



PARKING MANAGEMENT SYSTEMS

PRODUCT
CATALOGUE





Amano Europe is the largest Parking Management System (PMS) supplier in the world with 25,000 parking installations globally. We are a part of Amano Corporation, which was established in 1931 in Japan and has a turnover of USD 1.1 billion.

Amano principally provides parking, time information and environmental systems internationally. Our Xparc parking solutions are ideal for every type of car park. With a clear focus on adaptability, daily operations and end-user experience, Xparc strongly contributes to the convenience of both drivers and operators.

Headquartered in Genk (Belgium), Amano Europe has subsidiaries in Romania, France, Germany and Spain. Our manufacturing facility is located in Germany and quality control is in Belgium. In other countries, we work together with external, certified partners to cater to client needs. In the GCC, Amano works exclusively through our partner Secure Parking.

At Amano, we provide personalised solutions instead of mass consumption products. Efficient project management guarantees a short time-to-market, and the in-depth consultations with our customers allow us to improve our products and services continuously. In other words, we innovate instead of just evolving after others have done so.





Secure Parking, one of the world's leading car park operators, was established in Australia in 1979. Today, we operate over 1.2 million parking spaces in over 12 countries around the world. With 1,700 car parks within various types of properties, such as Airports, Shopping Malls, Hotels, Hospitals, Commercial & Financial Centres, we employ more than 15,000 individuals.

Our services include Parking Consultancy Services, Operations & Management, Equipment Installation, Technical Support & Maintenance and Valet Parking. Managed by a professional and experienced team, the company ensures a seamless, frictionless parking experience.

In the UAE, Secure Parking started operations in 2005. We are a subsidiary of Al Shirawi Group of Companies, one of the country's largest private business conglomerates. The Group has an annual turnover of USD 1 billion, employees over 10,000 and has more than 30 successful businesses.

We at Secure Parking are presently managing car parks at major developments in the country including City Walk 2, Souk Madinat Jumeirah, Al Seef, The Beach – JBR, Uptown Mirdif, DIFC, Sun & Sky and The Gate Towers & the Arc at Al Reem Island, Abu Dhabi Global Market and Abu Dhabi World Trade Center among several others.

02 GATE BARRIER

Our next generation XGate barriers will thrive in the busiest possible carparks (100% duty cycle). The aluminium powder coated housing (IP54) is perfect for any environment (-30°C/+70°C). The arms move fast, precisely and operates quietly without any sound. New options like the automatic opening when power fails complete the specification. The controller board features everything you need from a barrier gate.

OPTIONS:

- ▶ Automatic opening in case of power failure (adjustable with pressure springs)
- ▶ Articulation kit (2.5-4m)
- ▶ Fixed support (4-5m)
- ▶ Fixed support with electromagnet (4-5m)
- ▶ Swinging support (4-5m)
- ▶ Round arm (different connector)
- ▶ Light sets (led, alternating red/green)
- ▶ Boom missing contact (2.5-4m)
- ▶ Receiver for radio remote control
- ▶ Easy configurator software (requires TCP/IP module)

CHARACTERISTICS:

- ▶ Aluminium housing
- ▶ Die-cast and lasered steel components
- ▶ Removable front door
- ▶ Easy to remove hood
- ▶ Double powder coating (RAL9005/9006)
- ▶ Other RAL colours on request



ARM LENGHT (m)	2.5	3	3.5	4	5
HOUSING (mm)	L 360 x W 300 x H 1100				
IP RATING	IP54				
MAXIMUM POWER (W)	180	85	80	75	195
POWER	88-264V/47-63Hz - 1.4A max. @ 230Vac				
TEMPERATURE	-30°C to 70°C				
BARRIER WEIGHT (kg)	57	58	58	59	60
ARM EFFECTIVE (m)	2.28	2.78	3.28	3.78	4.78
ARM WEIGHT (kg)	3.8	4.5	5.0	5.8	10
ARM DIMENSION (mm)	100x25				100x50
ROUND ARM	Optional (diameter 60mm)				No
ARM SUPPORT	No			Optional	Must
ARM CONNECTOR	Left/right usable				
ARTICULATION	Optional				No

SPEED SETTINGS:

- ▶ Pre-defined speed settings
- ▶ 3 different speeds per arm length
- ▶ Power reversal: selectable

ARM LENGHT (m)	2.5	3	3.5	4	5
FAST (s)	0.9	1.3	1.8	2.8	3.8
STANDARD (s)	1.3	1.8	2.5	3.8	4.5
SLOW (s)	1.8	2.5	3.8	4.5	5.5

GATE BARRIER

02

MOTOR CHARACTERISTICS:

- ▶ Energy saving concept
- ▶ Powerful brushless 24V DC motor
- ▶ Planetary multistage gear
- ▶ 3 speeds
- ▶ Rotation speed control
- ▶ End position detect without limit switch

LOOP DETECTORS:

- ▶ 3 built-in single channel loop detectors
- ▶ Configurable holding times
- ▶ High or low frequency setting
- ▶ 8 sensitivity levels

FUNCTIONAL:

- ▶ 6 multi-functional and configurable output relays (max 24V/1A)
- ▶ Adjustable opening angle (> 55° in steps of 5°)
- ▶ Arm connector is usable left/right without modification
- ▶ Service counter
- ▶ Pre-warning settings for arm movement
- ▶ Directional logics programming
- ▶ Extensive error messaging (fault finding)

COMPLIANCY:

- ▶ Temperature: -30°C/70°C
- ▶ Weather proof (IP54)
- ▶ RoHS Compliant
- ▶ CE approval

DIRECTIVE	REFERENCE
MACHINERY	42/2006/EG
LOW VOLTAGE	35/2014/EU
EMC	30/2014/EU

PRODUCT REFERENCES:

BARRIER GATE TYPE	PART NUMBER
XGATE 2.5M	XP12025/P001
XGATE 3.0M	XP1203/P001
XGATE 3.5M	XP12035/P001
XGATE 4.0M	XP1204/P001
XGATE 5.0AM	XP1205/P001

03 ENTRY MACHINE

Xparc's Entry Machine supports access control at the car parks entrance. It has a revolutionary look that allows for an ergonomic integration with any site.

The attractive look and feel is combined with the latest technology. The device is connected to the central Xparc server with a standard IP connection. This is valid for both Data and Voice. There are a variety of options to ensure that any customer requirement can be fulfilled.

For the XP2800 Entry Terminal, the Xparc system's concept of 'Value 4 Money' is reflected in the form of an affordable machine with a focus on low maintenance, and a design concept that allows for tailor-made solutions within a short development time.

SPECIFICATIONS:

Computer	: Industrial PC (1.6GHz Pentium Processor)
Display	: 5.7" Full VGA TFT (resolution 640x480, 500cd/m ²) – LVDS interface
Ticket Reader	: Linear Barcode scanner
Ticket Printer	: Thermal printer. Supports paper tickets (54 x 85mm, 170g/m ² max)
Capacity	: 4000 Tickets
Intercom	: VoIP based module with speaker and microphone (Optional)
Memory	: 1GB IDE Flash Module
Network	: Standard TCP/IP
Season Cards	: Mifare (ISO14443A) card reader. Optional multifORMAT reader
Case	: Aluminium, powder coating. RAL9005/9006 and safety glass
Main Power	: 100/120, 220/240 VAC ± 10%, 50/60 Hz with grounding
Consumption	: 150W (250W with optional heater)
Ambient	: -10°C ~ +40°C (-25°C ~ +40°C with heater), 10~90% RH (non-condensing)
Net Weight	: 50 kg
Dimensions	: 1276 (H) x 395 (W) x 440 (D) mm
Approvals	: CE, RoHS, WEEE
Additional Options	: License Plate Recognition, Mid range UHF reading (passive cards or tags), Long range UHF reading (active cards)
3rd Party Integration	: On request



EXIT MACHINE

04

Xparc Exit Machine allows smooth exit control at the exit terminal. A very well lit colour display supports perfect user interaction even under direct solar radiation. The graphical user interface is intuitive and easy to understand.

On top of the default functionalities like VoIP intercom and receipt printers, the exit machine can easily be extended with several options such as credit card payment. It can be integrated with IP-based SpyCamera for remotely supporting customers whenever they are facing issues and R Scanners (reservations, APP, discounts) for easy registration of pre-booking or discounts in the customer's mobile app. This field device can easily be connected with IP-based Automatic Number Plate Recognition and CCTV camera technology for increased security of the parking lot.

SPECIFICATIONS:

Computer	: Industrial PC (1.6GHz Pentium Processor)
Display	: 5.7" Full VGA TFT (resolution 640x480, 500cd/m ²) – LVDS interface
Ticket Reader	: Ticket mouth with linear barcode scanner, motorised retraction, optional 4-Way ticket reading
Receipt Printer	: 60mm thermal receipt printer
Credit Card	: Country specific solutions, typically based on EMVII compliant terminals
Intercom	: VoIP based module with speaker and microphone (Optional)
Memory	: 1GB IDE Flash Module
Network	: Standard TCP/IP
Season Cards	: Mifare (ISO14443A) card reader (optional), optional multiformat reader
Case	: Aluminium, powder coating, RAL9005/9006 and safety glass
Main Power	: 100/120, 220/240 VAC ± 10%, 50/60 Hz with grounding
Consumption	: 150W (250W with optional heater)
Ambient	: -10°C ~ +40°C (-25°C ~ +40°C with heater), 10~90% RH (non-condensing)
Net Weight	: 50 kg
Dimensions	: 1276 (H) x 395 (W) x 440 (D) mm
Approvals	: CE, RoHS, WEEE
Additional Options	: License Plate Recognition, Mid range UHF reading (passive cards or tags), Long range UHF reading (active cards)
3rd Party Integration	: On request



MANUAL PAY STATION

POINT OF SALES (POS/FEE COMPUTER):

The Point Of Sales is a physical manual cashier. It has the most options of all manual cashiers.

IMPORTANT FUNCTIONALITIES:

- ▶ Credit Card Terminal can be connected
- ▶ Fee display can be connected
- ▶ Transponder reader can be connected
- ▶ The system diagram is available
- ▶ A series of different products can be configured/created
- ▶ Discount tickets
- ▶ Can be installed on the server

XWEBPOS:

The Xwebpos is our renewed web-based manual cashier and will replace the Xwebcashier. It works like the standard POS. It can be enabled as a module on the Xparc server and can then be accessed from any device with an internet browser, when on the same network as the server. Its licensing fee is per concurrent user.

IMPORTANT FUNCTIONALITIES:

- ▶ Web-based, so multiple people can log in on different devices at the same time with their own account
- ▶ No extra physical device
- ▶ Tickets can be scanned using an USB-connected wedge barcode scanner
- ▶ A series of different products can be configured/created
- ▶ Discount tickets
- ▶ Tickets can be converted from one contract into another
- ▶ Tickets can be searched
- ▶ Network receipt and ticket printer can be linked to the Xwebpos

MANUAL PAY STATION

05

MOBILE CASHIER:

The Mobile Cashier is an app running on a mobile device. This could be a mobile device which has a barcode scanner built-in, or just your own smartphone.

MOBILE DEVICES:

- ▶ Zebra Symbol TC55
- ▶ Honeywell EDA50
- ▶ Zebra iMZ220 (Receipt Printer)

The TC55 model has an extended battery life and is a bit more ruggedised than the EDA50. Both devices have a barcode scanner built-in and a camera, which can be used to scan the barcode on the tickets. They can connect over Bluetooth to Bluetooth (receipt) printer.

IMPORTANT FUNCTIONALITIES:

- ▶ Mobile solution. Every operator can have the app running on a mobile device which he is carrying.
- ▶ Receipts/tickets can be printed through a small Bluetooth printer.
- ▶ Can be used for Short Term entries and for Season Card entries.
- ▶ Ticket numbers can be entered manually or scanned with camera or barcode reader of the mobile device.



06 PAY ON FOOT MACHINE

The Xparc Pay On Foot (Automatic Pay Station) is the fastest and easiest way for customers to pay and exit. It eliminates long queues leading to improved customer satisfaction. The Xparc Pay Station provides 24-hour operation without the need for expensive cashiers. It is highly versatile, allowing for the use of coins, notes or cards and has a recycling facility for utilising coins for change in hoppers. It has a facility to accommodate multiple discounts, service or free tickets.

The full-featured pay machine of the Xparc system enables the car park to be operated 24/7 in a standalone manner without having any personnel present in the car park the whole day. With its black glass and aesthetically pleasing design, it can integrate easily with every architecture.

SPECIFICATIONS:

Computer	: Industrial PC (1.6GHz Pentium Processor)
Display	: One or two displays can be used (8.4" to meet DDA requirements) Integrated touch screen panel, multi-language *8.4" TFT (800x600, 400cd/m ²), LVDS *15" TFT (1024x768, 400cd/m ²), VGA
Ticket Reader	: Ticket mouth with a linear barcode scanner, motorised retraction (optional)
Receipt Printer	: Prints receipts, tickets, reports (endless roll)
All-In-One Validator	: Read, write, print, park, vault using fanfold ticket box (optional) No separate ticket reader or receipt printer
Credit Card	: Country-specific solutions, typically based on EMVII compliant terminals
Intercom	: VoIP-based module with speaker and microphone (optional)
CCTV	: Built-in covert surveillance IP-camera HD (optional)
Cash	: Recycles 4 coin values, reads banknotes in any direction Options: Dual currency, note recycling 1 or 2 additional note recycling hoppers
Memory	: 1GB IDE Flash Module
Network	: Standard TCP/IP
Season Cards	: Mifare (ISO14443A) card reader (optional) Optional multi-format reader
Case	: Stainless steel (3mm), powder coating RAL9005/9006 & safety glass Lock: standard or dual (security lock)
Main Power	: 100-240 VAC ± 10%, 50/60 Hz
Consumption	: 200W (300W with optional heater)
Ambient*	: -10°C (-25°C with heater) ~ +55°C 10~90% RH (non-condensing)
Net Weight**	: 180 kg
Dimensions	: 1707 (H) x 602 (W) x 433 (D) mm 1941 (H) with illuminated top (optional)
Approvals	: CE, RoHS, WEEE



*The pay station is designed for indoor use.

Contact us in case of more severe requirements.

**approximate and dependent on optional choices.

SERVERS 07

STANDARD SYSTEM - *management desktop server:*

- ◆ 19.5" monitor P2014H, mouse and keyboard
- ◆ Amano-Linux operating system
- ◆ Car park server for central data management within a car park
- ◆ ISDN controller or modem for remote management (optional)
- ◆ 100BaseT Ethernet interface
- ◆ Base system configuration supports up to 15 field units

Desktop Versions:

-15 field devices T130 Dell PowerEdge Tower:

- ▶ Processor: Intel Core i3
- ▶ Memory: 4 GB UDIMM, 2133MT/s, ECC
- ▶ Hard Disk: 1TB 7.2K RPM SATA
- ▶ No RAID with Embedded SATA
- ▶ iDRAC8, Basic
- ▶ Optical drive: 16X DVD+/- RW ROM

+15 field devices T330 Dell PowerEdge Tower:

- ▶ Intel® Xeon® E3-1220 v5 3.0GHz, 8M cache
- ▶ 3.5" Chassis with up to 4 Hot-Plug Hard Drives
- ▶ C9 RAID 5, H330/H730 for SAS/SATA
- ▶ PERC H730 Integrated RAID Controller
- ▶ 8 GB UDIMM, 2400MT/s, ECC
- ▶ 4x 1TB 7.2K RPM SATA 6Gbps 3.5" Hot-plug HD
- ▶ DVD+/-RW SATA internal
- ▶ Single cabled power supply 350W

RACK SYSTEM - *for central data management within the car park:*

- ◆ 19.5" monitor P2014H, mouse and keyboard
- ◆ Standard 1U form factor
- ◆ ISDN controller or modem for remote management (optional)
- ◆ 100BaseT Ethernet interface
- ◆ Base system configuration supports up to 15 field units

Rack Versions:

-15 field devices R230 Dell PowerEdge Rack:

- ▶ Intel® Xeon® E3-1220 v5 3.0GHz, 8M cache, 4C/4T, turbo (80W)
- ▶ Chassis with up to 2, 3.5" Cabled Hard Drives
- ▶ C8K - RAID 1, EmbCntrl/H330/H730 for SAS/SATA, Cabled Chassis (min 2, max 2)
- ▶ PERC H330 integrated RAID controller for cabled chassis
- ▶ 8GB (1x8GB) 2400MT/s DDR4 ECC UDIMM
- ▶ 2X 1TB 7.2K RPM SATA 6Gbps 3.5" Cabled Hard Drive
- ▶ DVD+/-RW, SATA, Internal, for Cabled Chassis
- ▶ ReadyRails™ Static Rails for 2/4-post Racks

+15 field devices R330 Dell PowerEdge Tower:

- ▶ Intel® Xeon® E3-1220 v5 3.0GHz, 8M cache
- ▶ 3.5" Chassis with up to 4 Hot-Plug Hard Drives
- ▶ C9 RAID 5, H330/H730 for SAS/SATA
- ▶ PERC H730 Integrated RAID Controller
- ▶ 8GB UDIMM, 2133MT/s, ECC
- ▶ 4x 1TB 7.2K RPM SATA 6Gbps 3.5" Hot-plug HD
- ▶ DVD+/-RW SATA internal
- ▶ Single cabled power supply 350W
- ▶ ReadyRails Sliding Rails with Cable Management Arm



MOBILE APPLICATIONS

01 | E TICKET

MOBILE, JUST LIKE YOUR CUSTOMERS

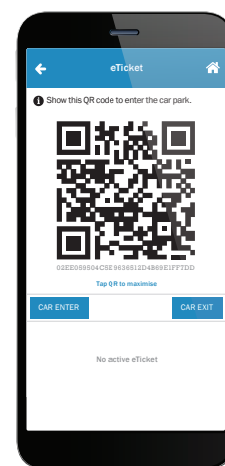
Replace the traditional, printed parking tickets by a digital alternative, and save money while saving nature. Besides, cash-handling costs can be significantly reduced and less hardware and maintenance will be needed. All of these small improvements result in a major benefit to global society.

SAVE NATURE & MONEY

Save considerably on operators costs with the eTicket application, and improve the overall parking experience for the end-users at the same time. After a one-off registration, users can enter and exit the parking lot by means of a personal QR code, scanned at every device. Let end-users skip the wait at the payment terminal, as paying their parking spot using the in-app payment option has become ever more simple. The Amano Cloud server makes sure all of these operations can happen with the highest possible degree of data security.

BETTER INSIGHTS, MAXIMAL ROI

Like all other Amano solutions, eTicket is equipped with automated, hands-on reports which can be fully configured to the individual needs of the parking operator. Also the end-user stays informed, facilitating the transfer of costs to his employer, for example.



02 | E RESERVATION

MOBILE, JUST LIKE YOUR CUSTOMERS

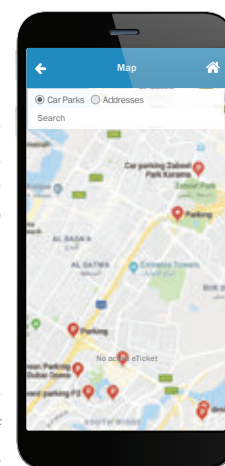
The Xparc eReservation app allows users to find, reserve and pay for their parking spot using their smartphone. After a one-off credit card registration, they get immediate access to an extensive list of available parking. For every parking, the period of availability and price are clearly shown. Once a parking spot has been reserved, users can pay for it directly in the app using PCI-compliant credit card payment methods.

OPTIMISE YOUR PARKING REVENUE

Use the app to increase loyalty by guaranteeing the customer that a free parking spot will be available for them. Moreover, accelerate the cash flow since payment upon reservation is not only possible, but can even entitle the user to a discount. Gain better insights into the occupation level of the parking and the required amount of human and material resources to guarantee the best possible parking experience at all times.

EXTRAORDINARY SERVICES

Benefit from real-time information and extraordinary support throughout the entire customer life cycle, as a result of the Amano Cloud server that hosts the Astrow Mobility app. On top of the default data gathering and automated reports, we offer additional managed services for all configurations after the initial setup.



MOBILE APPLICATIONS

03 | SCAN&PAY

CONVENIENCE IN EVERY CAR PARK

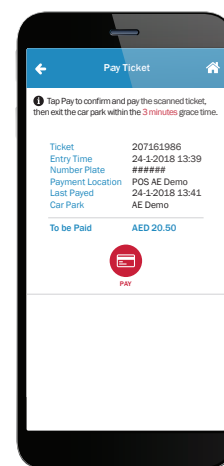
Improve the end-user parking experience in less up-to-date car parks by offering the Scan&Pay app, and make customers feel as if it they were in the latest parking thanks to a fresh, up-to-date user experience. The printed ticket they receive while entering the parking is scanned and paid for in the app directly. Not only will this help save time, but it also allows to save considerably on recurring costs like cash-handling, maintenance, and so on. An increased use of the app will lead to less congestion at the pay station and reduced hardware costs.

SERVICE-MINDED

Customers benefit from real-time information and extraordinary support throughout the entire customer lifecycle. On top of the default data gathering and automated reporting, we offer additional managed services contracts giving you the time to focus on other core activities.

LOW-COST CLOUD

Reduce start-up costs significantly by having Astrow Mobility hosted on the Amano Cloud server. Moreover, you benefit from the highest degree of data security and regular software updates that are being automatically installed free of charge.



04 | SHOP&GO

DESIGNED FOR CONVENIENCE

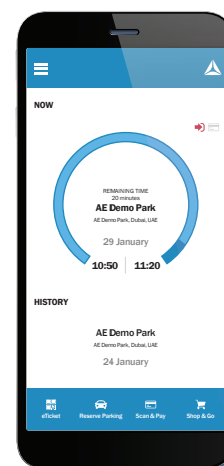
Shop&Go helps cities boost the local economy by keeping parking spaces available to those actually visiting local retailers. After entering the parking, users are granted a certain amount of grace time which they can use to go shopping. This period of time can be extended by having a personal QR code on their smartphones scanned at participating retailers. Drivers not using the app can do the same by entering their license plate. App users also benefit from additional functionalities like real-time notifications, in-app directions, and so on.

FRICTIONLESS PARKING TECHNOLOGY

Shop&Go relies on ANPR technology for registering cars driving in and out of the parking lot. This removes the need to install any additional hardware and guarantees a quick return on investment for our customers. An additional advantage is that the overall level of security will considerably increase as every car gets automatically identified.

SERVICE-MINDED

Clients benefit from real-time information and extraordinary support throughout the entire customer life cycle. On top of the default data gathering and automated reporting, we offer additional managed services contracts for all configurations after the initial setup.





AFTER SALES SERVICE

09

AVOID HURDLES IN THE PATH OF SUCCESSFUL DAY-TO-DAY CAR PARK OPERATIONS

A property that provides a good parking experience will command customer loyalty which will result in repeat visits, and drive our client's success. Keeping this in mind, Secure Parking created its dedicated After Sales Services to maximise the value and potential of our client's car park asset.

Headed by a team of customer service executives and well-trained engineers, our after sales service helps minimise any downtime (or preferably eliminate) and enhance operational efficiency. Our focus is on predictive maintenance – proactively repairing equipment before it fails. We also take charge of your installations remotely through our Central Command Centre, which allows for better responsiveness.

Secure Parking ensures its superior service through:

- ▶ Regular scheduled preventive maintenance services for each car park
- ▶ A high level of technical support round the clock
- ▶ Provision of parts & labour by service agreements designed to meet client's business objectives
- ▶ Highly competent and trained workforce to handle service requirements

The high quality of our After Sales service is guaranteed through product specific training to technicians. Our technicians are skilled to efficiently deal with any challenging service requirements of Parking Management system.

At Secure Parking, we believe customer satisfaction and loyalty are the ultimate measures of our success. Through our robust aftersales services, we are confident of winning your trust.



Exclusively distributed by



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