

## **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 IPS5208A camera.

### **Video Performance**

- A. The camera shall have a minimum light requirement of 0.5 Lux at F1.6 in color mode, 0.1 Lux at F1.6 in B/W mode.

### **Power**

- A. Power requirement for the network camera shall be AC100 - 240V, 16W.

### **Sensor**

- A. The camera shall use a progressive scan 1/2.8" CMOS image sensor.
- B. The camera shall produce an effective resolution of 1944 (H) × 1224 (V) = 2,379,456 pixels.
- C. The camera shall produce a maximum resolution of 1952 (H) × 1236 (V) = 2,412,672 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 2 Duo E6400 2.13GHz or above 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 2GB or above for the camera.

### **Mechanical**

- A. The camera shall not exceed a dimension of 245mm (H) × 155mm (D) approximately.
- B. The camera shall not exceed a weight of 2300g approximately.

### **Video Output**

- A. The camera shall support live video output of CVBS 1.0Vp-p, 75 Ω BNC.

### **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 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 pan, tilt, zoom-in / zoom-out, absolute position, and mouse click function.
- E. The camera shall provide ePTZ & digital zoom is supported.
- F. The camera shall provide 20X optical zoom.
- G. The camera shall support VBR, CBR, GOP adjustable encoding mode.
- H. 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, IP address filtering, RTSP authentication 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 9, IE 10, IE 11, Chrome, Firefox, Opera.

**Alarm Events**

- A. The camera shall support motion detection, tamper detection, audio detection.

**Alarm Notification**

- A. The camera shall provide alarm notification with STMP, FTP, HTTP post, SD card.

**Environmental**

- A. The camera shall be operated in following temperature range: -10°C – + 50°C/14°F – 122°F.

**Lens**

- A. The camera shall support zoom lens at 4.7mm – 117.5mm.
- B. The camera shall support minimum aperture ratio at 1:1.6 (WIDE) – 3.5 (TELE).
- C. The camera shall support F1.6 ~ 32 angle of view at P-iris.
- D. The camera shall support wide end of view horizontal at 59.94°.
- E. The camera shall support wide end of view vertical at 36.16°.
- F. The camera shall support tele end of view horizontal at 3.30°.
- G. The camera shall support tele end of view vertical at 1.87°.
- H. The camera shall support panning range at 360° endless.
- I. The camera shall support panning speed at manual approx. 0.15°/s – 120°/s 8 steps, preset approx. 1°/s – 255°/s, alarm trigger speed 360°/s.
- J. The camera shall support panning mode at manual, auto, manual position, sequential position.
- K. The camera shall support tilting range at - 6° – + 96°.
- L. The camera shall support tilting speed at manual approx. 0.15°/s – 120°/s 8 steps, preset approx. 1°/s – 255°/s, alarm trigger speed 360°/s.
- M. The camera shall support tilting mode at manual, auto, manual position, sequential position.

**Video Resolutions**

- A. The network camera shall be able to produce images in 1920x1080 (1080P), 1280x720 (720P), 720x480 (D1), 720x576 (D1), and 352x240 (CIF).

**Maximum Frame Rate**

- A. The camera shall produce 30 FPS @ 1920 x 1080 resolution with H.264 video compression.
- B. The camera shall produce 30 FPS @ 720 x 480 resolution with MJPEG video compression.

**IR-cut Filter**

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

**Scanning System**

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

**Picture Setting**

- A. The camera shall provide sharpness.

**Picture Effects**

- A. The camera shall provide mirror, flip.

**White Balance**

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

**Video Quality**

- A. The camera is able to specify its shutter speed for min and max range 1/1s to 1/100000s for various environments.
- B. The camera shall support back light compensation.
- C. The camera shall support 2D WDR.
- D. The camera shall support 3D noise reduction.
- E. The camera shall support privacy mask up to 16 zones.
- F. The camera shall support auto gain control up to 30dB.
- G. The camera shall support exposure mode.
- H. The camera shall support defog.
- I. The camera shall support digital image stabilization.
- J. The camera shall support zoom speed at 0 - 7 selectable (fast: approx. 6.0 second (tele to wide) in manual mode).
- K. The camera shall support focus speed at 0 - 7 selectable (fast: approx. 6.0 second (far to near) in manual mode).
- L. The camera shall provide the auto mode settings including: off, auto, seq, tour, preset position.

**Network**

- A. The camera shall support 10Base-T, 100Base-TX.
- 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 ARM11, 528MHz.
- B. The camera shall support up to 256MB DDR2, 256MB flash memory.

**Video Display**

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

**OS**

- A. The OS of the camera should be embedded Linux 2.6.32.

**Protocols**

- A. The camera shall support the following network protocols: IPv4, IPv6, TCP, UDP, HTTP, SMTP, SNMP V1, SNMP V2, SNMP V3, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ONVIF Profile S, Bonjour.

**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