# **ID Card Printing Solution**







manufactured by IDP Corporation, is a highly engineered dye-sublimation ID Card printer which provides you with maximum efficiency for production of plastic cards in commercial and government applications.

SMART series is designed to support a flexible user environment, which makes it easy to choose the correct printer and save money. You can easily add a flipper or laminator, for dual sided printing or laminating, and various encoders such as magnetic stripe, contact and contactless. The enhanced FINE™ Imaging Technology of the SMART series enables you to print high quality images. The SMART Series will be a perfect choice for ID, Membership, Access control,

IDP Corporation has begun a new era in ID Card printers.

Government ID, Healthcare and Banking cards.

Please come and experience the flexibility and quality of the SMART series.

# **TECHNOLOGY**

- Clear printing by FINE™ Imaging Technology
- Instant direct heating mechanism for lamination \*Patent
- Field upgradable options for dual sided printing and laminating
- · Field upgradable encoders for magnetic stripe, contact and contactless smart card
- · Automatic ribbon recognition and no need for sensors & motors calibration
- Eco friendly rewritable printing (SMART-30R)
- 500 cards & scratch free (SMART-70) \*Patent
- High-durability: Metal frame & shaft, all bearing (SMART-50 & 70)

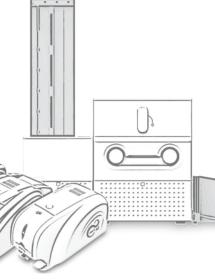
# **CONVENIENCE**

- · User friendly design for desktop environment
- · LCD & LED for status display of printer
- · Easy Thermal Print Head (TPH) replacement
- Front input and output hoppers (SMART-30 & 50)
- Drop-in ribbon cartridge (SMART-30 & 50)
- Full modular design (SMART-70)
- Drawer type ribbon cartridge (SMART-70)

# SOFTWARE

- · SMART SDK, to develop customized applications
- · SMART Utilites, to check working states and adjust configurations
- Smart ID for designing and issuing cards
- · On-Line technical support





0

# **ISSUANCE**

**Smart ID** ensures appropriate card issuance and data management with SMART series printers at no extra cost. This application allows you to design and issue a desired card conveniently. It can be easily used with simple essential functions. Also, it is designed for advanced user to use a variety of detailed functions.

- Design and print (Image, Photo and Text)
- 1D & 2D Barcode printing
- Auto portrait (Auto face detection, adjustment of size & position)
- Printing of sequential numbers
- Card design templates
- Plug-in for supporting external devices (Sign pad, Camera, Scanner)
- Convenient card issuance and data management
- Magnetic stripe (MS), contact & contactless smart card encoding by using plug-in program

Smart ID is a software which is provided with Smart ID Card Printer.



**SMART series** provides effective security features for access control and data encryption.

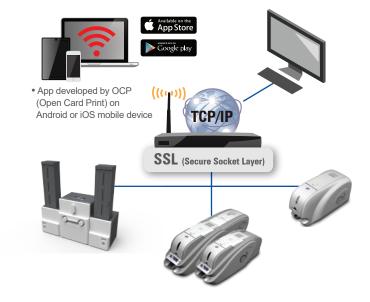
- SMART series has a password verification function to provide administrator and user authentications.
- SMART series can set a specific authorized PC for encoding and printing cards.
- SMART series can encrypt data transmitted on USB and can support SSL (Secure Socket Layer) protocol on ethernet communications.
- SMART-70 series is equipped with physical lock and Kensington lock system on each station to increase security.



# NETWORKING

**SMART series** can utilize the network printer server for encoding and printing cards.

- SMART Ethernet module can not only print cards but also encode MS, contact and contactless smart card through the network.
- SMART Ethernet module has OCP (Open Card Print) protocol which can encode and print cards by using commands on multiple platforms without installing the printer driver.



Beyond Expandability,

# **Ultimate ID Card Printer Solution**

is a high-performance large capacity ID card printer designed by the unique modular concept that can support various printer configurations to meet different user requirements.

500 cards can be continuously printed, laminated and encoded on various cards.

SMART-70 consists of 5 different modules (Input Hopper, Printer, Hybrid Flipper, Laminator, Output Hopper) that can be configured in various combinations according to different customer requirements. Required modules can be easily added to extend functions depending on your needs.

### **I** FLEXIBILITY

Single sided Printing



. Dual sided Printing, Encoding & Laminating





. Single sided Printing & Laminating



- 00000
- Single sided Multi-Printing /
- . Dual sided Multi-Printing, Laminating & Encoding





. Dual sided Printing, Encoding





· Stand-alone Laminating





# Multi - Printer Combination





### **Extremely High Speed Printing**

Input Hopper +
PRINTER (YMC) + PRINTER (KO)



# **Versatile** Hopper

- High Volume In/Output Hopper (Max. 500)
- Multi- Hopper
- · Residual Q'ty Sensor
- Physical Lock & Kensigton Lock
- Scratch Free



To disperse the weight of the stacked cards, the card mallet pushes cards to the weight dispersion point and the lowest card is drawn out by hook. This process prevents the stacked cards from making scratches on the lower cards' surface.



Weight dispersion point



### - Output Hopper

When a card is put in the output hopper, to protect the card's surface, the loaded cards are raised by the support beam which is operated by the internal CAM.





### **| FEATURES**

### Hybrid Flipper

Installable Encoding modules Contact & Contactless Smartcard Encoder

Image Scanning & Barcode Recognition Dual Sided Image Scanning (600 / 300 dpi), 1D & 2D Barcode Recognition (Front / Back)

Card Flipper

High Durability, Indicator LED

Error Card Bin\* (Max. 30 cards)

Physical Lock & Kensington Lock



### Output Hopper

Large Capacity Max. 500 cards

Scratch Free

Residual Q'ty Sensor

Full Space alert notifications

High Durability

Indicator LED

Physical Lock & Kensington Lock













Stacker Max. 100 cards

### • Input Hopper

Large Capacity Max. 500 cards

Scratch Free

Hook for Card-In

Residual Q'ty Sensor

Near empty & empty alert notifications

High Durability / Indicator LED

Physical Lock & Kensington Lock

Printer

High Speed Printing Max. 1,000 cards/h (Mono), Max. 225 cards/h (YMCKO)

Enhanced FINE™ Imaging Technology

Drawer type ribbon cartridge

Installable MS & Contactless Encoder

LCD & Button / Indicator LED

High Durability

Physical Lock & Kensington Lock



No warming-up time Instant direct heating mechanism

Scratch Free

Drawer type film cartridge

LCD & Button / Indicator LED

High Durability

Physical Lock & Kensington Lock















Easily Upgradable, No need for Tools or IT technician Just connect each station and synchronize

\* If encoder or scanner options are not selected, Error card bin will be provided.

High Durability







Single sided ID CARD PRINTER

# SMERTE-50S



- Color & Mono Single Sided Printing
- Print Speed: Max. 18 sec./card (YMCKO)
- 300dpi with Edge-to-Edge Printing
- 2 Lines LCD with 2 LED Buttons for Front Operation
- · Advanced Cleaning Roller
- · Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless, SIM
- · Upgradable Modules: Flipper, Laminator & Ethernet

**Dual sided ID CARD PRINTER** 

# smart-50D









- · Single or Dual Sided Printing
- Print Speed: Max. 24 sec./card (YMCKOK)
- 300dpi with Edge-to-Edge Printing
- 50S Field Upgradable to 50D
- 2 Lines LCD with 2 LED Buttons for Front O
- · Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contact
- Upgradable Modules: Laminator & Ethernet

# **SMEPL-30** Series is Value for Everyone!

Single sided ID CARD PRINTER

# smart-30S



- Color & Mono Single Sided Printing
- Print Speed: Max. 23 sec./card (YMCKO)
- 300dpi with Edge-to-Edge Printing
- LED Button for Front Operation
- · Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Flipper & Ethernet

**Dual sided ID CARD PRINTER** 

# smart-30D



- · Single or Dual Sided Printing
- Print Speed: Max. 29 sec./card (YMCKOK)
- 300dpi with Edge-to-Edge Printing
- · Field Upgradable by Installation of Flipper or
- LED Button for Front Operation
- · Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contact
- · Upgradable Modules: Ethernet



### Standard class

Laminating ID CARD PRINTER

# smart-50L





- Instant Direct Heating Lamination \*patent
- Printing & Laminating Speed: Max. 23 sec./card (YMCK & Single Lamination)
- 300dpi with Edge-to-Edge Printing
- 50S & 50D Field Upgradable to 50L
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Holographic Lamination for Visual Security & Card Durability
- Installable Encoders: MS, Contact & Contactless, SIM
- Upgradable Modules: Ethernet

Value class

Rewritable ID CARD PRINTER

# smart-30R



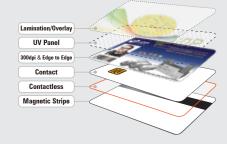
- · Direct Thermal Rewritable Method
- Rewrite Speed: Max. 12 sec./card
- LED Button for Front Operation
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Ethernet



# **Applications**

- ID / Membership
- · Access control / Security
- Healthcare
- Banking Card
- Transportation
- Retail
- Gift / Promotion / Loyalty

# High-Security



# Networking



Available encoding the contact & contactless smart card by Ethernet

# Rewritable



Provides a cost effective solution!



peration

tless, SIM



n SMART-30S

tless

### **Retransfer** class

# Applications 4 3 2

- ID / Membership
- · Access control / Security
- Healthcare
- Banking Card
- Transportation
- Retail
- Gift / Promotion / Loyalty

### **Print with Security**





**UV** Printing

**Media Cassettes** 





**Security Erase** 

### Reverse-transfer printing process



### **Consumables**



Ink Ribbon & Retransfer Film

### Retransfer class ID CARD PRINTER WiSE-CXD80













### ■ FEATURES

- · Color & Mono Single or Dual Sided Printing
- Print Speed: 29 sec./card (YMCK)
- Detachable and anytime-refillable hopper
- · Intuitive and flexible function LCD panel
- · Removable and water-washable cleaning roller
- · Security locks on hopper & front door
- · Kensington lock
- Inline encoding and lamination (with optional unit)
- · Environmentally friendly compact design

Retransfer class ID CARD PRINTER **Ші5Е-**СL600

The superior quality of lamination printing for high security













### **Specifications**

Model		WISE-CXD80S (Single side)	WISE-CXD80D (Dual sides)		
Printing	Print Type	Dye Sublimation / Resin Thermal Retransfer			
	Print Area	Full Bleed (Real edge-to-edge)			
	Resolution	300 dpi			
Card	Card Feeding	Automatic			
	Card Size	ISO CR80 (54mm x 86	6mm / 2.12"x3.38")		
	Card Thickness	0.25mm(10mil) ~	~ 1.0mm(40mil)		
	Card Type	PVC, Compos	ite PVC, PET		
Print Speed	YMCK	29 sec./card (124 cards/hour)	29 sec./card (124 cards/hour)		
	YMCKK	-	40 sec./card (90 cards/hour)		
Capacity	Input & Output	100 cards each(0.76mm)			
System	Supported Platform	Microsoft Windows 2000 Pro., XP, Vista, Windows Sever 2003 R2 SP2, Sever 2003			
	Communication	USB2.0, Ethernet fitted as standard			
	Power Supply	Max. 3A (100V to 120V), Max. 1.5A (220V to 240V)			
	Temperature/Humidity	15~35°C / 35~70%			
Dimensions	Dimensions (WxLxH)	343mm (13.5") x 322mm	(12.7") x 335mm (13.2")		
	Weight (kg/lbs)	13.0 / 28.7 (without optional unit)	15.5 / 34.2 (without optional unit)		
Ribbon		YMCK (1,000 prints), YMCKK (750 prints), YMCKUV (750 prints), YMCKPO (750 prints)			
		Retransfer Film (1,000 prints)			
Options		Magnetic stripe Encoding (HiCo/LoCo), Contact chip Encoding (Read/Write)			
		Contactless Encoding, Bend Remedy Unit, Lamination Unit (*WISE-CL600)			
Certifications		CE, FCC, KC			

## COLOR RIBBONS

Ribbon Type	ҮМСКО	ҮМСКОК	YMCFKO	нүмско	
Ribbons for SMART-70 Series					
	Full Color Ribbon with Resin Black & Overlay	Full Color Ribbon with Resin Black, Overlay & Black for Back Side	Full Color Ribbon with UV Panel, Resin Black and Overlay	Half Panel Size Color Ribbon with Resin Black and Overlay	
Capacity	500 Cards/Roll	500 Cards/Roll	500 Cards/Roll	1000 Cards/Roll	
SMART-70	0	-	О	О	
SMART-70 with Flipper	0	0	0	0	
SMART-70 with Laminator	О	-	0	0	
SMART-70 with Flipper & Laminator	0	0 0		0	
Ribbons for SMART-30/50 Series					
	Full Color Ribbon with Resin Black & Overlay	Full Color Ribbon with Resin Black, Overlay & Black for Back Side	Full Color Ribbon with UV Panel, Resin Black and Overlay	Half Panel Size Color Ribbon with Resin Black and Overlay	
Capacity	250 Cards/Roll	200 Cards/Roll	200 Cards/Roll	350 Cards/Roll	
SMART-30S/50S	0	-	0	0	
SMART-30D/50D	0	0	0	0	
SMART-50L	0	0	0	0	

# SECURITY FILMS

Ribbon Type	CPF	HPF	
Ribbons for SMART-70 Series		E	
	Clear Patch Film	Hologram Patch Film	
Capacity	500 Cards/Roll	500 Cards/Roll	
SMART-70	-	-	
SMART-70 with Flipper	-	-	
SMART-70 with Laminator	0	О	
SMART-70 with Flipper & Laminator	0	0	
Ribbons for SMART-30/50 Series	10	-	
	Clear Patch Film	Hologram Patch Film	
Capacity	250 Cards/Roll	250 Cards/Roll	
SMART-30S/50S	-	-	
SMART-30D/50D	-	-	
SMART-50L	0	0	

## **■ MONO RIBBONS**

Ribbon Type	ко	К	w	В	R	MG	MS	so
Description	Black with Overlay	Black	White	Blue	Red	Metallic Gold	Metallic Sliver	Scratch-Off
Ribbons for SMART-70 Series								
Capacity	1500 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll
SMART-70 Series	0	О	0	О	0	0	0	0
Ribbons for SMART–30/50 Series								
Capacity	600 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll
SMART-30 Series	0	0	0	0	0	0	0	0
SMART-50 Series	0	0	0	0	0	0	0	0

## CLEANING KITS



## **■ CARD**



Primuss Card
PVC, CR80

# **smar⊢**-70 Printer

Printing	Print Type	Direct Dye-Sublimation		
Tilliang		<u> </u>		
	Print Area	Edge to Edge		
	Resolution	300dpi		
Card	Card Feeding	Automatic		
	Card Size	ISO CR80 (54mm x 86mm / 2.12" x 3.38")		
	Card Thickness	0.38mm (15mil), 1.2mm (47mil)		
	Card Type	PVC, Composite PVC, PET		
Print Speed	Monochrome	3.6 sec./card (1,000 cards/hour)		
	YMCKO	Max. 16 sec./card (225 cards/hour)		
	YMCKOK	Max. 22 sec./card (164 cards/hour)		
Capacity	Input Hopper: Card	500 cards		
	Output Hopper: Card	Stacker: 100 cards / *Optional Output Hopper: 500 cards		
System	Memory	64MB RAM		
	Interface	2 Line LCD / 4 Buttons / 1 LED Indicator		
	Supported Platforms	MS Windows 2000/ 2003/ XP/ Vista/ 7/ 8 / 10, Mac OS, Linux		
	Communication	USB, 2 USB Host, Ethernet		
	Power Supply	Free voltage (AC 100/ 220V, 50~60Hz)		
	Power Consumption	24V, 2A		
	Temperature/Humidity	15~35℃ / 35~70%		
Security	Physical Lock	Ribbon		
	S/W	PC authentication, Password authentication		
	Station Itself	Kensington Lock		
Dimensions	Millimeter	240 (W) x 214 (L) x 305 (H)		
	Inch	9.5 (W) x 8.4 (L) x 12 (H)		
Weight	kg/lbs	Approx. 6.3 kg/13.9 lbs		

# **smart**-70 Hybrid Flipper

Encoding	Contact	ISO 7816 A/B/C Card, ISO 7816 1/2/3/4 Microprocessor Card			
Sensor	Contactless	ISO 14443 (Type A/B), Mifare, DEFIRE, iCLASS, ISO 18092(NFC), Felica			
Scanner	Image Scanner	Selectable 300 & 600 dpi Dual-sided image scannig resolution, Scanning Speed: 4.5sec/card (300 dpi), 6sec/card (600 dpi)			
	Barcode Recognition	1D & 2D Barcode Recognition (Front/Back)			
System	Communication	USB			
	Power Supply	Free Voltage (AC 100/ 220V, 50~60Hz)			
	Power Consumption	24V, 2A			
	Temperature/Humidity	15~35℃ / 35~70%			
Security	Physical Lock	Encoder or Error Card			
	Station Itself	Kensington Lock			
Dimensions	Millimeter	110 (W) x 204 (L) x 305 (H)			
	Inch	4.3 (W) x 8.0 (L) x 12 (H)			
Weight	kg/lbs	Approx. 2.8 kg/6.2 lbs. (Without Optional modules)			
Error Card Bin Ejection device for faulty card is equipped inside Flipper (Max. 30 cards)		* If encoder or scanner options are not selected, Error Card Bin will be provided.			

# **SMart**-70 Laminator

Laminating	Туре	Direct Heating Lamination		
	Speed	14 sec./card (Single-sided Laminating)		
Laminating	Туре	Clear, Holographic		
Film	Thickness	0.6mil, 1.0mil		
	Capacity	500 cards/Roll		
System	Interface	2 Line LCD / 4 Buttons / 1 LED Indicator		
	Communication	USB, RS-232C		
	Power Supply	Free Voltage (AC 100/ 220V, 50~60Hz) / 24V, 2.3A		
	Power Consumption	24V, 2.3A		
	Temperature/Humidity	15~35℃ / 35~70%		
Security	Physical Lock	Laminating Film		
	Station Itself	Kensington Lock		
Dimensions	Millimeter	240 (W) x 214 (L) x 305 (H)		
	Inch	9.5 (W) x 8.4 (L) x 12 (H)		
Weight	kg/lbs	Approx. 6.1 kg/13.4 lbs		

# **SMart**-70 Input/Output Hopper

Input / Output	Max. 500 cards		
Feeding	Automatic		
Size	ISO CR80 (54mm x 86mm / 2.12" x 3.38")		
Thickness	0.38mm (15mil), 1.2mm (47mil)		
Туре	PVC, Composite PVC, PET		
Residual Q'ty Sensor	Input: Near Empty & Empty / Output: Full Space		
Detection Sensor	Cartridge Mount Status Detectable		
Communication	USB, RS-232C		
Power	Free Voltage (AC 100/ 220V, 50~60Hz) / 24V, 2A		
Temperature/Humidity	15~35℃ / 35~70%		
Physical Lock	Cartridge		
Station Itself	Kensington Lock		
Input Hopper (WxLxH)	170 x 204 x 548 mm / 6.7 x 8.0 x 21.6 inch		
Output Hopper (WxLxH)	149 x 204 x 548 mm / 5.9 x 8.0 x 21.6 inch		
Input Hopper (kg/lbs)	Approx. 3.7 kg /8.2 lbs		
Output Hopper (kg/lbs)	Approx. 3.5 kg/7.6 lbs		
	Feeding Size Thickness Type Residual Q'ty Sensor Detection Sensor Communication Power Temperature/Humidity Physical Lock Station Itself Input Hopper (WxLxH) Output Hopper (WxLxH) Input Hopper (kg/lbs)		

# **5Mart**-50 & 30 Series

Model				Standard Class		Value Class			
			SMART-50S SMART-50D SMART-50L			SMART-30S	SMART-30D	SMART-30R	
			Single Sided	Dual Sided	Dual Sided & Laminator	Single Sided	Dual Sided	Rewritable	
Printing	Print Type		Dye-Sublimation	Dye-Sublimation	Dye-Sublimation	Dye-Sublimation	Dye-Sublimation	Thermal Transfer	
J	Print Area				Edge to	o Edge			
	Resolution	1	300dpi						
	Dual Side	Printing	Option (with Flipper)	Yes	Yes (Flipper Installed)	Option (with Flipper)	Yes	No	
Card	Card Feeding				Autor	natic	I		
	Card Size		ISO CR80 (54mm x 86mm / 2.12" x 3.38")						
	Card Thick	kness	0.38mm (15mil), 1.0mm (40mil) 0.38mm (15mil), 0.76mm (30mil)						
	Card Type	:	PVC, PET, Composite PVC	PVC, PET, Composite PVC	PVC, PET, Composite PVC	PVC, PET, Composite PVC	PVC, PET, Composite PVC	Rewritable Thermochromic Material	
Print Speed	Monochro	me	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	Max. 12 sec./card (300 cards/hour)	
	УМСКО		Max. 18 sec./card (200 cards/hour)	Max. 18 sec./card (200 cards/hour)	Max. 18 sec./card (200 cards/hour)	Max.23 sec./card (156 cards/hour)	Max. 23 sec./card (156 cards/hour)	-	
	YMCKOK		-	Max. 24 sec./card (150 cards/hour)	Max. 24 sec./card (150 cards/hour)	-	Max. 29 sec./card (124 cards/hour)	-	
Laminating	Mode		-	-	Single & Dual	-	-	-	
	Film (Clear & Holographic)		-	-	0.6mil, 1.0mil	-	-	-	
	Speed	Simultaneous	-	-	23 sec./card (YMCK)	-	-	-	
		(Single Lamination)	-	-	33 sec./card (YMCKK)	-	-	-	
		One by One	-	-	44 sec./card (YMCK)	-	-	-	
		(Single Lamination)	-	-	54 sec./card (YMCKK)	-	-	-	
Capacity	Input Hopper: Card		100	100	100	80	80	80	
	Output Ho	pper: Card	40	40	40	25	25	25	
System	Memory				64MB	RAM			
	Display		2 Line LCD	2 Line LCD	2 Line LCD	-	-	-	
	Control Panel		2 LED Buttons	2 LED Buttons	2 LED Buttons	1 LED Button	1 LED Button	1 LED Button	
	Supported	d Platforms	Microsoft Windows 2000/ 2003/ XP/ Vista/ 7/ 8 /10, Mac OS, Linux						
	Communi	cation	USB, Ethernet (Option)						
	Power Sup	oply			Free Voltage (AC 10	0/ 220V, 50~60Hz)			
	Power Cor	nsumption	48	48	96	48	48	48	
	Temperature/Humidity				15~35℃,	/ 35~70%			
Dimensions	Millimeter (WxLxH)		170 x 420 x 195	170 x 510 x 195	170 x 700 x 195	172 x 377 x 190	172 x 472 x 190	172 x 377 x 190	
	Inch (WxL:	xH)	6.7 x 16.5 x 7.7	6.7 x 20.0 x 7.7	6.7 x 27.6 x 7.7	6.8 x 14.8 x 7.5	6.8 x 18.6 x 7.5	6.8 x 14.8 x 7.5	
Weight	Kg/lbs		4.5 / 10	5.5 / 12	9.2 / 20	3.4 / 7.5	4.2 / 9.5	3.4 / 7.5	
Encoding Options	Magnetic		ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II						
	Contact				ISO 781	6 (ID-1)			
	Contactles	SS	MIFARE, ISO 14443 (Type A/B), ISO 15693, DESFIRE, iCLASS						
Certifications	Certification	ons		CB, CE, FCC, KC, UL		C	B, CE, FCC, KC, C-tick		

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$ 

Specifications and availability may change without notice.





# www.idp-corp.com

### IDP Corp., Ltd.

 OFFICE: Room 601, 50, Digital-ro 33-gil, Guro-gu, Seoul, Korea, 08377

• TEL: +82-2-6099-3700 • FAX: +82-2-6099-3717

• E-mail : sales@idp-corp.com

### IDP Americas, Inc. (UNITED STATES & CANADA)

• OFFICE: 200 Circuit Drive, North Kingstown, RI 02852

• TEL: +1-401-400-7111 • FAX: +1-401-667-7445

• E-mail: sales.na@idpnorthamerica.com