

The image shows a modern parking garage entrance. A white barrier gate with red reflective stripes is partially raised. Above the gate, a circular red and white sign indicates a height limit of 1.9m. The gate is supported by a yellow vertical post. In the background, the interior of the parking garage is visible, with concrete pillars and fluorescent lighting. A red banner is at the bottom of the image.

HIKVISION®

HIKVISION BARRIER GATES

Lift the barrier to efficient,
tailored vehicle access management

INTRODUCTION

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520 Series
Barrier Gate



PAGE 10

Installation
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FAQ

Access control & traffic management made easy

Hikvision presents an extensive range of barrier gates suitable for various scenarios and needs, spanning entry-level to high-end models. These gates function as controlled access points, granting passage exclusively to authorized vehicles. Furthermore, by effectively managing the entry and exit of vehicles, they contribute to overall traffic management. Whether in bustling parking lots, gated communities or industrial parks, these barrier gates proficiently regulate the flow of vehicles, ensuring orderly access for all.

Product highlights



User-friendly interface

Integrated motherboard for easy operation



Modular design

Integrated design for easy installation and maintenance



Stable structure

DC brushless motor and DC frequency conversion technology to ensure accurate, smooth and low-noise operation



Intelligent safety protection

Including anti-collision, auto rebound, and power-off lift



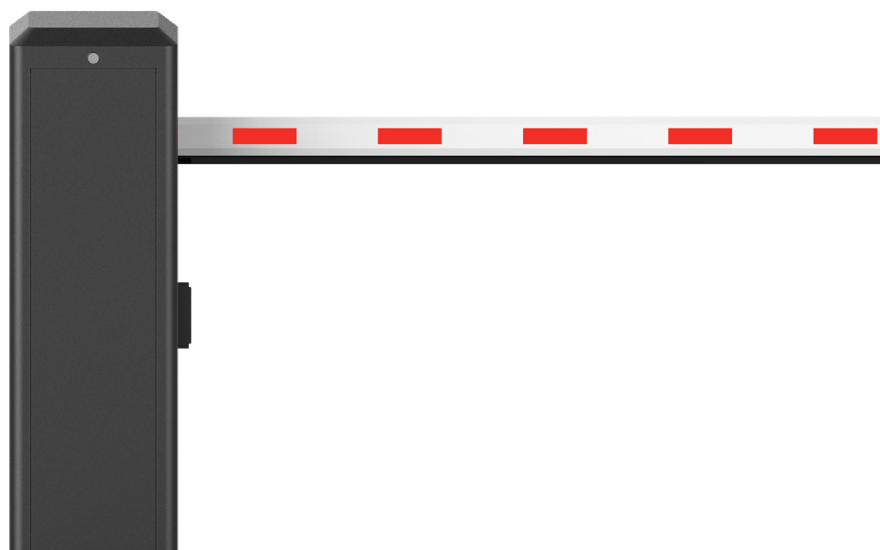
Extensive product selection

Diverse range of product categories, including boom poles and accessories, designed to meet various scenarios and requirements



Convenient remote control

Easily operated and monitored remotely, offering unparalleled convenience and flexibility

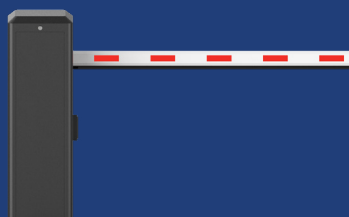




Barrier Gates

Components

- 1 Barrier Gate



- 2 Radar



- 3 ANPR Camera



- 4 LED Screen



Application Scenarios



Highway toll gates

Experience exceptional high-speed operation designed to efficiently manage the high volume of vehicles entering and exiting highway toll gates



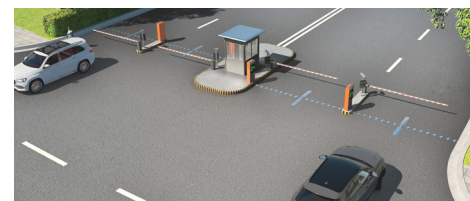
Malls & industrial parks

Streamline vehicle management in high-traffic areas such as bustling malls and industrial parks to improve operational efficiency



Public parking

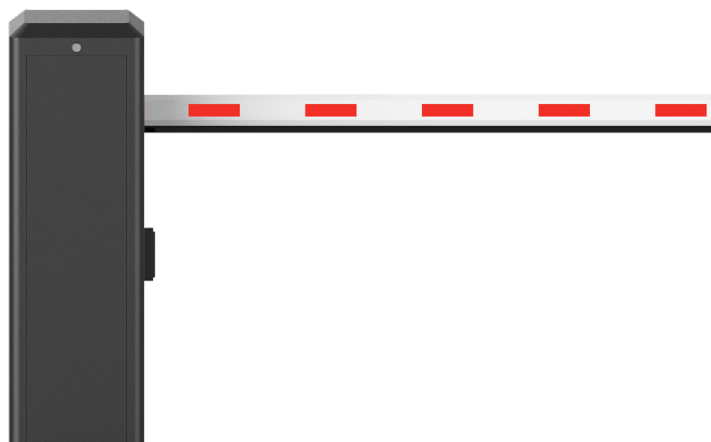
Enhance access control, prevent unauthorized parking, and increase overall parking management efficiency



Residential areas & office buildings

Effectively regulate vehicle access to enhance security and privacy for premises, ensuring a safe and controlled environment

Product Showcase



Ultra

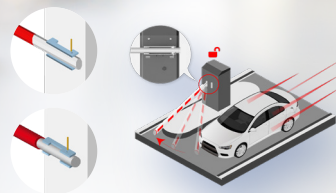
DS-TMG520 Series

MCBF*	5,000,000
Max. Rising Speed	0.9s(@3m)
Frequency of use	900 cycles/hour(@3m)
Material	SGCC
Motor Type	DC Brushless Motor

Ultra

DS-TMG520 Series

Higher efficiency, greater stability, and increased durability, fitting for premium utilization



Anti collision

To prevent deformation or breakage, the anti-collision boom pole will fall off the gate if it a vehicle makes contact.



Auto rebound

If the boom pole contacts a vehicle or pedestrian during descent, it will rebound immediately.



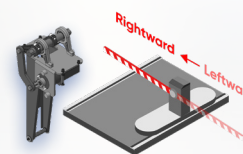
Remote control

In addition to software control, the remote controller supports emergency response when the barrier gate is offline.



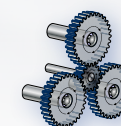
Movable top cover and mainboard

Incorporates a design with movable top covers and mainboard that streamlines wiring and maintenance procedures



Modular design

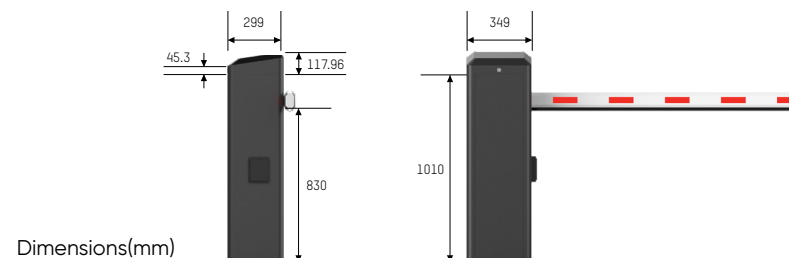
Modular design and switchable direction enhance ease of use and simplify installation and maintenance.



Planetary gear

The compact and strong planetary gear features high efficiency and load-bearing capacity, ensuring a stable, high-speed lift and drop.

Pole Length	Mean Time Between Failures (MTBF)	Rising Speed	Falling Speed
Up to 6m	5 Million Cycles	From 0.9s to 4s	From 3s to 6s



Dimensions(mm)

DS-TMG520 Series Octagonal Pole & Anti-Collision Round Pole & Boom Pole with Strip Light

Model	DS-TMG520
Motor	DC Brushless Motor
Mean Time Between Failures (MTBF)	5,000,000
Pole Type	Straight Pole (Octagonal/Round)
Rising Speed	3m: 0.9s 4m: 1.5s 6m: 4s
Falling Speed	3m: 1.5s 4m: 2.5s 6m: 4s
Pole Direction	Direction Switchable
Power Supply	220 VAC
Operating Temperature	-30 °C to 70 °C

DS-TMG520 Series Folding Pole

Model	DS-TMG520
Motor	DC Brushless Motor
Mean Time Between Failures (MTBF)	5,000,000
Pole Type	Folding Pole
Rising Speed	2+2m: 1.5s
Falling Speed	2+2m: 3.5s
Pole Direction	Direction Switchable
Power Supply	220 VAC
Operating Temperature	-30 °C to 70 °C

DS-TMG520 Series Fence Pole

Model	DS-TMG520
Motor	DC Brushless Motor
Mean Time Between Failures (MTBF)	5,000,000
Pole Type	Fence Pole
Rising Speed	4m: 3s
Falling Speed	4m: 6s
Pole Direction	Left/Right
Power Supply	220 VAC
Operating Temperature	-30 °C to 70 °C

Available Models

DS-TMG520

Baseline:

- 3/4/6m octagonal pole
- 3/4m anti-collision round pole
- 3/4/6m boom pole with strip light
- 1.5+1.5m/2+2m/2.5+2.5m folding pole
- 3/4/5m fence pole



Anti-Collision Round Pole

3m

4m



Octagonal Pole

3m

4m

6m

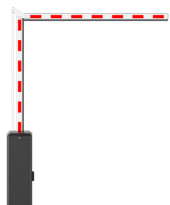


Boom Pole with Strip Light

3m

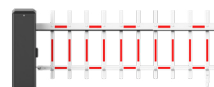
4m

6m



Folding Pole

1.5+1.5m	
2+2m	
2.5+2.5m	



Fence Pole

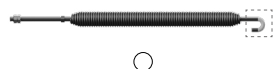
3m	
4m	
5m	

Accessories

Spring



φ40mm Small Size Spring (Green)



φ34.8mm Middle Size Spring (White)



φ43mm Big Size Spring (Red)

Chuck



Octagonal Pole Chuck



Big Octagonal Pole Chuck



Anti-Collision Round Pole Chuck



Adjustable Small Chuck
(Alternative Option)



Adjustable Big Chuck
(Alternative Option)

Barrier Gate Case



Barrier Gate Case

Warning Light



Warning Light

Remote Controller



Remote Controller

Bracket



Bracket
(supporting 5 meters /6
meters pole)

Selection Guidance

Pole Type	Description	Corresponding Spring Type and Number	Corresponding Spring		Chuck Type
Octagonal Pole	DS-TMG001-3 (3m octagonal)	1 Spring (White)	○		315102132 DS-TMG520-H 190606708 Integrated gate 2-Spring components 2 (White) 366002569 DS-TMG001-3 (3m octagonal)
	DS-TMG001-3 (4m octagonal)	1 Spring (White) + 1 Spring (Green)	○	●	315102132 DS-TMG520-H 190606708 Integrated gate 2-Spring components 2 (White) 190606707 Integrated gate 2-Spring components 3 (Green) 307500580 DS-TMG001-3 (4m octagonal)
	DS-TMG001-3 (6m octagonal)	1 Spring (Red) + 1 Spring (Green)	●	●	315102132 DS-TMG520-H 190606709 Integrated gate 2-Spring components 1 (Red) 190606707 Integrated gate 2-Spring components 3 (Green) 307500583 DS-TMG001-3 (6m octagonal)
Strip Light Pole	3m boom pole with strip light	1 Spring (Green)	●		315102132 DS-TMG520-H 190606707 Integrated gate 2-Spring components 3 (Green) 307500577 DS-TMG001-3 (3m/24V light)
	4m boom pole with strip light	1 Spring (White) + 1 Spring (Green)	○	●	315102132 DS-TMG520-H 190606708 Integrated gate 2-Spring components 2 (White) 190606707 Integrated gate 2-Spring components 3 (Green) 307500578 DS-TMG001-3 (4m/24V light)
	6m boom pole with strip light	1 Spring (Red) + 1 Spring (White)	●	○	315102132 DS-TMG520-H 190606709 Integrated gate 2-Spring components 1 (Red) 190606708 Integrated gate 2-spring components 2 (White) 307500579 DS-TMG001-3 (6m/24V light)
Anti-Collision Round Pole	3m anti-collision round pole	1 Spring (White)	○		315102132 DS-TMG 520-H 190606708 Integrated gate 2-Spring components 2 (White) 366000506 DS-TMG001-5 (3m anti-round) 190405209 ITS Controller13-WJ chuck for bar
	4m anti-collision round pole	1 Spring (White) + 1 Spring (Green)	○	●	315102132 DS-TMG 520-H 190606708 Integrated gate 2-Spring components 2 (White) 190606707 Integrated gate 2-Spring components 3 (Green) 366000506 DS-TMG001-5 (3m anti-round) 190405209 ITS Controller13-WJ chuck for bar

If the boom pole remains angled and doesn't reach horizontal at the lowest limit position, replace the octagonal pole chuck with an adjustable small chunk (compatible with 2/3/4m octagonal poles), or the big octagonal pole chuck with an adjustable big chunk (compatible with 5/6m octagonal poles)

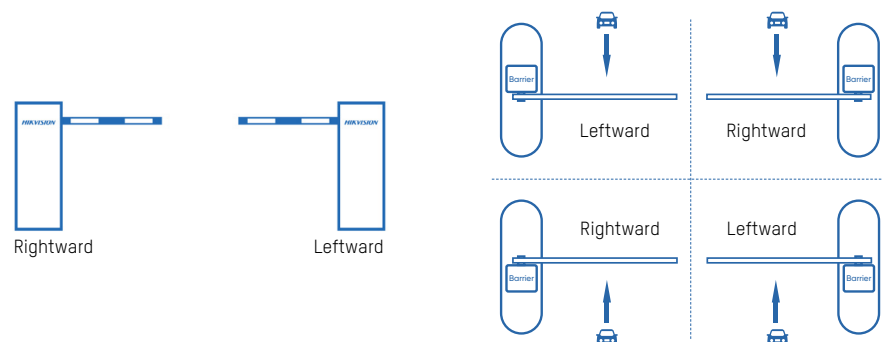
Pole Type	Description	Corresponding Spring Type and Number	Corresponding Spring		Chuck Type
Folding Pole	1.5+1.5m Folding Pole	1 Spring (White)	○		315102132 DS-TMG520-H 190606708 Integrated gate 2-Spring components 2 (White) 366000371 DS-TMG002-5(1.5+1.5m) 190150359 ITS Controller13-Chuck for HCW
	2+2m Folding Pole	1 Spring (White) + 1 Spring (Green)	○	●	315102132 DS-TMG520-H 190606708 Integrated gate 2-Spring components 2 (White) 190606707 Integrated gate 2-Spring components 3 (Green) 366000372 DS-TMG002-5(2+2m) 190150359 ITS Controller13-Chuck for HCW
	2.5+2.5m Folding Pole	2 Spring (White)	○	○	315102132 DS-TMG520-H 2x 190606708 Integrated gate 2-Spring components 2 (White) 366000400 DS-TMG002-5(2.5+2.5m) 190150359 ITS Controller13-Chuck for HCW
Fence Pole	3m Left Fence Pole	2 Springs (White)	○	○	315102132 DS-TMG520-H 2x 190606708 Integrated gate 2-Spring components 2 (White) 366000375 DS-TMG004-5(3m left fence) 190148628 ITS Controller13-Simple chuck for bar
	3m Right Fence Pole	2 Springs (White)	○	○	315102132 DS-TMG 520-H 2x 190606708 Integrated gate 2-Spring components 2 (White) 366000376 DS-TMG004-5(3m right fence) 190148628 ITS Controller13-Simple chuck for bar
	4m Left Fence Pole	1 Spring (Red)+1 Spring (White)	●	○	315102132 DS-TMG520-H 190606709 Integrated gate 2-Spring components 1 (Red) 190606708 Integrated gate 2-Spring components 2 (White) 366000377 DS-TMG004-5(4m left fence) 190148628 ITS Controller13-Simple chuck for bar
	4m Right Fence Pole	1 Spring (Red)+1 Spring (White)	●	○	315102132 DS-TMG520-H 190606709 Integrated gate 2-Spring components 1 (Red) 190606708 Integrated gate 2-spring components 2 (White) 366000378 DS-TMG004-5(4m right fence) 190148628 ITS Controller13-Simple chuck for bar
	5m Left Fence Pole	2 Springs (Red)	●	●	315102132 DS-TMG520-H 2x 190606709 Integrated gate 2-Spring components 1 (Red) 366000379 DS-TMG004-5(5m left fence) 190148628 ITS Controller13-Simple chuck for bar
	5m Right Fence Pole	2 Springs (Red)	●	●	315102132 DS-TMG520-H 2x 190606709 Integrated gate 2-Spring components 1 (Red) 366000380 DS-TMG004-5(5m right fence) 190148628 ITS Controller13-Simple chuck for bar

If the boom pole remains angled and doesn't reach horizontal at the lowest limit position, replace the big octagonal pole chuck with an adjustable big chunk (compatible with fence poles)

Installation Guidance

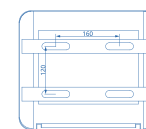
Differentiating between left and right sides of the barrier gate

The 52 Series: By default, the barrier gate is set for the right direction. If you need to use it in the left direction, some adjustments are necessary.

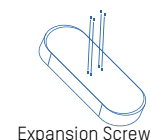


Installation of the main unit

Mark the Positions of Holes Install Expansion Screws



52 Series
Positioning Plate



Expansion Screws

Fix the Main Unit



52 Series



DS-TMG52X Series
Barrier Gate User
Manual

FAQ

Q1: What should I do if I'm unable to control the barrier gate with the remote controller?

First, check if the remote controller has batteries installed and if the batteries are charged. Next, verify if the remote controller has been successfully learned by the corresponding barrier gate.

Additionally, check if the barrier gate is in a lock or anti-fall triggered status.

Finally, confirm if the barrier gate can be controlled by pressing the buttons on the mainboard, ensuring its proper functioning.

Q3: How can I adjust the opening and closing speed of the barrier gate?

For the 52 series barrier gates:

Press the "Rise" button to raise the pole to the limit position.

Hold down the "Learn" button until the nixie tube displays H0. Use the "Fall" button to adjust the pole to H2 status (rising speed)/H3 status (falling speed).

Hold down the "Learn" button until the nixie tube displays L3. (L3 is the fastest speed, L1 is the slowest speed)

Use the "Rise" and "Fall" buttons to adjust the speed.

Press the "Learn" button to save the current settings and exit. Press the "Learn" button again to exit from the settings.

Q2: What is the maximum number of remote controllers that different models of barrier gates support?

The 52 series barrier gates support up to 48 remote controllers.

Q4: How can I integrate the barrier gate with third-party devices?

For the 52 series barrier gates:

The rising control+/-/falling control+/-/stopping control+/- interface needs to receive an I/O signal. Closing the rising control+ and rising control- connections will open the gate, and vice versa. To keep the gate open, the input signal of rising control+ and rising control- should be continuously on. The gate can be closed only when the input signal disappears.



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