

IQVideo

Portable Lecture Capture System

LCS910

-----Datasheet-----



Wireless PTZ Camera



Video Station



Wireless MIC

01 Video Station



Features

- **Highly-integrated design**

Embedded processor with high performance and low power consumption, highly integrated with wireless video transmission, wireless Internet access, audio and video collection, display and touch, recording and broadcasting functions.

- **LCD screen display and touch**

Built-in 13.3-inch IPS FHD touch screen with scratch-resistant tempered glass, easy to operate.

- **Support wireless image transmission**

Built-in high-speed wireless receiver with working frequency 5.15-5.85GHZ, dual antennas, cascading, and maximum data rate 300Mbps. The maximum transmission distance is about 100 meters (in the open and unobstructed). Support wireless automatic pairing and automatic networking.

- **Built-in battery**

Built-in large-capacity battery with charging and discharging management function, which can be used continuously for 5 hours and above. Support overcharge and overdischarge protection, battery power display, low power alarm, and prompt automatic shutdown function.

- **Fast and wireless setup**

Recording can be quickly set up. After powering on, the on-site personnel can start right away without unnecessary configuration.

- **Multiple ways to connect to the Internet**

Support wired and wireless network to connect to the Internet to realize live streaming and remote interaction. And support RTMP protocol for live streaming.

- **Strong compatibility**

It can be connected to computer and other video signal output devices by HDMI in, and connected to an audio processing system by audio line in, making the recording content more various.

Specifications

System structure	Embedded ARM Linux	
Audio interface	Audio Input	Line in *1; Wireless MIC in *1;
	Audio Output	Line out *1; Audio out for earphone *1;
Video interface	Video input	5GHZ HD image transmission, 2*3G-SDI, 1*HDMI IN
	Video output	HDMI OUT
	Video input format	<ul style="list-style-type: none"> SDI input interface supports mainstream video modes like 720P25/29.97/30/50/59.94/60fps, 1080P25/29.97/30/50/59.94/60fps. HDMI input interface supports more than 60 graphics display modes like 1080P25, 1080P50, 1024x768@60Hz, 1920x1080@60HZ, etc.
AV encoding	Resolution	D1、720P、1080P
	Video encoding	Support H.264/H.265; support CBR, VBR two stream control methods
	Frame rate	1-60fps(optional)
	Video bit rate	10K-20Mbps(optional)
	Audio encoding	Support AAC encoding,dual-channel, 32/44.1/48KHZ sampling frequency input and adjustable compression rate, default is 128Kbps.
	Audio processor	Built-in audio processing module for noise reduction
Interface	Network interface	RJ45 x1
	USB interface	USB2.0*1; USB3.0*2
	BNC interface	2 * 3G-SDI
	Antenna 1	Two 5G wireless HD video network transmission antennas
	Antenna 2	One wireless wifi AP antenna and one wireless 4G antenna, or two WIFI network antenna
	Power interface	DC power*1(support outer diameter 5.5mm, inner diameter 2.5m general interface)
Storage	Built in HDD	1TB
Battery	Built-in 150WH rechargeable battery pack	
Screen	Display	13.3 inch IPS FHD LCD screen
	Touch	Capacitive touch screen
Physical features	Environment temperature	0°C-40°C
	Environment humidity	0-85%RH
	Power consumption	~45W(including battery pack charging power)
	Power adapter	External 19V@65W power adapter
	Dimension	355mm(W) × 236mm(D) × 30mm(H)

02 Wireless PTZ Camera *2



Features

- **Stable wireless transmission**

The maximum transmission rate is 300Mbps, and the transmission distance is as far as 100 meters with strong penetrating power. Support automatic search, intelligent configuration functions and high transmission efficiency.

- **Multi-scene image adjustment**

Consider the actual application scenarios, it provides users with a variety of professional image adjustments such as outdoor strong light environment, night environment, stage environment, etc., to ensure that users can present high-quality image effects in various environments.

- **1080P60 FHD recording image**

Built-in 1/2.8-inch HD CMOS sensor, with powerful image engine and imaging algorithm, to provide up to 1080P FHD recording image experience. Equipped with a high-performance electric zoom lens, up to 360X zooming effect (30X optical zoom + 12X digital zoom).

- **Sharp picture, professional noise reduction processing**

It has wide dynamic range and high signal-to-noise ratio image effects, which combines with a unique 2D/3D noise reduction algorithm and greatly reduces image noise. Keep the image clean and clear even in low-light environment.

- **Support H.265 encoding**

Built-in video and audio coding capabilities, support H.265/H.264 video coding and G.711/G.726 audio coding, achieve 1080p FHD ultra-low bandwidth transmission.

- **High-speed and accurate PTZ positioning**

Adopt advanced stepping motor, the pan/tilt runs quietly and smoothly. Positioning is accurate and fast, and the maximum horizontal speed can reach 200 degrees/sec.

- **Flexible installation and easy use**

Simple and flexible operation by a multi-function infrared remote control. Support a variety of installation methods (normal installation / ceiling / wall hanging / boom, etc.).

Specifications

Camera	
Image sensor	1/2.8 inch HD CMOS
Sensor pixels	5 million pixels
Video format	HD:1080p60, 1080p50, 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50. Standard definition:NTSC, PAL.
Optical lens	30x optical zoom lens; Focal length: f=5.2-94mm; Aperture: F1.6-F3.5
Digital zoom	12X
Exposure control	Auto/manual/shutter priority/aperture priority/brightness control/backlight compensation
White balance	Auto, indoor, outdoor, one-click, manual
Minimum imaging distance	0.5m (wide angle)-1.5m (remote)
Viewing angle (horizontal)	61° (wide angle)-3.3° (remote)
Focusing system	Automatic/manual/one-key trigger
Minimum illumination	0.5lux (50IRE, F1.6)
Shutter speed	1/60 to 1/10,000 sec(60Hz system), 1/50 to 1/10,000 sec(50Hz system)
Effect mode	Backlight compensation, horizontal mirroring, vertical flip
Digital noise reduction	2D&3D
SNR	>55dB
Backlight compensation	Off/On automatic
Rotation speed	Horizontal: 2.2° ~200° /sec, vertical: 1.5° ~100° /sec
Rotation angle range	Horizontal: ±170° , vertical: -30° ~90°
Preset	Up to 255 presets, 0.1° position accuracy
Network	
Network interface	1 RJ45, 10M/100M adaptive Ethernet port
Communication protocol	VISCA, PELCO-D, PELCO-P
Communication baud rate	2400/4800/9600/19200/38400 bps

Specifications

Video coding	H.265, H.264, MJPEG
Resolution	Main stream:1920x1080, 1280x720 Auxiliary stream:720x576, 720x480, 960x540
Video bit rate	5 million pixels
Video format	variable (128k—8192kbps)/fixed
Video frame rate	50Hz: 1-50fps, 60Hz: 1-60fps
Network protocol	TCP/IP, HTTP, RTSP, RTMP, DHCP, multicast
Wireless	
Operating frequency	5.15~5.35GHz, 5.425~5.725GHz and 5.745~5.850GHz
Standard protocol	802.11a/n
Transmit power	27dBm
Antenna	2*2 MIMO Beamforming
Transmission data rate	up to 300Mbps
Transmission distance	100 meters
Network mode	point-to-point, point-to-multipoint
Others	
Menu	Chinese and English menu
Address range	0~255
Temperature	Working temperature: 0°C~+50°C, storage temperature: -20°C~+70°C
Humidity	Environmental humidity 0~95% (non-condensing)
Power supply	15V DC
Power consumption	<10W
Dimension	142mm(W) × 125mm(D) × 181mm(H)
Net weight	1.55kg

03 Wireless MIC S310



Features

- **360° omni-directional sound pickup**

Supports 360-degree omni-directional audio pickup, and the pickup distance can reach 3 meters.

- **Immersive audio experience**

Built-in echo cancellation algorithm to ensure full duplex audio and offer pleasant teleconferencing experience. With dynamic noise suppression and automatic gain control, it allows you to hear and to be heard clearly as if it's face to face communication.

- **Wireless connection**

Along with 2.4G wireless digital technology, wireless USB requires no driver, which supports multi-frequency intelligent frequency hopping, strong anti-jamming.

- **High SNR**

High SNR ensure low noise when the sound picks up. Bring you clear, unmixed and not harsh sound quality.

Specifications

Microphone	Omnidirectional Microphone
Voice bandwidth	0~8000Hz
Sensitivity	-38 dB, 94dB SPL@1KHz
SNR	65dB, 94dB SPL@1KHz
Speaker	3-inch anti-magnetic speaker
Audio	Full duplex, 256ms echo cancellation, dynamic noise reduction
Pick-up Range	360 degree
Pick-up Distance	3 meters
Support O.S.	Windows XP / Windows 7 / Windows 8 / Windows 10 etc.
Buttons	Microphone mute button, loudspeaker mute button, volume up/down button, standby button
Interface	USB 2.0 (compatible with USB 3.0)
Power Supply	USB charge (DC 5V / 500mA), built-in lithium battery
Temperature	Working temperature: 5° ~44°
Humidity	Working humidity: 20~85% (No condensation) Storage humidity: -10° ~55°
Dimension	155mm(W) × 148mm(D) × 37mm(H)
Net weight	340g

