CMIP9C82W-28SD-B4G

Platinum 4K Full Color Fixed Bullet Solar 4G Camera Kit

The 4K Full Color Fixed Bullet Solar 4G Camera Kit from LTS can be used in areas that are not suitable for laying wired network and electric supply lines as well as challenging environments with a high demand for device stability. It is well-suited for monitoring farms, remote electric power infrastructure, water and river systems, oil pipelines, and forest areas.

This solar powered camera can also be used in temporary monitoring scenes, such as large, outdoor sporting competitions, public and cultural events, temporary traffic needs, and construction sites.

Our technology provides colorful images 24/7 with advanced F1.0 lenses and high performance sensors. Its super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

Empowered by deep learning algorithms, our technology brings human and vehicle target classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

Highlights:

- High quality imaging with 3840 × 2160 @ 15 fps resolution
- Colorful imaging 24/7
- Clear imaging against strong back light thanks to 130 dB true WDR technology
- Focus on human and vehicle target classification based on deep learning technology
- 80 W photovoltaic panel, 360 Wh chargeable lithium battery
- Support for battery management, display, and high-low temperature protection, as well as charge-discharge protection, low-battery sleep protection, and remote wakeup
- LTE-TDD / LTE-FDD / WCDMA / GSM 4G wireless network transmission; support for Micro SIM card use
- The camera is water and dust resistant (IP67)
- Built-in 64 GB eMMC storage included

Specifications

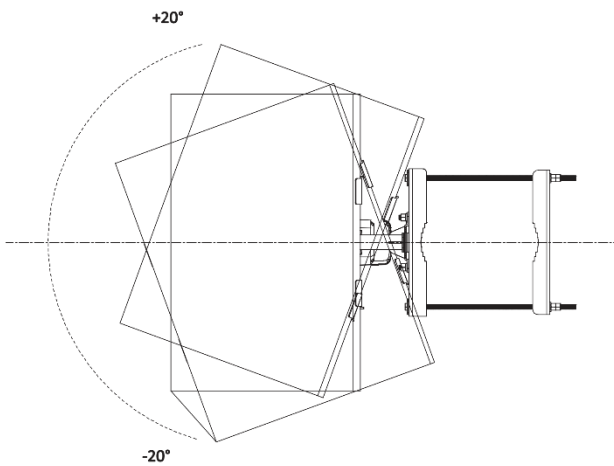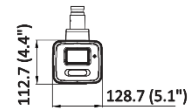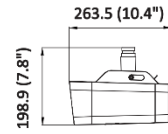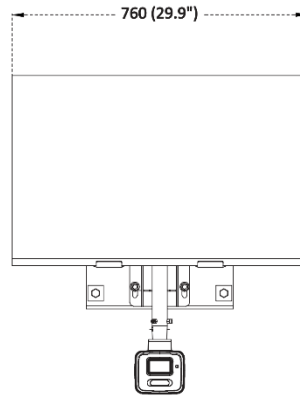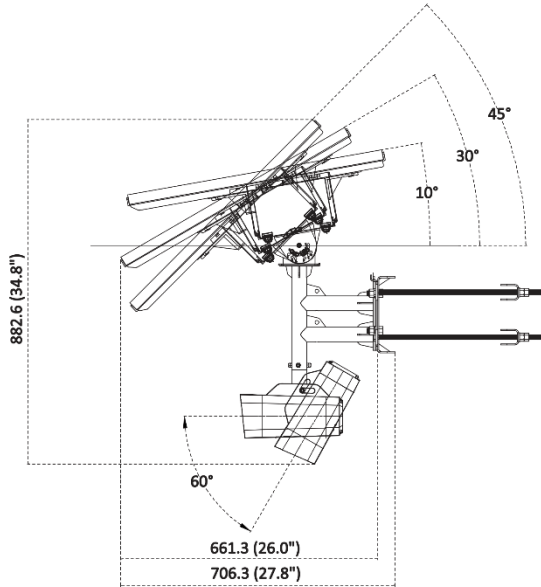| Camera	
Image Sensor	1/1.2" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0 Lux with white light
Shutter Time	1 sec. to 1/100,000 sec.
Lens	
Focal Length & FOV	2.8 mm; horizontal: 101.6°, vertical: 52.4°, diagonal: 124°
Lens Type	Fixed focal lens, 2.8 mm optional
Iris Type	Fixed
Lens Mount	M22
Aperture	F1.0
Detection, Observation, Recognition, Identification	
DORI	2.8 mm: D: 96 m, O: 38 m, R: 19m, I: 9.5 m
Illuminator	
Supplemental Light Type	White Light
Supplemental Light Range	Up to 98 ft (30 m)
Smart Supplemental Lighting	Yes
Video	
Main Stream	50 Hz: 12.5 fps (3840 × 2160, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 15 fps (3840 × 2160, 2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 12.5 fps (640 × 480, 640 × 360) 60 Hz: 15 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 1 fps (1280 × 720, 640 × 480) 60 Hz: 1 fps (1280 × 720, 640 × 480)
Video Compression	Main stream: H.265 Sub-stream: H.264 / H.265 / MJPEG Third Stream: H.265 / H.264 *Performance mode: main stream supports H.265+
Video Bit Rate	32 Kbps to 16 Mbps
H.265 Type	Main Profile
Bit Rate Control	CBR / VBR
Scalable Video Coding (SVC)	H.265 encoding
Region of Interest (ROI)	4 fixed regions for main stream
Audio	
Audio Compression	G.711 / G.722.1 / G.726 / MP2L2 / PCM / MP3 / AAC-LC
Audio Bit Rate	64 Kbps (G.711 ulaw / G.711 alaw) / 16 Kbps (G.722.1) / 16 Kbps (G.726) / 32 to 192 Kbps (MP2L2) / 8 to 320 Kbps (MP3) / 16 to 64 Kbps (AAC-LC)
Audio Sampling Rate (kHz)	8 / 16 / 32 / 44.1 / 48
Environmental Noise Filtering	Yes
Network	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP,UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets

User / Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	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 and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, TLS 1.2, TLS 1.3
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
Mobile Communication	
SIM Card Type	MicroSIM
Frequency	LTE-TDD: Band 38 / 40 / 41 LTE-FDD: Band 1 / 3 / 5 / 7 / 8 / 20 / 28 WCDMA: Band 1 / 5 / 8 GSM: 850 / 900 / 1,800 MHz
Standard	LTE-TDD / LTE-FDD / WCDMA / GSM
Image	
Wide Dynamic Range (WDR)	130 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR, Defog
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
SNR	≥ 52 dB
Privacy Mask	4 programmable polygon privacy masks
Interface	
RS-485	1 RS-485 (half duplex, connect to external battery)
Audio	1 input (line in), max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm	1 input(s), 1 output(s) (max. 12 VDC, 1 A)
On-Board Storage	Built-in memory card slot, supports MicroSD cards up to 256 GB Built-in 64 GB eMMC storage
Reset Key	Yes
Ethernet Interface	1 RJ45 10/100 Mbps self-adaptive Ethernet port
Power Output	12 VDC, max. 1,000 mA
Event Types	
Basic Events	Motion detection, video tampering alarm, anomalies (network disconnected, IP address conflict, illegal login, HDD error)
Smart Events	Line crossing, Intrusion, region entrance, region exiting, unattended baggage, object removal, scene change, and face detections *Smart events are only supported under performance mode.

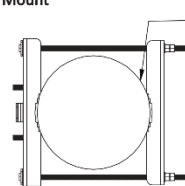| Linkage	Upload to FTP / NAS / memory card, notify surveillance center, send email, trigger recording, trigger capture, trigger alarm output, audible warning
General	
Power	12 VDC ± 20%, 4-pin M8 waterproof connector 1. Standby power consumption: 53 mW 2. The average power consumption of 24 hours: 2 W (4G transmission is excluded). 3. The max. power consumption: 3.2 W
Material	Metal
Dimensions	34.8 × 27.8 × 30.0 in. (882.6 × 706.3 × 760 mm) (Size of the camera after completely assembled)
Package Dimensions	33.9 × 13.9 × 29.9 in. (862 × 352 × 762 mm)
Weight	Approx. 30.2 kg (66.5 lb.)
Package Weight	Approx. 36.3 kg (80.0 lb.)
Storage Conditions	-20 °C to 60 °C (-4 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-20 °C to 60 °C (-4 °F to 140 °F). Humidity 95% or less (non-condensing)
Languages (33)	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
General Function	Anti-banding, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Battery	
Battery Type	Lithium *4 batteries included.
Capacity	360 Wh (90 Wh for each battery)
Battery Voltage	10.8 V
Max. Output Voltage	12.6 V
Operating Temperature	Charging: -4° to 113° F (-20° to 45° C) Discharging: -4° to 140° F (-20° to 60° C)
Battery Life	More than 500 cycles
Battery Weight	Approx. 3.3 kg (7.3 lb.)
Extended Dimensions	8.7 × 3.3 × 1.5 in. (221 × 84 × 37.3 mm)
Certifications	
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011+A1: 2014) RCM (AS/NZS CISPR 32: 2015) FCC (47 CFR Part 15, Subpart B) IC (ICES-003: Issue 7)

RF	CE: CE-RED (EN 301908-1,EN 301908-2,EN 301908-13, EN 301511,EN 301489-1, EN 301489-52,EN 62133) ICASA: same as CE-RED FCC ID (47 CFR Part15 Subpart C) IC ID (RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 3, RSS-130 Issue 2, RSS-102 Issue 5) MIC (Article 49-6-4 and 49-6-5 the relevant articles and MIC Notice No. 1299 of the Ordinance Regulating Radio Equipment)
Safety	CB (IEC 62368-1:2014+A11) CE-LVD (EN 62368-1:2014 / A11:2017) LOA (IEC / EN 60950-1)
Environmental	CE-RoHS (2011 / 65 / EU) WEEE (2012 / 19 / EU) Reach (Regulation (EC) No 1907 / 2006)
Protections	Camera: IP67 (IEC 60529-2013) Wind resistance level 12

Dimensions

45°
30°
10°
882.6 (34.8")
60°
661.3 (26.0")
706.3 (27.8")

760 (29.9")

263.5 (10.4")
198.9 (7.8")
112.7 (4.4")
128.7 (5.1")

Pole Mount

Diameter range:
160 to 290 mm (6.3" to 11.4")

+20°
-20°

Unit: mm (inch)