CirPark
SOLUTIONS FOR EFFICIENT PARKING
Product Catalogue 2020
# Solutions for Efficient Parking

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**CirPark Platform**

The CirPark Platform manages all CirPark solutions from one site. It is a powerful solution that integrates iPark, LEDPark and EVPark systems. A platform made of CirPark Scada software and third party integration. It is a multi-platform and mobile-oriented software infrastructure. Unique platform for the complete Efficient Parking.

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**iPark**

Intelligent Parking Guidance System including Single Space Detection and/or Area & Level Counting, and Car Finding Solutions for Indoor and Outdoor Parkings.

**LEDPark**

Efficient Led Lighting System with Low Consumption including Lighting Regulation and Energy Monitoring System (EMS) for Parkings.

**EVPark**

Electric Vehicle Charging System for Indoor and Outdoor Parkings.

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**LEDPark**

- Guideline System
- Counting System
- Find Your Car

**EVPark**

- Electric vehicle chargers
- OCPP
- OCPP
- DLM
- Parking Management System integration
- Charge Point Operator integration
CirPark Platform

The CirPark Platform manages all CirPark Solutions from one site. It is a powerful solution that integrates iPark, LEDPark and EVPark systems. A Platform made of CirPark Scada software and third party integration. It is a multi-platform and mobile-oriented software infrastructure. Unique Platform for the complete Efficient Parking.

CirPark Platform

LOCAL PLATFORM

CirPark Scada Software

Cloud API

XML API

Application Protocol Interface open for integrators.

CirCloud

Server Platform

Cloud API

API for integrators/operators

CirMobile

Mobile Application for Android/iOS it consumes Cloud API
CirPark Dynamic Software offers a real-time management of all Efficient Parking products which are iPark (counting, indoor/outdoor guidance and vehicle localization), LEDPark (regulated lighting control and energy efficiency) and EVPark (control of electric vehicle charging equipments).

CirPark Scada Software

CirPark Scada Software allows real-time management of all Cirpark products:

**iPark**: counting, indoor/outdoor guidance and vehicle location.

**LEDPark**: regulated lighting control and energy efficiency.

**EVPark**: control of electric vehicle charging equipments.

It allows controlling the occupation, introducing a map of the installation, and creating visualization screens of the occupancy, crossing zones, statistics, reports and logic of operation and alarms.

Multiclient and cross-platform software. Connection via multiplatform web browser or through Windows O.S. program. Integration via XML API, Mail server and RSS. Monitoring of IP cameras. Integration and monitoring of third party system using API. License for unlimited number of parking spaces.
Nowadays cloud technologies offer a wide range of opportunities to access and manage your data anywhere you are.

CirCloud & CirMobile

With CirCloud Platform you can access and manage data received from all car parks that use Circontrol technology.

You can also share this information and make it available worldwide downloading CirMobile app (available for Android and iOS). With this app your potential customers will be able to see available spaces whether they are regular ones, handicapped or EVCharge and be guided to them.

Download CirMobile now and increase your parking visibility worldwide!
iPark is one of the most impressive and long-lasting systems on the market for Guidance, Find Your Car and Counting Systems. Integrated within the CirPark Platform, it becomes a powerful management tool that optimises the traffic in car parks and provides user satisfaction, giving them the information they need, when they need it. Operators, on the other hand, have an excellent tool to gain the loyalty of their customers, optimise traffic and occupancy, and reduce maintenance and operation.

Guidance System
Indoor/Outdoor Dynamic Guidance system that manages the user information in order to optimise the occupancy and traffic of the parking facilities. Ultimate technology sensors and panels, plug&play and long-lasting. Worldwide product range oriented.

Counting System
Level & Area counting system with full range of detectors and panel display information for Indoor & Outdoor parking facilities.

Find Your Car
Powerful system able to provide car-finding solutions based on License Plate Recognition within lanes or in each parking space, offering users the location and route to their own car via the user application.
iPark

Guidance system

Optimises traffic in car parks and provides user satisfaction by giving them the information they need.

Owner Benefits
- Customer Loyalty and Car Park reputation.
- Efficient Traffic and Occupancy management.
- Operational and Maintenance Reduction costs.
- Full remote control system with auto-pilot operability.
- Completely customizable Reports, RealTime Screens and HeatMaps.
- Manage Guidance, Illumination & EVChargers from one site.

Customer Benefits
- Less time spent on locating free parking spaces.
- Less stress and increased ease of parking.
- Easy location of Handicapped, EVCharge & Reserved places.

Sensors
- Centre Bay Sensor
  - INDOOR
- Front End Bay Sensor
  - INDOOR

Displays
- VMS Range
  - INDOOR
- RGB Range
  - INDOOR / OUTDOOR
- High Luminosity Range
  - OUTDOOR

Control
- Controller
  - INDOOR / OUTDOOR
- License
  - INDOOR / OUTDOOR

Accessories
- Wiring
  - INDOOR
- Fixing Elements
  - INDOOR

Owner

Customer
**Front End Sensors**

**TRILOGY 460315**


**BILOGY 460313**


**SP3-RG 460128**


**SP3-RB 460129**


**Centre of Bay Sensor+Indicator**

**SP3 460327**


**Indicators**

**PP1-RG 460131**


**PP1-RB 460132**

**DX2-VMS-6**

Indoor display to indicate free spaces and direction. Matrix LED BiColor - Alphanumeric. 6 digits + Cross/Arrow. 10 arrow positions. Swap the position of the digits and arrow. Functions like reverse digits, avoid zeros and show FULL. Power supply: 24-48 Vdc. Consumption: 4.2 W. Dimensions: 404 x 165.23 x 39 mm.

**DX2-VMS-4**

Indoor display to indicate free spaces and direction. Matrix LED BiColor - Alphanumeric. 4 digits + Cross/Arrow. 10 arrow positions. Swap the position of the digits and arrow. Functions like reverse digits, avoid zeros and show FULL. Brightness intensity adjustable by software. Power supply: 24-48 Vdc. Consumption: 5.8 W. Dimensions: 404 x 165.23 x 39 mm.

**DX2-RGB**


**DX4-RGB-CUSTOM**

High Luminosity

**OD.11**
Outdoor display, indicating the number of parking spaces available, high-luminosity red LED. Digit height: 110 mm. IP54. Luminosity control via software. Communication: RS485. Input power: 230 VAC.

**D2-OD.11**
460245
Outdoor display 2 digits. 335mm x 209mm x 70mm. 10W.

**D3-OD.11**
460232
Outdoor display 3 digits. 514mm x 290mm x 70mm. 35W.

**D4-OD.11**
460248
Outdoor display 4 digits. 584mm x 290mm x 70mm. 45W.

**OD.20**
Outdoor display, indicating the number of parking spaces available, high-luminosity red LED. Digit height: 200 mm. IP54. Luminosity control via software. Communication: RS485. Input power: 230 VAC.

**D2-OD.20**
460247
Outdoor display 2 digits. 514mm x 290mm x 70mm. 25W.

**D3-OD.20**
460232
Outdoor display 3 digits. 514mm x 290mm x 70mm. 35W.

**D4-OD.20**
460248
Outdoor display 4 digits. 584mm x 290mm x 70mm. 45W.

**OD.30**
Outdoor display, indicating the number of parking spaces available, high-luminosity red LED. Digit height: 300 mm. IP54. Luminosity control via software. Communication: RS485. Input power: 230 VAC.

**D2-OD.30**
460242
Outdoor display 2 digits. 676mm x 381mm x 70mm. 25W.

**D3-OD.30**
460243
Outdoor display 3 digits. 676mm x 381mm. 37W.

**D4-OD.30**
460244
Outdoor display 4 digits. 676mm x 381mm x 70mm. 48W.

RGB
**D93-RGB-O**
460666-O

Display Spaces / Full
460039-EN/ES/FR/CAT

Dimensions: 700 × 250 × 100mm

English 46008-EN
Spanish 46008-ES
French 46008-FR
Catalan 46008-CAT

Panel Parking'

with Spaces / Full display
460037-EN/ES/FR/CAT
Panel Parking 'Y' with OPEN/CLOSED display. Structured metal 2 x 2 mm aluminium plate. Folded and welded, painted in textured black epoxy. Backlight by LED. Dimensions: 404mm x 404mm x 130mm. Available in 4 languages: English (SPACES/FULL), French (LIBRE/COMPLET) and Catalan (LLIURE/COMPLET). 5mm front antivandal polycarbonate with translucent vinyl labelling. Window with display visualization and solar protection film.

English 46007-EN
Spanish 46007-ES
French 46007-FR
Catalan 46007-CAT

Panel Parking'

Panel with information about the capacity of the car park, per floor or overall. 2-3-4 digit displays. Advanced, Basic and Outdoor Displays. Communication RS-485. Digit colour: RGB. Brightness intensity adjustable by software.
Gateways & Controllers

TCP3RS

TCP3RS

Software Licenses

CirPark Scada
Car park management Scada software. Full version.

CirPark Scada Software 1000 Bays
Car park management Scada software. Limited to 1000 parking spaces.

CirPark Scada Software LT
Car park management Scada software. Limited to parkings with no Single Bay Sensor Guidance.

Servers


PK-CPU-ES
Spanish version 460310

PK-CPU-EN
English version 460311

CONCPARK
Car park concentrator to manage autonomously iPark systems with a 500 bay capacity parking. LEDPark lighting and energy efficiency systems and EVPark charge stations for electrical vehicles. It includes an embedded CirPark Scada Engine. Power with 250Vca.

ECCUPARK
Parking Convector, with Management and Information storage capacity. Control of equipment thought line 485 for Park counting systems. LEDPark lighting and energy efficiency systems as well as EVPark charging stations. Perfect device for automation purposes. Incorporate a CirPark Scada embedded limited distribution. It has 8 digital inputs and 6 relay outputs. 10BaseT / 100Base TX. Ethernet Port. 230 Vac power supply. Informative Display with touch buttons. 3G connection with SIM (not included).

Accessories

PK-TFT
TFT 22” Wide Screen with high resolution.

PK-SWITCH 8P
Gigabit Switch 8 ports 10/100/1000 Mbps 460204

PK-SWITCH 16P
Gigabit Switch 16 ports 10/100/1000 Mbps 460205

PSC-240-24

PSC-480-48
Sturdy clip for securing the SP series sensors and indicator lights. For clamping in metal tray or pk-socket accessory. 1000 pcs bag.

PK-CLIP-1K

460161

PK-SOCKET BI

Biology/Trilogy

Polycarbonate socket for Biology and Trilogy pipe installations. 25-mm tube for connecting sensors and 20-mm tube for connecting the light indicator sensor.

PK-SOCKET

460159

Polycarbonate socket for SP3 and DPU pipe installations, 25-mm tube for connecting sensors and 20-mm tube for connecting the light indicator sensor.

PK-TP94

460077

Black plastic accessory for mounting the space indicator PPx.

PK-CF256

460071

Blind aluminium tray, 48 mm wide and 2.45 m long.

PK-CF267

460071

Blind aluminium tray, 48 mm wide and 0.5 m long.

PK-CP107T

460071

Galvanized-steel tray cover. External clip subjection. Openings to introduce the equipment cables inside the tray. 50cm long. Used for the Front End sensors biology or trilogy.

PK-CP67

460071

Galvanized-steel tray cover. External clip subjection. Openings to introduce the equipment cables inside the tray. 250 cm long. Used for the Front End sensors biology or trilogy.

PK-CP245

460170

Blind aluminium tray, 48 mm wide and 2.45 m long.

PK-CP50T

460686

Galvanized-steel accessory to cover the tray. External clip subjection. Openings to introduce the equipment cables inside the tray. 50cm long.

PK-C

460174

Galvanized-steel accessory at a 90º angle.

PK-TSS

460172

T-shaped galvanized-steel accessory to install the SP sensor series.

PK-ESS

460179

Galvanized-steel accessory to install the SP sensor series. Used at the end of a tray line.

C-SS4-T

460152

3-m halogen-free hose-cable, to connect sensors of SP series, Biology or Trilogy. 2 x 1.5 mm² power cable + 2 x 0.34 mm² twisted and shielded cable for the RS-485 bus. *Other lengths available under request

C-LH3

460115

3-m halogen-free hose-cable, to connect sensors of SP. Biology or Trilogy. 2 x 1.5 mm² power cable + 2 x 0.34 mm² twisted and shielded cable for the RS-485 bus. *Other lengths available under request

C-DD40-P

460293

40cm halogen-free hose-cable, to connect displays internally inside Panel parking. 2 x 1.5 mm² power cable + 2 x 0.34 mm² twisted and shielded cable for the RS-485 bus.

C-LL5

460155

100-m halogen-free hose-cable, extending the row of devices. 2 x 1.5 mm² power cable + 2 x 0.34 mm² twisted and shielded cable for the RS-485 bus.

C-DOO-D

460359

305-m UTP communication cable, category 5. Unshielded cable, four twisted pairs (WG28).
iPark

Counting system

Level & Area counting system with full range of detectors and information panels for Indoor & Outdoor parking facilities.

This system offers 3 different types of detection to control the access into different areas with reduced equipment and high levels of accuracy.

It includes Autonomous Control Units to automatize the counting and control of any area. This is possible with embedded CirPark Scada that makes this system smart.

**Detectors**

- **Inductive Loop Detectors**
  - Indoor/Outdoor

- **Photocell crossing-zone Detectors**
  - Indoor/Outdoor

- **Ultrasonic crossing-zone Detectors**
  - Indoor/Outdoor

**Displays**

- **VMS Range**
  - Indoor/Outdoor

- **RGB Range**
  - Indoor/Outdoor

- **Panel Parking**
  - Outdoor

- **High Luminosity Range**
  - Outdoor

**Control**

- **Control Unit for crossing-zone detectors**
  - Indoor/Outdoor

- **Controller**
  - Indoor/Outdoor

- **Server**
  - Indoor/Outdoor

- **License**
  - Indoor/Outdoor

- **Converter**
  - Indoor/Outdoor

- **TCP3RS Concentrator**

- **TCP3RS Concentrator**
Detectors

- **MR4/dp-48**
  - 460804

- **DPF**
  - 460114

- **DPU**
  - 460133

- **LC-720**
  - 460503
  - Infrared detector, 90º wall, 1000 W load, 12 m, for pedestrian detection and intelligent management of lighting systems. Input power: 220 V AC.

- **PK-LOOPKIT**
  - 460822
  - Asphalt mat with an integrated inductive loop, prepared for a non-intrusive, easy and fast installation, without needing of drilling the parking surface while preserving its integrity and sealing. It provides a higher detection height in comparison to a traditional inductive loop as well as a vertical only detection field.

Panel Parking

- **TCP3RS**
  - 460803

- **ECCUPARK**
  - 460809
  - Embedded CirPark Control Unit working as a Parking Concentrator, with Management and Information storage capacity. Control of equipment through bus 485 for Park counting systems, LEDPark lighting and energy efficiency systems as well as EVPark charging stations. Perfect device for automation purposes. Incorporates a CirPark Scada embedded limited distribution. It has 8 digital inputs and 6 relay outputs. 10BaseT / 100Base TX Ethernet Port. 230 Vac power supply. Informative Display with touch buttons. 3G connection with SIM (not included).

- **CONEC-PARK**
  - 460199
  - CarPark concentrator to manage autonomously iPark systems with a 500 bay capacity parking, LEDPark lighting and energy efficiency systems and evPark charge stations for electrical vehicles. It includes an embedded CirPark Scada Engine. Power with 230Vca.
Find Your Car

Powerful system able to provide car-finding solutions based on QR Code or License Plate Recognition within lanes or in each parking space, offering users the location and route to their own car via the user application.

Features

License Plate Recognition by lane or within defined zones in small parkings to facilitate user’s car location.

Car Recognition within each special parking space, such as EV charging spaces or reserved VIP bays.

Combining Find Your Car with CirPark Guidance System provides a car location service with great reliability.
Cameras

FYC-3BAYCAM 460711
Dome Camera with autozoom 2.8-12mm and vandalproof for LPR each 3 parking spaces. 3MP resolution (H.264/H.265). IR cut filter with 30m range. External POE included. HD lens 1/2.9" SONY sensor CMOS low illumination. It works with FYC-MIDYELPR license.

FYC-LANECAM V 460703
Bullet Camera with autozoom 2.8-12mm and vandalproof for LPR by zone. 3MP resolution (H.264/H.265). IR cut filter with 60m range. External POE included. HD lens 1/2.9" SONY sensor CMOS low illumination. It works with FYC-FREEFLOW-1Z license.

Terminal

FYC-KIOSK 460722
FYC Kiosk, User Interface for Find Your Car system made with galvanic iron. 22" panoramic touch screen. 220Vca/100W power and Ethernet output.

Control

SWITCHBOX POE 440730
Ethernet Signal Concentrator for a maximum group of 21 bays with 3BAYCAM LPR cameras. Includes an industrial POE switch for the group of cameras.

Software

FYC-SERVER

Standard 460701-1
Deluxe 460702-2
Server for FYC image processing in static mode (FYC-LIC-IMAGELPR max 1000 bays) or used for as the platform for FYC software (FYC SOFTWARE). Includes License Plate Recognition Program. Minimum requirements: 4 cores equipment with i7 CPU or higher, 8GB RAM memory, 500GB HD and Windows 10 Pro.

Specification of the FYC-SERVER will be according to the number of zones/levels in FreeFlow mode or the number of PK Spaces in Static Mode.

FYC-FREEFLOW-1Z LICENSE 460751-1
License Plate Recognition for 1 detection zone.

FYC-IMAGELPR LICENSE 460750-2
License Plate Recognition for parking space.
Regulated LED Light system with LED technology, integrated with parking guidance and managed accordingly with real-time occupancy and pedestrian movements. Consumption reduction via Energy Efficiency management. Installation and Maintenance cost reduction thanks to its low power consumption and long-lasting equipment.

**LED Park**

Regulated LED Light equipment with low power consumption. Integrated into CirPark Platform for a full automatic and unattended control.

**Energy Efficiency**

Consumption and Energy control with integrated management into CirPark Platform for eco-friendly LEED certification.

Owner **Benefits**

Real parking data obtained by Official Laboratory

Less than 3 years of Return on Investment, giving high levels of illumination and reducing energy and maintenance costs.
**Lighting Modules**

**BL-PARK-S**
- LED module, regulated, of the LED-park system.
- Maximum Consumption: 4W.
- Anchor bracket in iPark tray and built-in cooling plate. Connection via cable with connector.

**DL-PARK-2**
- Power Driver for LED Lighting Control Management.
- Capacity 3 BL-PARK-S, with an output power of 3W per BL-PARK-S. 3 cable input connection from Power supply 48Vdc and regulation from CL-PARK-2.

**PK-ENERGY KIT**
- Car park energy management kit.
- Can be used to manage and control the energy consumption of the car park.
- Kit made up of one CVM-MINI grid analyser + one three-phase measurement transformer. For new electrical cabinets installation.

**PK-ENERGY KIT-2**
- Car park energy management kit.
- Can be used to manage and control the energy consumption of the car park.
- Kit made up of one CVM-MINI grid analyser + one three-phase measurement transformer. For existing electrical cabinets, due to its easy placement thanks to the new teroidal clip.

**Lighting Control**

**TCP3RS**
- Industrial RS-485 to TCP/IP Ethernet communication converter.
- RS-232/RS-485 opto-isolated port. Input power 220 V AC. Consumption 2 VA (max)

**CL-PARK-2**
- Header controller of the LEDPark.
- Power control over voltage regulation 0-10V.
- RS485 output for communication.
- CPRAPRK Software. One module per power supply and for control of up to 30 DL-PARK series drivers.

**PK-ENERGY KIT-2**
- Car park energy management kit.
- Can be used to manage and control the energy consumption of the car park.
- Kit made up of one CVM-MINI grid analyser + one three-phase measurement transformer. For existing electrical cabinets, due to its easy placement thanks to the new teroidal clip.

**PSC-480-48**
- Switched power supply. Input power: 230 V AC.
- Output voltage: 48 V DC. Power 480 W (max).

**KIT-PK-SAI-LED**
- Super Long Life UPS module Ni-MAH (nickel-metal hydride).
- Includes PSC-57 constant current source and switching relay. Rated output voltage 43.2V. Constant current load. Capacity for 400W charging load, equivalent to 1 hour of uninterrupted illumination with the LEDPark system. Extended Temperature Range. It allows communication with SCADA Software for battery status awareness.
CB-PARK 60
460605
60 cm wiring unit.

CB-PARK 80
460605A
80 cm wiring unit.

CB-PARK 150
460605A
150 cm wiring unit.

CB-PARK 210
460605A
210 cm wiring unit.

CB-PARK 500
460613A
500 cm wiring unit.

CB-PARK 750
460615
750 cm wiring unit.

C-BL
460607
100-m Halogen-free power and control-signal wiring for the DL-PARK systems installed: 2 x 6 mm² + 1 x 0.34 mm².

C-LH4
460117
100-m halogen-free hose-cable extending the row of devices. 2 x 1.5 mm² power cable + 2 x 0.34 mm² twisted and shielded cable for the RS-485 bus.

PK-CP245
460170
Blind aluminium tray, 48 mm wide and 2.45 m long.

PK-TSS
460007
T-shaped galvanised-steel accessory to install the SP sensor series.

PK-T
460007
T-shaped galvanised-steel accessory without holes, to install the biology or trilogy in the LEDPark system.

PK-E
460017
Galvanised-steel accessory for joining trays.

C-LH6
460017
100-m halogen-free hose-cable extending the row of devices: 2 x 1.5 mm² power cable + 2 x 0.34 mm² twisted and shielded cable for the RS-485 bus.
EV Park is Circontrol’s solution for Electric Vehicle (EV) charging in indoor and outdoor parking facilities.

EV Park offers a wide range of EV chargers; wall/ground mount, slow/quick charging, and single/double socket. For indoor/outdoor facilities.

The Dynamic Load Management (DLM) system can be integrated with CirPark Platform, offering the most complete solution currently available on the market. DLM system ensures that only the available power of the installation is used, thus maximising its efficiency and avoiding the high cost of its power upgrading.

To ensure a friendly operation of the chargers by the users and a profitable business model for the parking operator, EVPark solutions use OCPP (Open Charge Point Protocol), widely extended in the Electro-Mobility business.

A complete procedure solution provided to Parking Management Systems manufacturers to integrate EV Charge Points into their own payment system.

Charging in indoor and outdoor parking facilities

Electrical vehicle chargers

OCPP

DLM

Charge Point integrated with PMS
**EV Charge Stations Indoor**

**WallBox Evolve Smart S / T**
- WVS0006411 (S)
- WVS0006413 (T)

**WallBox Smart WB2M-SMART-TRI**
- WBS00054B3

**Indoor EV Charger with:**
- Double Type2 socket
- Single phase (S) / Three phase (T)
- 2x32A max load in 2 x 22 kW output format (T)
- Mode 3 Charging

**EV Charge Stations Outdoor**

**Post eVolve smart T**
- PV5000641T

**Post eVolve smart S**
- PV5000641S

**Post eVolve smart TM4**
- PV5000648B

**Outdoor Charge Point for Electrical Vehicles with:**
- Three phase connection
- 2 x (32A Type2) sockets

**Charge Point Integration**

**Without DLM (Dynamic Load Management)**
- Main Supply Overload

**With DLM (Dynamic Load Management)**
- Main Supply protected

**DLM (Dynamic Load Management)**

**OCPP Integration**

**Interface protocol:** OCPP 1.2, 1.5. **Enclosure rating:** IP54/IK10. **Enclosure material:** Aluminium 5, ABS. **Operating temperature:** -5 to +45°C. **Dimensions:** 450mmx290mmx1550mm. **RFID Reader:** ISO/IEC14443A/B, MIFARE classic/DESFire EV1. **Certification:** ISO 18092/ECMA-340.