate and efficient mag card reader and Contact IC Read/Write for hotel keycard issuing, kiosks, payment systems, parking systems, POS, etc.

Features:

- ❖ Magnetic Stripe Card Reader
- ❖ IC Contact Card Reader & Writer
- ❖ T=0, T=1 Protocol
- ❖ Electronic Shutter
- ❖ EMV Level 1 / PBOC
- ❖ RS-232C, USB Interface
- ❖ Triple DES Encryption
- ❖ Anti-Skimming
- ❖ Easy to Upgrade Firmware



❖ SDK for Windows & Linux/Android

Android Developer can expand the business field to the card reader/writer with ES1-5XXX card reader module which is equipped with Android assistance.

Technical Specifications:

	Specification	Remarks
Card Standard	ISO-7810 ISO / 1EC7816-3:1997	ISO-1, 2 & 3 tracks
Communication	RS-232 or USB	
Power	24VDC ± 10%	
Life-Time	Mag Head: 2,000,000 cycles IC Contact: 700,000 contacts	
Environment	Operating: -10°C ~ 70°C / 0 ~ 90% RH Storage: -20°C ~ 80°C / 0 ~ 90% RH	Non-Condensing
Dimensions	163 x 90 x 66 mm	

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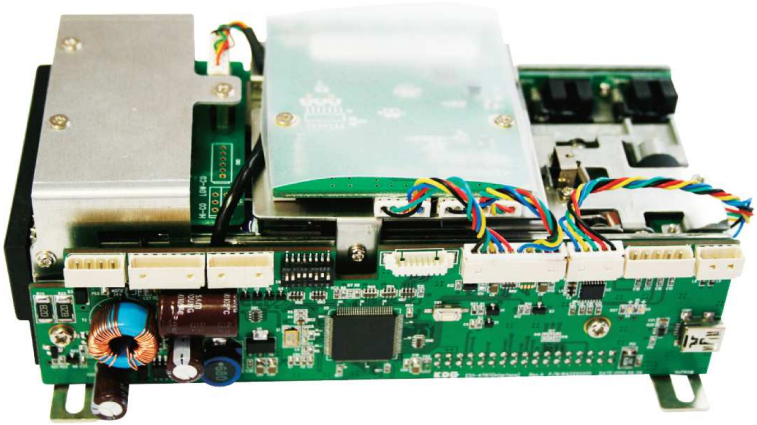
Motorized Reader/Writer
ESM-4000 Series

Overview:

A motorized insertion type of MS & IC card reader/writer module with RS-232C interface which encodes/decodes data on triple tracks of MS & IC card in accordance with ISO-7810, 7811/7816. This is a high reliable, durable device which offers accurate and efficient card encoding for customer business and industrial applications.

Features:

- ❖ Triple DES Encryption
- ❖ Mag Stripe Card Read/Write
- ❖ IC Contact Card Read/Write
- ❖ RF Card Read/Write (option)
- ❖ Write LoCo / HiCo
- ❖ T=0, T=1 Protocol (default)
  Customized Protocol available
- ❖Easy to Upgrade Firmware
- ❖ Electric or Mechanical Shutter Available
- ❖ EMV Level 1
- ❖ Slim Type



Applications:

- ▪ ATM / Cash Dispenser
- ▪ Kiosk (information & payment)
- ▪ Door Lock System
- ▪ Parking Lot System
- ▪ Vending Machine
- ▪ POS System
- ▪ Highway Tollgate System

Technical Specifications:

Card Standard	Magnetic – ISO-7810, 7811; IC – ISO/IEC-7816, SLE4418/28, SLE4442; RF – Mifare, ISO-14443 Type A,B
Power	DC 24V ± 10% (default) / DC 12V ± 10% (option)
Communication	TTL / RS-232C / USB
Life Time	Mag Head: Min. 2,000,000 cycles; IC Contacts: Min. 700,000 contacts
Feeding Speed	280 mm/sec. + 20%
Environment	Operation: 5 ~ 50°C / 20 ~ 90% RH; Storage: -20 ~ 70°C / 0 ~ 90% RH
Dimensions	99 x 59 x 192 mm

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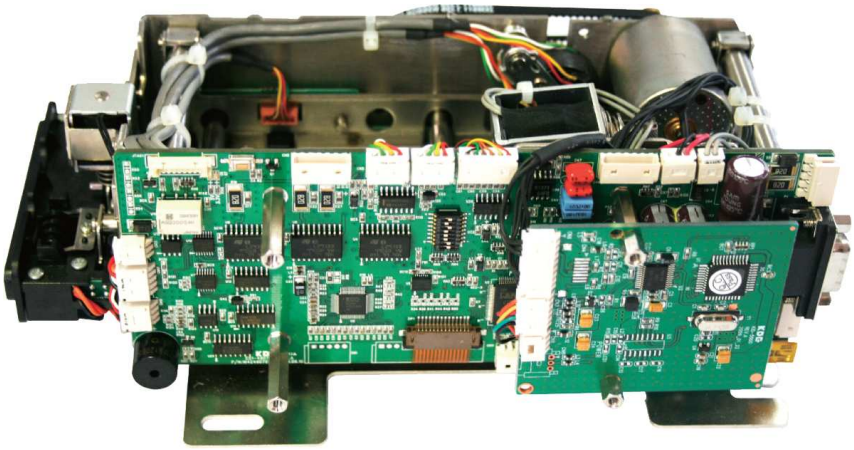
Motorized Reader/Writer
EDM - 4000 Series

Overview:

A motorized insertion type of MS & IC card reader/writer module with RS-232C interface which encodes/decodes data on triple tracks of MS & IC card in accordance with ISO-7810, 7811/7816. This is a high reliable, durable device which offers accurate and efficient card encoding for customer business and industrial applications.

Features:

- ❖ Triple DES Encryption
- ❖ Mag Stripe Card Read/Write
  IC Contact Card Read/Write
- ❖ Write LoCo / HiCo
- ❖ T=0, T=1 Protocol (default)
  Customized Protocol available
- ❖Easy to Upgrade Firmware
- ❖ 4 x SAM (option)
- ❖ Electric or Mechanical Shutter available



Applications:

- ▪ ATM / Cash Dispenser
- ▪ Kiosk (information & payment)
- ▪ Door Lock System
- ▪ Parking Lot System
- ▪ Vending Machine
- ▪ POS System
- ▪ Highway Tollgate System

Technical Specifications:

Card Standard	Magnetic – ISO-7810, 7811; IC – ISO/IEC-7816, SLE4418/28, SLE4442
Power	DC 24V ± 10% (default) / DC 12V ± 10% (option)
Communication	TTL / RS-232C / USB
Life Time	Mag Head: Min. 2,000,000 cycles; IC Contacts: Min. 700,000 contacts
Feeding Speed	300 mm/sec. + 10%
Environment	Operation: 5 ~ 50°C / 20 ~ 90% RH; Storage: -20 ~ 70°C / 0 ~ 90% RH
Dimensions	129 x 82 x 207 mm

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SCANNING NEW HORIZONS IN DATA ENTRY

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Motorized Reader/Writer Terminal
ESTF-4950

Features

Auto Sensing Lo - Hi Co Mag
Read / Write All 3 Tracks
Smart Card ISO-7811/ 7816/ 1443AB
EMV 4.0 Compliant
RFID ISO-1443AB, Mifare

Options

Triple DES Encryption
Raw or Custom Mag Data Format
LED or LCD Indicators
Custom Labeling

Read and Write to 3 Card Types Inside 1 Unit

Triple Track Mag Stripe
Contact Smart Card
RFID Card

3 Interfaces Standard

USB
RS-232
Ethernet

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Motorized Reader/Writer Terminal
ESTF-4950

Technical Specifications:

Item	Specification	Remarks
MS	ISO-7811 Read / Write All 3 Tracks Hi-Co/Lo-Co Capable – F2F Reading Method Dip Switch Selectable 4,000,000 Pass Head	ISO - 1, 2 & 3 Track Options: Raw or Custom Data Format
IC	ISO / IEC 7816, 7818 EMV – 4.0 Contact Landing Type	Choose your card and we will make it compatible
RFID	13.56 Mhz ISO 14443 Type A & B Mifare 1K – 4K Ultra Light Support	Choose your card and we will make it compatible
Card Feeding Speed	400mm / sec ± 10%	
Power	+ 24Vdc ± 10%, 2A + 5Vdc ± 10% Ripple: Less than 200m Vp-p (24 Vdc) Less than 100m Vp-p (5 Vdc)	
Dimensions	4.05” (W) x 9.64” (D) x 5.39” (H) 103 (W) x 245 (D) x 137 (H) mm	
Weight	4.5 lbs 2.03 kg	

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Motorized Reader/Writer
EST-4000 Series

Overview:

A motorized slim type MS & IC card reader/writer terminal with RS-232C & USB interface which encodes/decodes data on triple tracks of MS & IC card in accordance with ISO-7810, 7811/7816. It has a built-in power supply and LED's which indicates the status of its operation. This is a highly reliable and durable device.

Features:

- ❖ Cycle Counting for Head, Solenoid, Flash Write
- ❖ Triple DES Encryption
- ❖ Mag Stripe Card Read/Write
- ❖ IC Contact Card Read/Write
- ❖ Write LoCo / HiCo
- ❖ T=0, T=1 Protocol (default)
  Customized Protocol available
- ❖ Easy to Upgrade Firmware
- ❖ EMV Level 1

Applications:

- ▪ Door Lock System
- ▪ Parking Lot System
- ▪ Highway Tollgate System

Technical Specifications:

Card Standard	Magnetic – ISO-7810, 7811; IC – ISO/IEC-7816, SLE4418/28, SLE4442;
Power	AC 110 ~ 220V, 50 ~ 60hz
Communication	RS-232C / USB / LAN
Life Time	Mag Head: Min. 2,000,000 cycles; IC Contacts: Min. 700,000 contacts
Feeding Speed	280 mm/sec. + 20%
Environment	Operation: 5 ~ 50°C / 20 ~ 90% RH; Storage: -20 ~ 70°C / 0 ~ 90% RH
Dimensions	148 x 100 x 225 mm

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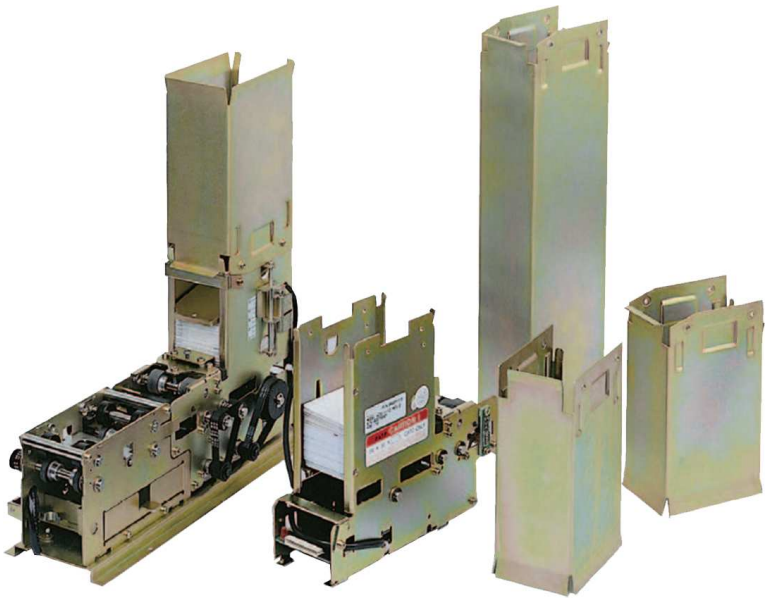
Card Issuing Module / Card Dispenser
KCD-1000

Overview:

A flexible card dispenser with many various options and is applicable to various systems such as kiosks. It can be combined with card reader/writers and has a rugged design intended for industrial applications with TTL and RS-232C interfaces.



Features:

- ❖ Designed Against Overlapped Cards Dispensing
- ❖ Card Low Detection Signal
- ❖ Card Empty Detection
- ❖ Extension Hopper: 300 & 500 pieces
- ❖ RF Module can be Equipped at Option
- ❖ TTL and RS-232C Interface
- ❖ Various Options are Available:
  (Error Card Capture, Remaining Card Indication, etc.)

Applications:

- Kiosk (information & payment)
- POS System
- Parking Lot System
- Highway Tollgate System

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Card Issuing Module / Card Dispenser
CIM-4000

Overview:

A motorized insertion type of magnetic stripe card reader / writer with RS-232C interface that can read/write data on three tracks of a magnetic stripe card in accordance with ISO-7810, 7811 and to read/write data on an IC card (T=0 / T=1 Protocol) in accordance with ISO-7816. The CIM-4000 is able to support binary code read/write.

Features:

- Designed Against Overlapped Cards Dispensing
- Card Low Detection Signal
- Card Empty Detection
- Extension Hopper: 300 & 500 pieces
- RF Module can be Equipped at Option
- TTL and RS-232C Interface
- Various Options are Available:
  (Error Card Capture, Remaining Card Indication, etc.)

Applications:

- Kiosk (information & payment)
- POS System
- Parking Lot System
- Highway Tollgate System

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Hybrid Reader
ED1 - 9800 Series

Overview:

A manual insertion type of MS & IC card reader that reads up to three tracks of MS data and reads/writes IC card. It can be easily programmed & configured to match application and communication requirements from customers. It combines MS & IC card reading capabilities into a compact solution and will be your ideal choice for demanding OEM applications.

Features:

- ❖ Triple DES Encryption
- ❖ Mag Stripe Card Read
- ❖ IC Contact Card Read/Write
- ❖ T=0, T=1 Protocol
- ❖ Easy to Upgrade Firmware
- ❖ USB Interface & USB Powered (5V)
- ❖ LED Indicators
- ❖ Solenoid Locking
- ❖ EMV Level 1

Applications:

- ▪ ATM / Cash Dispenser
- ▪ Vending Machine
- ▪ Kiosk (information & payment)
- ▪ POS System

Technical Specifications:

Card Standard	Magnetic - ISO-7810, 7811; IC - ISO-7816
Power	DC 5V ± 5%
Communication	TTL / RS-232C / USB
Life Time	Mag Head: Min. 500,000 cycles; IC Contacts: Min. 700,000 contacts
Environment	Operation: 5 ~ 50°C / 0 ~ 90% RH; Storage: -20 ~ 70°C / 0 ~ 90% RH
Dimensions	99 x 73 x 120 mm

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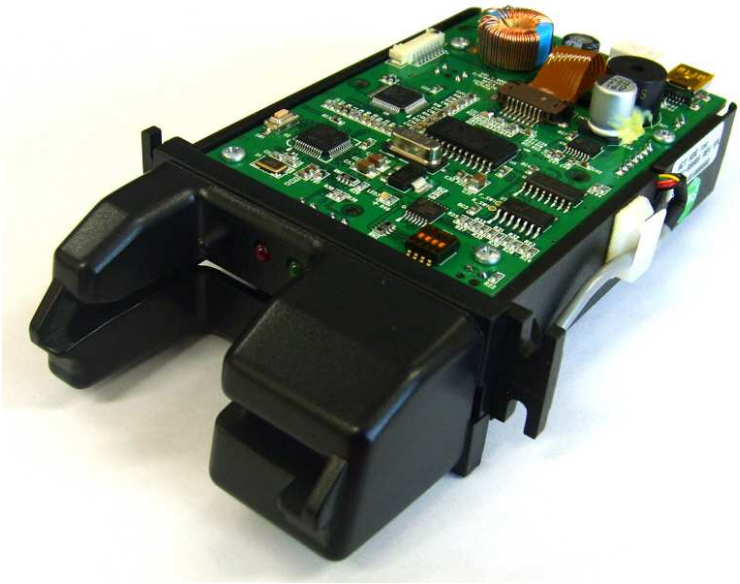
Manual Insert Mag, IC & RF Card Reader
ED1F-9880S

Overview:
ED1F-9880S is an all in one manual insertion type magnetic, IC & RFID card reader for POS terminal, access control, ATM, vending machines, Kiosks, etc. The various RFID card type support will be added continuously.

Features:
- Mag. stripe card reader
- IC card read/write
- T=0, T=1 protocol
- Mifare 1K, 4K, ISO 14443 A/B
- EMV level 1 compatible
- High reliability & durability
- USB & RS-232C interface
- LED indicators
- Solenoid lock
- Triple DES Encryption
- Easy to upgrade firmware



Specifications:

	Specification	Remark
Card Standard	ISO-7811, ISO-7816, ISO 14443 A/B	
Communication	RS-232C , USB	
Power	DC 5V ± 5%	
Life-time	Head: Min. 500,000 cycles IC Contact: Min. 700,000 contacts	
Environment	Operation: 0~50°C / 20~90%RH Storage: -20~70°C / 0~95%RH	No condensing
Dimensions	85 (W) x 41 (H) x 145 (D) (mm)	

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IC/Magnetic Card Reader/Writer
KDR/KDM - 9800 Series

Overview:

A manual insertion type of MS & IC card reader that reads up to three tracks of MS data and reads/writes IC card. It can be easily programmed & configured to match application and communication requirements from customers. It combines MS & IC card reading capabilities into a compact solution and will be your ideal choice for demanding OEM applications.

Features:

- ❖ Mag Stripe Card Read
- ❖ IC Contact Card Read/Write
- ❖ Easy to Upgrade Firmware
- ❖ USB Interface & USB Powered (5V)
- ❖ LED Indicators
- ❖ Solenoid Locking
- ❖ EMV 3.1.1

Applications:

- ▪ ATM / Cash Dispenser
- ▪ Vending Machine
- ▪ Kiosk (information & payment)
- ▪ POS System

Technical Specifications:

Card Standard	Magnetic - ISO-7816; IC - ISO-7811 (option)
Power	+ 5V DC ± 5%
Communication	TTL / RS-232C / USB
Life Time	Mag Head: Min. 500,000 cycles; IC Contacts: Min. 350,000 contacts
Environment	Operation: 0°C ~ 50°C / 20 ~ 90% RH; Storage: -20 ~ 70°C / 0 ~ 95% RH
Dimensions	92.0 (L) x 85 (W) x 32.5 (H) mm

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Hybrid Reader
ED1 - 9600 Series

Overview:

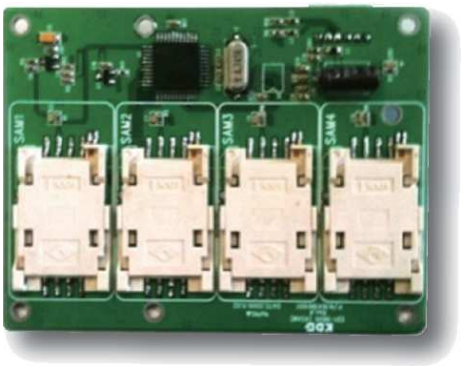
A hybrid insertion type card reader that decodes up to three tracks of magnetic data as well as reads/writes to smart cards. This industry standard footprint reader is used throughout the world in self-service, payphone and banking applications for more than a decade. This reader has the lower power consumption compared to the solenoid locking system and provides reliability and durability in any self-service application.

Features:

- ❖ Triple DES Encryption
- ❖ Mag Stripe Card Read
- ❖ IC Contact Card Read/Write
- ❖ T=0, T=1 Protocol
- ❖ Easy to Upgrade Firmware
- ❖ 1 x SAM / 4 x SAM module (option)
- ❖ LED Indicators
- ❖ Motor Locking
- ❖ EMV Level 1

Applications:

- ▪ ATM / Cash Dispenser
- ▪ Vending Machine
- ▪ Kiosk (information & payment)
- ▪ POS System



Technical Specifications:

Card Standard	Magnetic - ISO-7810, 7811; IC - ISO-7816
Power	DC 5V ± 5%
Communication	TTL / RS-232C / USB
Life Time	Mag Head: Min. 500,000 cycles; IC Contacts: Min. 700,000 contacts
Environment	Operation: 5 ~ 50°C / 0 ~ 90% RH; Storage: -20 ~ 70°C / 0 ~ 90% RH
Dimensions	99 x 73 x 120 mm

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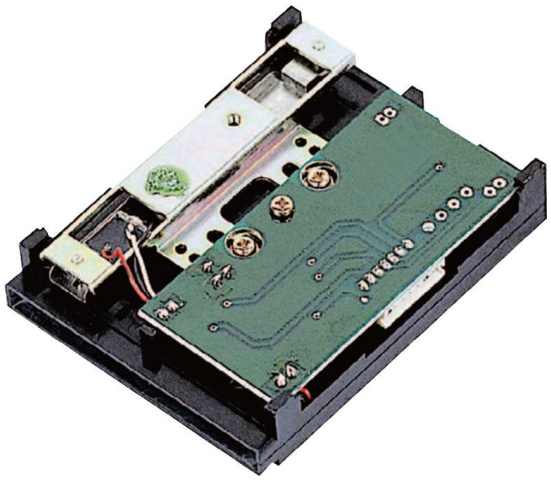
Manual Insertion Reader
KDR-3000 Series

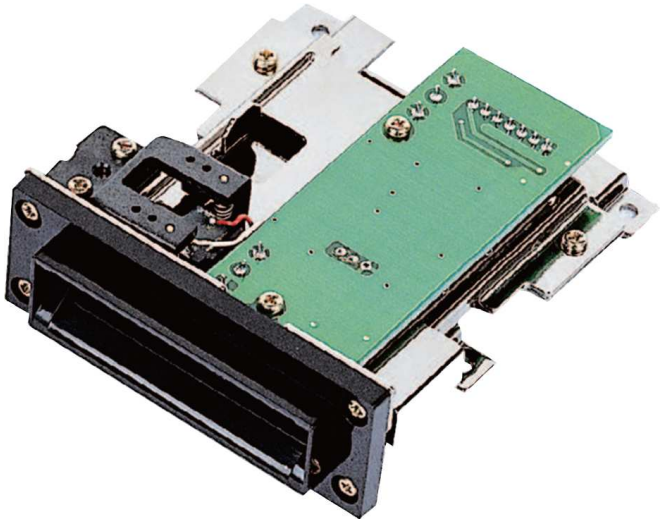
Overview:

Reads single or dual track magnetic stripe with ISO standards. This reader is especially useful in gaming applications and for a host of applications where space is limited. It functions reliably over a various range of operating speed and operation is extremely simple. The reader is intended to be mounted onto the front panel of the user's terminal or other equipment.



Features:

- ❖ Proven & Tested to Last a Minimum of 1,000,000
- ❖ ISO-1,2,3 Single or Dual Track Read
- ❖ Low Power Consumption: Max. 8mA
- ❖ TTL, RS-232C and USB Interface
- ❖ GDS Protocol is Available (KDU-3907 only)
- ❖ Card Present Switch
- ❖ Power Supply: DC 5V ± 5%



Applications:

- ▪ ATM
- ▪ Vending Machine
- ▪ Kiosk (information & payment)
- ▪ POS System

Model Name Configuration:

KD		-	3			
	R: TTL M: RS-232C U: USB			7: Metal Housing / Micro Switch 8: Plastic Housing / Micro Switch 9: Customized	1: ISO-1 track 2: ISO-2 track 3: ISO-3 track 5: ISO-1&2 track 6: ISO-2&3 track	0: Default

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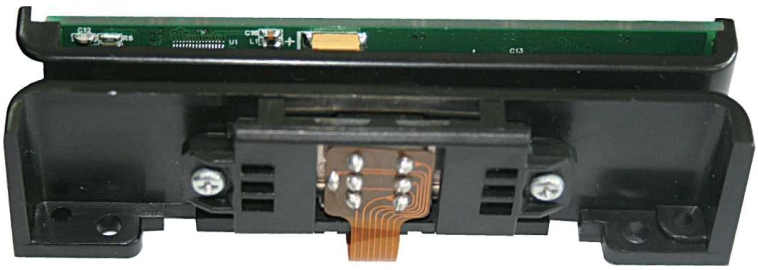
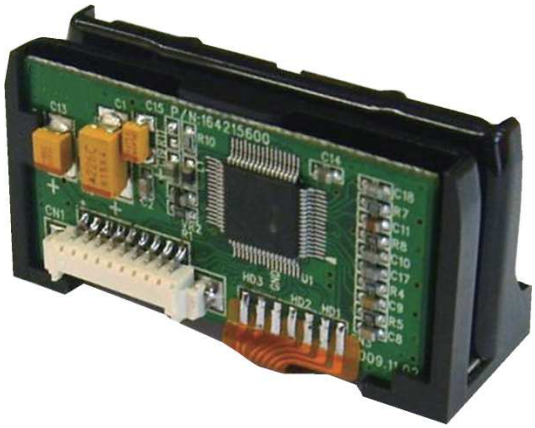
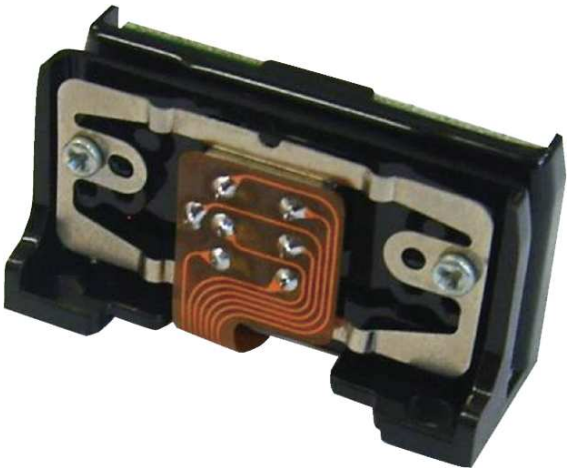
Manual Swipe Reader
KDR-1000 Series

Overview:

A Magnetic Stripe Reader for OEM applications. It reads up to three tracks of data with a single swipe in bi-direction. Its various sizes and mounting options make it a perfect fit for reading magnetic stripes in any OEM application. This reader is available in custom configurations including intelligent interfaces and custom cable/connector options.







Features:

- ❖ ISO-1,2,3 Full Track Read (Lo-Co/Hi-Co)
- ❖ Bi-directional Read Capability
- ❖ Various Sizes & Multiple Standard Footprints
- ❖ Special Custom Configurations are available
- ❖ Ivory Color is Available at Option
- ❖ Cover is Available at Option (KDR-1100 & 1300)
- ❖ RS-232C is Available at KDM-1480 only

Applications:

- ▪ ATM
- ▪ Vending Machine
- ▪ Kiosk (information & payment)
- ▪ POS System

Model Name Configuration:

KD		-	1			
	R: TTL M: RS-232C			1: 20.5 x 99.5 x 25 mm 3: 27 x 100 x 28.5 mm 4: 21 x 90 x 24 mm 5: 23 x 43.5 x 23 mm 8: 36 x 214 x 35 mm 9: Customized	1: ISO-1 track 2: ISO-2 track 3: ISO-3 track 5: ISO-1&2 track 6: ISO-2&3 track 8: ISO-1&2&3 track	0: No option 1: With cover 2: With GND Lug

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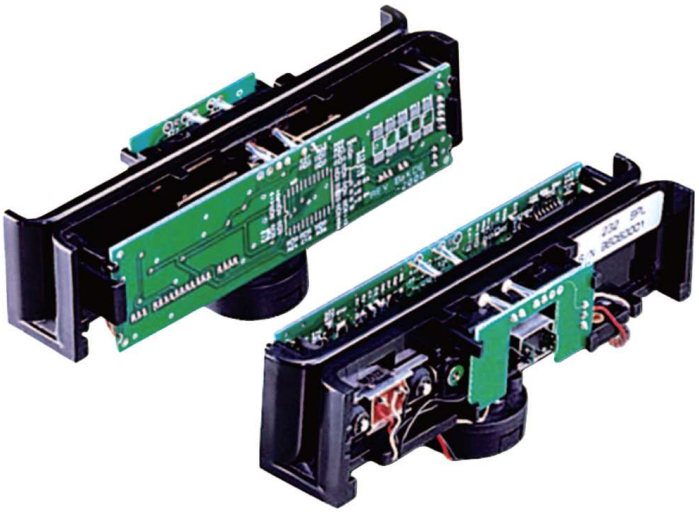
Manual Swipe Reader/Writer
KDR-2000

Overview:

A Magnetic Stripe Reader/Writer for OEM applications. It reads/writes on a single track in ISO standard recording densities of 210bpi (ISO 1 & 3 track) and 75bpi (2 track) and writes both Lo-Co and Hi-Co cards. This reader/writer provides stability, reliability and accuracy required for ISO standards in the card reading/writing process.



Features:

- ❖ ISO-1,2,3 Full Track Read-after-Write (Lo-Co/Hi-Co)
- ❖ JIS Standard is Applicable
- ❖ 3-Dimensional Head Mounting Design Achieves Optimal Adhesion with Minimal Wear
- ❖ Universal Head Mounting makes Switching between Tracks Quick and Easy
- ❖ Low Power Consumption Results in Optimum Circuit and System Designs
- ❖ Customized Mechanical Designs for Housing and Special Signal Interfaces are Available
- ❖ Industrial Long Lifetime Heads up to a Maximum 1Million Passes can be Provided at Option

Applications:

- ▪ ATM
- ▪ Vending Machine
- ▪ Kiosk (information & payment)
- ▪ POS System

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Manual Swipe Reader
KT-1000/2000/3000 Series

Overview:

KT-1000/2000/3000 & MKT-3000 is an intelligent, programmable magnetic stripe reader. It reads up to three tracks of information with a single swipe, has a buzzer and two-color LED indicator to signal a successful read. Data format and intelligent interface output can be programmed and configured to match application and communication requirements.

Features:

- ❖ Keyboard Wedge / RS232C / USB Interface
- ❖ ISO-1,2,3 Full Track Read (Lo-Co / Hi-Co)
- ❖12Mbps High Speed Communication
- ❖ No External Power Supply Needed
- ❖ Buzzer and Two-Color LED Indicator

Applications:

- ATM
- Vending Machine
- Kiosk (information & payment)
- POS System

Model Name Configuration:

	KT	-				
Blank: Standard Size M: Mini Size			1: Keyboard Wedge 2: RS232C 3: USB DU: Dual Head & Bi-Directional	2: Default 9: Customized	1: ISO-1 track 2: ISO-2 track 3: ISO-3 track 5: ISO-1&2 track 6: ISO-2&3 track 8: ISO-1&2&3 track	0: Din Type 1: Mini Din Type (Only for KT-1000) Series

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Manual Swipe Reader
KTDU-2200

Overview:

A Manual Swipe Type Magnetic Card Reader with USB Keyboard (USB-HID) interface and no need to install driver (PC auto detects this device). It can read up to 3 tracks of information bi-directionally and enhances the usability and adds flexibility.

Features:

- ❖ Reads ISO-1,2,3 Tracks, Bi-directionally
- ❖ USB HID Interface (no need to install driver)
- ❖ Dual Headed and Bi-directional Swipe Type
- ❖ USB Interface & USB Powered (5V)
- ❖ LED Indicator

Applications:

- ATM
- Vending Machine
- Kiosk (information & payment)
- POS System

Model Name Configuration:

	KT	-				
Blank: Standard Size M: Mini Size			1: Keyboard Wedge 2: RS232C 3: USB DU: Dual Head & Bi-Directional	2: Default 9: Customized	1: ISO-1 track 2: ISO-2 track 3: ISO-3 track 5: ISO-1&2 track 6: ISO-2&3 track 8: ISO-1&2&3 track	0: Din Type 1: Mini Din Type (Only for KT-1000) Series

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Manual Swipe Reader/Writer
ZT-2000

Overview:

ZT-2000 reads/writes data and then verifies the encoding on one of any of the 3 tracks. It reads/writes on Lo-Co cards. A customized software interface is applicable and it makes the read/write process quick, easy and verifiable. This reader/writer provides stability, reliability and accuracy required for ISO standards in the card read/write process and has a buzzer and five LED indicators to signal a successful read.

Features:

- ❖ ISO-1 or -2 or -3 Full Track Read-after-Write (Lo-Co)
- ❖ Buzzer and Five LED Indicators
- ❖ Die Cast Housing for Stability & Operating Life
- ❖ Writes any Track Combinations of 210 and/or 75 bpi Data Density
- ❖ Operating Life Exceeds 1,000,000 Card Swipes

Applications:

- ATM
- Vending Machine
- Kiosk (information & payment)
- POS System

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Desktop Combo Card Reader
SRT-1500 Series

Overview:

SRT-1500 series are desktop combo card readers which combine a contact and contactless card reader/writer device, and is designed to support a wide range of verification, secure access and authorization.

Features:

- ❖ ISO-7816, ISO-14443 A&B, Mifare
- ❖ 125KHz EM, TEMIC
- ❖ ISO-15693
- ❖ T=0, T=1 Compliance
- ❖ 3 LED Indicators
- ❖ USB, RS-232, Ethernet (option) I/F

Technical Specifications:

	Specification		Remarks
Voltage	5VDC +/- 5%	Consumption	60mA
Interface	USB, RS-232C Ethernet (Option)	Connector	8 pin (Smart card)
OS	Windows 2000, XP, 2003 server, etc.	Temperature	-10℃ ~ 70℃
Temperature	-10℃ ~ 70℃	Dimension	80 x 117 x 39 mm

Frequency	Modulation	Type	Interface	
1: 125KHz	A: ASK F: FSK P: PSK			
2: 13.56MHz		U: Serial No. M: Mifare A: Type-A B: Type-B I: ISO-15693	U: USB R: RS-232 E: Ethernet	ISO-7816 Contact default

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Head Assembly Module
KHT-1400

Overview:

Head Assembly type module that reads magnetically encoded data from magnetic stripes that conform to ISO standards. Head Assembly type module is composed of a magnetic head assembly and circuit board attached to the head.

Features:

- Card Standard: ISO-7810, 7811
- ISO-1,2,3 Full Track Read (LoCo / HiCo)
- F-PCB Mesh Type
- Universal Head Mounting Makes Switching Between Tracks Quick and Easy

Technical Specifications:

	Specification
Operating Voltage	3.3V DC +/- 5%
Ripple	Less then 50 mVp-p
Power Consumption	Less then 5.0 mA
Feeding Speed	15 ~ 95 cm/sec
Head Life Time	1,000,000 passes minimum
Operating Temperature	0°C ~ 50°C, 20 ~ 90% RH
Storage Temperature	-20°C ~ 70°C, less than 95% RH
Dimensions	38 (W) x 62.55 (D) x 9 (H) (mm)

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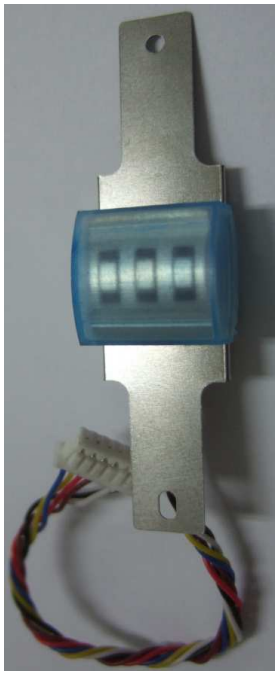
PCI Compliant Read Head
MMD-1900

Overview:

MMD1900 integrates the magnetic card reader function with data encryption. Upon reception of the magnetic head signals, the card data is recovered, encrypted, and transferred to the external device via universal asynchronous receiver and transmitter (UART) or serial peripheral interface (SPI). It supports up to 3 track card reading at the same time. Signal processing techniques are employed to recover F2F encoded data reliably from head signals with severe fluctuation of signal amplitude, widely varying bit interval, and jittery bit position. The recovered data is encrypted with the 128 bit AES. This head can be ordered in any of our insert or swipe readers.

Features:

- Full Three Tracks Support
- Signal Conditioning Adapted to Head Signal
- Flexible External Interface: UART or SPI
- ISO/IEC 7811 and Binary Data Format Support
- Encrypt all Track Data
- Power Down Mode for Low Power Consumption
- Wide Range of Card Swipe Speeds: from 5 to 150 cm/s
- Secure Data Transfer with 128 bit AES Encryption: CBC Mode
- **DUKPT key management** (Derived Unique Key Per Transaction)
- Digital Signal Processing for Superior Data Recovery Performance
- Development Kits Available



Technical Specifications:

Card Standard	ISO 7810/7811 and AAMVA
Card Speed	10 ~ 120 cm/sec (4-50 inch/sec)
Head Life Time	300,000 passes minimum
Operating Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +70°C
Power Input	3.0 – 3.6 VDC
Interface	SPI (Option: UART)
Message Format	ASCII

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PCI Compliant Read Head
MMD-1901/1902 – 90mm Track

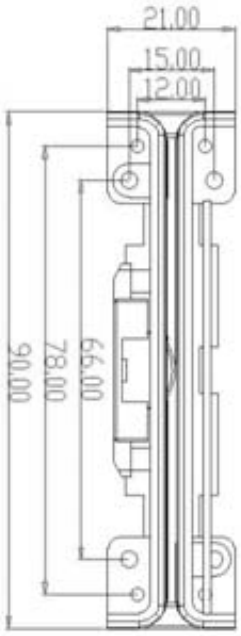
Overview:

MMD1901/1902 integrates the magnetic card reader function with data encryption. Upon reception of the magnetic head signals, the card data is recovered, encrypted, and transferred to the external device via universal asynchronous receiver and transmitter (UART) or serial peripheral interface (SPI). It supports up to 3 track card reading at the same time. Signal processing techniques are employed to recover F2F encoded data reliably from head signals with severe fluctuation of signal amplitude, widely varying bit interval, and jittery bit position. The recovered data is encrypted with the 128 bit AES.

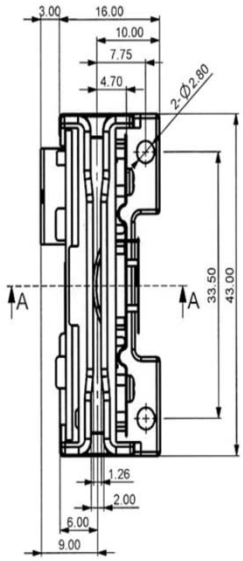
Features:

- Wide Range of Card Swipe Speeds: from 5 to 150 cm/s
- Signal Conditioning Adapted to Head Signal
- Flexible External Interface: UART or SPI
- ISO/IEC 7811 and Binary Data Format Support
- Encrypt all Track Data
- Power Down Mode for Low Power Consumption
- Full Three Tracks Support
- Secure Data Transfer with 128 bit AES Encryption: CBC Mode
- **DUKPT key management** (Derived Unique Key Per Transaction)
- Digital Signal Processing for Superior Data Recovery Performance
- Development Kits Available

MMD-1901



MMD-1902



Technical Specifications:

Card Standard	ISO 7810/7811 and AAMVA
Card Speed	10 ~ 120 cm/sec (4-50 inch/sec)
Head Life Time	300,000 passes minimum
Operating Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +70°C
Power Input	3.0 – 3.6 VDC
Interface	SPI (Option: UART)
Message Format	ASCII

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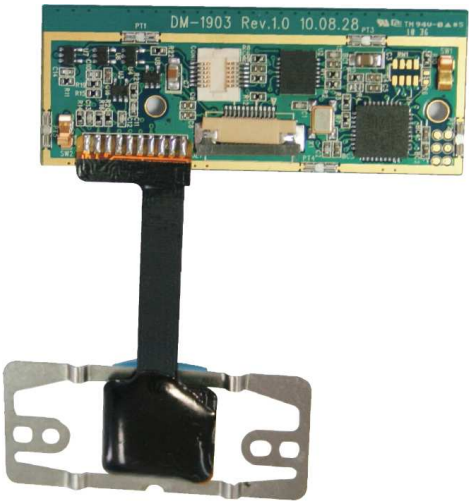
Head Assembly Module
KDM-1900

Overview:

KDM-1903 magnetic stripe card reader module reads up to three tracks (LoCo / HiCo) of information with a single swipe. Magnetic stripe data is output to UART TTL.



Features:

- Card Standard: ISO-7810, 7811
- ISO-1,2,3 Full Track Read (LoCo / HiCo)
- UART TTL Level Serial Interface
- Compliance with PCI
- PCB / F-PCB Mesh Type

Technical Specifications:

	Specifications	Remarks
Operating Voltage	3.3V DC +/- 5%	
Ripple	Less then 50 mVp-p	
Current	Less then 5.0 mA	
Feeding Speed	15 ~ 95 cm/sec	
Head Life Time	1,000,000 passes minimum	
Operating Temperature	0°C ~ +50°C, 20 ~ 90% RH	Non-Condensing
Storage Temperature	-20°C ~ 70°C, 10 ~ 90% RH	Non-Condensing
Dimensions	61 (H) x 49.3 (W) x 1.6 (D) (mm)	

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NFC Reader/Writer
SL-600

Overview:

NFC SL600 is a HID compliant mini NFC reader/writer. This RFID model supports MIFARETM Classic 1K, 4K, MIFARE Ultralight, MIFARE DESFire and NFC NFCIP-1 mode. The maximum working current is less than 60mA. It integrates all necessary components and antenna in the PCB.

Features:

- ❖ USB HID Protocol Interface
- ❖ NFC
- ❖ MIFARE
- ❖ ISO-14443, ISO18092 NFCIP-1
- ❖ RF-Tag
- ❖ Current less than 60Ma@3.3V
- ❖ Operating Distance up to 50mm depending on tag

Technical Specifications:

Tags Supported	Mifare 1k, 4k, Mifare Ultralight, Ultralight C and NTAG203
Tag Protocol	ISO14443, ISO18092 NFCIP-1 mode (text & url)
Temperature Range	Operating : -20°C ~ +55°C, Storage: -40°C ~ +75°C
Operating Frequency	13.56MHz RF
Supply Voltage	2.5 ~ 3.6 VDC Operating, I/O supports 5.0 VDC
Operating Distance	Up to 50mm, depending on tag
Size	110mm x 81mm x 26mm
Operating System	Windows 32bit/64bit and offering DLL for Windows 32bit/64bit

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NFC Reader/Writer Module
SL-060

Overview:

NFC Module SL060 is a mini NFC reader/writer. This RFID module supports MIFARETM Classic 1K, 4K, MIFARE Ultralight, MIFARE DESFire and NFC NFCIP-1 mode. The maximum working current is less than 50mA. It integrates all necessary components and antenna in the PCB.

Features:

- Built in antenna
- NFC
- MIFARE
- ISO-14443, ISO18092 NFCIP-1
- RF-Tag
- Current less than 50Ma@3.3V
- Operating Distance up to 50mm depending on tag

Technical Specifications:

Tags Supported	Mifare 1k, 4k, Mifare Ultralight, Ultralight C and NTAG203
Tag Protocol	ISO14443, ISO18092 NFCIP-1 mode (text & url)
Temperature Range	Operating Range: -25°C ~ +70°C, Storage Range: -40°C ~ +85°C
Operating Frequency	13.56MHz RF
Supply Voltage	2.5 ~ 3.6 VDC Operating, I/O supports 5.0 VDC
Operating Distance	Up to 50mm, depending on tag
Module Size	46mm x 46mm x 3mm
Interface	UART, baud rate 9,600 ~ 115,200 bps (Default: 9600bps)

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Proximity Card Reader
SRT-1200 Series

Overview:

SRT-1200 series are designed for PC log-on and user authenticate application proximity card reading. They are compatible with EM, TEMIC and other 125KHz proximity cards such as HID, INDALA, etc. providing ideal solutions for authentication such as PC log-on, e-banking and e-commerce.

Features:

- ❖ Various Modules
- ❖ Various Interfaces
- ❖ 2 LED's
- ❖ Including WDT (Auto Reset Circuit)
- ❖ Compact & User Friendly Design
- ❖ Low cost with Reliable Quality
- ❖ Possible Customization for OEM

Technical Specifications:

	Specification		Remarks
Voltage	5VDC +/- 5%	Consumption	Max. 100mA
Interface	RS-232C USB Ethernet		
R Distance	~50mm	Frequency	125KHz
Dimension	105 x 78 x 15 mm	Temperature	-10℃ ~ 70℃

Ordering Options:

Modulation (C)	Interface (D)
A : ASK F : FSK P : PSK	T : RS-232C U : USB E : Ethernet C : Customized

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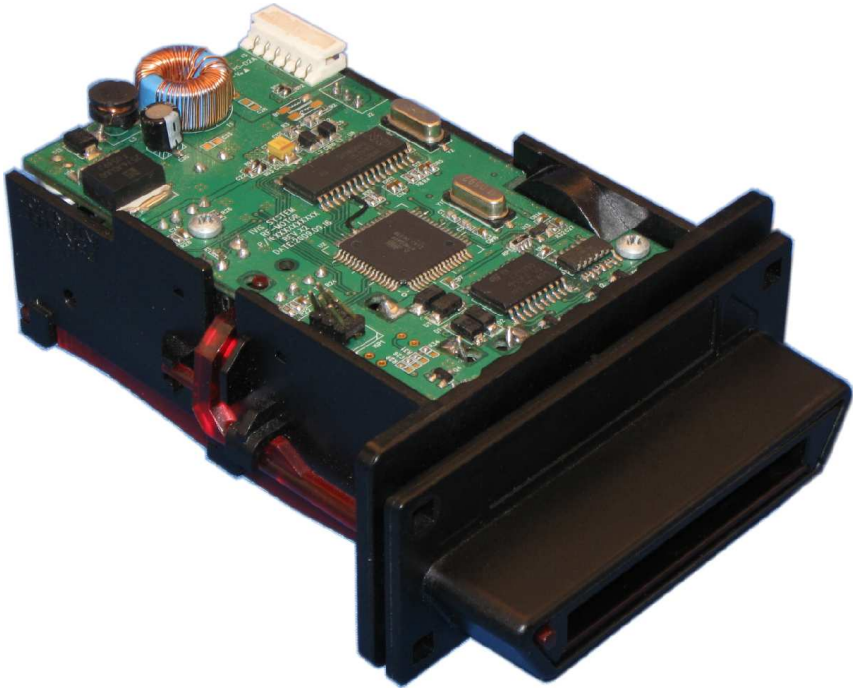
Motor Driven RF Card Reader
SRT- 4100

Overview:

The SRT-4100 is a compact-sized motorized RF card reader, and is an ideal device for dimly lit locations. The LED illuminates the card path making it easy to find even in low light applications, such as gaming terminals, vending machines, kiosks, service automation appliances, etc.



Features:

- RF Card Reader & Writer
- Motor Driven Mechanism
- LED Indicators
- EMV Compliant
- Easy Maintenance

Technical Specifications:

	Specification	Remarks
Card Standard	Mifare, ISO-14443 A & B	
Communication	RS-232C	
Power	24VDC	
Power Consumption	70mA	
Environment	Operating: -10°C ~ 70°C / 0 ~ 90% RH Storage: -20°C ~ 80°C / 0 ~ 90% RH	Non-Condensing
Dimensions	41 x 88 x 118 mm	

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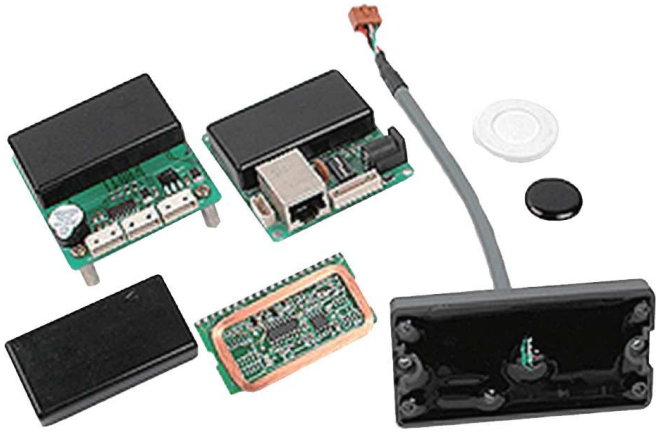
125KHz RFID OEM Module
SRT-125 Series

Overview:

SRT-125 series are compact sized manual proximity type radio frequency card reading/writing modules, which support EM, TEMIC, HID & INDALA cards based on 125KHz securing access.

Features:

- Support ASK/FSK/PSK
- Internal ANT
- Various Interface
- WDT included
- Compact & user friendly design
- Low cost with reliable quality
- Possible customization for OEM



Technical Specifications:

	Specification		Remarks
Voltage	5V +/- 5%	Consumption	300mA
Interface	RS-232C/422/485 ABA track 2 (CPD/RCP/RDD) Wiegand output TCP/IP stack	Modulation	ASK/FSK/PSK support
R Distance	~70mm	Frequency	125KHz
		Temperature	-10℃ ~ 70℃

Ordering Options:

Function (A)	Card Type (B)	Modulation (C)	Interface (D)	ANT (E)
R: Read W: R&W	E: EM T: TEMIC H: HID C: Customize	A: ASK F: FSK P: PSK	0: RS-232 1: TTL 2: Wiegand 3: ABA	0: Internal 1: External

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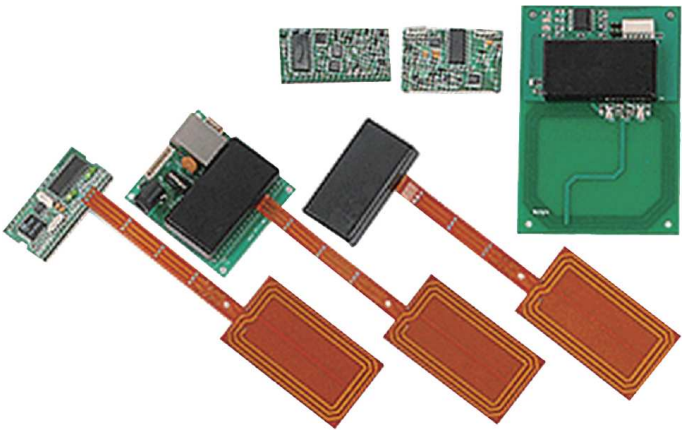
Proximity Card Reader
SRT-1356 Series

Overview:

SRT-1356 series are compact sized manual proximity card reading/writing modules which support Mifare, ISO-1443A, B & ISO-15693 cards under 13.56MHz secure transaction.

Features:

- Single Power Supply
- T = CL Protocol
- Including WDT
- Compact & User Friendly Design
- Low Cost with Reliable Quality
- Possible Customization for OEM
- Possible Anti-Collision



Technical Specifications:

	Specification		Remarks
Voltage	5VDC +/- 5%	Consumption	Max. 200mA
Interface	RS-232C Ethernet		
R Distance	~50mm	Frequency	13.56KHz
PICC	ISO 1443 A/B, ISO 15693, Mifare	Temperature	-10℃ ~ 70℃

Ordering Options:

PICC Type (A)	ANT' (B)
U: serial no. read M: Mifare R/W A: Type-A R/W B: Type-B R/W	P: PICO-TAG R/W S: SR-176 R/W L: Mifare Ultralight R/W	F: FPCB(RS-232, TTL) R: PCB (RS-232, TTL) T: PCB (RS-232) N: None (RS-232, TTL)

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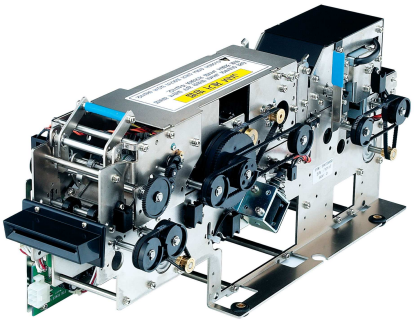
Ticket Issuing Printer
TP - 7000

Overview:

Ticket Printer for Railroad, Car Park, etc. with Thermal Printing on Fanfold Type Paper or PET Card.



Features:

- ❖ 300 dpi High Quality Printing
- ❖ High Speed Issue 1.5 sec./sheet (Max)
  (Encoding & Verifying & Printing)
- ❖ Adopted 2 Magnetic Heads for Fast Processing
- ❖ Single Feed & Dual Feed (Optional)
- ❖ Fanfold & Roll Type Paper
- ❖ Front Loading Single Manual Printing
- ❖ Rugged Mechanism for Various Applications
- ❖ Read, Return Function
- ❖ Picture, Image Printing
- ❖ Barcode Printing (3 of 9, 2 of 5, KAN13, etc.)

Technical Specifications:

Print Method	Direct Line Thermal
Print Speed	2 sec / sheet
Media	Auto, Manual Paper / Pet Card (85 mm x 54 mm)
Dot Pitch	300 dpi
TPH Life	100 km
Cutter Life Span	300,000 times (optionally 1,000,000 times)
Interface	RS-232C, USB 2.0
Counter Check	999,999 times, On-Line Connection Available
Power	AC 220V / 60 Hz
Operating Condition	5°C ~ 40°C
Dimensions	460 (H) x 195 (L) x 180 (W)

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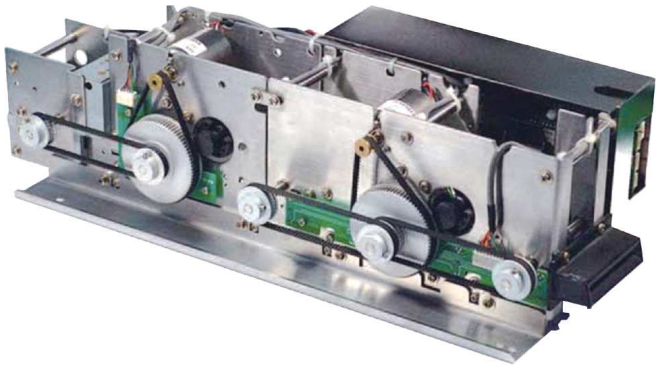
Ticket Issuing Printer
MTI – 1000/2000

Overview:

Ticket Printer for Car Parking, Tollgate, Access Control, Ticket Vending Machine, etc. with Thermal Printing on Continuous Paper or Card Stock.

Features:

- 300 dpi High Quality Printing
- High Speed Issue 2.5 sec./sheet (Encoding & Verifying & Printing)
- Automatic Ticket Feeding
- Various Options Available
- IC Card Read / Write
- Error Card Capture



Technical Specifications:

Print Method	Thermal
Print Speed	2.5 sec / sheet
Media	Auto, Manual Paper / Plastic Card (86.5 mm x 54 mm)
Dot Pitch	300 dpi
TPH Life	2,000,000 Cycle (1 Cycle = 2 Passes)
Life Span	2,000,000 Cycle (Issue)
Interface	RS-232C
Power	AC: 110/220V / 60 Hz
Operating Condition	5°C ~ 40°C
Dimensions	106 (H) x 396.3 (L) x 150 (W)

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