

1.0 Manufacturer

Merit LILIN ENT. Co. Ltd
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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 IPS5200EA 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 BW mode.

Power

- A. Power requirement for the network camera shall be PoE+, 14W.

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, 16 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 slow / mid. / fast selectable (fast: approx. 5.0 second (tele to wide) in manual mode).
- K. The camera shall support focus speed at slow / mid. / fast selectable (fast: approx. 5.0 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