



# **IQVideo**

## **Portable Lecture Capture System**

### **LCS910**

----- Datasheet -----



**Wireless PTZ Camera**



**Video Station**



**Wireless Lavalier  
Microphone**

# 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 15.6-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 out, 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"> <li>SDI input interface supports mainstream video modes like 720P25/29.97/30/50/59.94/60fps, 1080P25/29.97/30/50/59.94/60fps.</li> <li>HDMI input interface supports more than 60 graphics display modes like 1080P25, 1080P50, 1024x768@60Hz, 1920x1080@60HZ, etc.</li> </ul>
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	Two 5G wireless HD video network transmission antennas
	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	15.6 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	387mm(W) × 248mm(D) × 29.5mm(H)

## 02 Wireless PTZ Camera

**Built-in Battery/ Wireless Transmission/ Full HD/ Multiple Lenses**



### Features

- **Full HD image**

Enjoy stunning Full HD images with the 1/2.8-inch, 2.07-megapixel high-quality image sensor. It delivers crisp 1920x1080 resolution and a smooth frame rate of 60fps, capturing lifelike high-definition videos that vividly portray facial expressions and movements.

- **Multiple optical zoom lenses**

Explore a wide range of optical zoom lenses, including versatile options like 12x and 20x. With these lenses, you can enjoy a panoramic view with an expansive 72.5° wide-angle perspective, free from any distortion.

- **Wireless RF technology**

The 2-antenna configuration with 2x2 MIMO+Beamforming achieves a maximum wireless transmission rate of 60Mbps, covering a distance of 200 meters in unobstructed environments.

- **Built-in battery**

Provides uninterrupted power for a minimum of 5 hours and offers real-time battery level display for easy monitoring.



- **Leading-edge autofocus technology**

The advanced autofocus algorithm enables the lens to achieve fast, precise, and stable autofocus, ensuring rapid and accurate focusing.

- **Low noise and high SNR**

The low-noise CMOS effectively ensures an ultra-high signal-to-noise ratio for camera videos. Advanced 2D and 3D noise reduction techniques are employed to further reduce noise while ensuring image clarity.

- **Multiple video output interfaces**

Supports SDI and LAN interfaces. SDI and LAN interfaces support simultaneous audio and video output. SDI supports transmission up to 100 meters in 1080P60 format.

- **Various audio and video compression standards**

Supports H.265/H.264+ video compression and AAC, MP3, G.711A audio compression. Supports compression of up to 1920×1080 resolution at 60 frames per second.

- **Audio input interface**

Supports sampling frequencies of 8000, 16000, 32000, 44100, 48000. Supports AAC, MP3, G.711A audio encoding.

- **Multiple network protocols**

Supports ONVIF, GB/T28181, RTSP, RTMP protocols. Supports RTMP push mode for easy connection to streaming media servers (Wowza, FMS) and RTP multicast mode. Supports VISCA over IP.

- **Multiple presets**

Supports up to 255 presets (10 presets can be accessed using the remote control).

- **Wide range of applications**

Suitable for various environments such as conferences, education, healthcare, government affairs, cloud video, collaborative offices, multimedia integration, emergency command, broadcasting, judiciary, public security, military, and more.

## Specifications

Camera and Lens Specifications	
Image sensor	1/2.8 inch HD CMOS
Sensor pixels	2.07 million pixels, 16:9 aspect ratio
Video format	SDI Output: 1080P60/50/30/25/59.94/29.97; 1080I60/50/59.94; 720P60/50/30/25/59.94/29.97 LAN Output: Supports up to 1920*1080@60fps
Optical lens	20x optical zoom lens f=5.5mm~110mm
Viewing angle	3.3° (narrow angle) and 54.7° (wide angle)
Aperture ratio	F1.6 – F3.5
Digital zoom	10X
Minimum illumination	0.5Lux (F1.8, AGC ON)
Digital noise reduction	2D&3D
White balance	Auto, one-click, manual, designated
Focusing system	Automatic/manual/one-key trigger
Aperture	Automatic/manual
Digital shutter	Automatic/manual
Backlight compensation	Off/On
Dynamic range	Contrast/dynamic range adjustment
Video adjustment	Brightness, chroma, saturation, contrast, sharpness, black and white mode, gamma curve
SNR	> 50dB
Interface Functionality and Performance	
Video output interface	SDI, LAN, WiFi (wireless RF)
Image bitrate/stream	Dual stream output
Video coding	H.265, H.264
Audio input interface	A-IN: Dual-channel 3.5mm line-level

## Specifications

Audio output interface	SDI and LAN
Audio compression format	AAC、MP3、G.711A
Network interface	1000M Ethernet port (10/100BASE-TX)
Network protocol	RTSP, RTMP, ONVIF, GB/T28181; support VISCA over IP; support for remote upgrade, remote reboot, remote reset
Communication protocol	Protocol: VISCA/Pelco-D/Pelco-P Baud rate: 115200/9600/4800/2400 bps
Power interface	Standard DC interface
Power adapter	Input AC100V-240V; Output DC12V/5A
Input voltage	DC12V
Input current	3A (maximum)
Power consumption	13W (maximum)
Capacity	5200mAh
<b>PTZ (Pan-Tilt-Zoom) Specifications</b>	
Rotation angle range	Horizontal: $\pm 170^{\circ}$ , vertical: $-30^{\circ} \sim 90^{\circ}$
Rotation speed	Horizontal: $0.1^{\circ} \sim 60^{\circ} / \text{sec}$ , vertical: $0.1^{\circ} \sim 30^{\circ} / \text{sec}$
Preset speed	Horizontal: $60^{\circ} / \text{sec}$ , vertical: $30^{\circ} / \text{sec}$
Number of presets	Set up to 255 presets (10 by remote control)
<b>Others</b>	
Temperature	Working temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ Storage temperature: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Humidity	Working humidity: 20%~80% Storage humidity: 20%~90%
Dimensions	Length $\times$ Width $\times$ Height: 149mm $\times$ 214mm $\times$ 198mm
Weight (approx.)	1.87kg
Operating environment	Indoor



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## Specifications

Accessories	
Included accessories	Power adapter, remote control, user manual, warranty card, packing list
Optional accessories	Mounting bracket

## 03 Wireless Lavalier Microphone



### Features

- 2.4G band for transmission up to 50m in open area.
- Built-in high-sensitivity condenser mic with intelligent noise cancellation for clear HiFi recording.
- Use the transmitter directly by clipping it onto collar, or connect it with an external lavalier mic.
- One-key pairing, automatic sync within 2s after powering up, easy to operate.
- Adjustable output volume suits various recording equipment and prevents distortion.
- Automatic idle shutdown if without connection for around 8min, energy-conserving.
- Lithium-polymer battery inside lasts for up to 5hrs.

## Specifications

Overall Specifications	
Transmission Frequency Band	2400MHz-2483.5MHz
Audio Frequency Response	100Hz-16KHz $\pm$ 3dB
Dynamic Range	87dB (circuit performance)
S/N Ratio	85dB (circuit performance)
Peak Input SPL	97dB SPL (built-in mic)
Pairing Method	automatic
Effective Working Range	20m (with obstacles); 50m (open area)
Dimensions	50mm*44.5mm*15mm
Net Weight	approx. 30g
Output Interface	$\phi$ 3.5mm TRS
Charging Interface	USB 5V
Battery Type	lithium-polymer battery
Receiver	
Transmission Type	frequency hopping / digital FSK
Receiving Sensitivity	-86dBm
Battery Life	approx. 8hrs
Transmitter	
Modulation Type	frequency hopping / digital FSK
Transmit Power	10dBm
Mic Polar Pattern	omnidirectional
Battery Life	approx. 5hrs

