

1.0 Manufacturer

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2.0 Warranty

Manufacturer shall warrant the camera to be free from defects in material and workmanship for three years from the purchase date.

3.0 General Specifications

The network camera shall be LILIN SG1122LPR-H camera.

Video Performance

- A. The camera shall have a minimum light requirement of 0.04 Lux at F1.2 in color mode, 0.01 Lux at F1.2 in B/W mode.

Power

- A. Power requirement for the network camera shall be DC12V, 7.2W or PoE, 8W.
- B. The camera shall provide power consumption DC12V at 8W.

Sensor

- A. The camera shall use a progressive scan 1/2.86" MOS image sensor.
- B. The camera shall produce a maximum resolution of 1944 (H) x 1213 (V) = 2,358,072 pixels.

Certifications

- A. The camera shall be compliant with CE certifications.
- B. The camera shall be compliant with FCC Class A certifications.

PC Requirements

- A. The PC CPU requirement shall be Intel Core I5 or higher grade for the camera.
- B. The camera shall support Windows 7 64 bit, Windows 8 64 bit, Windows 10 64 bit.
- C. The PC memory RAM shall be at least 4GB or above for the camera.

Mechanical

- A. The camera shall not exceed a dimension of 70mm (W) x 50mm (H) x 135mm (D) approximately.
- B. The camera shall not exceed a weight of 420g approximately.

Audio

- A. The camera shall support G.711 u-law, PCM, AAC Encoding
- B. The camera shall support two-way audio.

Alarm Input / Output

- A. The camera shall support digital input (TTL, +3 – 5VDC) terminal block.
- B. The camera shall support MOS relay contact N.O., load max 40VDC/300mA, terminal block

Video Streaming

- A. Video streaming format shall meet the standard H.264, and in order to provide better quality and compression rate, shall support H.264 main profile, H.264 high profile and also shall support Motion JPEG.
- B. The camera shall provide RTP/HTTP, RTP/TCP, RTP/UDP and multicast features.
- C. The camera shall provide 4 streaming with combine compression and resolution at same time for various Internet or Intranet applications.
- D. The camera shall provide ePTZ & digital zoom is supported.
- E. The camera shall support VBR, CBR, GOP adjustable, fixed bitrate range encoding mode.
- F. The camera shall provide 4 of resolution in browser for user easy to change resolution.

Network Security

- A. The camera shall support up to 10 users for accessing the streaming.
- B. The camera shall support multiple user access levels with password protection.

Authentication

- A. The camera shall support base64 HTTP encryption, digest HTTP authentication, IEEE 802.1x, IP address filtering & MAC address filter, RTSP authentication, HTTPS encryption, DDNS via HTTP.

Integration

- A. The camera shall be able to be accessed by the mobile device (IOS and Android).
- B. The camera shall conform to the ONVIF Profile S standard and provide official documentation.
- C. The camera shall support LILIN Navigator Enterprise 2.0.
- D. The camera shall support 3rd. party VMS through LILIN HTTP API.

SD Card Recording

- A. The camera shall support micro SD, SDHC SD and SDXC SD.
- B. The camera shall support circular recording.

Web Browser

- A. The camera shall support IE 10, IE 11, Chrome, Firefox, Opera.

Alarm Events

- A. The camera shall support motion detection, tamper detection, audio detection, DI alarm detection, network lost detection, Smart Event, IVS and LPR.

Alarm Notification

- A. The camera shall provide alarm notification with STMP, FTP, HTTP post, SAMBA, Alarm Output, SNMP Trap, SD card and Push service notification.

IVS

- A. The camera shall support Advanced IVS: Motion detection, Tamper detection, Advanced Motion detection , Tripwire, Object Counting.
- B. The camera shall support Optional IVS: Face detection, Missing Object detection, Unattended Object Detection,, Crowd detection and Loitering detection.

License plate recognition

- A. The camera shall support detection speed Under 50KM/h.
- B. The camera shall support EU, UK, Russia ,Belgium, Bosnia, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Luxembourg, Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Spain, Slovakia, United Kingdom, Vatican City, Slovenia, Sweden, Switzerland, Turkey, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Latvia, Lithuania, Moldova, Turkmenistan, Ukraine, Uzbekistan.
- C. The camera shall support numeric plate group Log list: 1000 , all recognized car plate will be memorized, when log is full, data will be overwritten; allowed list can manually enter: 2000; denial list can manually enter: 100; visitor list: 2000; LPR Snapshot: 100 / Each list can have individual schedule and trigger specific events. / Holiday list is supported in schedule./ Effective-hours(start time and end time) are adjustable./ Support fuzzy recognition/ Detect level is adjustable (Very weak to strong).
- D. The camera shall support Each list can trigger FTP, email, SD CARD, SAMBA, Alarm Output, HTTP post, SNMP, App push notification.
- E. The camera shall support License plate SDK available.
- F. The camera shall support Denial List, Allowed List, CSV file import and export for CSV file.

Environmental

- A. The camera shall be operated in following temperature range: -25°C – +50°C/-13°F – 122°F.

Lens

- A. The camera shall support fixed lens at optional: 60mm / 100mm.
- B. The camera shall support DC IRIS.

Video Resolutions

- A. The network camera shall support in 1920x1080 (2MP), 1280x960, 1280x720 (1MP), 720x480 (D1), 720x576 (D1), 640x480 (VGA) and 352x240 (CIF)..

Maximum Frame Rate

- A. The camera shall produce 60 FPS @ 1920 x 1080 with H.264 under Multi-stream mode.
- B. The camera shall produce 30 FPS @ 720 x 480 with MJPEG under Multi-stream mode.
- C. The camera shall produce 30 FPS @ 1920 x 1080 with H.264 under HDR mode.
- D. The camera shall produce 30 FPS @ 720 x 480 with MJPEG under HDR mode.

IR-cut Filter

- A. The IR cut filter shall be able to support color (day), monochrome (night), auto, schedule.

Scanning System

- A. The camera shall use a progressive scan image sensor.

Picture Setting

- A. The camera shall provide brightness, contrast, hue, saturation and sharpness.

Picture Effects

- A. The camera shall provide mirror, flip.

White Balance

- A. The camera shall provide the white balance settings including: auto, tungsten, indoor, fluorescents 1, fluorescents 2, outdoor 1, custom.

Video Quality

- A. The camera is able to specify its shutter speed for min and max range 1/30(1/25) s – 1/30000s for various environments.
- B. The camera shall support back light compensation.
- C. The camera shall support 2D WDR.
- D. The camera shall support HDR at 120dB.
- E. The camera shall support 3D noise reduction.
- F. The camera shall support privacy mask up to 4 zones.
- G. The camera shall provide the sense up settings including: off, 1 frame, 2 frames.
- H. The camera shall support Sense up+.
- I. The camera shall support auto gain control up to 60dB.
- J. The camera shall support S/N ratio more than 50dB(AGC off)
- K. The camera shall support lens distortion correction.
- L. The camera shall support defog.

Network

- A. The camera shall support 10Base-T, 100Base-TX and 1000Base-T.
- B. The camera shall support LILIN API (CGI).
- C. The camera shall support display OSD date, time, camera name.

CPU

- A. The camera shall support up to Embedded SoC, 500MHz Dual ARM Cortex-A9 & 500MHz ARM11.
- B. The camera shall support up to 1GB DDR3, 256MB flash memory.

Video Display

- A. The camera shall provide the video display settings including: LILIN Universal Active X, HTML 5.

OS

- A. The OS of the camera should be embedded Linux 3.8.8.

Protocols

- A. The camera shall support the following network protocols: IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, SIP, MQTT, QoS, SNMP V1, SNMP V2, SNMP V3, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP, Bonjour and SSL/TLS

Languages

- A. The camera shall support the following languages: English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese.

Others

- A. The camera shall support multi IP addresses.

4.0 Installation

- A. All equipments shall be tested and configured based on the manufacturer guide line prior to installation.
- B. All the products shall be updated for the latest firmware.
- C. All the products shall be changed for the default username and password prior to installation.

5.0 Environmental Green Policy

- A. The specified camera shall be manufactured in accordance with ISO 14001.
- B. The specified camera shall be compliant with the EU directives RoHS and WEEE.
- C. The specified camera shall be compliant with the EU regulation REACH.

END OF SECTION