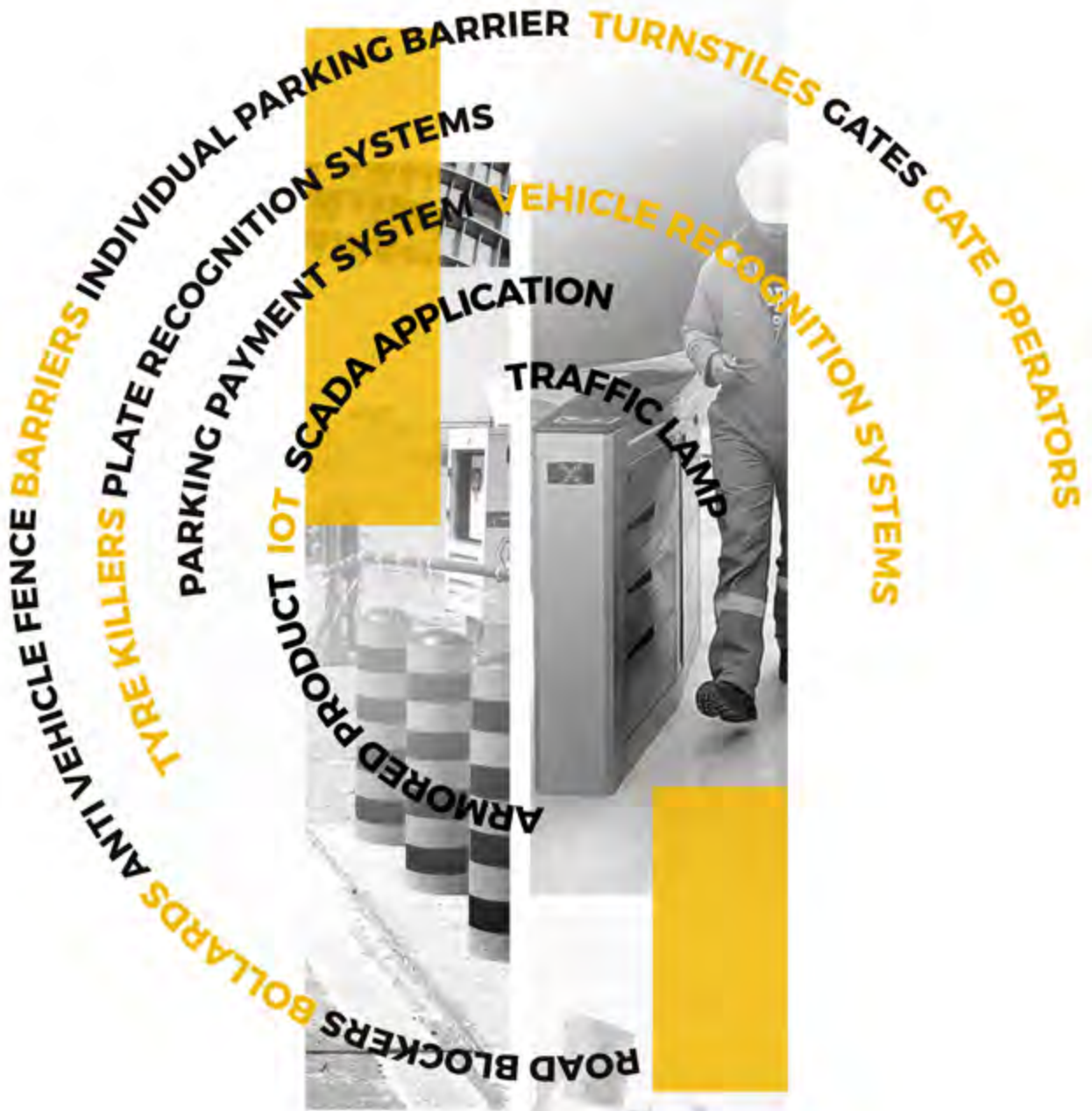


# optima<sup>®</sup>



**[www.optima.tc](http://www.optima.tc)**

**optima<sup>®</sup>**

# Content

**Optima®** started manufacturing operations to provide high-quality products and services with state-of-the-art engineering applications in the physical security sector. **Optima®** has been one of the pioneers in finding specific solutions for its customers and exporting products all over the world. We blend the utmost powerful knowledge with 20+ years of experience and focus on continuous success.

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# About Company

**Optima®** Engineering Inc. is mainly dealing with manufacturing, engineering, and R&D business since 2000.

## Group Companies

- Ulgen Industrial Systems INC.,
- Optima® Engineering INC.,
- Feridun Ulgen Factory for Gates & Barriers Industry, Riyadh K.S.A
- Autogate Limited S.R.L., E.U.
- Sigma Industrial Systems Ltd., U.K.

**Ulgen Industrial Systems Inc.** is mainly dealing with sales, marketing, finance, logistics, foreign trade, after-sales and maintenance services, systems integration of security & building automation systems.

**KSA Factory,** Feridun Ulgen Factory for Gates & Barriers Industry is established mainly to supply faster service, spare parts, and sales for all Gulf countries. The factory can produce high-volume products to produce more cost-effective products. With three technical support teams in the field, the factory can provide emergency response.

**Autogate Limited S.R.L** was established in the EU (Romania) as a facility to supply Optima® quality and products through Europe. Optima® is also ready to serve all customers in both European countries and worldwide with EUR-1 certification

**Sigma Industrial System Ltd.** is a UK-based company located in London. The main mission of the company is to provide the best services worldwide including exports, engineering feasibility studies, project execution, and testing&comissioning.



# Exported Countries

As of 01/11/2023...

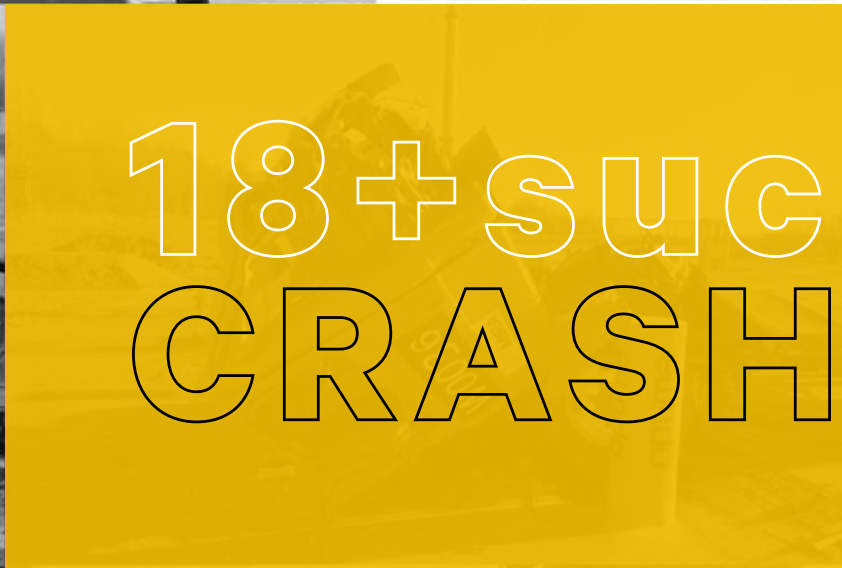




## Business Sectors

- Oil&Gas
- Military / Police Bases
- Government Buildings
- Embassies
- Borders
- Airports / Seaports
- Hotels / Malls
- Stadiums
- Palaces
- Commercial Buildings

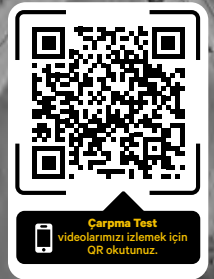








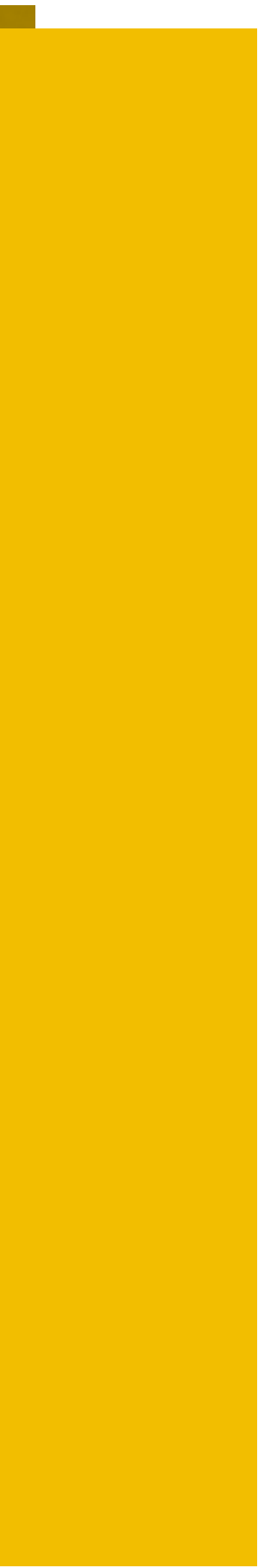
# Successful TESTS



**optima<sup>®</sup>**







ROAD BLOCKERS

**ROAD  
BLOCKERS**



# Road Blockers



## OPTIMA® ROAD BLOCKERS

Optima® Road Blockers are designed especially for entrance points which have a threat of vehicle attack or for the ones that have high security requirements. If there is a threat of vehicle attack in addition to the control of vehicle access in high security applications, road blockers are the unique solution and the most secure systems.

The range also includes road blockers for varying terrains and environments, including shallow foundations and surface mounting.

With the help of Optima® PLC, raise / lower function can be achieved by every kind of card readers, biometric readers like fingerprint or hand shape, radio control, on / off key switch, etc. Besides, safety accessories like inductive loop detectors, flashing lights or red / green traffic lights can be integrated into the system very easily.

Most of the Optima® Road Blockers are crashed tested and certified according to International Standards.



## SYSTEM FEATURES IN ROAD BLOCKERS

Types	Embedded, Shallow, Surface Mount, Mobile
Crash Tested Models	HRR-HS-CT / HRR-HS-4100 / HRR- CT- SHM
Height Range (mm)	500-1250
Width Range (mm)	2000-6000
Standard Color	RAL1028 traffic yellow / RAL9005 black (can be customized)
Load Resistance	50 tons per axle
Structure	Heavy duty
Top Plate	Plain or checkered (optional), painted yellow with black stripes
Hinges	Special design hardened steel
Electrical Requirements	380 V, three phase, 50-60 Hz (or 220 V / 415 V etc., three phase, 50-60 Hz optional by a transformer)
Power Failure	Manual hand pump, Hydraulic accumulator, DC motor and batteries, UPS
Standard Speed	3-5 seconds, in emergency 1.5 seconds (optional)
Desktop Keyboard	Raise, lower, emergency stop, key operated, keyboard in use light indicator
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

## ACCESSORIES

Dual vehicle safety loop detector

Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height

Submersible drainage pump

Uninterrupted power supply (UPS)

DC motor and pump with dry batteries

Hydraulic accumulator

Hot-dip galvanizing

SCADA or any control system: It is possible to change and check the position of road blocker with a touch screen control panel, mobile devices (iOS-Android), computer, etc.

# Road Blockers

Patent  
2014 / 13338



## **OPTIMA® | HRR-HS-CT** HYDRAULIC ROAD BLOCKER (ZERO PENETRATION)

Hydraulic, Embedded design, Actual PAS68 crash-tested (Zero Penetration), Width: 1500-6000 mm, Height: 1100 mm



## **OPTIMA® | HRR-HS-4100** HYDRAULIC ROAD BLOCKER

Hydraulic, Embedded design, Actual PAS68 crash-tested(P2 rated), Width: 1500-6000 mm, Height: 1000 mm

# Road Blockers



## **OPTIMA® | HRR-CT-SHM** SHALLOW MOUNT HYDRAULIC ROAD BLOCKER (ZERO PENETRATION)

Hydraulic, Shallow design, Actual PAS68 crash-tested (Zero Penetration), Width: 1500-6000 mm,  
Height: 1250 mm



## **OPTIMA® | HRR-SHM** SHALLOW MOUNT HYDRAULIC ROAD BLOCKER

Hydraulic, Shallow design, Heavy-duty design with strong structure, Width: 1500-6000 mm,  
Height: 400-1250 mm

# Road Blockers



## **OPTIMA® | HRR-HS** HYDRAULIC ROAD BLOCKER

Hydraulic, Embedded design, Heavy-duty design with strong structure, Width: 1500-6000 mm, Height: 400-1250 mm



## **OPTIMA® | PRR** PNEUMATIC ROAD BLOCKER

Pneumatic, Embedded design, Heavy-duty design with strong structure, Width: 1500-6000 mm, Height: 400-1100 mm



**OPTIMA® I EMR-HS**  
ELECTRO-MECHANICAL ROAD BLOCKERS

Electromechanical, Embedded design, Heavy-duty design with strong structure, Width: 1500-6000 mm,  
Height: 400-1100 mm



**OPTIMA® I HRR-TLS**  
SHALLOW MOUNT TELESCOPIC ROAD BLOCKER

Hydraulic, Telescopic shallow design, Heavy-duty design with strong structure, Width: 1500-6000 mm,  
Height: 350-800 mm



# Road Blockers



## **OPTIMA® | MHRB** **MOBILE HYDRAULIC ROAD BLOCKER**

Hydraulic, Mobile Design, Heavy-duty design with strong structure, Width 2500-5200 mm, Height: 400-1000 mm





# Road Blockers



## **OPTIMA® | HRR-SM** SURFACE MOUNT HYDRAULIC ROAD BLOCKER

Hydraulic, Surface Mount Design, Heavy-duty design with strong structure, Width: 2500-5200 mm,  
Height: 400-1000 mm



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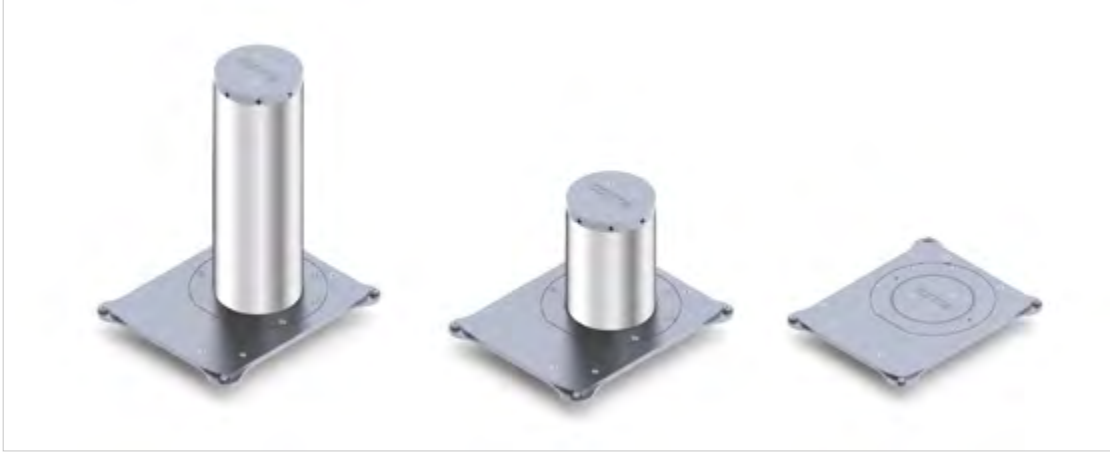


# BOLLARDS

## BOLLARDS



# Bollards



## OPTIMA® BOLLARDS

Optima® bollards are designed for high security vehicle entrances, military, industrial, governmental and commercial buildings or streets which are closed to vehicle traffic between certain hours of the day.

Most of the Optima® bollards are crashed tested and certified according to International Standards.

With the help of PLC controlled electronics, raise / lower function can be achieved by every kind of card readers, biometric readers like fingerprint or hand shape, radio control, on / off key switch etc. Besides, safety accessories like photocells, inductive loop detectors, flashing lights or red / green lights can be integrated to the system.



## SYSTEM FEATURES IN BOLLARDS

Types	Hydraulic, Pneumatic, Fixed ,Removable, Semi Automatic
Crash Tested Models	HRB-HS-CT / HRB Protector / FRB-01 Crash Tested / FXB-CT / FXB-CT-SHM
Height Range (mm)	500-1250
Diameter Range (mm)	100-355
Bollard Finish	Stainless steel sleeve or epoxy painted
Load Resistance	50 tons per axle
Structure	Heavy duty / Residential
Electrical Requirements (for Hydraulic models)	380 V, three phase, 50-60 Hz (or 220 V / 415 V etc., three phase, 50-60 Hz optional by a transformer)
Power Failure (for Hydraulic models)	Manual hand pump, Hydraulic accumulator, DC motor and batteries, UPS
Standard Speed (for Hydraulic models)	3-5 seconds, in emergency 1.5-2 seconds (optional)
Desktop Keyboard	Raise, lower, emergency stop, key operated, keyboard in use light indicator
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

## ACCESSORIES

Dual vehicle safety loop detector

2 meter height photocell mounting pedestal for high truck detection (required for industrial sites)

Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height

Submersible drainage pump

Flashing light on top of bollard

Decorative top flanges

Uninterrupted power supply (UPS)

DC motor and pump with dry batteries

Hydraulic accumulator

SCADA or any control system: It is possible to change and check the position of bollard with a touch screen control panel, mobile devices (iOS-Android), computer, etc.



# Bollards



## **OPTIMA® | FRB-01** FIXED BOLLARD

Fixed, Embedded design, Actual PAS68 crash-tested (P2 rated), Diameter: 320 mm, Height: 900 mm



## **OPTIMA® | FXB-CT-SHM** SHALLOW MOUNT FIX BOLLARD (ZERO PENETRATION)

Fixed, Shallow design, Actual PAS68 crash-tested (Zero Penetration), Diameter 355 mm, Height: 1100 mm



## **OPTIMA® | FXB-CT** FIXED BOLLARD

Fixed, Embedded design, Actual PAS68 crash-tested (Zero Penetration), Diameter: 320 mm, Height: 1100 mm



## **OPTIMA® | FXB-CT-R5** FIXED BOLLARD

Fixed, Shallow design, Actual PAS68 crash-tested (P2 rated), Diameter: 355 mm, Height: 900 mm

# Bollards

Patent  
2014 / 13340



## OPTIMA® | HRB-HS-CT HYDRAULIC BOLLARD

Hydraulic, Actual PAS68 crash tested (P2 rated),  
Diameter: 355 mm, Height: 1100 mm

Patent  
2017 / 04667



## OPTIMA® | HRB-PROTECTOR HYDRAULIC BOLLARD

Hydraulic, Actual PAS68 crash tested (Zero  
Penetration), Diameter: 355 mm, Height: 1250 mm

Patent  
2017 / 04667



## OPTIMA® | HRB-HS HYDRAULIC BOLLARD

Hydraulic, Heavy-duty design with strong  
structure, Diameter: 168-355 mm,  
Height: 400-1250 mm

Patent  
2017 / 04667



## OPTIMA® | RAB-800 BUILT-IN HYDRAULIC BOLLARD

Built-In Hydraulic, Heavy-duty design with strong  
structure, Diameter: 168-355 mm,  
Height: 400-1250 mm



# Bollards



## **OPTIMA® | RMB** REMOVABLE BOLLARD

Removable can be locked with the help of a key,  
Diameter: 150-273 mm, Height: 700-900 mm



## **OPTIMA® | FXB** FIXED BOLLARD

Fixed, designed for closing the gaps permanently,  
Diameter: 100-355 mm, Height: 500-1250 mm



## **OPTIMA® | RMB-SM** SURFACE MOUNT REMOVABLE BOLLARD

Removable, surface mount, can be locked with  
the help of a key, Diameter: 150-273 mm,  
Height: 700-900 mm



## **OPTIMA® | FXB-SM** SURFACE MOUNT FIXED BOLLARD

Fixed, surface mount designed for closing the  
gaps permanently, Diameter: 100-273 mm,  
Height: 500-1250 mm

# Bollards



## **OPTIMA® | PRB** PNEUMATIC BOLLARD

Pneumatic, Heavy-duty design with strong structure, Diameter 168-355 mm, Height: 400-1000 mm



## **OPTIMA® | SAB-100** SEMI AUTOMATIC BOLLARD

Semi-automatic, can be locked with the help of a key Diameter: 215 mm, Height: 585 mm

Patent  
2015 / 07993



## **OPTIMA® | AVF CRASH TESTED ANTI-VEHICLE FENCING SYSTEMS**

Fixed Fence, Chained, 12 meters modules, actual PAS68 crash tested

**optima<sup>®</sup>**



# BARRIER

**BARRIERS**



# Barriers



## OPTIMA® BARRIERS

Barrier is designed for high flow traffics. Compare to the standard parking barriers, Optima® Barriers are suitable for harsh environments and intensive usage. With the help of a strong electric motor, the barrier can resist the hottest environmental conditions even it is used continuously.

Another strong advantage of Optima® barriers is a smooth operation by frequency controller which supplies a slow start / slow stop operation. This type of operation increases the mechanism usage of life significantly.

Some of the Optima® barriers are crashed tested and certified according to International Standards. Crash-tested barriers are designed especially for entrances where there is a threat of suicide vehicle attack, or for the entrances that have high-security requirements. If there is a threat of vehicle attack in addition to the control of vehicle access in high security applications, hydraulic drop arm barriers are one of the best and most secure solutions. Even though the attack is from high tonnage vehicles with high speeds, it is not possible for the vehicle to keep on moving forward anymore beyond the arm of the barrier.



## SYSTEM FEATURES IN BARRIERS

Types	Hydraulic, Electromechanical, Manual
Crash Tested Models	HDAB-CT / MAB-CT
Arm Length (mm)	2000-8000
Arm Material	Aluminum with a special elliptical like cross-section design / Carbon steel
Structure	Heavy duty / Residential
Time Delay	It is set as 5 sec and its multiples (max: 35sec) (Can be disabled if desired)
Electrical Requirements	220 V (+/-%10), single phase, 50-60 Hz (for electromechanical barriers) 380 V, three phase, 50-60 Hz (for hydraulic barriers)
Power Failure	Release gear by allen key (for electromechanical barriers) Hand pump (for hydraulic barriers)
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

## ACCESSORIES

Dual vehicle safety loop detector

Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height

Flashing Light (flashes when the arm is in motion)

Button control box (open/close/emergency stop)

Radio receiver & antenna

Radio transmitter

Safety photocell & Photocell mounting pedestal with arm holder

Pendulum arm support

Articulated design for aluminum arms

Pneumatic edge safety sensor

Card reader mounting pedestal in front of the barrier with floor mounting flange, Gooseneck design with sunshade

Aluminum barrier skirt

Stop sign in the middle of barrier arm

Optima IOT Card developed for users who want to perform barrier control via mobile phones with Android and IOS operating systems

Reverse crossing warning

Quick pass alert

High speed crossing warning

SCADA or any control system: It is possible to change and check the position of barrier with a touch screen control panel, mobile devices (I / Os-Android), computer, etc.

# Barriers

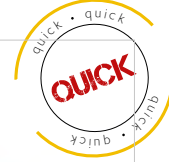
Patent  
2019 / 06917



## **OPTIMA® | B SERIES CHALLENGER ELECTROMECHANICAL ARM BARRIER**

Electromechanical, designed for harsh environment and heavy-use, galvanized cabinet with plastic cap, aluminum elliptical arm

Patent  
2019 / 06917



## **OPTIMA® | B SERIES CHALLENGER QUICK ELECTROMECHANICAL ARM BARRIER**

Electromechanical, designed for harsh environment and heavy-use, galvanized cabinet with plastic cap, aluminum elliptical arm



## **OPTIMA® | E SERIES CHALLENGER ELECTROMECHANICAL ARM BARRIER**

Electromechanical, designed for harsh environment and heavy-use, galvanized cabinet with plastic cap, aluminum elliptical arm



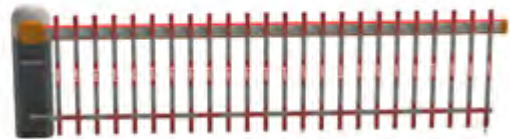
# Barriers

Patent  
2019 / 06917



## **OPTIMA® | CTY400 / CTY600** ELECTROMECHANICAL ARM BARRIER

Electromechanical, designed for residential usage,  
galvanized cabinet with plastic cap,  
aluminum elliptical arm



## **OPTIMA® | CHALLENGER** FENCE ARM BARRIER

Fence accessories can be added to our B series  
and Challenger series models in order to take  
security further

Patent  
2019 / 06917



## **OPTIMA® | CITY-ART** ELECTROMECHANICAL ARTICULATED ARM BARRIER

Same features as CITY series barrier with added  
articulated kit

Patent  
2019 / 06917



## **OPTIMA® | CHALLENGER** ART ELECTROMECHANICAL ARTICULATED ARM BARRIER

Same features as Challenger B series barrier  
with added articulated kit

# Barriers



## **OPTIMA® | MAB-CT** MANUAL DROP ARM BARRIER

Manual, smooth operation, Actual PAS68 crash tested, easy installation, width: 3000-6000 mm



## **OPTIMA® | MDAB** MANUAL DROP ARM BARRIER

Manual, smooth operation, heavy-duty with strong structure, easy installation, width: 3000-6000 mm

# Barriers



## **OPTIMA® | HDAB-CT** HYDRAULIC DROP ARM BARRIER (ZERO PENETRATION)

Hydraulic, double piston support, Actual PAS68 crash tested, easy installation, width: 3000-7500 mm



## **OPTIMA® | HDAB** HYDRAULIC DROP ARM BARRIER

Hydraulic, heavy-duty with strong structure, easy installation, width: 3000-6000 mm

# Barriers

Patent  
2019 / 21571



## **OPTIMA® | VLB** VERTICAL LIFT BARRIER SERIES

Hydraulic, vertical movement, heavy-duty with strong structure, easy installation,  
width: 3000-6000 mm



## **OPTIMA® | MB** MANUAL ARM BARRIER

Manual, smooth operation, counterweight design, designed for only control purpose (no crash  
resistance)

# Barriers



## **OPTIMA® | HAB-CR** HYDRAULIC ARM BARRIER K4

Hydraulic, heavy-duty with strong structure, K4 rated design, easy installation, width: 3000-6000 mm



## **OPTIMA® | HAB** HYDRAULIC ARM BARRIER

Hydraulic, designed for harsh windy environment, arm is aluminum (circular design), width: 2000-8000 mm



## **OPTIMA®** **BTK-300SM / BTK-600SM** ELECTROMECHANICAL TYRE KILLER WITH ARM BARRIER (SURFACE MOUNT)

Electromechanical Tyre Killer with integrated arm barrier, surface mount double-sided spike design, galvanized for long time outdoor resistance



## **OPTIMA® | BTK-300 / BTK-600** ELECTROMECHANICAL TYRE KILLER WITH ARM BARRIER (FLUSH MOUNT)

Electromechanical Tyre Killer with integrated arm barrier, embedded double-sided spike design, galvanized for long time outdoor resistance

# Individual Parking Barriers



## **OPTIMA® | PMS 100 MANUAL PERSONAL PARKING BARRIER**

Mechanical, can be locked by a key, material is made of steel for long resistance



## **OPTIMA® | PAS100 AUTOMATIC PERSONAL PARKING BARRIER**

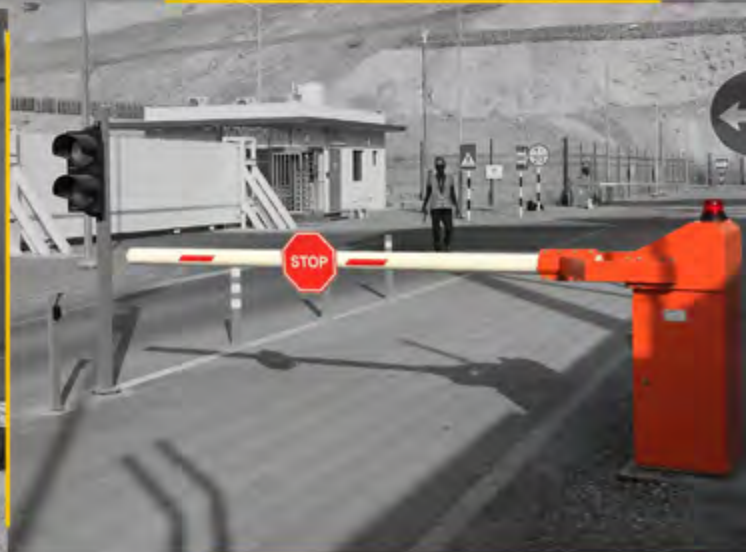
Electromechanical by 2 option: by battery or by direct power supply, material is made of steel for long resistance



## **OPTIMA® | CHB CHAIN-BARRIER**

Electromechanical, suitable for long parking areas, can close the gaps up to 16 m, 3rd party devices can be integrated





**optima<sup>®</sup>**



# TURNSTILES

## TURNSTILES





# Turnstiles



## OPTIMA® TURNSTILES

Optima® turnstiles / speed gates provide aesthetic and effective control of entry or exit at kinds of toll collection systems like train / metro stations, and access control for commercial centers, stadiums, schools, government, and private sector buildings, etc.

With the help of controlled electronics, a raise / lower function can be achieved by every kind of card reader, a biometric reader like fingerprint or hand shape, radio control, on / off key switch, etc.

Full Height Turnstiles are the unique solution for unmanned entrances with a high level of security requirements. Only one person is permitted to pass on each turn of the turnstile. This is achieved by three / four groups of wings, standing 120/90 degrees apart on the square/triangular cross sectioned rotor beam.

Advanced microelectronics; fine mechanics processed on CNC machines; contactless position sensing technology; hydraulic damper with adjustable damping ratio; self-centering mechanism design and rust preventing precautions are some of the main factors resulting in full height turnstiles' trouble-free, long operation life.



## SYSTEM FEATURES IN TURNSTILES

Types	Tripod / Speed Gates / Full Height / Swing
<b>Speed Gates</b>	
Models	HG100 / C100 / SSG100 / DA100 / SHG100 / DAT100
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical
Electrical Requirements	220 V (+/-%10), single phase, 50-60 Hz
Power Failure	Fail safe
<b>Tripod Turnstiles</b>	
Models	V100 / V200 / V201 / V300
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical / Manual
Electrical Requirements	220 V (+/-%10), single phase, 50-60 Hz
Power Failure	Fail safe / Fail secure
<b>Full Height Turnstile</b>	
Models	F100 / F100D / F100C / F100G / F100-SDR / F200S
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical / Manual
Electrical Requirements	220 V (+/-%10), single phase, 50-60 Hz
Power Failure	Fail safe / Fail secure
<b>Swing Turnstiles</b>	
Models	RAG100 / RAG200 / MSW
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical / Manual
Electrical Requirements	220 V (+/-%10), single phase, 50-60 Hz
Power Failure	Fail safe

# Turnstiles



## **OPTIMA® | C100S** SWING SPEED LANE (SHORT FLAP)

Electromechanical, motor-driven, swing movement, tempered glass wings (short), stainless steel body, handicapped option available



## **OPTIMA® | SSG100S** SLIDING SPEED GATE (SHORT FLAP)

Electromechanical, motor driven, sliding movement, tempered glass wings (short), stainless steel body, handicapped option available



## **OPTIMA® | C100L** SWING SPEED LANE (LONG FLAP)

Electromechanical, motor-driven, swing movement, tempered glass wings (long), stainless steel body, handicapped option available



## **OPTIMA® | SSG100L** SLIDING SPEED GATE (LONG FLAP)

Electromechanical, motor driven, sliding movement, tempered glass wings (long), stainless steel body, handicapped option available



# Turnstiles



## **OPTIMA® | HG100** **HIDDEN SPEED GATE**

Electromechanical, motor driven, sliding movement, tempered glass wings, stainless steel body, handicapped option available



## **OPTIMA® | DAT100** **DROP ARM TURNSTILE**

Electromechanical, motor-driven, stainless steel circular arms, stainless steel body



## **OPTIMA® | SHG-100** **SLIM HIDDEN GATE**

Electromechanical, motor driven, sliding movement, tempered glass wings, stainless steel body, handicapped option available



## **OPTIMA® | V201** **TRIPOD TURNSTILE**

Electromechanical, solenoid (optionally with motor) mechanism, stainless durable black glass arms, stainless steel body

# Turnstiles



## **OPTIMA® | V200** TRIPOD TURNSTILE

Electromechanical, solenoid mechanism, stainless steel tripod arms, stainless steel body



## **OPTIMA® | V100** TRIPOD TURNSTILE

Electromechanical, solenoid mechanism, stainless steel tripod arms, stainless steel body (designed for narrow spaces)



## **OPTIMA® | V200E** TRIPOD TURNSTILE

Electromechanical, solenoid mechanism, stainless steel tripod arms, stainless steel body



## **OPTIMA® | V300** TRIPOD TURNSTILE

Electromechanical, solenoid mechanism, stainless steel tripod arms, completely closed stainless steel body

# Turnstiles



**OPTIMA® | F100**  
FULL HEIGHT TURNSTILE

Electromechanical, solenoid mechanism, 90 / 120 degree arm design, full height stainless steel body (carbon steel as an option)



**OPTIMA® | F100D**  
FULL HEIGHT TURNSTILE  
(DOUBLE)

Electromechanical, solenoid mechanism, 90 / 120 degree arm design, double-sided full height stainless steel body (carbon steel as an option)



**OPTIMA® | F100C**  
FULL HEIGHT TURNSTILE  
(CAGE TYPE)

Electromechanical, solenoid mechanism, 90 / 120 degree arm design, full-height cage type stainless steel body (carbon steel as an option)



**OPTIMA® | F200S**  
FULL HEIGHT TURNSTILE  
(GLASS ARM)

Electromechanical, motor driven, 120 degree arm design, full height body

# Turnstiles



## **OPTIMA® | F100-SDR** AUTOMATIC REVOLVING DOOR

Electromechanical, motor driven, revolving glass wings, full-height aluminum body covered with glasses



## **OPTIMA® | F100DB** BICYCLE TURNSTILE

Electromechanical,  
two sides full height stainless steel body  
(one side is for pedestrians, one side is for bicycle)



## **OPTIMA® | HH100** HALF HEIGHT TURNSTILE

Electromechanical, solenoid mechanism, 90 / 120 degree arm design, half-height stainless steel body (carbon steel as an option)



# Turnstiles



**OPTIMA® | RAG100**  
ROTARY AUTOMATIC SWING GATE

Electromechanical, motor-driven, swing movement, glass wings, body made of stainless steel tube



**OPTIMA® | RAG-200**  
ROTARY AUTOMATIC SWING GATE

Electromechanical, motor-driven, swing movement, stainless steel arm and body

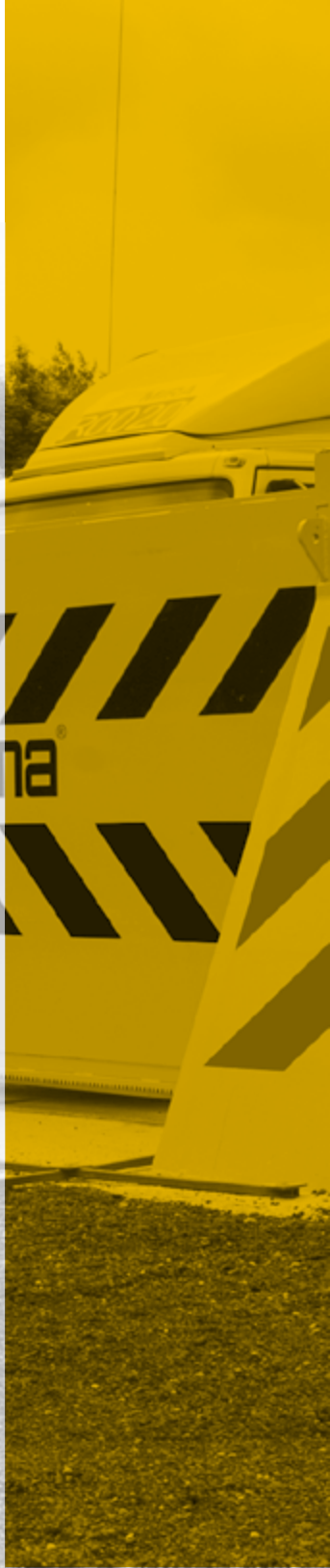


**OPTIMA® | MSW**  
MANUAL SWING TURNSTILE

Mechanical, swing movement, stainless steel arm, body made of stainless steel tube



**optima<sup>®</sup>**







**GATES**

# Gates



## OPTIMA® GATES

Optima® Gates are designed for residential, commercial, industrial, and military applications.

If there is a threat of vehicle attack in addition to the control of vehicle access in high-security applications, crash-tested sliding gates are the unique solution and the most secure system.

Most of the Optima® gates are crashed tested and certified according to International Standards. Even though the attack is from high tonnage vehicles with high speeds, the vehicle can't keep on moving because the damage is given to the vehicle with the gate's durable structure.

Optima Gate operators are designed for businesses, places such as gardens and private ownership, high traffic, commercial and industrial applications. Any kind of card readers, biometric readers, radio control, key switches, etc. can be used to start or stop the electro-hydraulic swing gate operator, with the help of PLC (Programmable Logical Control) controls.



## SYSTEM FEATURES IN GATES

Types	Sliding, Swing, Folding, Cantilever, Telescopic Pedestrian
Crash Tested Models	SG-CT / SG-HDCR
Height Range (mm)	1000-4000
Width Range (mm)	2000-12000
Standard Color	RAL1028 traffic yellow / RAL9005 black (can be customized)
Structure	Heavy duty
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

## ACCESSORIES

Dual vehicle safety loop detector

Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height

Radio receiver & antenna

Radio transmitter

Uninterrupted power supply (UPS)

Anti-climb wire mesh

Hot-dip galvanizing

Safety edge sensor

Dual Push Button/Push Button

SCADA or any control system: It is possible to change and check the position of gate with a touch screen control panel, mobile devices (iOS-Android), computer, etc.

# Gates



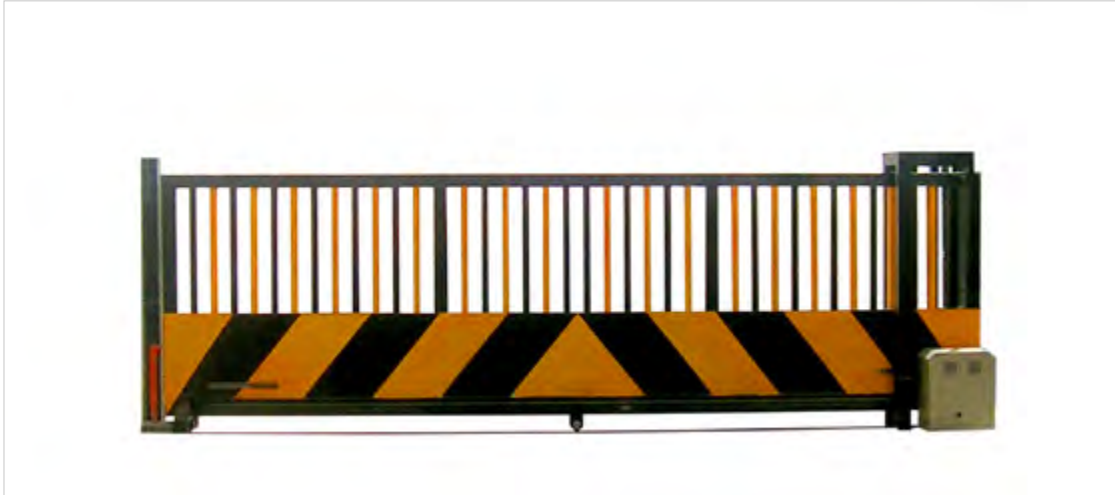
## **OPTIMA® | SG-CT** SLIDING GATE (CLOSED TO VISION) (ZERO PENETRATION)

Electromechanical, actual pas68 crash tested, closed to vision , integrated with Optima® ESGO Sliding Motor



## **OPTIMA® | SG-HDCR** SLIDING GATE (ZERO PENETRATION)

Electromechanical, actual pas68 crash tested, vertical steel bar design , integrated with Optima® ESGO Sliding Motor



## OPTIMA® | SG SLIDING GATE

Electromechanical, strong steel structure, vertical steel bar design , integrated with Optima® ESGO Sliding Motor

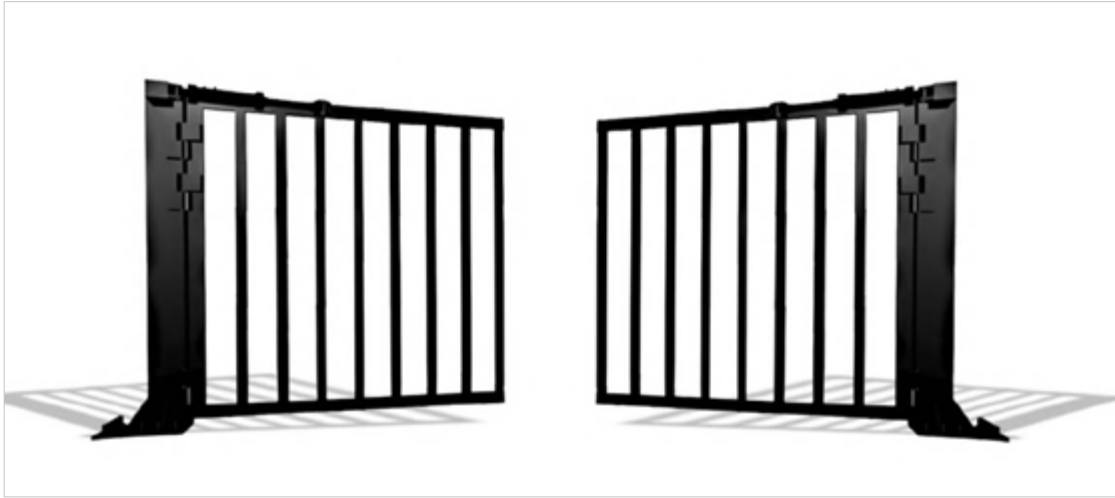


## OPTIMA® | CG CANTILEVERED GATE

Electromechanical, strong steel structure, vertical steel bar design, cantilevered (no rail) operation, integrated with Optima® ESGO Sliding Motor



# Gates



## **OPTIMA® | SWG SWING GATE**

Hydraulic, strong steel structure, vertical steel bar design, swing operation with heavy-duty hinges, integrated with Optima® SWGO hydraulic operator



## **OPTIMA® | FG FOLDING GATE**

Hydraulic, strong steel structure, vertical steel bar design, folding type with heavy-duty hinges, integrated with Optima® SWGO hydraulic operator



## **OPTIMA® | TSG TELESCOPIC SLIDING GATE**

Electromechanical, suitable for wide openings, strong steel structure, vertical steel bar design, integrated with Optima® ESGO Sliding Moto



## **OPTIMA® | PSG PEDESTRIAN SECURITY GATE**

Manual, hydraulic closer as an option. Designed for subsidy sliding gate and turnstiles

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# OPERATING GATES

**GATE OPERATORS**

# Gate Operators



## OPTIMA® GATES OPERATORS

Optima® ESGO600/1200 electromechanical sliding gate operators are designed for businesses, places such as gardens and private ownership. ESGO600/1200 operator is suitable for gates that weigh up to 1200 kg. The lower body is manufactured with aluminum injection, the upper cover is manufactured with plastic injection.

Optima SWGO-1000 electro-hydraulic swing gate operators are designed for high traffic, commercial and industrial applications. SWGO-1000 operator is suitable for gates that weigh up to 1000 kg.

Flashing lamp, plastic rack, safety photocell, remote control receiver/transmitter products are supplied with the product. Depending on the customer's request, the accessories on the next page offer an optional solution to our customers.

In addition, by integrating with our IoT/Optima Cloud solution, it can offer the option to control the door operator with mobile devices (IOS-Android), computer etc.





## SYSTEM FEATURES IN GATE OPERATORS

Types	ESGO 4000, ESGO 600, ESGO 1200, SWGO 1000
Safety	Safety photocell, Flashing Light
Electrical Requirements	220 V (+/-%10), Single phase, 50-60 Hz (380V, three phase optional)
Power Failure	Discharge cap
Desktop Keyboard	Raise, lower, emergency stop, key start, keyboard in use light indication

## ACCESSORIES

Dual vehicle safety loop detector
Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height
Radio receiver/receiver & antenna
Push Button
Galvanized steel rack
Uninterrupted power supply (UPS)
Hot-dip galvanizing
Safety photocell
SCADA or any control system: It is possible to change and check the position of gate with a touch screen control panel, mobile devices (IOS-Android), computer, etc.

# Gate Operators



## **OPTIMA® | ESGO600** ELECTROMECHANICAL SLIDING GATE OPERATOR

Electromechanical, can drive the gates up to 600kg, included accessories: flashing light, galvanized rack, push / button box, safety photocell.



## **OPTIMA® | ESGO1200** ELECTROMECHANICAL SLIDING GATE OPERATOR

Electromechanical, can drive the gates up to 1200kg, included accessories: flashing light, galvanized rack, push / button box, safety photocell.

# Gate Operators



## **OPTIMA® | ESGO 4000** ELECTROMECHANICAL SLIDING GATE OPERATOR

Electromechanical, can drive the gates up to 4 tons, included accessories: flashing light, galvanized rack, push / button box, safety photocell



## **OPTIMA® | SWGO-1000** ELECTRO-HYDRAULIC SWING GATE OPERATOR

Hydraulic, can drive the gates up to 1000kg (double wings), ncluded accessories: flashing light, hydraulic cylinder, push i/ button box, safety photocell

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## **TYRE KILLERS**



# Tyre Killers



## OPTIMA® TYRE KILLERS

Optima® Tyre Killers are a part of vehicle access control systems in which a vehicle cannot enter without permission. Tyres of the unpermitted vehicle split up immediately, therefore the vehicle moves only a few more meters and is stopped. Jaws of the tyre killer move all together. The drive unit is placed to one end of the tyre killer for electro-mechanical type; it stands above the ground level and is a complete assembly with the body. In this way, both smooth transmission of motion and minimum effect of external factors are achieved.



## SYSTEM FEATURES IN TYRE KILLERS

### Mechanical Tyre Killers

Types	Embedded, Surface Mount
Width (mm)	1000 mm modules
Spike Height	10 cm embedded / 6 cm surface mount
Color	RAL1028 traffic yellow / RAL9005 black
Spike Movement	Self balanced
Optional Feature	Latch down mechanism

### Electromechanical Tyre Killers

Types	Embedded / Surface Mount
Width (mm)	1000-6000
Spike Height	10 cm embedded / 6 cm surface mount
Color	RAL1028 traffic yellow / RAL9005 black
Electrical Requirements	220 V, single phase, 50-60 Hz

### Hydraulic Tyre Killer

Width (mm)	2000-6000
Spike Height	25-50 cm
Color	RAL1028 traffic yellow / RAL9005 black
Electrical Requirements	380 V, three phase, 50-60 Hz

### ACCESSORIES

Dual vehicle safety loop detector
Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height
Radio receiver & antenna / transmitter
Safety photocell & Photocell mounting pedestal with arm holder
Uninterrupted power supply (UPS)
DC motor and pump with dry batteries (for hydraulic tyre killer only)
SCADA or any control system: It is possible to change and check the position of road blocker with a touch screen control panel, mobile devices (I / Os-Android), computer, etc.

# Tyre Killers



## **OPTIMA® | ETK-SM** ELECTROMECHANICAL TYRE KILLER (SURFACE MOUNT)

Electromechanical, surface mount double-sided spike design, galvanized for long time outdoor resistance



## **OPTIMA® | ETK** ELECTROMECHANICAL TYRE KILLER (FLUSH MOUNT)

Electromechanical, embedded double-sided spike design, galvanized for long time outdoor resistance



## **OPTIMA®** **BTK-300SM / BTK-600SM** ELECTROMECHANICAL TYRE KILLER WITH ARM BARRIER (SURFACE MOUNT)

Electromechanical Tyre Killer with integrated arm barrier, surface mount double-sided spike design, galvanized for long time outdoor resistance



## **OPTIMA® | BTK-300 / BTK-600** ELECTROMECHANICAL TYRE KILLER WITH ARM BARRIER (FLUSH MOUNT)

Electromechanical Tyre Killer with integrated arm barrier, embedded double-sided spike design, galvanized for long time outdoor resistance



## **OPTIMA® | MTK-100SM** MECHANICAL TYRE KILLER (SURFACE MOUNT)

Manual, latch down option is available, surface mount design, galvanized for long time outdoor resistance



## **OPTIMA® | MTK-100** MECHANICAL TYRE KILLERS (FLUSH MOUNT)

Manual, latch down option is available, embedded structure, galvanized for long time outdoor resistance



## **OPTIMA® | HTK** HYDRAULIC TYRE KILLER

Hydraulic, strong design with min 25cm height spike, heavy duty structure, designed for high security requirement.

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PLATE  
RECOGNITION

**PLATE RECOGNITION  
SYSTEMS**

# Plate Recognition Systems

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## OPTIMA® PLATE RECOGNITION SYSTEMS

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Optima® ALPR-100 is a next generation Automatic License Plate Recognition System providing faster and more reliable solutions. The system recognizes international plate formats and styles. Customized modules are available for maximum performance for different types of license plates at several countries. It has suitable modules for highways, parking lots or facility entrances, mobile operations.

Optima ALPR-101, the license plate recognition system, offers security, ease of use, and 100% customer satisfaction. The system has state-of-art hardware and software technologies and provides customer-oriented, flexible solution opportunities. Optima license plate recognition system is capable of working in integration with access systems such as sliding gates and barriers at the entrances and exit areas of sites. The system doesn't require any vehicle tags, barcodes, or user cards. The entry and exit processes are carried out automatically by scanning the vehicle's number plate. The system has a user-friendly, modern interface unique to Optima.

Optima PPS-100, is the best innovative parking management and payment system for an intuitive parking experience. Its latest hardware and software technology facilitates user-friendly functionality regarding management, data storage, revenue tracking, database statistical analysis, reporting, and tracking features.

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## SYSTEM FEATURES IN PLATE RECOGNITION SYSTEMS

### PLATE RECOGNITION SYSTEMS

Types	ALPR-100, ALPR-101
Stream Format	JPEG, H.264
Frame Rate	50FPS
Lens - Disc	5-50 Varifocal - 120 GB
Processor	O-Internal Processor Unit
Illumination	IR Led (50M.)
Network Protocol	TCP/IP, UDP, HTTP, FTP, SMTP, NTP, DHCP, RTP
Operation Temp.-Humidity:	-20°C / 60°C (-4°F / 140°F) / 95% or less (non-condensing).

### PARKING PAYMENT SYSTEM

Processing Unit	Windows, Linux, Ubuntu, MacOS
Tracking System	Plate Recognition System, Ticket Terminal
Payment System	Exit Payment Point
Mobile Application	IOS-Android
Disc	Min. 1TB HDD/ Min. 250 GB SSD

# Plate Recognition Systems



## **OPTIMA® ALPR-100** LICENSE PLATE RECOGNITION SYSTEM FOR HIGHWAYS

Optima® ALPR-100 Automatic License Plate Recognition System recognizes international plate formats and styles. Customized modules are available for maximum performance for different types of license plates at several countries. It has suitable modules for highways, parking lots or facility entrances, mobile operations. The system offers a detailed, web-based database search and an alarm system for wanted, seized and stolen vehicles.

### **MAIN FEATURES**

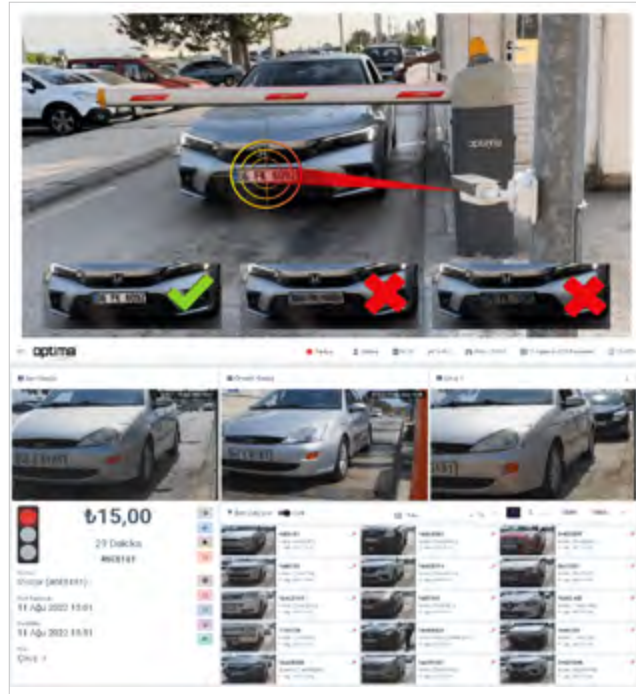
Vehicle Recognition	Min %99
Correct Reading	Min %92
Reading Directions	Arrival and Departure
Square/ Formal / Private / International (Latin and Arabic Alphabet) Plates	Available
License Plateless Vehicle Detection	Available
Vehicle Classification	Min %80 (Optional)
Brand and model	Min %70 (Optional)
Color Recognition	Min %60 (Optional)
Motion Detection	Available (Software Based) (Optional)



MAIN FEATURES	
Vehicle Recognition	Min %99
Correct Reading	Min %92
Reading Directions	Arrival and Departure
Square/ Formal / Private / International (Latin and Arabic Alphabet) Plates	Available
License Plateless Vehicle Detection	Available
Vehicle Classification	Min %80 (Optional)
Brand and model	Min %70 (Optional)
Color Recognition	Min %60 (Optional)
Motion Detection	Available (Software Based) (Optional)



# Parking Payment Systems



## OPTIMA® PPS100 PARKING PAYMENT SYSTEMS

Optima® PPS-100, is the best innovative parking management and payment system for an intuitive parking experience. Its latest hardware and software technology facilitates user-friendly functionality regarding management, data storage, revenue tracking, database statistical analysis, reporting, and tracking features.

### MAIN FEATURES

Ability to work in integration with access systems (Barrier, Gates, etc.)

Dedicated system management (Administrator, Operator, Security guard, etc.)

Parking lot-based and operator-based revenue tracking

Management of subscribed and blocked license plates by whitelist and blacklist applications

System monitoring and documentation with daily, monthly, status-based reports

Density tracking with the smart panel, estimated density, and income information

Full control with remote connection, mobile compatibility and mail reporting

System integration based on the parking lot operation scenario

Detecting plateless vehicles or vehicles with unreadable license plate

**OPTIMA CLOSELY FOLLOWS THE LATEST TECHNOLOGY AND PRODUCES NEW PRODUCTS BY BLENDING ITS OWN DEVELOPED SOFTWARE WITH ITS OWN SECURITY PRODUCTS.**

- **Ability to work in integration with access systems (Barrier, Gates, etc.)**
- **Dedicated system management (Admin, operator, Security guard, etc.)**
- **Ability to add vehicles to the blacklist (Banned Vehicles)**
- **Density tracking with the smart panel, estimated density, and income information.**
- **Easy integration into existing systems.**
- **Detailed reporting of system data.**
- **Ability to control system via OPTIMA mobile application.**
- **Full control with remote connection, mobile compatibility and mail reporting.**



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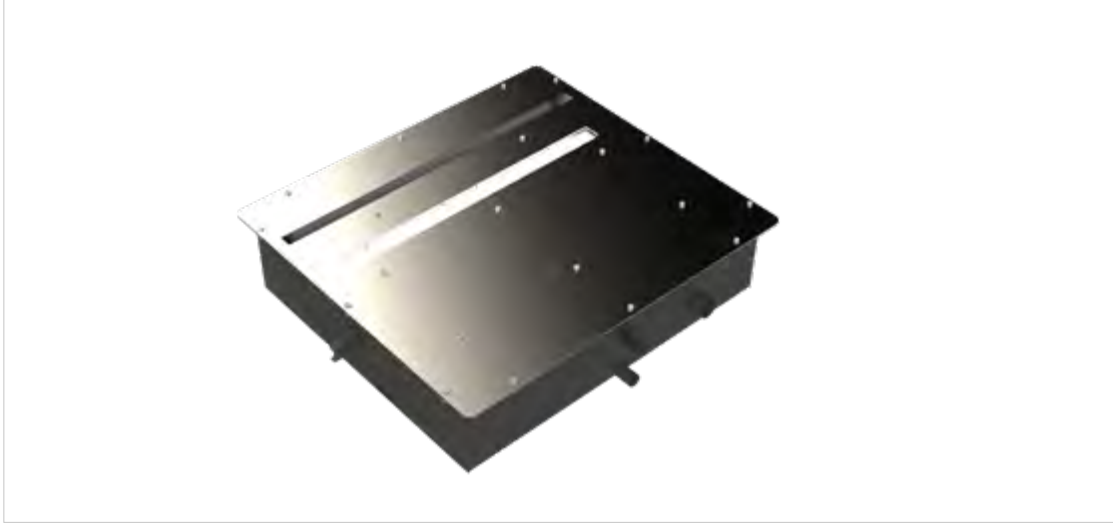


# VEHICLE RECOGNITION SYSTEMS

**VEHICLE  
RECOGNITION  
SYSTEMS**



# Vehicle Inspection System



## OPTIMA® | VEHICLE INSPECTION SYSTEM

Optima®UVIS-100 Under Vehicle Inspection System are designed with advanced security technology to scan inspect and record underside of all vehicles. These systems are used especially for entrances where there is a threat of suicide vehicle attack with explosives or for the entrances that have very high security requirements like military, industrial, governmental and commercial buildings, sites, complexes etc

UVIS-100 under vehicle inspection system provides users needed safe are, thereby capturing and monitoring underside image of the vehicles with a high-resolution auto digital area scanning camera. In addition the system specifies suspicious objects after under vehicle scan process and takes them into a frame on the monitoring screen. Thanks to system's advanced electronics; many type of security systems such as road bollards, road blockers, barriers etc. or plate recognition systems can be integrated to the system

Optima FCS-100 face Drivers Image Capture Camera is a subside system of Optima ALPR-100 automatic license plate recognition. It enables to record drivers image into the system with the related vehicle plates while enters. By using high resolution camera, it is possible to get clear driver face images.





## SYSTEM FEATURES IN VEHICLE INSPECTION SYSTEM

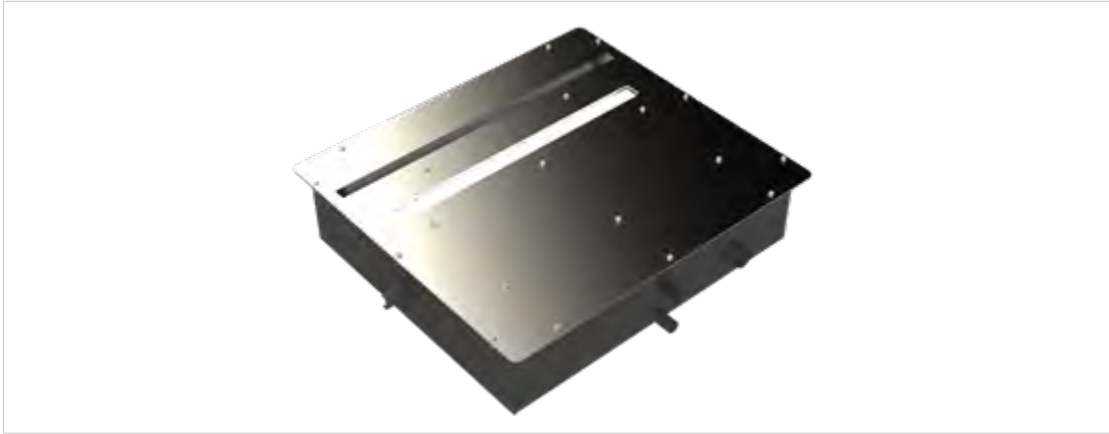
Types	Flush Mount ,Surface Mount
Sensor	Axis sensitivity 1.5 counts / miligauss.
Industrial Area Scan Camera	-Color Camera 5Mp -Image ata Interface Gigabit Ethernet (1000 Mbit/s). -Frame Rate per second 30 fps.
Processing unit	-CPU Core™ i7. System Memory 2 x 204-pin DDR3-1333/1600mhz SO-DIMM, up to 16GB. -NVIDIA GeForce GPU'su -Min 250 GB M2 SSD + Min 1 TB HDD
Standard Equipment that Comes with the System	Loop Detector, System Processing Unit, Giga Ethernet Switch, Power Led Light, Industrial Area Scanning Camera,Web Interface Operator Concole
Loop Detector	System Processing Unit, Giga Ethernet Switch, Power Led Light, Industrial Area Scanning Camera,Web Interface Operator Concole

## SYSTEM FEATURES IN FCS DRIVER IMAGE CAPTURE CAMERA

Power Consumption	250 Watt
Shutter	Rolling Shutter
Max Image Circle	1 / 3.7"
Sensor Type - Size	CMOS - 4.2 mm x 2.4 mm
Resolution (HxV)	1920px x 180px
Pixel Size (HxV)	2.2 µm x 2.2 µm

# Vehicle Inspection System

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## **OPTIMA® | UVIS-100** UNDER VEHICLE INSPECTION SYSTEM (FLUSH MOUNT)

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Optima® UVIS-100 Under Vehicle Inspection System (Flush Mount) are designed with advanced security technology to scan inspect and record underside of all vehicles.



## **OPTIMA® | UVIS-100SM** UNDER VEHICLE INSPECTION SYSTEM (SURFACE MOUNT)

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Optima® UVIS-100SM Under Vehicle Inspection System (Surface Mount) are designed with advanced security technology to scan inspect and record underside of all vehicles.

# Vehicle Inspection System

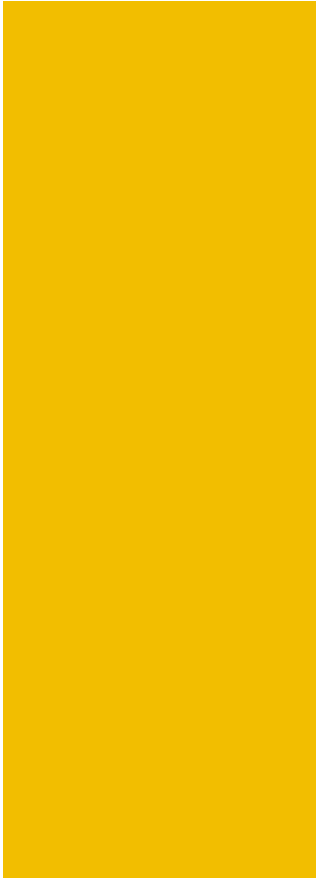
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## **OPTIMA® | FCS-100** DRIVER / VEHICLE IMAGE CAPTURE CAMERA

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Optima® FCS-100 face Drivers Image Capture Camera is a subside system of Optima® ALPR-100 automatic license plate recognition.





PARKING PAYMENT  
MANAGEMENT SYSTEMS

**PARKING PAYMENT/  
MANAGEMENT  
SYSTEMS**



# Current Car Park Situation

SECURITY SYSTEMS | OPMS-100 PARKING MANAGEMENT SYSTEM



## PARKING MANAGEMENT SYSTEM

The parking guidance system is capable of guiding the tenants/visitors to the vacant parking spaces by the shortest route with visible LED lights and high-illuminated LED guidance information display. Compared with other suppliers, our sensor is with one-stop accessories for fast installation. It will reduce installation materials and labor costs.

## AUTOMATIC PARKING GUIDANCE FUNCTION

The ultrasonic sensor automatically detects the occupied/vacant parking status once the vehicle is parked on the space. Sensor will send real-time parking status to Zone Control Unit and control external LED indicator to show green for a vacancy, red for occupancy, also support other colors for different types such as purple for women, etc. Meanwhile, the LED display installed at the main entrance and crossings inside the car park will update real-time available parking spaces to let drivers make the decision of which zone/floor to go.

## NETWORK LAYER STRUCTURE

The parking guidance system adopts a 3-layer network structure. The 1st layer is a data collection system, mainly to gather the real-time parking space data. The 2nd layer is the data transport system, to get the information from the data collection system. The 3rd layer is the data processing system, in charge of summarizing and processing the parking space data, then release real-time vacant spaces on the LED display. Support RS485 platform for open data socket to integrate with the 3rd party system such as parking barrier and parking ticket system, etc. Support ACCESS or SQL database.

# Current Car Park Situation

SECURITY SYSTEMS | OPMS-100 PARKING MANAGEMENT SYSTEM

## AUTOMATIC CALCULATION OF PARKING SPACES

System automatically calculates the status of every parking space. Software can modify the display contents and counting zones on the LED display according to customer's requirements. Software will show the real-time available parking spaces of every floor, every zone on the LED display and software interface.



## PARKING SPACE MANAGEMENT

The system can have real-time management and control of the parking spaces, convenient for car park managers to check related information. Monitor the parking duration and start the time counting once a vehicle is parked on the space. The car park manager can know the parking duration of every parking space through the software at the central control room. Over-stay parking can give alarm on the software interface by showing Yellow car on the electronic map.



# Parking Guidance Systems

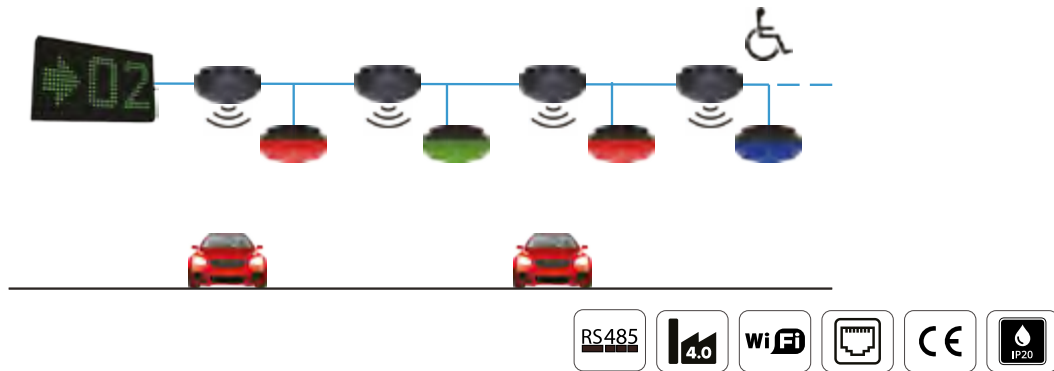


## GENERAL DESCRIPTION

Due to the lack of available spots in cities, the need for parking management increases dramatically. This necessity makes smart parking systems in public and living places indispensable.

Parking Guidance Systems create great advantages both to the owners of the car-parks and the drivers.

- Saves time while directing vehicles to available parking spots
- Enables seamless management of parking lot traffic without human intervention
- Provides detailed reports on the usage density of the area and planning via its functional interface.



# Parking Guidance Systems

## SYSTEM COMPONENTS



### ULTRASONIC SENSORS

Ultrasonic Sensors detect the status of the parking spots. They transmit the status information to Zone Control Unit.



### LED INDICATORS

Indicators work together with ultrasonic sensors in order to present the condition of each individual parking spot via different colors. They help you to find an empty parking spot without roaming in the parking area.



### GUIDANCE SIGNS

Guiding Signs present the information about floors, corridors, regions in the parking areas. They can show the empty spots in the floor/ corridor/ region according to your preferences.



### ZONE CONTROL UNITS (ZCU)

Zone Control Units have continuous data flow between themselves and the ultrasonic sensors. It collects the status of the bounded sensors, and delivers this information to the Central Control Unit. Zone Control Unit also supplies power for sensors and indicators via the same connection line.



### CENTRAL CONTROL UNIT (CCU)

Central Control Unit processes the received data and information coming from all the ZCU's and interprets the guidance and entrance signs. It also transfers this information to the system's controlling computer. The operator can monitor and control all the system through the web interface.



### ENTRANCE SIGNS

Entrance Signs present the status of availability of all floors at the entrance (or at any other location) of the car park. This makes the driver to reach the convenient floor in the shortest possible time.

# Parking Payment Terminals



## ENTRY TERMINAL (TICKET DISPENSER)

Optima T 100 Ticket Dispenser is a user-friendly HMI unit and printer that system can be used in many different places. Ticket dispenser can be used in airports, in the car parks of airports, in the car parks of municipalities, in private institutions, and in many areas where the subscription system is actively used.

- The main body is galvanized steel
- Human machine interface
- Printer for QR code
- Web based software
- TCP/IP communication protocol
- Push button
- Access control integration
- External QR code reader with ticketing software



## EXIT TERMINAL (QR READER)

Optima Exit Terminal is a user-friendly QR reader that the system can be used in many different places. Exit Terminal can be used in airport car parks, corporate car parks, private institutions and many areas where the subscription system is actively used.

- The main body is galvanized steel
- Human machine interface
- Printer for QR code
- Web based software
- TCP/IP communication protocol
- Push button
- Access control integration
- External QR code reader with ticketing software



# Parking Payment Terminals

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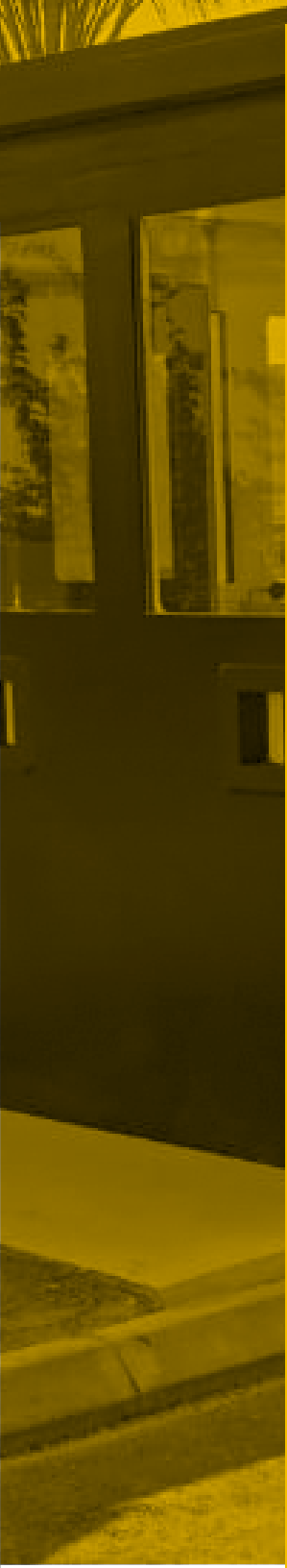
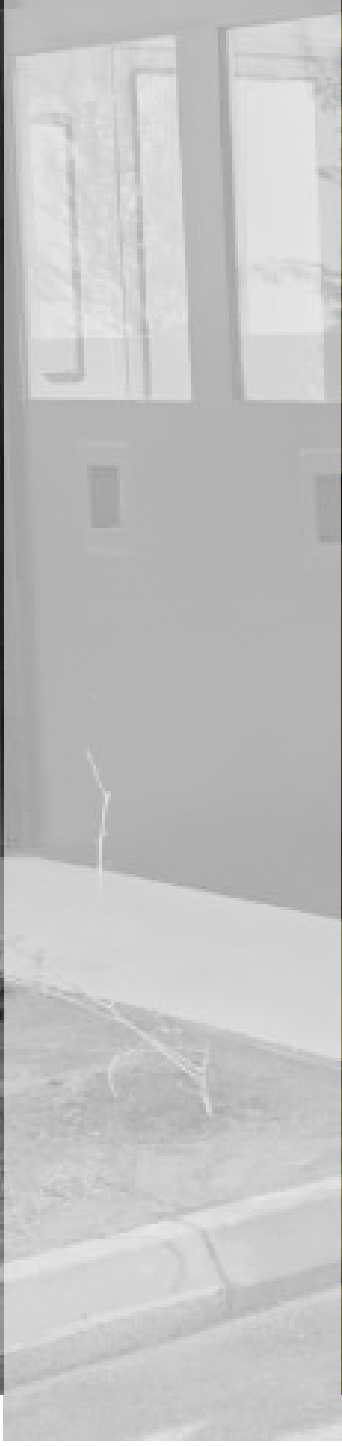
## AUTO PAY STATION

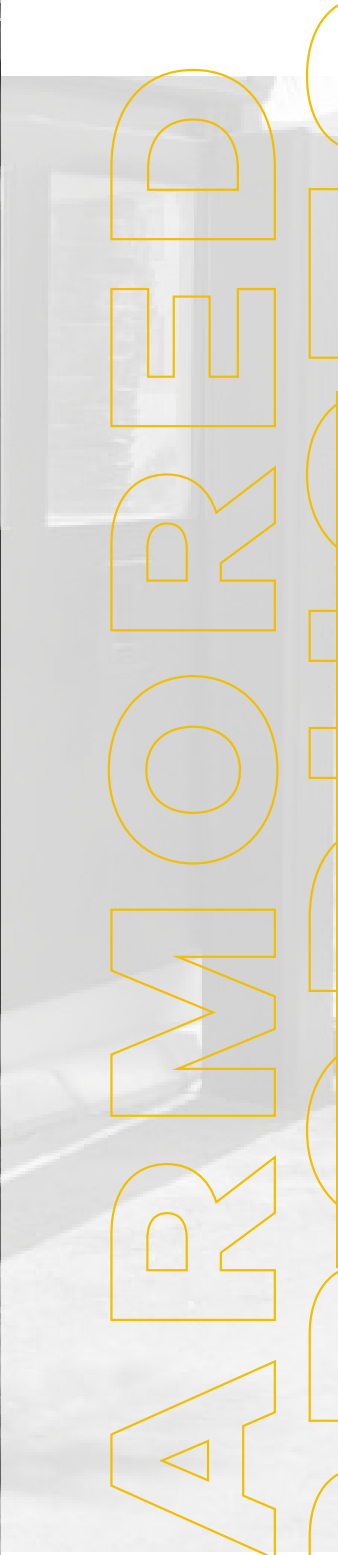
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Optima Payment Terminal is a user-friendly payment point where the system can be used in many different places. Payment Terminal can be used in airport car parks, municipal car parks, private institutions and many areas where the subscription system is actively used.

- The main body is galvanized steel
  - Human machine interface
    - Printer for QR code
    - Web based software
- TCP/IP communication protocol
  - Push button
  - Access control integration
- External QR code reader with ticketing software

**optima<sup>®</sup>**





# ARMORED PRODUCTS

**ARMORED  
PRODUCTS**

# Armored Products



## OPTIMA® | ARMORED PRODUCTS

Optima® armored products are designed especially for places that have a high threat of terrorist attacks, suicide vehicle attacks or for the ones that have high-security requirements.

Optima® armored products are secure to attacks with machine-gun bullets; full metal jacket, pointed bullet, hardcore, armored piercer (B7 Class). Armor grade B7 is tested and certified by internationally recognized third-party laboratories.

For all our products, different size and protection class options are available. Any kind of accessories can be added according to customer requests.



## SYSTEM FEATURES IN ARMORED PRODUCTS

### Armored Guard House

Balistic Protection Level	B3 / B4 / B5 / B6 / B7
Room Dimensions (cm)	236 (h) X 225 (w) X 285 (l) (can be customized)
Approximate Room Vol. (m³)	10
Optional Item	360° Shooting Tower Rotation
Tower Dimensions (cm) (if added)	133.5 (h) X 121 (w) X 128.5 (l)
Tower Vol. (m³) (if added)	1

### Standard armored guard house includes

Viewing Armored-Glass Windows

Shooting opening

Opening for passing documents in and out of the guard house

Flashing light and audible alarm on room's top outside

Outer lamps facing left, front and right sides. They can be directed from inside manually.

They can be rotated 360 degrees left to right and + / - 45 degrees up and down

Base for wireless communication, Electric sockets, Cable conduits

Room is fully insulated for water, heat transfer and sound

### Bulletproof Pedestrian Security Gate

Balistic Protection Level	B3 / B4 / B5 / B6 / B7
Direction	Single, swing gate
Operation	Manual
Appearance	Completely covered
Standard Height (mm)	2100
Standard Width (mm)	1200

### Bulletproof Pedestrian Security Gate

Balistic Protection Level	B3 / B4 / B5 / B6 / B7
Operation	Electromechanical / Hydraulic
Appearance	Completely covered
Height (mm)	1500-3500
Width (mm)	2000-10000
Motors	ESGO 4000 Sliding gate motor SWG0 1000 Swing gate motor

### Bulletproof Window

Frame	Bulletproof
Glass	Bulletproof
Dimensions	As per site requirements



# Armored Products



## **OPTIMA® | BPSG** BULLETPROOF PEDESTRIAN SECURITY GATE

B3 / B7 level. Heavy duty hinges. Hydraulic closer. Completely closed but includes space to check visitors.



## **OPTIMA® | BPSWG** BULLETPROOF SLIDING / SWING GATE

B3 / B7 level. Swing or sliding operation. Completely closed bulletproof design. Electromechanical motor sliding gate / hydraulic system for swing gate. Manual option is available.



## **OPTIMA® | AGH-10T** ARMORED GUARD HOUSE

B3 / B7 level. Shooting turret can be added as an option. Spaces for posts, spaces for shooting. Electric sockets. Comfortable area for guards. Customized design is available.



## **OPTIMA® |** BULLETPROOF WINDOW

B3 / B / level. Glass is certified by supplier. Can be designed as per site requirements. Covered with bullet proof steel profiles.

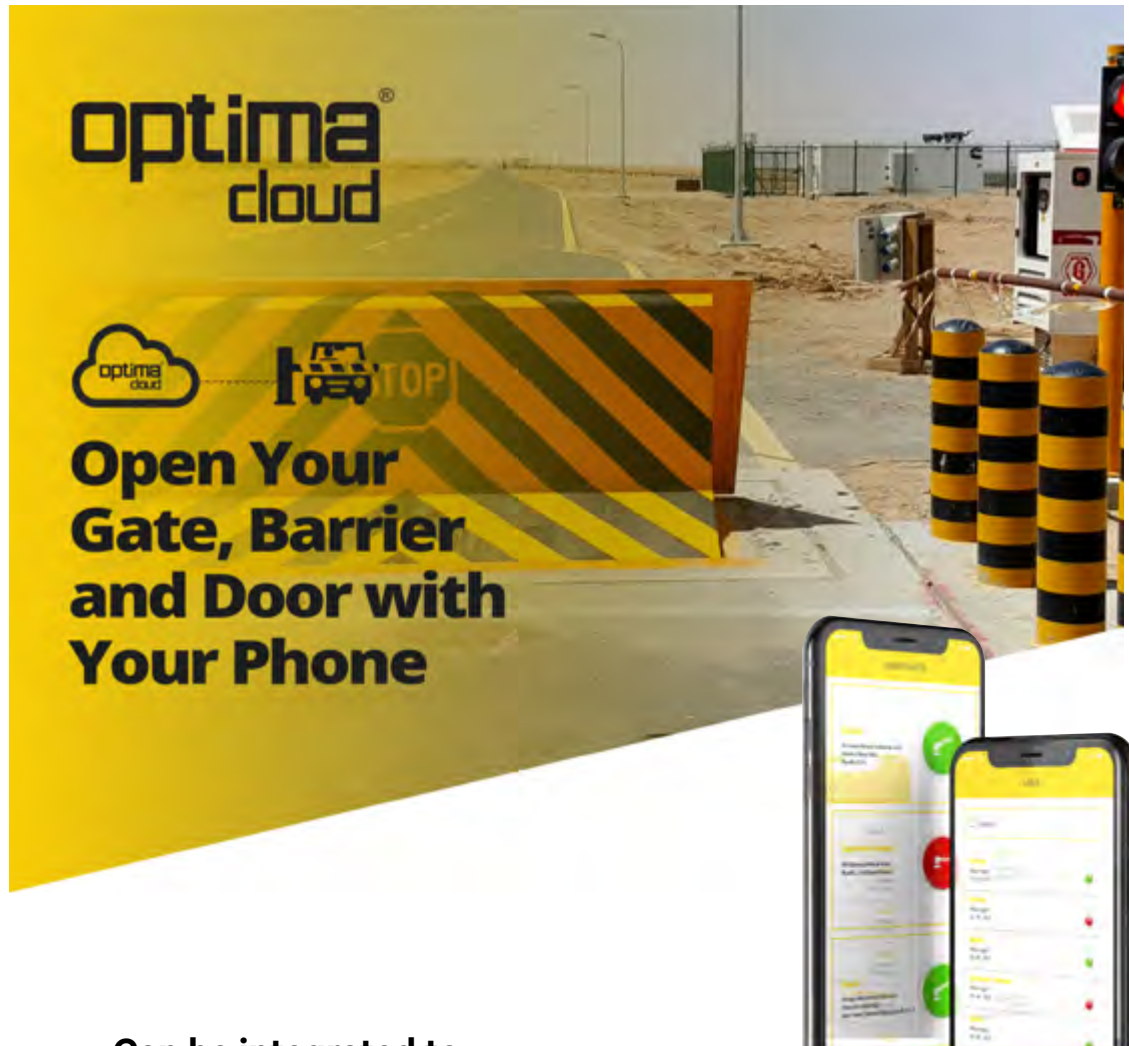
**optima<sup>®</sup>**



# IOT / SCADA APPLICATIONS

**IOT / SCADA  
APPLICATIONS**

# IOT / Scada Applications



Can be integrated to  
all automation and  
security products of  
any brand

Control by SMS,  
Calling, Internet,  
Web Interface and  
Bluetooth



# IOT / Scada Applications

## You Stay Secure

High and Last Technology



One Gate Multi-User



One Phone Multi-Gates



## System Architecture



Go to [cloud.optima.tc](https://cloud.optima.tc)



Sign in



Create Site (House, Work etc.)



Create Barrier



Create Mobile User



Integrate mobile user to barrier



Download Optima App



Write your caller mobile number on the APP



Write your authorization code



Control your barrier



# IOT / Scada Applications



## OPTIMA® IOT / SCADA APPLICATION

Optima® SCADA (Scada Application) System is software that monitors and controls multiple commercial and industrial security equipment like road blockers, barriers, sliding gates, etc. from one central control room. The system collects information, makes necessary analyses and provides control of all equipment and monitors that information on an operator screen.

Thanks to the SCADA System, open / close or raise / lower functions can be achieved and current positions of the equipment can be monitored on line. It is possible to get number of operations, number of vehicles entered and exit, passing information for a person, unauthorized passage information and many more. Besides, an additional IP camera can be integrated to the system to enable monitoring of transition zone in a real time.

Transmission Control Protocol / Internet Protocol called TCP / IP is used in communicating data across networks. Due to this, SCADA System can be controlled from all over the world through a web server on internet.

**Any Device**



**Anywhere**



**Anyone**



## **IOS-Android Devices**

(Mobile Phone, Tablet, PC, The free APP is available for all the latest IOS&Android Devices)



**Remote Access,  
User Management  
Multiplatform, Easy Install**



**High and Last  
Technology**



**16 I/O as your  
Requiriement**



**Open, Close and  
Status of the Gate Actuator**



**%100 Secure,  
Each Device has  
Unique ID**

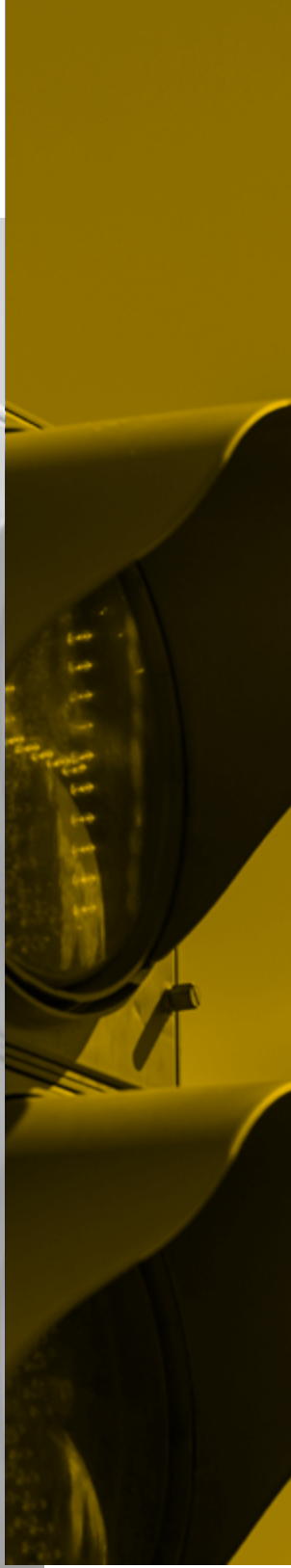


**Cloud Based**



**Log Record**

**optima<sup>®</sup>**



TRAFFIC  
LAMP

**TRAFFIC  
LAMP**

# Traffic Lamp



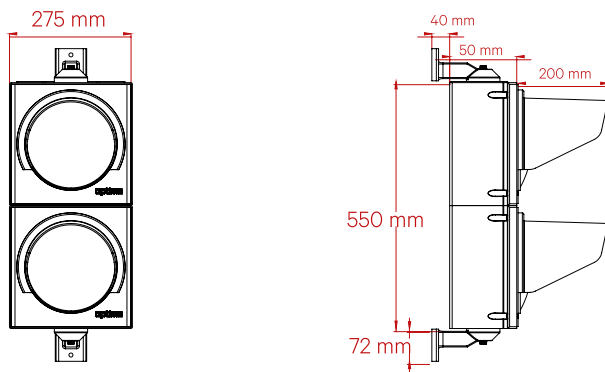
## OPTIMA® TL-200 TRAFFIC LAMP

Optima® provides solutions with its own produced traffic lamp at parking lot entrances, traffic training areas, in front of opening/sliding doors, inside facilities, road connections, intersections, pedestrian crossings and wherever traffic needs to be controlled.

## SYSTEM FEATURES IN TRAFFIC LAMP

Power	220V (+/-%10), 50/60 Hz
Reflector Diameter	200 mm
Material	Polycarbonate (100%PC)
Housing Color	Black
Power Consumption	9 Watt / Module
Light Distribution	Fresnel Lens
Environmental Conditions	IP65

## DIMENSIONS



**[www.optima.tc](http://www.optima.tc)**



## □ FACTORY

### OPTIMA ENGINEERING INC.

Başkent OSB. 19. Cad. No: 62 Maliköy 06909  
Sincan / Ankara / TÜRKİYE  
P. +90 312 815 15 00 F. 90 312 815 12 98

[optima@optima.tc](mailto:optima@optima.tc) | [www.optima.tc](http://www.optima.tc)

## □ EXPORT SALES & MARKETING

### ULGEN INDUSTRIAL SYSTEMS INC.

İlkbahar Mahallesi 621. Sokak No: 11, 06550  
Çankaya / Ankara / TÜRKİYE  
P. +90 312 472 59 77 F. 90 312 472 59 78

[admin@ulgen.com.tr](mailto:admin@ulgen.com.tr) | [www.ulgen.com.tr](http://www.ulgen.com.tr)

## □ KSA FACTORY

### FERIDUN ULGEN FACTORY FOR GATES AND BARRIERS INDUSTRY

Al Fowzan Rimash Industrial Zone,  
Al Mishal Dist 2851, Riyadh 14328-6950, KSA  
M. +966 53 892 64 46 T / F. +966 11 415 04 06

[ksa@ulgen.com.tr](mailto:ksa@ulgen.com.tr)

## □ AUTOGATE LIMITED S.R.L

Sector 3, Splaiul Unirii, Nr. 313, Constructia C1  
Bucuresti / ROMANIA

[info@autogatelimited.com](mailto:info@autogatelimited.com) | [www.autogatelimited.net](http://www.autogatelimited.net)

## □ SIGMA INDUSTRIAL SYSTEMS LIMITED

Unit Da2 Sutherland House, 43 Sutherland  
Road, London, E17 6BU  
P. +44 7388540418

[info@sigmaindustrialsystems.com](mailto:info@sigmaindustrialsystems.com)  
[www.sigmaindustrialsystems.com](http://www.sigmaindustrialsystems.com)



# optima®



PAS 68:2013  
K1500000000000



IWA 14-1:2013  
K1500000000000



ISO 9001  
ISO 9001:2015

