LINOVISION

GO SOLO LPR

4G LTE Solar Power ANPR Camera Kit with built-in License Plate Recognition Software and Vehicle Capture



Outstanding Features

- Complete solar power camera kit, easy to install and setup
- 600Wh high capacity lithium battery to keep system running around 72 hrs in raining days
- Built-in unlocked industrial 4G LTE router, compatible to AT&T, T-Mobile and Verizon (SIM Card is not included)
- Al deep learning + OCR dual recognition modes
- Up to 98% recognition accuracy, much higher than regular OCR-based recognition
- Dedicated firmware for the United States, Europe, Asia and Middle East.
- 8-32mm motorized lens(optional 2.8-12mm lens)
- · Vehicle attributes analysis
- Alarm I/O
- Onboard 256GB storage for one month continuous recording
- Free mobile App for both Android & iOS (App name: Guarding Vision)
- Optional API document for 3rd party system integration

What is included in this camera:

- Solar panel 100W and pole mount bracket
- · 600WH lithium battery with built-in charge controller
- One ANPR Camera (IPC7A27-ANPR)
- Built-in 4G LTE cellular router (SIM card needs to purchase separately)
- 256GB SD Card



Camera Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON)
Shutter Speed	1 s to 1/100,000 s
Wide Dynamic Range	140 dB
	IR cut filter
Day & Night	
	Blue glass module to reduce ghost phenomenon
Lens	
Focus	Auto, semi-auto, manual.
	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal
	FOV: 141.1° to 48°
Lens Type & FOV	8 to 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV:
	49.6° to 17.3°
	2.8 to 12 mm: F1.2 to 2.5
Aperture	8 to 32 mm: F1.7 to F1.73
P-Iris	Yes
Illuminator	1.60
Illuminator	2.8 to 12 mm: 50 m
IR Range	
-	8 to 32 mm: 100 m
Wavelength	850 nm
Smart Supplement Light	Yes
Video	
Max. Resolution	1920 × 1080
	50 Hz: 25 fps (1920 × 1080, 1280 × 720)
Main Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720)
	50Hz: 25fps (704 × 576, 640 × 480)
Sub Stream	60Hz; 30fps (704 × 480, 640 × 480)
	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	
	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
T odruf odream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fifth Charles	50Hz: 25fps (704 × 576, 640 × 480)
Fifth Stream	60Hz: 30fps (704 × 480, 640 × 480)
	50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Custom Stream	60Hz: 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
	Main stream: H.265+/H.265/H.264+/ H.264
Video Compression	Sub-stream/Third stream/Fourth stream/Fifth stream/custom stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
	Main Profile
H.265 Type	
Bit Rate Control	CBR/VBR
Stream Type	Main stream/sub-stream/third stream/fourth stream/fifth stream/custom stream
Scalable Video Coding (SVC)	H.265 and H.264 support
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3
	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/32Kbps(PCM)/8-
Audio Bit Rate	320Kbps(MP3)
Audio Type	Mono sound
Network	,
	Unite 20 channels
Simultaneous Live View	Up to 20 channels
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP
Duata and	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
Smooth Streaming	Yes
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
	Password protection, complicated password, HTTPS encryption,802.1X authentication
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE
Security	and digest authentication for ONVIF, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2
	microSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto
Natural Chaman	network replenishment (ANR)
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200, Hik-Connect, Hik-Central
	Plug-in required live view: IE8+
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+



Specification

Image	
	The ID LEDs as comerc should support Smort ID function to support cells adjust power
Smart IR	The IR LEDs on camera should support Smart IR function to automatically adjust power to avoid image overexposure.
Day/Night Switch	Day, Night, Auto, Schedule, Triggered by Alarm In, Triggered by Video
Target Cropping	Yes
Distortion Correction Distortion	Yes
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction
Image Parameters Switch	Yes
3	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance
Image Settings	adjustable by client software or web browser
SNR	≥52 dB
Interface	
Alarm	2 input, 2 outputs (max. 24 VDC, 1 A)
Video Output	1 Vp-p Composite Output(75Ω/CVBS)(For debugging only)
On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
Smart Feature-Set	
	Motion detection, video tampering alarm, exception (network disconnected, IP
Basic Event	address conflict, illegal login, HDD full, HDD error), black/white list of license plate
	Line crossing detection, up to 4 lines configurable
	Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region
	exiting detection, up to 4 regions configurable
Smart Event	Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable
	Scene change detection, audio exception detection
Counting	Yes
Intelligent (Deep Learning Algorithm)	
3 3 3	Line crossing, intrusion, region entrance, region exiting
	Support alarm triggering by specified target types (human and vehicle)
Premier Protection	Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc.
	Accuracy (under recommended installation and lighting conditions)
	Capture rate > 98%
	Vehicle moving direction recognition accuracy > 96% Mistaken capture rate < 2% (entrance/exit), < 5% (checkpoint)
	Blacklist and whitelist: up to 10000 records
Road Traffic and Vehicle Detection	Captures vehicle that has no license plate
	Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection,
	including vehicle type, color, brand, etc. (City Street mode is recommended.)
General	,g
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm
	output, trigger recording, trigger capture
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP
3	SFTP, HTTP, NAS, Email
Online Upgrade	Trigger notification: HTTP, ISAPI, alarm output, Email Yes
Online Upgrade Dual Backup	Trigger notification: HTTP, ISAPI, alarm output, Email
Online Upgrade Dual Backup Firmware Version	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes
Dual Backup	Trigger notification: HTTP, ISAPI, alarm output, Email Yes
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Dual Backup Firmware Version Web Client Language	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks,
Dual Backup Firmware Version Web Client Language General Function	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter
Dual Backup Firmware Version Web Client Language General Function Software Reset	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Dual Backup Firmware Version Web Client Language General Function Software Reset Storage Conditions	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes
Dual Backup Firmware Version Web Client Language General Function Software Reset Storage Conditions Startup and Operating Conditions	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
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Dual Backup Firmware Version Web Client Language General Function Software Reset Storage Conditions Startup and Operating Conditions Power Supply	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) 12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4
Dual Backup Firmware Version Web Client Language General Function Software Reset Storage Conditions Startup and Operating Conditions Power Supply Power Consumption and	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) 12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4 12 VDC, 1.33 A, max. 16.0 W
Dual Backup Firmware Version Web Client Language General Function Software Reset Storage Conditions Startup and Operating Conditions Power Supply Power Consumption and Current	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) 12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4 12 VDC, 1.33 A, max. 16.0 W PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W
Dual Backup Firmware Version Web Client Language General Function Software Reset Storage Conditions Startup and Operating Conditions Power Supply Power Consumption and Current Power Interface	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) 12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4 12 VDC, 1.33 A, max. 16.0 W PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W Three-core terminal block
Dual Backup Firmware Version Web Client Language General Function Software Reset Storage Conditions Startup and Operating Conditions Power Supply Power Consumption and Current Power Interface Material	Trigger notification: HTTP, ISAPI, alarm output, Email Yes Yes Yes V5.5.121 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Anti- flicker, 5 streams and up to 5 custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter Yes -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) 12 VDC ± 20%, three-core terminal block, reverse polarity protection; PoE: 802.3at, Type 2 Class 4 12 VDC, 1.33 A, max. 16.0 W PoE: (802.3at, 42.5V-57V), 0.43 A to 0.31 A, max. 18.0 W Three-core terminal block Aluminum alloy body

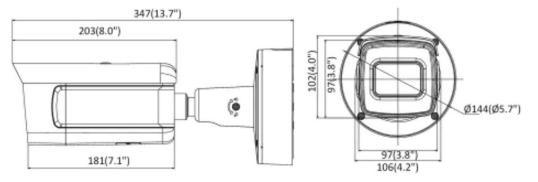
^{*}Disclaimer: Design and specifications are subject to changes without prior notice.



Specification

Package Dimension	405 × 190 × 180 mm (15.9″ × 7.5″ × 7.1″)	
Camera Weight	1920 g (4.2 lb.)	
With Package Weight	3060 g (6.7 lb.)	
Metadata		
	Metadata of intrusion detection, line crossing detection, region entrance detection,	
Metadata	region exiting detection, unattended baggage detection, object removal are supported.	
Approval		
Class	Class B	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN	
	61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC	
	(ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)	
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN	
	60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part	
	1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)	
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)	
Protection	Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)	

Dimension



Unit: mm(inch)



4G LTE Router Specification

4G LTE Bands	US Version: B2/B4/B5/B12/B13/B14/B66/B71@FDD LTE (For North America, AT&T,
	T-Mobile, Verizon)
	EU Version: B1/B3/B5/B7/B8/B20/B28A@FDD LTE (For European Countries)
	AU Version: B1/B2/B3/B4/B5/B7/B8/B28@FDD LTE, B40@TDD LTE (For Australia)

Battery Specification

SKU	Solar-S1250	
Battery Type	Lithium Solar Battery (Li-ion Battery) with built-in charge controller	
Nominal Voltage	11.1V	
Rated Capacity	50Ah	
Energy	555Wh	
Charge Voltage Cut0off	12.5V	
Maximum Continuous Charge Current	10A	
Discharge Under-Voltage Protection 9V		
Reconnect Voltage	10.5V	
Dimension	330 x 160 x 90 mm (12.99" x 6.3" x 3.54")	
Weight	4.5kg (9.92 Lbs)	

Solar Panel Specification

Solar Panel Type	Monocrystalline solar panels, 36 cells
Maximum Power at STC	100W
Optimum Operating Voltage (Vmp)	20.4V
Open-Circuit Voltage (Voc)	24.3V
Optimum Operating Current (Imp)	4.91A
Short-Circuit Current (Isc)	5.21A
Operating Temperature	-40°F to 176°F
Panel Leads (Pair)	14 AWG (1.96 ft)
Weight	14.1lbs/6.4kg
Dimension	41.8 x 20.9 x1.38 in