

MR900 Video Smart Lock

GPS / 4G video security e-lock with live video, GPS/BeiDou tracking, tamper alarms and sealing / unsealing by NFC card, reader, app or platform.



Key figures



CAMERA

2 MP

snapshot + clip on every event



NETWORK

4G LTE

+ Bluetooth 5.2



POSITIONING

GPS / BeiDou

accuracy CEP ≤ 3 m



BATTERY

14,400 mAh

12,600 mAh low-temp option



PROTECTION

IP67

-20 ... +70 °C (-40 °C option)



UNSEALING

NFC · App

reader, card, platform

Specifications

Typical values — continued on page 2.

Product	MR900 Video Smart Lock — GPS / 4G video security e-lock for containers, trucks and cargo
Lock body	Approx. 91 × 142 × 48.6 mm; no keyhole on the lock body
Lock cable	Ø 7 mm 304 stainless steel (Ø 4 mm optional). Cable ends separate after unsealing; cable length to order
Materials	Die-cast aluminium alloy body; display window of 5 mm tempered glass; silicone protective cover
Lock ID	Unique lock number, unchanged from production to disposal
Communication	4G (LTE) and Bluetooth 5.2
Positioning	GPS / BeiDou; accuracy CEP 3 m or better
Camera	2 MP HD camera. Snapshots and video clips are triggered automatically on locking, unlocking and tamper events and uploaded to the monitoring platform
Live video	Real-time video in the platform and app; H.264 encoding
Remote functions	Location tracking, live video, remote and local snapshots, track playback, real-time lock status, video recording on alarm
Storage	Optional TF card 8 GB to 512 GB. Internal flash stores up to 8,000 records when there is no network (blind spots)
Display	OLED: battery level, lock status and signal strength



Specifications (continued)

Sealing / unsealing	Fixed readers, handheld readers, NFC card, mobile app or remote command from the platform
NFC	13.56 MHz IC card, ISO/IEC 14443A
Tamper alarm	Alarm and platform notification when the lock body is tampered with or the cable is cut. Alarm omission rate (missed or false records) below 0.01 % without hardware failure
Security strength	Dual mechanical and electronic locking; withstands impacts and vibration in daily use; cable tensile strength above 200 kg when locked
Battery	Lithium battery 14,400 mAh (standard); 12,600 mAh low-temperature battery (optional). Smart power management keeps enough reserve to unlock at the destination
Battery life	3 to 180 days, depending on reporting interval and other settings
Charging	DC 5.5 mm port, 5 V / 3 A
Operating temperature	-20 °C to +70 °C with the standard battery; -40 °C to +70 °C with the low-temperature battery
Storage temperature	-40 °C to +85 °C
Ingress protection	IP67
Environment	Operates normally under low and high temperature, vibration, humidity, rain and snow, salt spray, drop, dust and electromagnetic fields (IEC 60068-2 series)
Humidity	+40 °C at 95 % RH, non-condensing, 48 h (IEC 60068-2-78)
Vibration	Sweep 5–300 Hz at 1 oct/min, 30 min per axis, 3 axes; 10 mm peak at 5–11 Hz, 50 m/s ² at 11–300 Hz (IEC 60068-2-6)
Shock	Half-sine 30 g, 11 ms, 3 shocks per direction on each of 3 axes (IEC 60068-2-27)
Salt spray	5 % NaCl at 35 °C, 48 h, no rust (IEC 60068-2-11)
EMC	Radiated immunity 24 V/m, 20–1000 MHz (GB/T 17626.3); electrostatic discharge 7 kV contact / 14 kV air (GB/T 19951)

Specifications are typical values and may change without notice; the binding configuration (cable, battery, TF card, platform) is confirmed in the MinRix quotation.

Battery life, video and data use depend on the configured reporting interval, recording settings and network coverage along the route.

Demo units and a platform demo are available on request: tech@minrix.com.

