



systems

URBACO 

enhancing and controlling the spaces of life

Enhancing and controlling the spaces of life

Since its creation, Urbaco, inventor of the retractable bollard, has created more than sixty models of bollards to meet the aesthetic, technical, and security needs of its customers. Urbaco has also created and installed numerous control systems linking bollards, controllers, technical centers, electronic detectors, software and more.

This is why customers find their solution at Urbaco. Urbaco customers can be found worldwide. They range from private residents who want to limit access to their property, to merchants and corporations who want protection for their offices, store fronts or warehouses, to city planners who want to improve the quality of life by responding to mobility and security needs by installing anti-intrusion systems.

Urbaco, the pioneer and leader in bollard systems, uses its quality, knowledge and experience to provide superior customer service.

This dedication to service is an integral part of the Urbaco mission. Urbaco is the ideal choice to assist you in defining, researching, managing, perfecting and completing all of your current and future projects.

Ollivier Verra
Chairman of the Board



The numerous patents and models registered by Urbaco throughout the world show the creativity and inventiveness of the company. All our creations are tested and certified conforming to the existing standards (especially CEM) by independent and certified laboratories. Quality is a priority for Urbaco, and for that reason, we have launched a Quality Management Program in order to become an ISO 9001 version 2000 certified corporation.

Concerned about preserving the environment and quality of life, Urbaco has also taken the steps to have an Environmental Management Program in order to become an ISO 14001 certified corporation.

Attention:
Non-contractual photos.
Urbaco reserves the right to modify its line and its products. The models presented are patented or registered. Note that for cast products, specifications are subject to a $\pm 3\%$ tolerance.

This catalogue is not a price list. Its purpose is to help you choose your selection of Urbaco products and accessories. If you wish to finalize your order, contact the Export Sales department, by dialing: +33 490 480 800 (fax: +33 490 580 088), or for the nearest dealer in your area, visit our website at www.urbaco.com.

The models presented in this brochure are patented.

applications and solutions

For private property, to reserve a parking or unloading space, to control access to a company's campus, to manage pedestrian districts, to prevent intrusion and more.

The applications and solutions for Urbaco systems are varied and numerous, allowing Urbaco to have the exact solution to meet your needs.

products

Fixed, removable, manually retractable or fully automatic bollards are available to meet the aesthetic, technical, and security needs of our customers. These bollards may be used alone, in combination with Urbaco controllers, or with or without Urbaco centralized control systems. Whatever the application may be, Urbaco products and software solutions will meet your needs.

URBACO services

All Urbaco employees work to give you a global solution to meet your needs. Our services include everything from research to installation, and can also include after-sales service, maintenance and training to maintenance groups, individual users, distributors and retailers.

contents

Applications and solutions

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parking space reservation

REQUIREMENTS

Reserve parking spaces for a specified period of time.

APPLICATIONS

Parking spaces for the disabled, hospital doctors, professors, community officials, reserved delivery areas, armored truck deliveries.

SOLUTION

Equip the site with Urbaco retractable bollards, with or without fixed bollards:

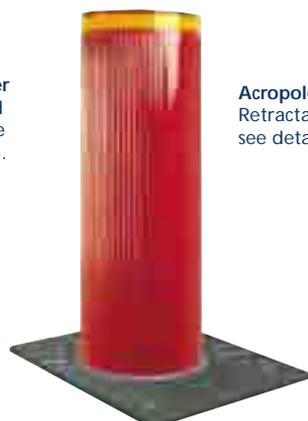
- Authorized personnel will activate the retractable bollards. The bollards will ensure that spaces are reserved, and will provide anti-theft security.
- The fixed bollards mark the site's perimeter and separate the parking spaces from each other.

control systems

Radio remote control is often used. This allows the access point to be opened without getting out of the vehicle. Including a push-button control system often enhances the system when used to reserve parking spaces, delivery spaces, or armored truck spaces. A third party user who has direct view to the site and to the arrival of vehicles authorizes entry and activates this system.



City 1 controller
Controllers and peripherals, see details page 14.



Acropole model
Retractable bollards, see details page 12.

APPLICATIONS AND SOLUTIONS



1 2 3

4

- 1/ Reserved access to a bank for armored van, Toulouse, France
- 2/ Reserved parking space
- 3/ Reserved unloading spaces
- 4/ Reserved parking space for the handicapped

access control

REQUIREMENTS

Restrict access to a controlled area to authorized vehicles only in order to reduce the risk of intrusion or theft.

APPLICATIONS

Executive parks, industrial parks, institutions, administrations, private residences and automobile dealerships.

SOLUTION

Equip the area with Urbaco retractable bollards. Only those with access rights will be able to the system.

control systems

Radio remote controls and keypads are more secure for this application and are generally used. The system can be enhanced by adding an intercom system. This allows communication with a resident in the protected area who has the ability to open the access remotely. Adding a timer allows the area to be accessible during specific times. In high security areas, such as large corporations, we advise that a badge reader system be installed. This system allows the company to identify those who enter and exit and allows access to groups at specific times as programmed.



City 3 controller
Controllers and peripherals, see details page 14.



Chateauneuf bollard
Retractable bollards, see details page 12.

APPLICATIONS AND SOLUTIONS



1 2 3

4

- 1/ Controlled access to residential area
- 2/ Reserved access for fire trucks, Carrefour, France
- 3/ Reserved access for deliveries, Auchan, France
- 4/ Access control on a university campus

pedestrian district management and urban flow regulation

REQUIREMENTS

Preserve the comfort and quality of urban life with designated zones (pedestrian districts, historical areas, parks, etc.), without jeopardizing beauty. Preserve fluid traffic flow and pedestrian safety. Allow access to authorized vehicles (residents, municipal services, shop owners, delivery trucks, etc.). Simplify traffic and decongest certain traffic areas (reserved lanes).

APPLICATIONS

Outside market areas, pedestrian zones, reserved lanes (buses, taxis), parks.

SOLUTION

Manage multiple accesses from a single control point using Urbaco retractable bollards. These access points can be independent and managed locally, or centralized. Position lights can be added to complete the system if desired.

control systems

Urbaco recommends badge readers for this application. Badges are distributed to individual users, or to groups of users such as residents or delivery companies. Badges are issued by access. An intercom or video surveillance system can be installed to allow occasional visitors access to the area. A timer can also be installed, if necessary, to open and close the access during specific times (for deliveries to merchants or to companies located in the protected area). To allow the police, fire department and ambulances to enter the area, this system can be equipped with a general opening or individual emergency feature. This can be done either remotely or on site.

When a transponder system is installed, reserved lanes for taxis and public transportation vehicles can be accessed automatically when the vehicle reaches the sensor.



City 5 controller
Controllers and peripherals, see details on 14



Athena model
Retractable Bollards, see details on page 12

APPLICATIONS AND SOLUTIONS



- 1
 - 2
 - 3
 - 4
- 5

1/ Pedestrian area, bollards and City 1 controller
 2/ Semi-pedestrian area, Chambéry, France
 3/ Entrance to historic center
 4/ City center in Annemasse, France, bollards and City 5 controller
 5/ Pedestrian area, Sydney, Australia

intrusion prevention systems

REQUIREMENTS

Protect high security areas, luxury stores, defense industries, as well as individuals that could be exposed to intruders or ram raiders.

APPLICATIONS

Luxury stores, galleries, industries, embassies, military bases, and international organizations.

SOLUTION

Manage the access and the immediate area with fixed bollards and high resistance retractable bollards using either a pneumatic or hydraulic system. The retractable bollard system can be used with an existing barrier or gate. The aesthetic appeal of Urbaco products is an added plus.

control systems

A push button or remote control system is generally used with this application. An authorized security officer is typically in charge of the push button system. For regular users, remote controls are used. This system can be enhanced with a video surveillance system or an intercom system. If barriers and gates are used with the bollards, one device can control both the bollards and the gate or barrier. This system may be completed with an alarm device that is activated in case of impact or if a vehicle approaches in front of the bollards.

High security bollard
Retractable bollards,
see details on page 12



APPLICATIONS AND SOLUTIONS



- 1
- 2
- 3
- 4

1/ Secured access to an administration complex
 2/ Sports complex, Lille, France
 3/ Grande Chancellerie, Paris, France
 4/ The Lodge : Governor's and Royal Family's residence, Canberra, Australia

Génération 6 bollards

WHY CHOOSE GENERATION 6 BOLLARDS?

- **Shock resistance**

Urbaco retractable bollards have a tested resistance of 2,400 to 15,000 joules (certificates available upon request), and can withstand the shock of a 7-ton truck at 50km/h (35 mph).

- **Endurance**

Urbaco retractable 6 bollards can endure more than 4,500,000 cycles without any difficulty (official certificate available upon request).

- **Corrosion-resistant surface finish**

Urbaco bollards are puttied, finely ground, and have a zinc coating (optional). The bollards are polyester powder-coated (total thickness of 100 to 120 microns).

- **Simplicity in installation, operation and maintenance**

Generation 6 bollards have simple mechanisms, and only 3 structural pieces.

- **Special equipment**

- Upper and lower limit switches
- Heaters for cold climate applications (optional)

- **Shock sensors**

- **Variety**

Urbaco bollards offer 5 different models, 3 diameters (120, 200, 250 mm / 5, 8, 10"), 2 heights (500 and 750 mm / 20 and 30"), 2 different versions: electro-pneumatic, electro-hydraulic (electro-mechanical version also possible), and ten standard colors. See color chart.



acropole model

chateauneuf model



athena model

MONOBLOC*

MONOBLOC*
an URBACO patent

NF
The Generation 6 bollard line
conforms to the French standard
NF P 98-310.

cylinder model



MONOBLOC®

vendôme model



Senat



Cylinder



high security models

SPECIFICATIONS

- Thickness of the steel walls: up to 20 mm / .8"
- Double cover increases shock resistance even in the upward position. A portion of the bollard remains held by the two covers that are more than 250 mm / 10" long.
- Hydraulic system: fluid cannot be compressed. More force is available for the head of the bollards, and for the speed of the lowering and rising of the bollard.

10 colors

- Black
- Blue
- Burgundy
- Brown
- Dark gray
- Kaki bronze green
- Marbled gray
- Metallic green
- Steel gray
- White
- Other colors on request

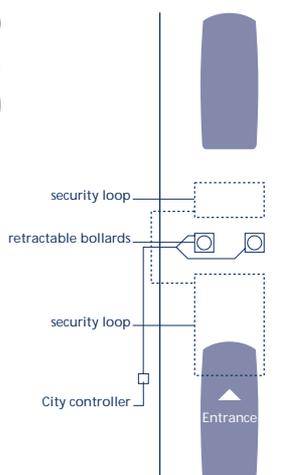


controllers *and peripherals*

AN ACCESS CONTROL SYSTEM

is composed of different materials linked together by electrical cables, fiber optics, and pneumatic or hydraulic flexible tubing:

- **one or more retractable bollards,**
- **a technical center** composed of:
 - a control device that receives commands from the user (by remote control, proximity card, push button, or keypad)
 - a programmable logic controller that manages the opening or closing of the access (depending on the configuration),
 - a compressor with an air distribution set, or a hydraulic unit / pump that furnishes the necessary power to operate the bollards
 - on optional, remote on-line technical supervision system (see pages 16 & 17)
- **a City controller,** placed near the access, can hold the user communication devices and house the technical center (according to its size)
- **one or several security loops** (electromagnetic detection) when placed in the ground before and after the bollard, indicate the presence or absence of vehicles. These electromagnetic loops are made of electric wires containing several twists. The loops act as the captor. The loops are pre-formed and ready-to-install. A plastic casing protects the wires. Exact installation parameters are of paramount importance for optimal detection and for the safety of all users.



CITY 0

SPECIFICATIONS

- Steel thickness 3mm / .1"
- Polyester powder paint
- Height 130 cm / 51.2"
- Equipment cover
- Polycarbonate face panel
- Access flap with lock that houses the emergency stop button
- Bolted base

POSSIBLE CONTROL FEATURES

- Position lights
- Keypad
- Analog intercom

This controller operates on a remote technical center.



CITY 1

SPECIFICATIONS

- Steel thickness: 6.5 mm / 1/4"
- Height: 140 cm / 55.1"
- Diameter: 19.5 cm / 7.7"
- Door with lock
- Flap door with lock that houses the emergency stop button
- Polycarbonate face panel (10 mm / .4" thickness)
- Galvanized steel base to be installed in cement
- Thermal and phonic insulation

POSSIBLE CONTROL FEATURES

- Keypad
- Position lights
- Analog intercom
- Proximity card readers

Consult us if you would like to combine several control features.

This controller operates on a remote technical center.

CITY 3*

City 3
Double sided version



SPECIFICATIONS

- Steel thickness: 6.5 mm / .25"
- Polyester powder paint
- Height 160 cm / 63"
- Diameter: 32.5 cm / 12.8"
- Door with lock
- Flap door with lock that houses the emergency stop button
- Polycarbonate face panel (10 mm / .4" thickness)
- LED displays in red and orange
- Galvanized steel base to be installed in cement

POSSIBLE CONTROL FEATURES

- Keypad
- Radio receiver
- Analog and digital intercom
- Proximity card reader
- Video

Consult us if you would like to combine several control features.

This controller can house a technical center.

CITY 5*

City 5 Pedestrian



SPECIFICATIONS

- Cast aluminum thickness 7 mm / .3"
- Polyester powder paint
- Height:
 - 140 cm / 55.1" – City 5 Drive-In
 - 160 cm / 63" – City 5 Pedestrian
- Dimensions:
 - 47 cm x 33 cm (18.5" x 13")
- 4 pieces
 - cast steel base
 - middle piece contains a door fitted with a deadbolt lock
 - upper piece has two polycarbonate panels 10 mm / .4" thickness
 - Top cover
- Emergency stop button is on the side under an aluminum flap
- Orange and red LED displays (on the front right panel)
- Phonic and thermal insulation

POSSIBLE CONTROL FEATURES

- Keypad
- Radio receiver
- Analog and digital intercom
- Proximity card readers
- Video

Consult us if you would like to combine several control features.

This controller can house a technical center.

City 5 Drive-in



micro technical center

Electro-pneumatic version

- * Controls 1 to 2 access points with 1 to 3 bollards each
- 600 x 400mm (23.6" x 15.7")
- Lacquered steel box
- Deny® double point lock
- Compressor without oil and reservoir
- Compressor with pressure-gauge and manometer



anti-vandalism technical center

This technical center can be custom made with the dimensions you specify. Here you see a center for 1 to 2 access points for 2 to 10 bollards.

- Steel cabinet
- Thickness 6 mm / .2"
- Deny® Locking Mechanism
- Double-headed compressor
- Polyester powder paint

REMOTE TECHNICAL CENTER

SPECIFICATIONS

- Phonic and thermal insulation
- Upper and lower ventilation
- Radio or button control (or another form upon request)
- Programmable logic controller
- Electrical chart

management *software*

Urbaco proposes a wide range of software to assure the access is controlled, and to allow users to effectively operate the system.

CASCAM *Light* (secured access control with contact free smart card)

Access control secured by memory card. **CASCAM Light** is a software that can be used with portable PCs using all versions of Windows. This software can manage up to **30,000 different badges and, 7 different groups and up to 30 readers** (1000 badges per reader). Each group of users has its own access rights such as permanent or temporary access, expiration dates, scheduled access times etc. CASCAM Light can be used remotely via a specialized line, or from a desktop PC, creating a semi-centralized system. A centralized system is also possible.

CASCAM

CASCAM is a management software that was created for centralization, but it can be used separately as well. It can be used with all versions of Windows. This software can manage up to **180,000 different badges and 15 groups with access rights and up to 30 readers** (6,000 badges per reader). CASCAM enables the information to be exchanged between the control point and the readers such as the creation of badge numbers, cancellation of badges, hourly or daily schedules for authorized events, etc.

CASCAM *Supervision*

This software has more features than CASCAM because **CASCAM Supervision** allows readers to be checked periodically. CASCAM Supervision collects information in real time verifying that the readers are functioning properly, or allowing the access to be opened from a remote location.

CASCAM / GROUP OR ZONE



authorization deadline

access time frames

authorized accesses

CASCAM / USER'S DATA / AUTHORIZED USER



user info

badge info

vehicle info

Urbaco also offers software for Centralized Technical Management (CTM). This type of software is used primarily for controlling retractable bollard access systems. This software works with all versions of Windows.

The Centralized Technical Management system is a comprehensive system piloted by a software that collects data from different control devices, transmits the information collected and uses the information remotely to supervise the functioning of the equipment at the sites. The information is also used to ensure adequate access openings and closings. This software is often used to manage important systems such as in tunnels, pedestrian districts, airports, parking lots, and industrial parks. It is also used in large applications such as obtaining access to important municipal equipment such as dust collectors and parking sensors.

For example, the Centralized Technical Management system used in a semi-pedestrian area would have at least four levels:

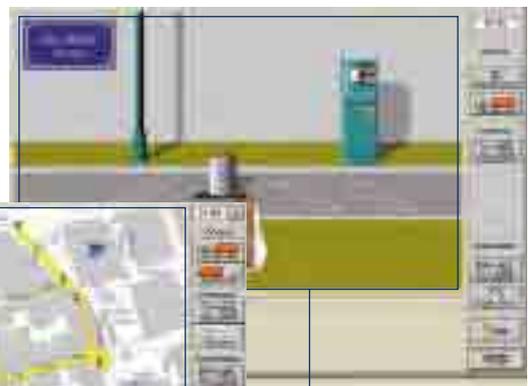
- Visual management via computerized overview. This allows the user to view the access to determine if the system is working properly, or to verify that the equipment is in order (lights, bollards, loops). The user can also program, validate, and cancel badges.
- Automatic data collection via automation, sensors, compressors, their telecommunication processes and their automated functions.
- Storage of individual access events such as entrances, exits and alarms.
- Controlling, piloting, viewing remotely, video communication, intercom systems, tele-maintenance and other miscellaneous features are available with this software.

City access control supervision plan

CAVSV / CONTROL



CAVSV / ACCESS SUPERVISION



Supervision of access and equipment in real time

C.A.V.S.V. (City Access Control without Vehicle)

The CAVSV software allows the operator to see, in real time, the centralized systems from a personal computer. The operator can gather data about passages, alarms, etc., to download them into the programmable logic controller and to send commands; to send commands such as scheduled openings, calendars, and messages. The information collected keeps the system functioning via commands, historical data, storage statistics, and repairs.

CAVSV is an excellent companion to the CASCAM software. CAVSV would be used to manage the automation, while CASCAM would manage the readers and badges. CASCAM and CAVSV work well together as a single application for the administrator.

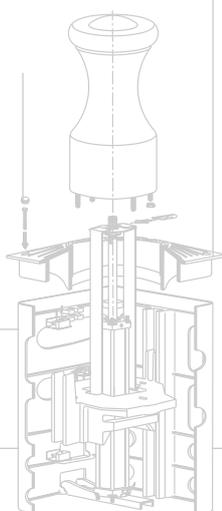
ΣYGMA (Access Control Management System)

The difference between CAVSV and ΣYGMA is that ΣYGMA can be installed and used on several different computers to manage the system by zones or by domain (administrative or technical). The software conforms to the Dutch standard NEN 3384.

URBACO *services*

Urbaco Services complete Urbaco products. Urbaco Services bring you a global solution to your technical and organizational needs.

Urbaco offers services that can assist you for the duration of your project. Our three main services are:



research *and development*

- **Definition of needs:** site inspection and advice. Explanation of expenses.
- **Developing or adapting of products**
- **Creation of systems:** architecture and technological choices, technical specifications and drawings.
- **Project administration and technical proposal:** technical description, scope, planning and realization, organizational chart, technical cut sheets and drawings.
- **Organization and direction of the work site:** installation and start-up, file of completed installations, and reception statement.

after-sales service *and maintenance*

- **After-sales service:** customer service within 24 hours, order and file follow-up, questions and problems are addressed by level of urgency and contractual priority.
- **Repair parts service**
- **Maintenance contract:** preventive and corrective maintenance support within 24 hours.

training (URBACO, authorized training center)

Urbaco offers a variety of training seminars for installers, users, maintenance teams and distributors.



Headquarters in Entraigues, (Vaucluse), France

Urbaco services provide you with:

- **A technical solution:** a system adapted to your needs and to the user's needs.
- **Project management:** with Urbaco leading your project, combined with the right technology, we can meet all of your operational and technical requirements.
- **Complete confidence** in your Urbaco System thanks to generous guarantees and to the after-sales services of the manufacturer, as well as comprehensive maintenance services in France and abroad.
- **A strong technical support team that covers a large area** and includes our local technical experts who are at your service and ready to assist you at any time.
- **A strong, available and attentive customer service department**
- **An informative website dedicated** to provide you with continuous information on Urbaco, its products and managing public areas.



customer *references*

OVER 15,000 BOLLARDS INSTALLED SINCE 1984, FOR OVER 6,000 CUSTOMERS ON 5 CONTINENTS

MANAGEMENT OF MORE THAN 100 PEDESTRIAN ZONES WITH A CENTRALIZED TECHNICAL MANAGEMENT SYSTEM

- France: Montpellier, Toulon, Lyon, Nice, Clermont-Ferrand, Aix-en-Provence, Poitiers, Rennes, Angers, Amiens, Chambéry
- China: Shanghai
- Portugal: Coimbra, Braga
- Spain: Tenerife, Canaries, Cordoba
- Greece: Athens
- Thousands of streets and pedestrian areas on 5 continents

PROTECTION ON PUBLIC BUILDINGS

- Forbidden City, Beijing, China
- Parliament Building, Canberra, Australia
- City Hall, Sydney, Australia
- Jerusalem Theatre, Israel
- Palace of Human Rights, Strasbourg, France
- Congress Hall, Lyon and Paris, France
- Interpol Headquarters, Lyon, France

ACCESS CONTROL FOR DEPARTMENT STORES IN FRANCE

- Auchan, Carrefour, Intermarche, Leclerc, Lidl...

PROTECTION OF INDUSTRIAL ZONES

- Rolex headquarters and manufacturing facility, Switzerland
- BMW, Peugeot, Renault, VW-Audi, Michelin
- SNCF TGV train stations, Valence, Avignon, Aix en Provence, France
- EDF-GDF, TF1

PROTECTION OF FINANCIAL INSTITUTIONS

- Federal Reserve, Richmond, Virginia, USA
- Rothschild Bank, Lugano, Switzerland
- Central banks of Japan and Mexico
- Numerous agencies of Banque de France, Société Générale, Crédit Agricole, BNP, Banque Populaire, France

HIGH SECURITY INSTALLATIONS

- Numerous embassies in Israel, France, the Netherlands, Mexico, the United States and Spain. Many more embassy grounds are currently being equipped around the world.
- The Pentagon, Washington DC, USA
- US Military Bases and Federal Buildings, USA
- Eurodif (COGEMA nuclear plant), France
- Police headquarters, Paris

URBACO LOCATIONS

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Upon request to our sales department or from our website,
you may also receive the following literature:

- Urbaco bollards catalog
- Urbaco site furnishings catalog
- Urbaco technical and supply units catalog
- Urbaco's company profile (brochure)
- Urbaco's company profile (leaflet)

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