

creation
for **HUMAN**
creativity |

HANTLE

Aiming at Global Banking Automation Leader



HANTLE's WILL!

Every day, we see new technologies and how these innovative technologies bring better life to all the people. Hantle System Co., Ltd. has developed and introduced the most innovative products to the market as a leader in banking automation industry since its establishment in 1994 and its highly advanced technologies and quality have led to the customers being more competitive and convenient than any other else.

In a sense of the word, “**Creation for Human Creativity**” is the definitive word, which is describing and representing all about Hantle System Co., Ltd.

Our spirit of the technology development is based upon the ‘creative thinking’ of the staffs for better future society. Our spirit of the workmanship for manufacturing products is based upon the scientific intention to overcome various technical challenges. And, our spirit of the service for the customers is based upon the pride and confidence for the products and its qualities.

We believe that always these spirits shall be the biggest asset and motivated power of the company—growing and be the basis of developing next-generation technologies and services. We have such energetic plans and engineering staffs for the complete satisfaction to the customers.

And now, Hantle is aiming at Korea’s No.1 banking equipment manufacturer with excellent product quality in the market based upon accumulated technical experience and offering another advanced equipment portfolio with Image Processing Solution and Special Device Solution including High Speed Reader & Sorter, High Speed MICR Document Scanner and Check Processing Module, High Quality Print Module, Banknote Verifier etc.

Furthermore, Hantle is always ready to execute technical & commercial supports in hardware, software even firmware in compliance with international standards by providing customers with quality service needed.

We trust that our accumulated experience, well-skilled manpower, advanced technologies and reliable quality control are the most eminent and distinguished *forte*, which will satisfy the customers with our all efforts. Eventually your feedback and request will allow us to generate more creative output.

We, Hantle will not be satisfied until we move towards global market leader based on superior technology and a spirit of challenge by finding new field of industry.

Core Products based upon Processing Technology, Mechatronics and System Technology

3rd Business System Solution

CD, ATM
Multi-Purpose KIOSK
Information KIOSK
Self-Payment KIOSK

2nd Business Image Solution

High Speed Reader & Sorter
Ballot Reader & Sorter / Check Scanner
Advanced EDMS / Card Printer
RFID Reader & RFID Printer

1st Business Banking Equipment

MICR Reader
Receipt Printer
Cash Dispense Module
Check Accept Module

System Engineering

System Design
CD System
ATM System
KIOSK System

Automatic Recognition

MICR
OCR
ICR
MS(ISO, JIS) Recognition
Barcode Recognition
Image Processing

VISION

Mechatronics

Bill Control
Precision Mechanism Design
Printing Technology
Scanning Technology
Sensing Application

Controller Design

Micro Controller
S/W
F/W
H/W

KIOSK / ATM Solution

Intelligent KIOSK Series



Parts and Functions		Spec.	Remarks
Customer Access Part	Display	19" TFT LCD Color (Resolution : 1280 × 1024) Privacy film on LCD	
	Input Method	IR Touch Screen	Reinforced Glass
Card Part	Available Cards	ISO/ IEC 7810 ID-1, ISO/IEC 7811-1,2,6	
	Card Reader Type	Motor Driven Type	
	Interface	RS-232C or USB	
Receipt Printer Part	Receipt Printer	3" / over 1,600 transactions	
	Printing Type	Direct Thermal	Available on Ticket Printing
Installation	Size(mm)	550(W) × 671 (D) × 1,386(H)	
	Weight	Approx. 80 kg	
	Service direction	Front Service	
Etc	Voice	Yes	
	Ear Phone	Yes	Option
	Access Sensor	Yes	
	Open Sensor	Yes	Option

Flexible Multi-purpose ATM Solution



Parts and Functions		Spec.	Remarks
Customer Access Part	Display	15" TFT LCD Color	
	Input Method	IR Touch Screen, 16 Function Key T-DES encryption, living waterproof	Reinforced Glass
Card Part	Card Reader Type	Dip or Motor driven Type	
	IC	Yes	EMV2000
Receipt Printer Part	Paper / Capacity	3" / over 1,600 transactions	
	Printing Type	Direct Thermal	Available on Ticket Printing
	Journal	Electronic Journal(HDD)	
Dispenser	Cassette Capacity	Max. 2,000 notes	
	Cassette Extension	Yes (Max. 3 Cassette Available)	Max. 6,000 notes
	Dispensing Capacity / time	Max. 100 notes / 1 transaction	
	Dispensing Speed	Max. 5 notes / sec	
	Forgotten Note Retraction	Yes (DUMP)	
	Customer Access	Shutter Type	
Installation	Size(mm)	450(W) × 680(D) × 1,350(H)	
	Weight	Approx. 200 kg	
	Service Direction	Front Service (Front door open space : Min 2cm)	
Etc.	Voice	Yes (Korean, English, Chinese, Japanese)	
	Ear Phone	Yes	
	T-DES	Yes	
	Camera	2 Point (Face, Shutter Access)	
	Safe mirror	Yes (Wide Type)	
	Topper	Yes (LED, LCD Type)	Option
	UPS	Yes	

Ultra High Speed Scanner



Item	Descriptions	Image Spirit Series	Image Value 20 Series	
Scanning Speed	A4/200dpi/Color/Duplex	300dpm(max.)	600dpm(max.)/580dpm(normal)	
	A4/300dpi/Color/Duplex	200dpm(max.)	300dpm(max.)/270dpm(normal)	
Optical System	Resolution	100dpi/200dpi/300dpi	100dpi/200dpi/300dpi	
	Image Output	Color/Gray/B&W	Color/Gray/B&W	
	Image Depth	RGB 24bit/8bit/1bit	RGB 24bit/8bit/1bit	
	Image Compression	JPEG/TIFF	JPEG/TIFF	
	Image Multi-Output	JPEG/TIFF	JPEG/TIFF	
	Image Processing	Auto Brightness/Deskew/Rotation	Auto Brightness/Deskew/Rotation	
	Video Lens	High Speed Video Camera	High Speed Video Camera	
Mecha	Feed H/W	Feeding Type	Vacuum & Belt	Vacuum & Belt
		Hopper Capacity	Approx. 500 sheet(70g)	Approx. 1,500 sheet(70g)
		Stacker Capacity	Approx. 500 sheet(70g)	Approx. 1,000 sheet(70g)
		Double Feed Detection	Ultra Sonic Sensor	Ultra Sonic Sensor
		Hardware Deskew	Yes(Automatic Alignment)	Yes(Automatic Alignment)
	Feed S/W	Long Document Detection	Yes	Yes
		Short Document Detection	Yes	Yes
		Interval Detection	Yes	Yes
		Boarder Cropping	Yes	Yes
		Deskew(S/W)	Yes	Yes

Banking Automation



HCDM-1500 Cash Dispenser

- Single Body Cash Dispenser
- Direct Loading Type
- Front Service Type
- Note Stacking Free air
- Max. 1,000 notes Capacity
- Max. 100 notes Reject Capacity
- Above 2 notes/sec Dispensing Speed
- Korean Won, USA dollar, Canadian dollar and Others



HCDM-2200 Cash Dispenser

- Cassette Type
- Front Service Type
- Note Stacking Free air
- Max. 1,000 notes Capacity
- Max. 100 notes Reject Capacity
- Above 3 notes/sec Dispensing Speed
- Korean Won, USA dollar, Canadian dollar and Others



HCDM-2400 Cash Dispenser

- Cassette Type
- Direct Loading Type
- Front Service Type
- Note Stacking Free air
- Max. 1,000 notes Capacity
- Max. 100 notes Reject Capacity
- Above 3 notes/sec Dispensing Speed
- Korean Won, USA dollar, Canadian dollar and Others
- Cassette extension : Max. 4cassette



HCDM-4000 Cash Dispenser

- Cassette Type
- Front Service Type
- Note Stacking Presenter
- Max. 2,000 notes Capacity
- Max. 100 notes Reject Capacity
- Above 6 notes/sec Dispensing Speed
- Korean Won, USA dollar, Canadian dollar and Others
- Cassette extension : Max. 4cassette



HCM-5000 Check/Giro Depositer & Dispenser

- Multi Size document accept (Auto Alignment) Mechanism
- Optional scanning module (one side) with Max. 200dpi resolution in 256gray
- MICR font Recognition (E13B or CMC7)
- Escrowing accepted sheets up-to 10 sheets
- Dot impact printing for endorsement
- Ultrasonic double detection sensor



KBC-100 Bill Acceptor & Counterfeit Detector

- KBC-100 is based on development Korea Minting & Security Printing Corporation's "anti-forgery technology" and "bill recognition module technology"
- Counterfeit identification in 10, 50 thousand won bills and 4 kinds of checks
- Analysis algorithms of IR, UV, MG, MICR and the best in sensors
- 4 direction check
- Double detection, Anti-phishing, Prevent continuous commitment



HDS-2000CU Check Scanner

- 200dpi resolution in color scanning
- Ultrasonic double document detection
- USB 2.0 interface
- Reliable MICR reader (CMC7/E13B)
- Multi-Line endorsement (Up to 4 lines)
- Compact and slim design



HCDM-2700 Cash Dispenser

- Cassette Type
- Front Service Type
- Note Stacking Free air
- Max. 1,700 notes Capacity
- Max. 100 notes Reject Capacity
- Above 3 notes/sec Dispensing Speed
- Korean Won, USA dollar, Canadian dollar and Others
- Cassette extension : Max. 4cassette



HCDM-3000 Cash Dispenser

- Cassette Type
- Rear Service Type
- Note Stacking Shutter
- Max. 3,000 notes Capacity
- Max. 200 notes Reject Capacity
- Above 7 notes/sec Dispensing Speed
- Korean Won, USA dollar, Canadian dollar and Others
- Cassette extension : Max. 4cassette



HCDM-3200 Cash Dispenser

- Cassette Type
- Front Service Type
- Note Stacking Shutter
- Max. 2,000 notes Capacity
- Max. 100 notes Reject Capacity
- Above 5 notes/sec Dispensing Speed
- Korean Won, USA dollar, Canadian dollar and Others
- Cassette extension : Max. 4cassette



HCM-6000 Check Depositer & Dispenser

- Auto accept and dispense of check
- MICR font(E13B or CMC7) recognition
- Escrowing accepted check up-to 10 sheets
- Dot printing for check endorsement
- Optical double insert detection sensor
- Rotating inlet door
- Optical double insert/pick up detect sensor



HCRP-4000 Card Reader, Receipt & Journal Printer

- Thermal Printer for Receipt and Journal Printing
- Full Auto loading and auto receipt paper setting
- Semi auto loading journal paper
- Magnetic card reader and writer with ISO 1,2,3 track
- Optional IC card contact
- Emboss card image capture
- Receipt reject tray



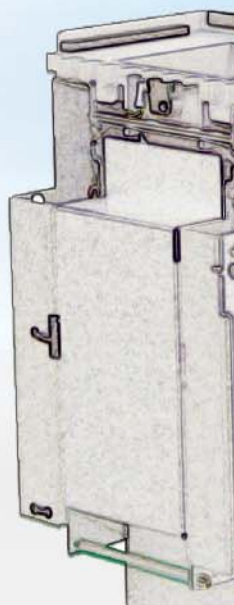
HRPM-1200/1300 Receipt Printer

- Thermal Printer for Receipt Printing
- Applied Standard Roll paper or Jumbo Roll paper up to max. 216mm
- One touch easy open mechanism of loading path
- Applied Presenter Outlet for unexpected troubles from outside
- Applied various fonts including ASCII, English, Korean, Japanese and images



HLP-R100 Lottery Ticket Printer

- Automatic Ticketing Module for Japan
- Thermal Printer for Receipt and Journal Printing
- Full Auto loading and auto receipt paper setting
- Semi auto loading journal paper
- QR code Encoding and Decoding



Special Device



KCD-100/200 Counterfeit Detector

- Based on development Korea Minting & Security Printing Corporation's "anti-forgery technology" and "bill recognition module technology"
- Counterfeit Identification Bills and Check (Korean)
- Inquire Accident Check through RS-232C Communication and MICR Reading(Via VAN)
- Analysis Algorithms of IR, UV, MG, MICR



HCR-2000U MICR Reader

- MICR Font (E13B or CMC7) Recognition
- Multiple Algorithms for Higher Read Rate
- Keyboard Wedge USB2.0 Interface
- Automatic Feeding System Up-to 50 Sheets
- Two LED Indicators (good / error)
- Inkjet Endorsement



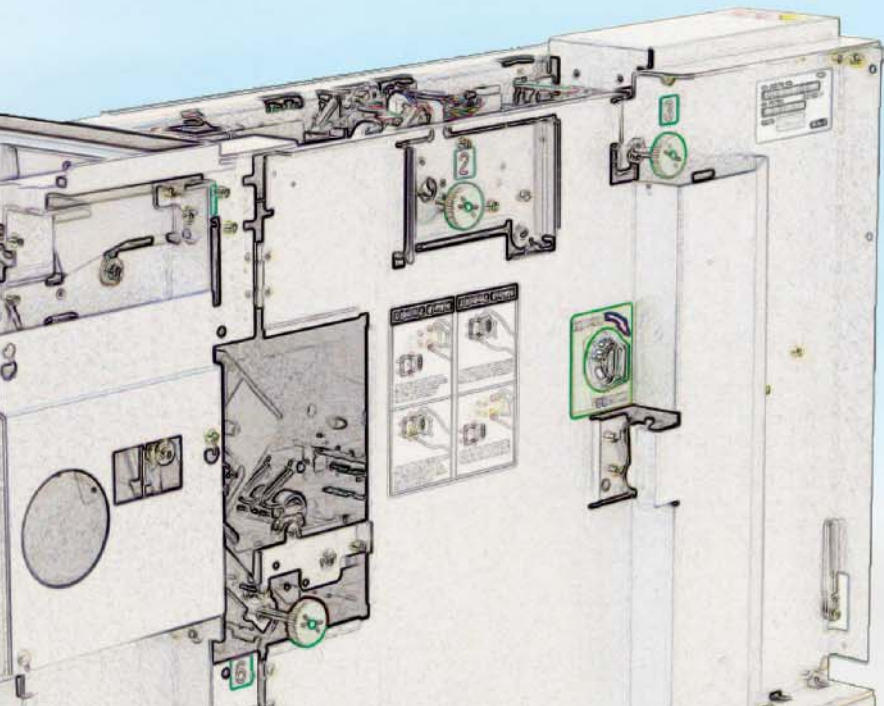
HDR-3500 Thermal Printer

- Label & Receipt Dual Printing
- Korean, English, Barcode Font
- 300dpi Print Resolution
- Max. 250mm/sec Printing Speed
- RS-232C/USB2.0 Interface
- Front 2 Lines LCD Display
- Full or Half Cutting Mechanism



HCR-1000 MICR Reader

- MICR (E13B / CMC7) Recognition
- Multiple Algorithms for Higher Read Rate
- RS-232C Interface
- Keyboard Wedge USB2.0 Interface (Option)
- One-by-one Single Feed
- Two LED Indicators (good / error)



Creation for Human Creat

Aiming at Global

Image Processing Scanner



HDP-2300CS/CU Reader & Sorter

- MICR (E13B/CMC7) Recognition
- 200/300/400dpi
- B/W, 16Gray, 256Gray, 24Bit Color
- Max. 200dpm
- USB2.0 Interface
- Inkjet Endorsement
- 3 Pocket Sorter
- Auto Stamp (HDP-2300CS)
- Printing Teller ID (HDP-2300CS)
- Ultra Sonic Double Detection Sensor



HDP-3000NU/CU Reader & Sorter

- MICR (E13B/CMC7) Recognition
- 200/300/400dpi
- B/W, 16Gray, 256Gray, 24Bit Color(HDP-3000CU)
- Max. 250dpm
- USB2.0 Interface
- Inkjet Endorsement
- 6/12~36 Pocket (12 by 12) Sorter
- Ultra Sonic Double Detection Sensor



HDP-4000NU/CU Reader & Sorter

- MICR (E13B/CMC7) Recognition
- 200/300/400dpi
- B/W, 16Gray, 256Gray, 24Bit Color(HDP-4000CU)
- Max. 400dpm
- USB2.0 Interface
- Inkjet Endorsement
- 6/12~36 Pocket (12 by 12) Sorter
- Ultra Sonic Double Detection Sensor



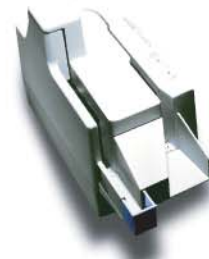
HGS-500/600CU High Speed MICR Scanner

- MICR (E13B/CMC7) Recognition
- 200/300/400/600dpi
- B/W, 16Gray, 256Gray, 24Bit Color
- Max. 100dpm
- USB2.0 Interface
- Multi-size Feeding Mechanism
- Inkjet Endorsement
- Straight Path for Thick Paper
- Plastic Card(ex: ID card)
- Ultra Sonic Double Detection Sensor



HGS-2000/3000CU High Speed MICR Scanner

- MICR (E13B/CMC7) Recognition
- 200/300/400/600dpi
- B/W, 16Gray, 256Gray, 24Bit Color
- Max. 120dpm
- USB2.0 Interface
- Multi-size Feeding Mechanism
- Inkjet Endorsement
- Ultra Sonic Double Detection Sensor



HCS-3000CU Check Scanner

- MICR (E13B/CMC7) Recognition
- 200/300/400dpi
- B/W, 16Gray, 256Gray, 24Bit Color
- Motor Driven Automatic Feeding System Up-to 50 Sheets
- Max. 70dpm
- Unique Reverse Feeding Mechanism
- Inkjet Endorsement
- Plastic Card(ex: ID card)



HCS-1500CU Check Scanner

- MICR (E13B / CMC7) Recognition
- 100/200dpi
- B/W, 16Gray, 256Gray, 24Bit Color
- One-by-one Single Feed
- Good/Error, Power LED

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Banking Automation Leader

Technology

MICR
OCR
ICR
MS(ISO, JIS) Recognition
Barcode Recognition
Image Processing

E13B & CMC7 Recognition
Magnetic Card
IC Card
RF Card
EAN13/I2of5/Code128
Scanning/Processing/Data Transmit
RS-232C/RS-422
USB Interface
SCSI Interface
Ultra Wide SCSI Interface

Micro Controller
S/W
F/W
H/W

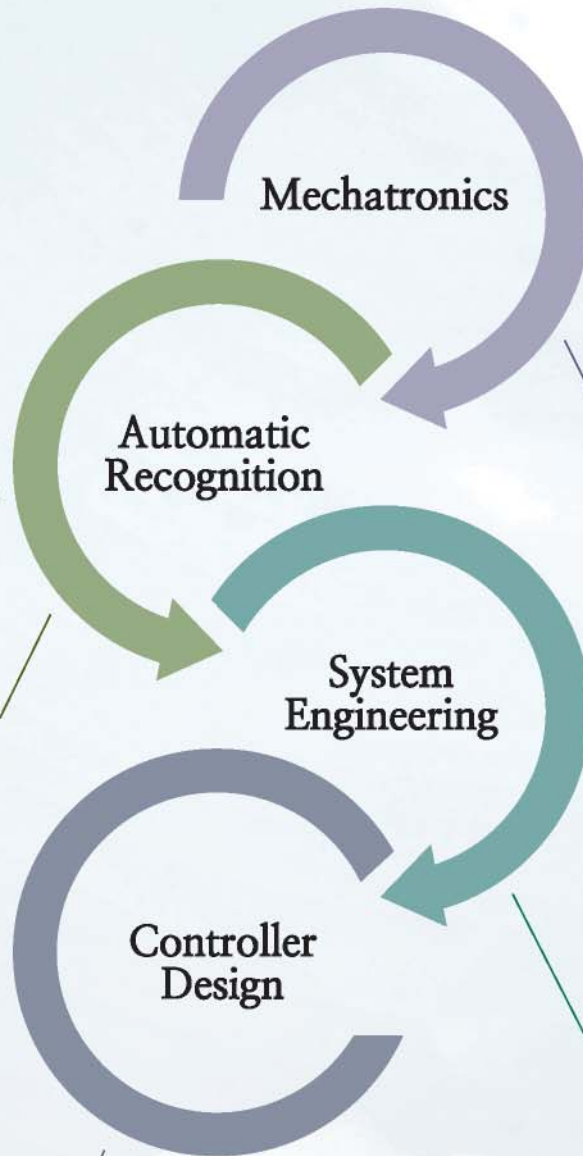
80188, 8032, Embedded 32bit
PX255 Xscale (Win CE)
ASM, C, BASIC
VHDL
Motor/Sensor/Printer Driver

Bill Control
Precision Mechanism Design
Printing Technology
Scanning Technology
Sensing Application

Mechanism Analysis
Paper Pick-up
Paper Feeding
Paper Stacking
Actuator Driver
Color Printer
Dot Printer
Inkjet Printer
Optical Sensor
Magnetic Sensor
High Speed Image Scan

System Design
CD
ATM
KIOSK

System Integration
System Quality Control
System Quality Assurance
System Analysis



Creation for Human Creativity

- 2013. 03 Released Flexible Multi-Purpose ATM
- 2013. 01 Released High Speed Reader & Sorter HDP-4000
- 2012. 10 Released Japan Independent Journal Printer Module HJP-T100
- 2012. 08 Released Japan Automatic Ticketing Printer Module HLP-R100
- 2012. 04 Released Multi-Purpose KIOSK PA-500 for Japanese Market
- 2011. 05 Released High Speed Auto Stamp Reader & Sorter HDP-2300CS
- 2011. 03 Released Bill Accept Module KBC-100, Co-Development with KOMSCO
- 2010. 05 Released Receipt Printer Module HCRP-5000
- 2010. 03 Released Multi Cassette Cash Dispense Module HCDM-3200 for VAN CD
- 2010. 03 Released VAN CD System in Domestic Market
- 2009. 10 Released High Speed Multi-Cassette Cash Dispense Module HCDM-4000
- 2009. 08 Released Journal Printer Module HJPR-1000
- 2009. 06 Released Bill Verifier KCD-100, Co-Development with KOMSCO
- 2009. 04 Released Receipt Printer Module HCRP-4000
- 2009. 01 Released 4000 Series ATM for American Market
- 2008. 06 Released All-in-One Check Cashing Station for American Market
- 2008. 04 Released Mini Check Scanner HCS-1500CU
- 2008. 04 Released Mini Cash Dispense Module HCDM-2200
- 2008. 02 Released High Speed Color MICR Document Scanner HGS-500CU
- 2007. 12 Released High Speed Color MICR Document Scanner HGS-2000CU
- 2007. 12 Released Check & Giro Accept and Dispense Module HCM-5000
- 2007. 10 Released 1700 Series ATM for American Market
- 2006. 08 Released Medium Size Cash Dispenser HCDM-2500
- 2006. 04 Released Mini Color Check Scanner HCS-3000C
- 2006. 03 Released Receipt and Label Printer HDR-3000
- 2005. 09 Released 32bit Controller HACU-1000
- 2005. 05 Released High Speed Color Reader & Sorter HDP-3000C
- 2005. 04 Released Compact Cash Dispenser Module HCDM-1500
- 2005. 03 Released High Speed Color MICR Document Scanner HGS-1500C
- 2004. 11 Released Mini Check Scanner HCS-2000
- 2004. 10 Released High Speed Color Reader & Sorter HDP-1500C
- 2003. 12 Released MICR Document Scanner HGS-1000
- 2002. 03 Released Auto Ballot Counting Machine(ACM in Korea) HDP-2000V
- 2001. 03 Released Cash Dispensing Module HCDM-2000
- 2000. 09 Released Document Processor HDP-1000
- 2000. 07 Released Automatic Check Reader HCR-2000
- 1996. 04 Released Check Accept & Dispense Machine HCM-2000
- 1994. 12 Released Check Accept Machine HCM-1000
- 1994. 04 Released MICR Reader HCR-1000



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