ParkAdvance™

General

ParkAdvance™ is a whole shift forward in Parking Management Technology. The system design is a fusion of the very best in mechanical, electronic and software engineering bringing you unprecedented levels of functionality and versatility coupled with the outstanding reliability you have always expected from WPS.

Our meticulous hardware engineering not only focuses on aesthetics and durability but also provides a perfect combination of sophisticated features and ease of configuration and use.

WPS ParkAdvance™ software, ParkID™, with its completely new IP based operating system architecture, is at the very forefront of excellent IT design. Unlike other systems, it has been designed specifically for today’s interconnected world and provides a perfect platform to support your developing future parking system needs.

At WPS we believe that great engineering design should be inspiring – not only in itself but also in the way it provides new functionality, connectivity and flexibility to inspire exciting new possibilities for our customers.

Some of the Benefits

Uptime and Revenue
Proven hardware reliability and exceptional service are WPS hallmarks and already help our customers to deliver maximum up-time and consumer satisfaction. ParkAdvance™ further integrates real time remote monitoring and diagnostics to further improve support allowing us to work with you to manage component life and proactively deploy service support.

Combined with a whole host of new revenue generating features, such as streaming on-screen advertising, and the latest in highly accurate theft and fraud protection measures, ParkAdvance™ underpins maximum revenue generation from your parking operations.

Operating Costs
ParkAdvance™ not only improves revenue but offers the opportunity to drive down operating costs. The architecture is ideally suited to efficient, flexible and fully integrated management of single and multiple parking facilities to provide new ways of working. All this is complemented by comprehensive standard and customized reporting offering new levels of detailed, live management feedback and control.

Intelligent Parking Solutions

wpsparking.com
**ParkAdvance™ stations include**

- Aluminum housing
- 12.1” LCD full-color display in Pay Stations
- 7” LCD full-color display in Entry & Exit Stations
- Intercom prepared or installed
- Modular design
- Wall mount prepared Pay Station
- Separate and lockable coin vaults in Pay Station
- Standard cabinet color: RAL 7021
- Equipment is available in a range of standard and custom colors as well as stainless steel faces

**Standard packs* include:**

- Traffic Blue: RAL 5017
- Traffic Grey: RAL 7042
- Black Grey: RAL 7021
- Traffic Yellow: RAL 1023
- Traffic Red: RAL 3020

* Standard packs include listed fascia colors set off with Black Grey RAL 7021

**Optional**

- Automatic Number Plate Recognition
- Various passcard acceptors
- Various proximity readers
- Integration of 3rd party readers possible
- Country specific chip & pin
- Various credit card readers possible
- Receipt printer / lost ticket printer
- Plinths: 15in (320mm) / 9in (120mm)
- LED ticket mouth

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**Some of the Benefits**

**Consumer Experience**

First impressions always count, and even from a distance ParkAdvance™ tells your customers that you value high standards of quality. The whole design is focused on the customer and intuitive ease of use. The screens are fully configurable from your control room and can include audio/video instructions to assist consumers at the paystation alongside our fully IP based video intercom. Replacement tickets, for example, can even be issued automatically to your customers after checking against system records at the terminal. Add to this the availability of new payment methods and the ability to buy and renew ticketing products at the paystation, and you have a winning combination.

**Functionality**

ParkAdvance™ offers everything you would expect from a sophisticated Pay on Foot solution including comprehensive cash and card handling options as well as offering new ways to pay. The system also opens up flexibility to manage your customers through a seamless range of identifiers (for example, tickets, smart cards and ANPR) and through special configurations such as ‘Self-Managed Subscribers’ and ‘Pooling’.

**Your Investment**

ParkAdvance™ is a safe long term investment for your business. Our solutions use the latest technology and can be readily extended and upgraded for future identification methods, payment methods and parking requirements including scaling from single to multi car park management. ParkAdvance has been engineered true to our tradition of durability, far exceeding the market norm to further enhance your return on investment.

**New Possibilities**

The unique, IP based architecture of ParkAdvance™ gives you unprecedented and straightforward access to a whole range of new possibilities including for example: online/remote backup; direct web interfaced reservations; loyalty schemes including integration with on-line apps; payment through third party apps; on-line data reporting; and self-managing subscribers both via integrated internet and paystation routes.

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Intelligent Parking Solutions

wpsparking.com
The Master station is the heart of the ParkiD™ parking management solution. The Master Station is an independent and autonomous operating station in which all functionalities of the terminals and payment terminals in the system are centralized. The station also contains a web server for access to the web-based user interface. For remote management, support and/or maintenance, the Master Station can be accessed via a standard (LAN) network or via the internet.
ParkAdvance™ Master Station

Specifications

Form factor
1U rack server

Processor
Intel Xeon processor E3-1200 v6 product family

Dimensions and weight
H: 1.68in W: 18.99in D: 26.66 in. Weight 30.42lb

Memory
Up to 64GB (default is 8GB)

Operating system
Ubuntu / CentOS

Slots
2 PCIe 3.0 slots 1 slot internal storage

RAID Controllers
PERC H330 with RAID 1 configured

Hard Drive
2 x 500GB hot-swap HHD (other options available)

Network controller
2 x 1GBE

Power
2 x 350W hot-plug redundant power supplies

Optional VM

- CPU
  4 cores
  3.0 GHz
  8 MB Cache

- Memory
  8 GB

- Hard Drive
  500GB

- OS
  WPS provided ISO image (custom CentOS)

ParkAdvance is a trademark of WPS Parking Systems B.V.

www.wpsparkingsolutions.com
ParkAdvance™ Entry Station

Highlights

The ParkAdvance™ Entry Station has been engineered to offer an outstanding combination of ease of consumer use, advanced consumer features, exceptional reliability, robust durability and great aesthetics. ParkAdvance™ Entry terminals are also easy to configure and manage using our integrated ParkiD™ system software.

Standard
- Aluminum housing
- Barcode printer / ticket issuer
- 7” LCD 800 x 480 color display
- Internal cabinet lighting
- Standard cabinet color: RAL 7021
- Equipment is available in a range of standard and custom colors as well as stainless steel faces

Standard packs* include:
- Traffic Blue RAL 5017
- Traffic Grey RAL 7042
- Black Grey RAL 7021
- Traffic Yellow RAL 1023
- Traffic Red RAL 3020

Optional
- Automatic Number Plate Recognition
- Credit Card Entry
- Barcode insertion / 2D scanner type
  - Access
- Passcard acceptor (TAU)
- LED lit ticket mouth
- Built in intercom or prep (analogue /digital)
- Proximity readers: Deister, Nedap, HID
- Integration of 3rd party readers
- Credit card reader (Magtek)
- Plinth 15in (380mm) / 5in (120mm)

Intelligent Parking Solutions

wpsparking.com
Specifications

Display
Diagonal screen size: 7 inch Wide
Backlight
Colors: 16.2 million
Resolution: 800 x 480
Type: LCD
Power saving mode

Communication
Optional 2-way voice intercom
Optional 1-way video intercom

Connection
TCP/IP

Dimensions
Packaging type: FSC approved re-usable pallet box
Product weight:
Terminal: 40kg / 88 lbs
Product dimensions (WxDxH): 24in (600mm) x 20in (500mm) x 51.5in (1304mm)

Power
Power supply 230V / 110V
Cooling fan: 230V / 110V
Heater: 400W – 230V / 110V

Safety
1/2-channel detector 230V / 110V
Tamper alarm
Door contact
Euro cylinder lock

Software
WPS ParkID™
WPS ParkID™ Cloud

Identifiers
Deister PRD4
MIFARE
NEDAP
ANPR: Intrada
Credit card / debit card
HID or AWID

Certifications
PCI-DSS / PA-DSS

Green specification
20% energy reduction due to standby functionality
Thermostat standard temp 15°C
FSC approved ticket paper

QHSE
ISO 14001
ISO 9001
VCA veritas

Intelligent Parking Solutions

ParkAdvance™
Entry Station

wpsparking.com
The ParkAdvance™ Exit Station has been engineered to offer an outstanding combination of ease of consumer use, advanced consumer features, exceptional reliability, robust durability and great aesthetics. ParkAdvance™ Exit terminals are also easy to configure and manage using our integrated ParkiD™ system software.

### Standard
- Aluminum housing
- Barcode reader/acceptor
- 7" LCD 800 x 480 color display
- Internal cabinet lighting
- Standard cabinet color: RAL 7021
- Equipment is available in a range of standard and custom colors as well as stainless steel faces

#### Standard packs* include:
- Traffic Blue: RAL 5017
- Traffic Grey: RAL 7042
- Black Grey: RAL 7021
- Traffic Yellow: RAL 1023
- Traffic Red: RAL 3020

* Standard packs include listed fascia colors set off with Black Grey RAL 7021

### Optional
- Automatic Number Plate Recognition
- Barcode insertion / 2D scanner type - Exit
- Passcard acceptor (TAU)
- LED lit ticket mouth
- Built in intercom or prep (analogue / digital)
- Proximity readers: Deister, Nedap, HID
- Integration of 3rd party readers
- Cashless exit paystation ready for credit card reader
- Credit card reader (Magtec)
- Plinth 15in (380mm) / 5in (120mm)
Specifications

Display
- Diagonal screen size: 7 inch Wide
- Backlight Colors: 16.2 million
- Resolution: 800 x 480
- Type: LCD
- Sleep mode reduces 20% energy

Communication
- Optional 2-way voice intercom
- Optional 1-way video intercom

Connection
- TCP-IP

Dimensions
- Packaging type: FSC approved re-usable pallet box
- Product weight:
  - Terminal: 40kg / 88lbs
- Product dimensions (WxDxH): 24in (600mm) x 20in (500mm) x 51.5 (1304mm)

Payment methods
- Pin
- Credit card / Debit card

Power
- Power supply: 230V / 110V
- Cooling fan: 230V / 110V
- Heater: 400W – 230V / 110V

Safety
- 1/2-channel detector: 230V / 110V
- Tamper alarm
- Door contact
- Euro cylinder lock

Software
- WPS ParkID™
- WPS ParkID™ Cloud

Departure
- Deister PRD4
- MIFARE
- NEDAP
- Receipt printer: X/C56
- HID or AWID

Certifications
- PCI-DSS / PA-DSS

Green specification
- 20% energy reduction due to standby functionality
- Thermostat standard temp 15°C
- FSC approved receipt paper

QHSE
- ISO 14001
- ISO 9001
- VCA veritas

Intelligent Parking Solutions

wpsparking.com
ParkAdvance™
Cashless Pay Station

Highlights

The ParkAdvance Cashless Pay Station is easy to configure and to maintain. ParkAdvance™ hardware features subscriber functionality, various identifiers, privilege cards and value cards. The ParkAdvance™ Cashless Pay Station has a fully customizable user interface as well as many other features.

Standard

- Aluminum housing
- Barcode reader/Acceptor
- 7" LCD display full-color
- Modular design
- Standard cabinet color: RAL 7021
- Equipment is available in a range of standard and custom colors as well as stainless steel faces

Standard packs* include:

- Traffic Blue RAL 5017
- Traffic Grey RAL 7042
- Black Grey RAL 7021
- Traffic Yellow RAL 1023
- Traffic Red RAL 3020

* Standard packs include listed fascia colors set off with Black Grey RAL 7021

Optional

- Automatic Number Plate Recognition
- Barcode reader / 2d scanner type: Access
- Passcard acceptor (TAU) (Optional LED ticket mouth)
- Built in intercom or prep (analogue / digital)
- Proximity readers: Deister, Nedap, HID
- Integration of 3rd party readers in modules
- Country specific chip & pin unit type: Atos /Thales
- Credit card reader type Magtec
- Plinth 15in (380mm) / 5in (120mm)
Specifications

Display
- Diagonal screen size: 7 inch Wide
- Backlight
- Colors: 16.2 million
- Resolution: 800 x 480
- Type: LCD
- Sleep mode reduces 20% energy

Communication
- Optional 2-way voice intercom
- Optional 1-way video intercom

Connection
- TCP/IP

Dimensions
- Packaging type: FSC approved re-usable pallet box
- Product weight: Terminal: 40kg / 88 lbs
- Product dimensions (WxDxH): 24in (600mm) x 20in (500mm) x 51.5in (1304mm)

Payment methods
- Pin
- Credit card / Debit card

Power
- Power supply 230V /110V
- Cooling fan: 230V /110V
- Heater: 400W – 230V /110V

Safety
- 1/2-channel detector 230V /110V
- Tamper alarm
- Door contact
- Euro cylinder lock

Software
- WPS ParkID™
- WPS ParkID™ Cloud

Departure
- Deister PRD4
- MIFARE
- NEDAP
- Receipt printer: X/CS6
- HID or AWID

Certifications
- PCI-DSS / PA-DSS

Green specification
- 20% energy reduction due to standby functionality
- Thermostat standard temp 15°C
- FSC approved receipt paper

QHSE
- ISO 14001
- ISO 9001
- VCA veritas

Intelligent Parking Solutions

wpsparking.com
ParkAdvance™ Pay Station

Highlights

The ParkAdvance™ Pay Station has been engineered to offer an outstanding combination of ease of consumer use, advanced consumer features, exceptional reliability, robust durability and great aesthetics. ParkAdvance™ Paystations are also easy to configure and manage using our integrated ParkiD™ system software.

Standard

- Aluminum housing
- Barcode reader/acceptor
- Intercom
- 12.1” LCD 800 x 480 colour display
- Coin processing
  - 6 tubes (capacity 70 coins/tube)
  - separate lockable coin vault
- Standard cabinet color: RAL 7021
- Equipment is available in a range of standard and custom colors as well as stainless steel faces

Standard packs* include:

- Traffic Blue RAL 5017
- Traffic Grey RAL 7042
- Black Grey RAL 7021
- Traffic Yellow RAL 1023
- Traffic Red RAL 3020

* Standard packs include listed fascia colors set off with Black Grey RAL 7021

Optional

- Coin processing - 2 self-filling hoppers (capacity 500 coins/hopper)
- LED guidance
- Banknote validator
  - handling for four denominations
  - cash capacity 600 or 1000 notes
- Banknote validator / dispenser / recycler
  - capacity recycling cassettes 3 x 100 notes
  - cash box capacity of 600 or 1000 notes
  - dispenses up to 20 notes
- Separate and lockable cash cabinet
- Credit card and Chip and PIN reader
- Wide range of proximity card readers
- Integration of 3rd party card readers
- Receipt printer / lost ticket printer

Intelligent Parking Solutions

wpsparking.com
Specifications

Payment methods
- Coin processing:
  - Standard 6 tube hoppers
  - Optional: 2 self-filling hoppers
- Banknote handling:
  - Standard 4-way handling of banknotes
  - Capacity 600-1000 notes
- Power saving mode
- Optional 2-way voice intercom
- Optional 1-way video intercom
- Optional: Tamper alarm
- Optional: Extra door contact
- Optional: Extra output contact
- Optional: Extra input contact
- Optional: Cobalt safety door
- Optional: Cobalt safety shield
- Euro cylinder lock

Software
- WPS ParkID™
- WPS ParkID™ Cloud

Access
- Deister PRD4
- MIFARE
- NEDAP
- HID or AWI/D

Certifications
- PCI-DSS / PA-DSS

Green specification
- 20% energy reduction due to standby functionality
- Thermostat standard temp 15°C
- FSC approved ticket / receipt paper

QHSE
- ISO 14001
- ISO 9001
- VCA veritas

Intelligent Parking Solutions

wpsparking.com
Tailor made work is key in some market segments. Whether it is for advertising, providing information or customization to in-house styling, WPS offers a unique wrap for ParkAdvance™ stations.

The wrap is made of a durable thin plastic cover that is also being used in the auto industry. This wrap is weather resistant, durable and will last for years. In the event of damage, the wrap can be easily removed and replaced on the spot.

With significant investment made in purchasing the equipment more customers are incorporating colorful customized vinyl wraps; firstly to protect their investment and secondly to make the asset work with marketing or advertising.

This can include seasonal marketing, adhering to local authority and trust guidelines incorporating logos, corporate branding colors and also visual reminders of where a customer or guest may have parked.

The vinyl wraps design is purely limited to the clients own creativity.
ParkAdvance™

Gallery

Hospital Parking

Airport Parking

Hotel Parking

Shopping Center Parking

Leisure Parking

Residential Parking

Intelligent Parking Solutions

wpsparking.com
Parking Pro Series

BG500 WPS Barrier

Whether we are talking about a parking garage, an underground parking or a parking area - the barrier is and remains the key element. BG500 WPS barriers were specifically designed for these applications.

Our parking barriers do not only offer fast opening times, long-life cycle, reliability and quality. Furthermore, they amaze with extraordinary design, extremely low operational costs, easy handling and almost maintenance-free technology.

In a nutshell: BG500 WPS barriers are the first choice for car park operators that need to establish an easy and reliable vehicle access control.

Outstanding functionality

BG500 WPS barriers offer high basic functionality combined with maximum ease of use and accessibility. The safe control unit with an integrated 2-channel loop detector provides 80% more connectivity (I/O, TCP/IP, RS-485, etc.). The UL-certified BG500 WPS barriers are available with lane widths of 10 or 12 ft.

Control unit

The MGC Pro control unit can be quickly accessed from all sides. It is located directly underneath the top cover. Configuring the barrier is easily accomplished via the LCD’s intuitive user interface that can be navigated with just 4 push-buttons.

Drive unit

The drive unit of MHTM™ MicroDrive is not only astonishing because of its small dimensions. You also get a high torque with an extremely minimized power consumption. The high torque guarantees best operation even under severe weather conditions (heavy winds, snow, etc.).

The motor, motor control and gearing are all combined in one compact drive unit.

VarioBoom

The VarioBoom concept dramatically enhances the visibility of the barrier boom. It comes equipped with a foam edge which offers best protection against damages and harm to people.

The optionally available break-away flange may be used to drop the whole barrier boom in case of an unwanted or forced drive-through. The boom may be fixed afterwards without any adverse effect on the functionality.
### Technical Data

<table>
<thead>
<tr>
<th></th>
<th>BG500 BGM0100 / BGM0102</th>
<th>BG500 BGM0101 / BGM0103</th>
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</thead>
<tbody>
<tr>
<td>Lane width</td>
<td>10 ft</td>
<td>12 ft</td>
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<tr>
<td>Opening / closing time</td>
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<td>1.3 s</td>
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<td>Power consumption max.</td>
<td>95 W</td>
<td>95 W</td>
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<tr>
<td>Duty cycle</td>
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<tr>
<td>Supply voltage</td>
<td>Wide voltage range 85 - 264 V AC</td>
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<tr>
<td>Frequency</td>
<td>50 - 60 Hz</td>
<td></td>
</tr>
<tr>
<td>Drive unit</td>
<td>MHTM™ MicroDrive</td>
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</tr>
<tr>
<td>Housing dimensions (WxDxH)</td>
<td>12.4 x 13.6 x 36.0 in</td>
<td>12.4 x 13.6 x 36.0 in</td>
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<tr>
<td>Weight without boom</td>
<td>88.2 lbs</td>
<td>88.2 lbs</td>
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<tr>
<td>Housing design</td>
<td>Powder-coated aluminum</td>
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<tr>
<td>Base frame</td>
<td>Powder-coated stainless steel</td>
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<tr>
<td>Protection class</td>
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<tr>
<td>Compliant with</td>
<td>UL 325, 2004/108/EC, 2006/95/EC, 2006/42/EC, CE</td>
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</tr>
<tr>
<td>Temperature range</td>
<td>-22 to +131 °F</td>
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</tbody>
</table>

### Features

<table>
<thead>
<tr>
<th></th>
<th>BG500 BGM0100 / BGM0102</th>
<th>BG500 BGM0101 / BGM0103</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard colors</td>
<td>RAL 9007</td>
<td>RAL 9007</td>
</tr>
<tr>
<td>Special painting</td>
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<td>O</td>
</tr>
<tr>
<td>VarioBoom</td>
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<td>●</td>
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<tr>
<td>Extension set VarioBoom</td>
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</tr>
<tr>
<td>Control unit</td>
<td>MGC Pro</td>
<td>MGC Pro</td>
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<tr>
<td>Control unit modularly extendable</td>
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<td>●</td>
</tr>
<tr>
<td>Integrated 2-channel loop detector</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Variable I/O allocation</td>
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<td>●</td>
</tr>
<tr>
<td>Opening/closing times selectable</td>
<td>● / ●</td>
<td>● / ●</td>
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<tr>
<td>Number of digital inputs</td>
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<td>Number of relay / digital outputs</td>
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<tr>
<td>Solar / battery option</td>
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<tr>
<td>Specified number of cycles</td>
<td>10 Mio</td>
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<tr>
<td>Warranty</td>
<td>2 years</td>
<td>2 years</td>
</tr>
</tbody>
</table>

- Standard
- Optionally available
- Not available
Valid ID

A mobile solution that travels at the speed of tomorrow

Capture. Validate. Track.

HOTELS • RETAIL • OFFICES • HOSPITALS

- Seamless guest parking experience
- 100% revenue capture
- API for 3rd party integrations
- Highly configurable (discounts, dynamic pricing)
- Ticket conversions (e.g. transient to hotel guest)
- Easy installation using existing infrastructure

LEARN MORE
WEST (888) 321-6601
EAST (877) 977-9292
wpsparkingsolutions.us
Our innovative ValiD™ ticket validation system is a direct reflection of how WPS is providing intelligent parking solutions. ValiD™ is an online ticket validating system that significantly reduces the complexity of managing large validation programs both from an owner/operator’s perspective as well as from a customer’s perspective. With our ValiD™ solution the barcode on the customer’s ticket is validated directly through the facility controller removing the need for costly paper validation tickets.

Robust reporting features are available directly from the facility controller that show the number of validations or guest passes, the dollar amount, the user who validated the ticket, validation and dollar totals, etc. Each account is given access to their web-based account. Each account can have different validations available for use. This web access also gives them access to add users and run reports showing validation usage by user. Dollar amounts may be added to user accounts to control pre-paid validations.

Many types of validation are available:

- Default Discount – this discount uses a table that can be configured to apply a discount amount based on the parking fee.
- Amount Discount – amount entered applied as discount
- Time Discount – amount of discount applied is based on rate structure
- Free Exit – validates the ticket for one free exit
- Day Pass – validates the ticket as a day pass for the number of days preset in the ValiD™ system
- Percentage Discount – Applies a percentage discount off the amount of the price of the ticket (0% to 100%)
- Fixed Value Discount – The pre-set value becomes the new price of the scanned ticket
- Coupon Discount – Barcoded coupons that can be printed on an advertisement flyer and sent to customers or posted on a website that a customer can download and use at the site to receive a discount for parking. The discounts that can be configured are the same as the above discount types listed above.

Flexible ways to Validate a Customer Ticket:
- Via ValiD™ webpage
- Via ValiD™ mobile device app (iOS or Android)
- Via ValiD™ Standalone Validator
The payment technology at your service.

BV1000, the new automatic payment system.
The compact and low power payment system for unattended sites

BV1000 is an unattended EFTP POS for commercial transactions with credit or debit cards both with chip or magstripe able to satisfy sales of assets or services in pump station, kiosk, vending machines, parking. Mechanical dimensions are EVA Vending requirements compliance. BV1000 is composed of a PinPad (BV1000K) and a Reader module (BV1000R).

### BV1000K MAIN FEATURES

- **BV1000K, the PinPad module** with IP65, 1K10 and CE, PCI 3.1 conformity

  - **ARCHITECTURE:** Dual ARM Processor 32 bit
  - **MEMORY:** 512K Internal Flash
  - **DISPLAY:** Oled 2.4” Graphic 128x64 dots
  - **KEYBOARD:** 16 keys
  - **SIGNALLING:** Magnetic acoustic buzzer
  - **COMMUNICATIONS:** 2x RS-232 serial ports
  - **CONFIGURATION:** Automatic
  - **POWER SUPPLY:** 5 V DC, 200mA from BV1000
    - Stand-by 50uA
  - **BATTERY BACK-UP:** Primary Lithium
  - **SIZE:** 85.6x108x28 mm (WxHxD)
  - **CUT AREA:** 65.5x88 mm (WxH)
  - **WEIGHT:** 150 grams
  - **OPERATING TEMP:** From -20° to +65°C
  - **STORAGE TEMP:** From -25° to +70°C
  - **HUMIDITY:** 5-95% not condensing
  - **ENVIRONMENT:** IP65, 1K10
  - **OPERATING SYSTEM:** Open Rtos
  - **CIPHERING:** 3DES, RSA, AES128
  - **HOUSING:** Tecno-Polymer
  - **PROTECTIONS:** Tamper evident, resistant, responsive
  - **SECURITY:** Security box for system keys
    - Sign and authentication of loaded applications
    - Life cycles of the device
  - **CONFORMITY:** CE, PCI 3.1

### BV1000R MAIN FEATURES

- **BV1000R is the Contact and Magstripe Card Reader module** with CE, EMV lev.1, EMV lev.2, TQM and PCI 3.1 conformity

  - **ARCHITECTURE:** Dual ARM Processor 32 bit
  - **MEMORY:** 512K Internal Flash, 8MByte NOR FLASH, 2MByte PSRAM, 8+2MByte Data Flash
  - **MAGNETIC READER:** Traces 1/2/3
  - **CONTACT READER:** Asynchronous/Synchronous Chip Card
  - **SAM READER:** 3X SAM module connectors
  - **COMMUNICATIONS:** 4X RS-232 serial ports, 1 USB2.0 OTG, 1 Ethernet 10/100 MB, GPRS c10 quad band (alternative to Ethernet), MDB interface (optional)
  - **POWER SUPPLY:** D.C. from 8 to 34V. Power consumption
    - 1W full speed, stand-by <1mW
  - **BATTERY BACK-UP:** Primary Lithium
  - **SIZE:** 100x66,3x118,8 mm (WxHxD)
  - **CUT AREA:** 74x62 mm (WxH)
  - **WEIGHT:** 180 grams
  - **OPERATING TEMP:** From -20° to +65°C
  - **STORAGE TEMP:** From -25° to +70°C
  - **HUMIDITY:** 5-95% not condensing
  - **ENVIRONMENT:** IP34, IK10
  - **CIPHERING:** AES128, TDES
  - **OPERATING SYSTEM:** Open Rtos
  - **DEVELOPMENT:** SDK under IAR EWARM
  - **SECURITY:** Security box for system keys
    - Sign and authentication of loaded device
    - Life cycles of the device
    - Mutual authentication and ciphering towards the PinPad module
    - Report system event
  - **CONFORMITY:** CE, EMV lev.1, EMV lev.2, TQM, PCI 3.1