SiGMA
GATE BARRIER SYSTEM

PARKING ACCESS
NEXT GENERATION

Si-V6

ENGINEERED FOR SEAMLESS ENTRY & EXIT.

BRUSHLESS 24V DRIVE.
Stable. Efficient. Long-lasting.

8-MILLION-CYCLE LIFESPAN.
Built for extreme durability.

DESIGNED FOR THE FUTURE OF PARKING ACCESS.
Reliable performance you can trust.



8M	0.9s	IP54
CYCLES	OPEN SPEED	WEATHER SEALED

RELIABLE | INTELLIGENT | DURABLE

KOREAN TECHNOLOGY | www.wesigma.net | info@wesigma.net

Sigma Si-V6

STATE-OF-THE-ART PARKING ACCESS CONTROL

Sigma Si-V6 Parking Barrier Gate is a state-of-the-art solution reshaping parking access control with unparalleled efficiency and security. Engineered for seamless entry and exit experiences, this gate combines advanced technology with durability for optimal performance.

Choose Sigma for a future-ready parking management system that excels in reliability and innovation.

01 **Reliability**
8million-cycle lifespan, IP54 rating, brushless DC motor.

02 **Performance**
0.9–4.5sopen / close speed; PID closed-loop precision.

03 **Smart access**
LEDstatusindicator, RS485 / dry-contact integration.

Si-V6 · Vertical raised configuration



Standard 5.8 m extension straight arm · Customisation available

Key Features

Sixengineeringadvantagesthatdefinethe Si-V6.

01 Adjustable mechanism

Boom direction interchangeable on site — install for L or R configuration without ordering a different unit.

Si-V6 · KEY FEATURE

02 Crank rocker design

Compact structure, increased rigidity, reduced part count, easy maintenance and operation.

Si-V6 · KEY FEATURE

03 Auto self-locking

When the brake lever is positioned horizontally or vertically, the mechanism automatically engages a self-locking feature.

Si-V6 · KEY FEATURE

04 20% fewer components

Streamlined design reduces complexity and cuts the rate of mechanical defects.

Si-V6 · KEY FEATURE

05 Patented technology

Core mechanism protected by patent; built on proven Korean technology.

Si-V6 · KEY FEATURE

06 LED status indicator

Bright, viewable LED status indicator light communicates barrier state at a glance.

Si-V6 · KEY FEATURE

ENGINEERED FOR LONGEVITY

8 million operating cycles · IP54 protection · −30 °C to +85 °C

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Functions

Fivecoresub-systemsengineered for precision and durability.

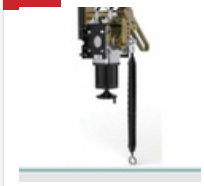
01



24V Brushless Motor

Planetary gear reducer with PID closed-loop control for precise operation. Low noise, minimal motor heating, oil-leakage free. Maintenance-free with a long lifespan.

02



Transmission Structure

Concise mechanical transmission with extremely low failure rate. Keyless design eliminates abrasion. Spindle base in ductile iron for durability.

03



Control Panel

Digital chip technology for accurate control. Operating temperature up to 85 °C. Failure-detection alarm activates if any control component malfunctions.

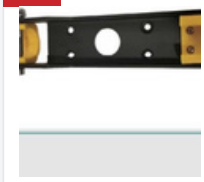
04



Balancing Spring

High-durability ergonomic design. Easy and convenient spring-tension adjustment for fast on-site setup.

05



Boom Connector

Auto-detaches on impact to protect both the vehicle and the gate body — no costly damage from collisions.

STATUS · LED INDICATOR

Optional LED strip · colour switches with state



GREEN
Passage allowed

RED
No passage

Specifications

Fullmechanical,electricalandoperationaldata sheet.

PARAMETER	VALUE
~~Housing dimension~~	~~340 × 275 × 1020 mm~~
Bar length	Standard 5.8 m extension straight arm ***Customisation available***
Power consumption	150 W
Power supply	220 V ± 10% · 50 / 60 Hz
Operating temperature	–30 °C to +85 °C
Mechanism	Vertical (single spring)
Housing thickness	1.5 mm
Motor	24 V brushless two-phase variable-speed ***full-copper DC motor·DC150W / AC125W***
Opening / closing speed	1.2 s – 6 s (adjustable per arm type)
Lifecycle	8 million cycles
Protection level	IP54
Remote control range	≤ 30 m
Railing size	Folding stick ≤ 5 m · Rack ≤ 5 m ***Straight bar≤ 6 m***
Communication	Dry contact / RS485

Boom direction — interchangeable

On-site reversible: configure for left- or right-hand operation without changing the unit.

L · Left configuration



Configuration
Case on the left side, boom on the right side

Boom opens to the RIGHT

R · Right configuration



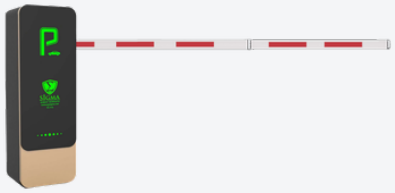
Configuration
Case on the right side, boom on the left side

Boom opens to the LEFT

Application

Choosetheboomthatfitsyourtraffic profile and lane width.

TYPE 01



3 m Boom

0.9s open / close

Most suitable for high-traffic sites such as expressways, business centres, commercial buildings, airports, seaports and transport stations.

TYPE 02



4.5 m Boom

2.5s open / close

Most suitable for high-traffic sites with wide lanes — premium commercial parks and large complexes.

TYPE 03



6 m Boom

4.5s open / close

Most suitable for low-traffic sites with wide lanes — industrial parks, apartments, government departments, public institutions.

TYPE 04



90° Folding Boom

1 s open / close

Most suitable for different types of underground parking lots where headroom is restricted.

TYPE 05



Fence Boom

2–3s open / close

Anti-climbing fence boom; supports 3 m and 4 m boom length for high-security perimeters.

TYPE 06



Custom Length

— specify on order

Custom boom lengths and finishes available on request to fit any lane geometry or branding requirement.

06 Complete the parking ecosystem

System Products

PairtheSi-V6withSigma'slaneandpaymenthardware for an end-to-end solution.



UHF Reader

Long-range RFID reader pole

SYSTEM 01



LPR Camera

Licence plate recognition unit

SYSTEM 02



Ticket Box

Entry / exitticketing terminal

SYSTEM 03



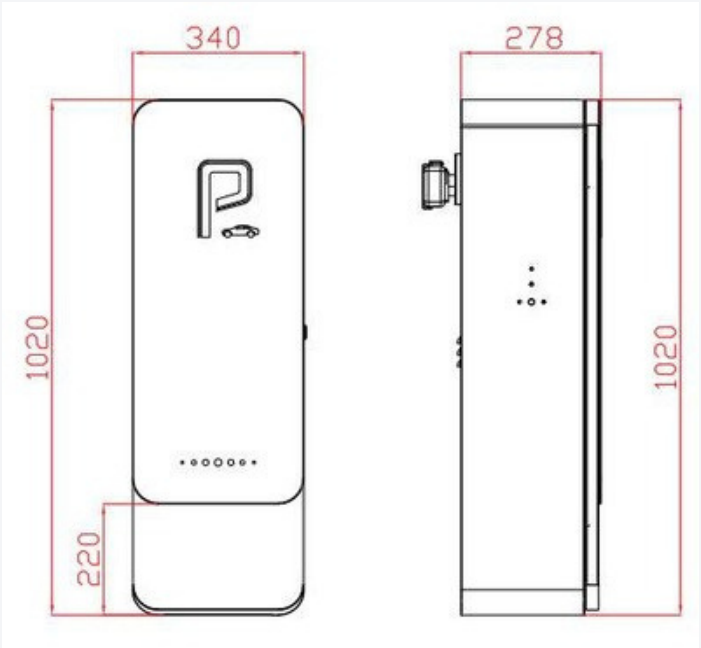
Payment Terminal

Self-service on-site payment

SYSTEM 04

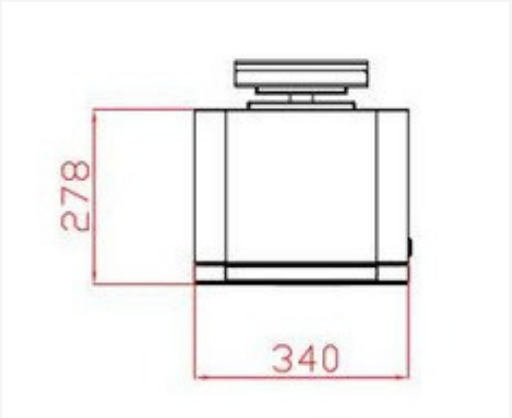
07 Mechanical drawing

Dimensions (mm)



Front view & Side view

340 W mm	278 D mm	1020 H mm



Top view

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Korean technology, engineered for parking.
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