TOPENS RK990T

TOPENS RK990T Automatic Sliding Gate Opener Instruction Manual

Model: RK990T | Brand: TOPENS

1. PRODUCT OVERVIEW

The TOPENS RK990T is a robust automatic sliding gate opener designed for heavy-duty applications. It features a powerful 1/2 HP 370W AC motor capable of moving slide gates weighing up to 2200 pounds and up to 40 feet in length. This system is engineered for quiet operation and enhanced security, making it suitable for various residential, commercial, courtyard, farm, and ranch gates made of steel, wood, vinyl, or chain-link.

Image 1.1: The TOPENS RK990T gate opener unit, two remote controls, and sections of nylon gear rack.

2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Read all instructions carefully before beginning. Ensure the gate area is clear of obstructions and people before operating the gate. The system includes a safety stop-and-reverse module that activates if an obstruction is detected during gate movement. Keep remote controls out of reach of children. In case of power outage, use the manual release key to operate the gate.

3. COMPONENTS INCLUDED

The TOPENS RK990T package includes the following main components:

- RK990T Gate Opener Unit
- 2 x M12 Remote Controls (with 65' operation range)

- 12 pcs Nylon Gear Racks (total 13 feet)
- Manual Release Key
- Magnet Assembly (for limit adjustment)
- Full Set of Required Installation Hardware

STRONG POWERFUL MOTOR
Easy DIY Installation with Assembly Parts Included

Magnet Assembly, reliable electromagnetism limit for easy adjustment

12 pcs Nylon Gear Racks, total 13 feet, easy to install with minimum maintenance requirement

Durable Gear-wheel, commercial grade material for stable and long lifetime

2 x M12 Remote Control, with 65' operation range

Manual Release Key, in case of power outage or when you lose your remote

Smart Chip, TOPENS Technology brings ultimate safety protection

Waterproof for Outdoor Use

Working Temp 0°F to 120°F

Operate Quietly less than 50dB

Image 3.1: Detailed view of the RK990T gate opener's internal components and included accessories.

4. SETUP AND INSTALLATION

The RK990T is designed for straightforward DIY installation using common tools. No welding is required. The installation process involves mounting the gate opener unit, installing the nylon gear racks along the gate, and connecting the power supply. The electromagnetism limit switch allows for simple adjustment of the gate's open and close positions. The system can be configured for gates opening towards either the left or the right.
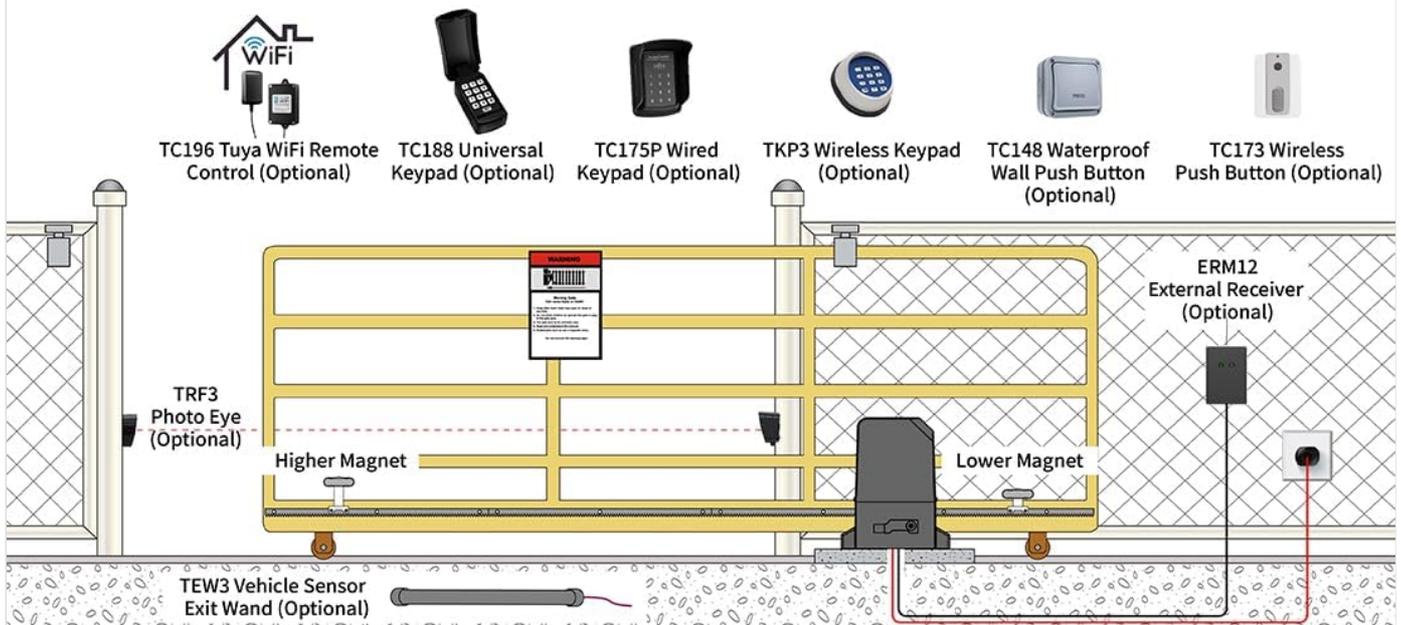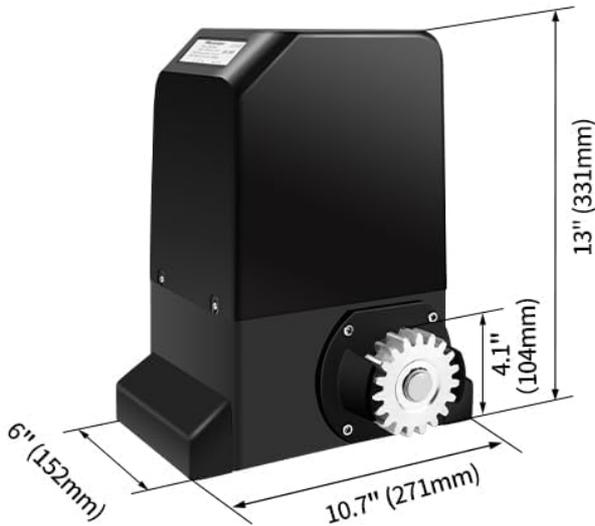
Image 4.1: Dimensional drawing of the RK990T unit and a schematic of a typical gate setup with optional accessories.

For detailed step-by-step instructions, please refer to the official user manual PDF available on the TOPENS website or via the provided document link: User Manual (PDF).

5. OPERATING INSTRUCTIONS

Operating the RK990T gate opener is simple and convenient:

- **Standard Operation:** Pressing the remote button will automatically open or close the gate.
- **Midway Mode:** This feature allows for partial gate opening, ideal for pedestrian access or when only a small opening is needed for vehicles.
- **Auto-Close Function:** For enhanced security, the gate can be set to automatically close after a predetermined period.
- **Manual Release:** In the event of a power outage or if the remote is lost, the included manual release key can be used to disengage the motor and operate the gate manually.
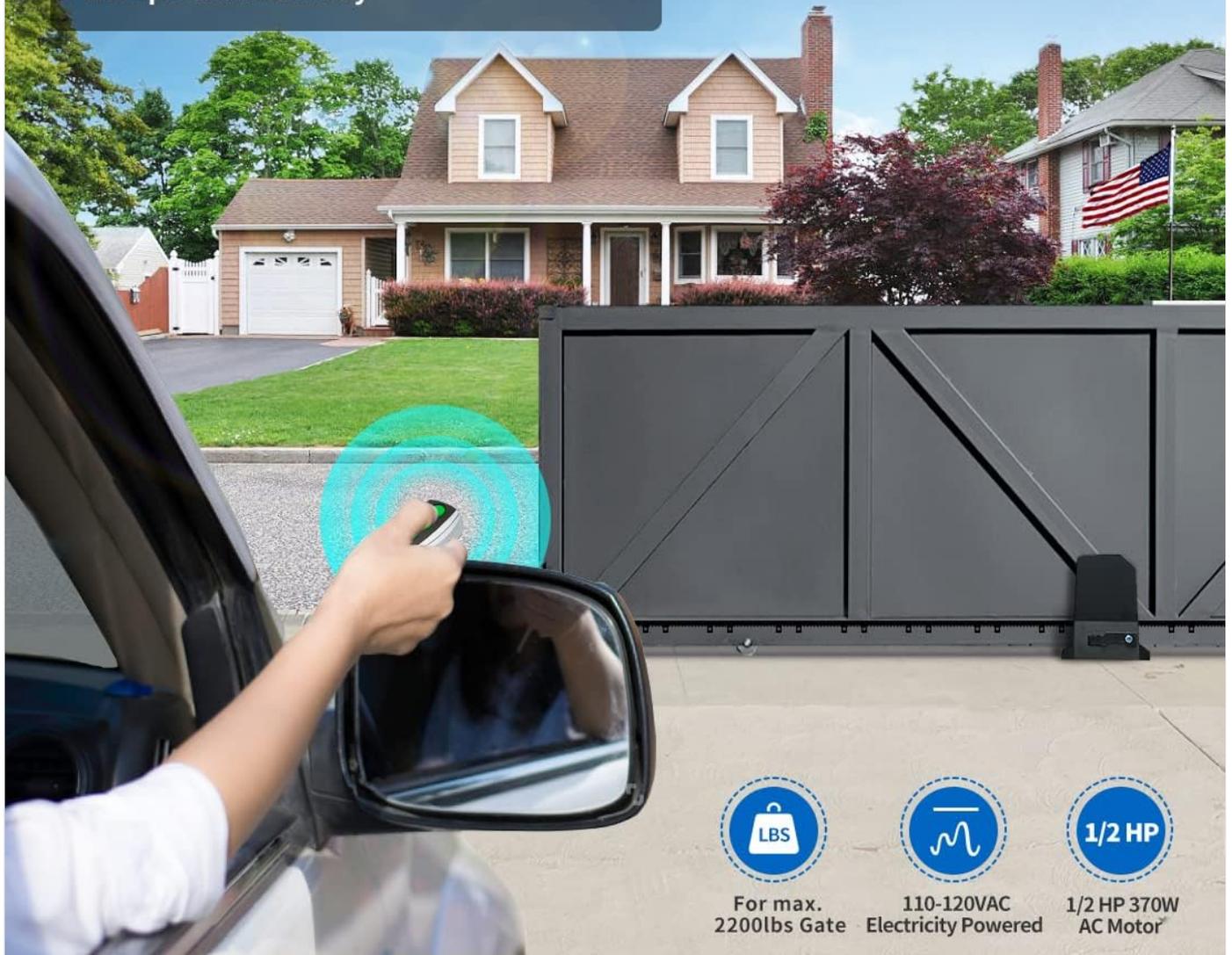
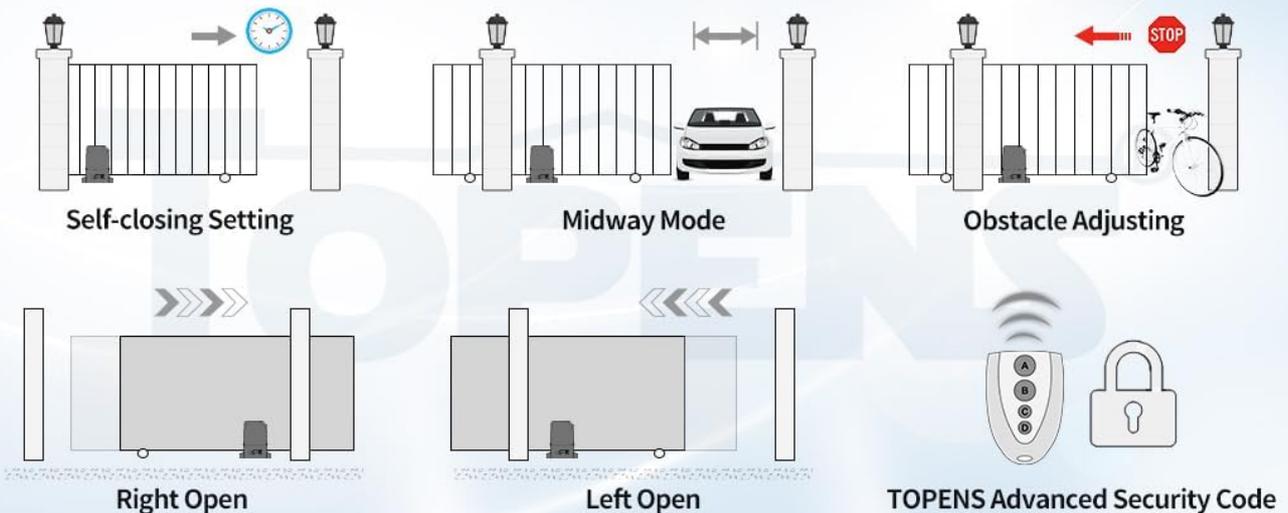Image 5.1: Illustrates the ease of opening the gate with a remote control.

Image 5.2: Explains various operational modes and gate opening directions.

6. MAINTENANCE

The TOPENS RK990T is designed for minimal maintenance. The nylon gear racks are durable and require little upkeep. Periodically inspect the gate and opener for any debris, loose connections, or signs of wear. Keep the gear rack clean to ensure smooth operation. Lubricate moving parts as recommended in the full user manual.

7. TROUBLESHOOTING

If you encounter issues with your RK990T gate opener, consider the following common solutions:

- **Gate Not Moving:** Check the power supply. Ensure the manual release is fully engaged (or disengaged if you want automatic operation). Verify remote control batteries.
- **Gate Stops Unexpectedly:** The safety stop-and-reverse module may have detected an obstruction. Clear the path of the gate and try again. Inspect the gate path for any physical impediments.

- **Remote Control Issues:** Ensure you are within the 65-foot operating range. Check battery levels in the remote.
- **Power Outage:** Use the manual release key to unlock the gate and operate it manually until power is restored.

For more detailed troubleshooting steps, refer to the comprehensive user manual or contact TOPENS customer support.

8. SPECIFICATIONS

Key technical specifications for the TOPENS RK990T Automatic Sliding Gate Opener:

Specification	Value
Manufacturer	TOPENS
Part Number	RK990T
Item Weight	43.2 pounds
Product Dimensions	10.67 x 5.98 x 13.03 inches
Power Source	AC
Voltage	110 Volts
Wattage	370 watts
Horsepower	0.5 hp
Maximum Weight Capacity	2200 Pounds
Maximum Gate Length	40 feet
Sound Level	50 dB
Temperature Range	Minus 4 to 122 Degrees Fahrenheit
Batteries Required	Yes (6 CR2 batteries for remotes, included)
Included Components	1 x Full Set of Required Installation Hardware

	RK500T	RK990T	RK1100T
Rack Included	13ft	13ft	13ft
Gate Capabilities	1300lbs. and 40ft	2200lbs. and 40ft	2800lbs. and 40ft
Motor Voltage & Power	120VAC & 300W, 2/5 HP	120VAC & 370W, 1/2 HP	120VAC & 450W, 3/5 HP
Gate Moving Speed	8 in/s (20 cm/s)	8 in/s (20 cm/s)	8 in/s (20 cm/s)
Power Mode	AC Electricity ONLY	AC Electricity ONLY	AC Electricity ONLY
Battery Capable & Solar Compatible	X	X	X
# of Remote Controls Included	2	2	2
Compatible Accessories	All the TOPENS Accessories	All the TOPENS Accessories	All the TOPENS Accessories
Overall Dimension	11.3 x 5.7 x 10.4" (287 x 144 x 263 mm)	10.7 x 6 x 13" (271 x 152 x 331 mm)	11.3 x 5.7 x 10.5" (287 x 144 x 266 mm)

Image 8.1: Comparison of RK990T specifications with other TOPENS sliding gate opener models.

9. COMPATIBLE ACCESSORIES

The RK990T system can be enhanced with various TOPENS accessories to expand its functionality and convenience. These include additional remote controls, keypads, photo eye sensors, warning lights, and more. For a full list of compatible accessories and their availability, please visit the official TOPENS online store.

Compatible Accessories
Available at TOPENS Online Store

TC196 Tuya WiFi Remote Control

TC188 Universal Keypad

TC175P Wired Keypad

TKP3 Wireless Keypad

HLR01 Homelink Remote Control Kit

TC148 Waterproof Wall Push Button

TC147 Wall Push Button

TC173 Wireless Push Button

TEW3 Vehicle Sensor Exit Wand

TRF3 Reflection Photocell Sensor

TC102 Photo Eye Beam Sensor

JD110VY Warning Light

RNH2 Heavy Duty Nylon Gear Rack

RNH4 Heavy Duty Nylon Gear Rack

M12 Remote Control Transmitter

ERM12 Universal External Receiver

Image 9.1: A selection of compatible accessories available for TOPENS gate openers.

10. WARRANTY AND CUSTOMER SUPPORT

All TOPENS products, including the RK990T, come with a 12-month warranty against defects. Additionally, TOPENS offers a 30-day exchange and return policy. For any questions, technical assistance, or personalized service, TOPENS provides excellent customer support. You can find user manuals, installation videos, and contact information on the official TOPENS website.

Image 10.1: TOPENS is committed to providing professional customer support.

Visit the TOPENS Store for more information: TOPENS Official Store