



# **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>
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	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 \*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 (20X 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 AAC 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

<b>Camera</b>	
Image sensor	1/2.8 inch HD CMOS
Sensor pixels	2 million pixels
Video format	HD:1080p60, 1080p50, 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50. Standard definition:NTSC, PAL.
Optical lens	20x 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, one-click, manual
Minimum imaging distance	0.5m (wide angle)-1.5m (remote)
Viewing angle (horizontal)	55.8° (wide angle)-3.2° (remote)
Focusing system	Automatic/manual/one-key trigger
Minimum illumination	0.5lux (F1.8, AGC ON)
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
<b>Network</b>	
Network interface	1 RJ45, 10M/100M adaptive Ethernet port
Communication protocol	VISCA、RTSP、RTMP、ONVIF、GB/T28181
Communication baud rate	2400/4800/9600/19200/38400 bps

## Specifications

Video coding	H.265, H.264
Resolution	Main stream:1920x1080, 1280x720 Auxiliary stream:720x576, 720x480, 960x540
Video format	variable (256k—20480kbps)
Video frame rate	15~60fps
Network protocol	RTMP、RTMPS、UDP
<b>Wireless</b>	
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
<b>Others</b>	
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	12V DC
Power consumption	<25W



## 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	$\varnothing$ 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