

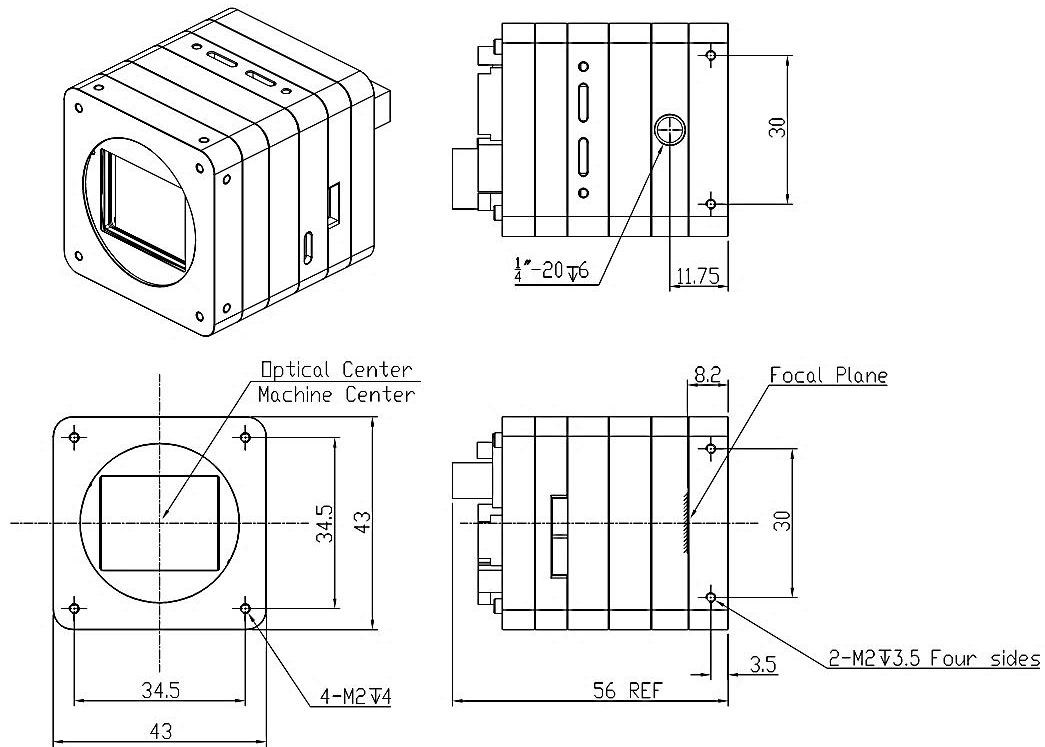
UE12L Ethernet Uncooled IR Imaging Module



1. Technical Specifications

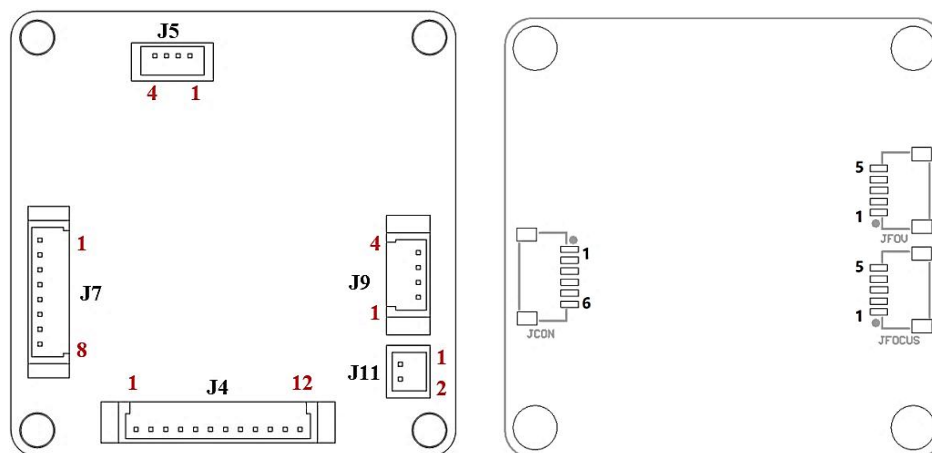
Item		Specifications
Infrared Detector	Resolution	1280 × 1024
	Type	Uncooled VOx Microbolometer
	Pitch Size	12μm
	Spectral Range	8 ~ 14μm
	Frequency	30Hz
	NETD	< 40mK (@f/1.0, 30Hz, 300K)
Ethernet	Ethernet Protocol	TCP/IP, HTTP, RTSP
	Interface Support	ONVIF
	Video Coding	H.264, H.265
Image Processing	Digital Zoom	1 ~ 8×
	Image Adjustment	Brightness, Contrast, DDE, GMMA, etc.
	Image Polarity	White Hot/Black Hot/Pseudo-colors
	Functions	Motion and Intrusion detection/Alarm/Solar protection, Lens Driving etc.
Interfaces	Power In	DC connector (5.5×2.1)
	Video Streaming	Ethernet (standard RJ45 connector)
	Communication	TTL (RS485 reserved)
Power	Power Supply	DC 12V
	Power Consumption	≤2.5W (steady @25 °C)
	Working Mode	Power on
Physical	Weight	< 250 g (without Lens)
	Size	43mm x 43mm x 56mm (without Lens)
Environmental	Working Temperature	-40°C ~ +60 °C
	Working Humidity	≥ 95% (non-condensing)
	Storage Temperature	-50 °C ~ +70 °C

2. Dimensions



3. Protocols of Electrical Interfaces

3.1 Interface Board



3.2 Interface definition:

Pin	Definition	Description
J7		
1	GND	GROUND
2	POW+	Power in, DC12V

3	——	/
4	——	/
5	RJ45_1 (TX+)	Network Signal TX+
6	RJ45_2 (TX-)	Network Signal TX-
7	RJ45_3 (RX+)	Network Signal RX+
8	RJ45_4 (RX-)	Network Signal RX-
JFOCUS		
1	REF	Reference Voltage
2	DIST1	Potentiometer Detection 1
3	GND	GROUND
4	FOCUS2	Focusing Motor 2
5	FOCUS1	Focusing Motor 1
JFOV		
1	REF	Reference Voltage
2	DIST2	Potentiometer Detection 2
3	GND	GROUND
4	FOV2	Zooming Motor 2
5	FOV1	Zooming Motor 1
JCON (Debug Interface of IR Module)		
1	POW+	Power in DC12V
2	GND	GROUND
3	TTL_RXD	TTL Communication Receive
4	TTL_TXD	TTL Communication Transmit
5	GND	GROUND
6	VIDEO	CVBS Output, PAL

4. Operation on IE Browser

4.1. Download and install ActiveX

When you first access a web product with a browser (Internet Explore), you must install plug-ins ActiveX.

4.1.1. installing method:

(1) Download installation

Enter the IP address of the network product in the browser (Internet Explore) address bar, such as the default address of the device: 192.168.1.88, and enter the login page (see Figure 1)

(2) Click [File] to download the ActiveX



Figure 1

(3) You can download the ActiveX manually, or just input the password, then download the file as system prompt. (see Figure 2)

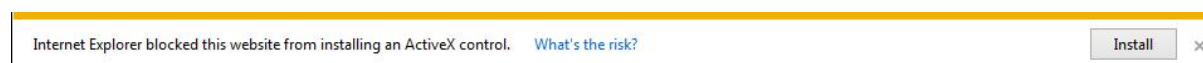


Figure 2

(4) Pop up the file download dialog box, select [run] or [save] to download. After downloading, double-click "IPCAActiveX.exe" to download the file, click the "run" button, as shown in figure 4 below. Install according to the prompt, as shown in figure 6. Finally click "finish" and the control is installed,

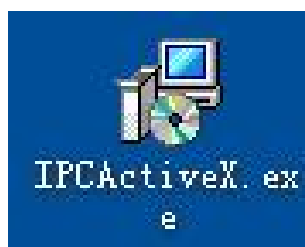


Figure 3



Figure 4

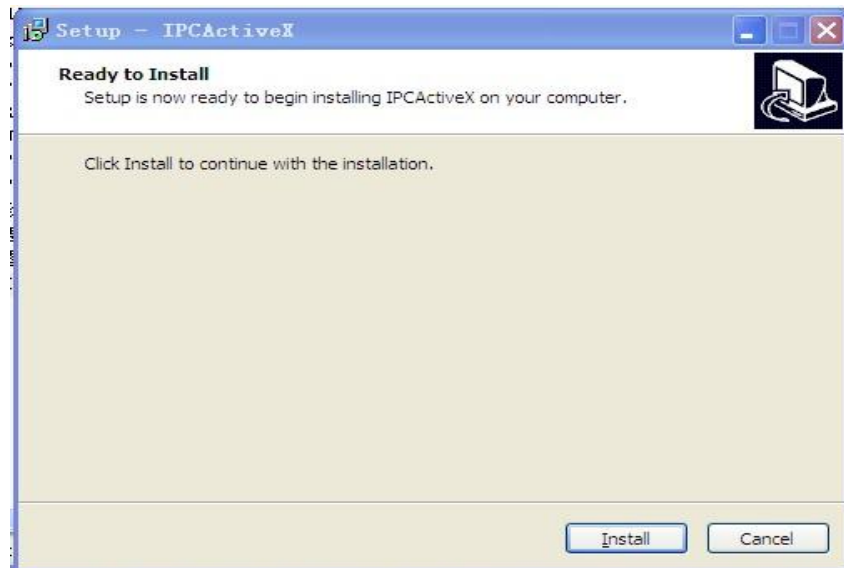


Figure 5



Figure 6

4.1.2. NOTE: Abnormal phenomenon when install ActiveX and the solutions:

(1) please change the security level of IE,

IE tools-> Internet options->Security->Custom level as Figure 7, and change the parameters as Figure 8, figure 9, figure 10:

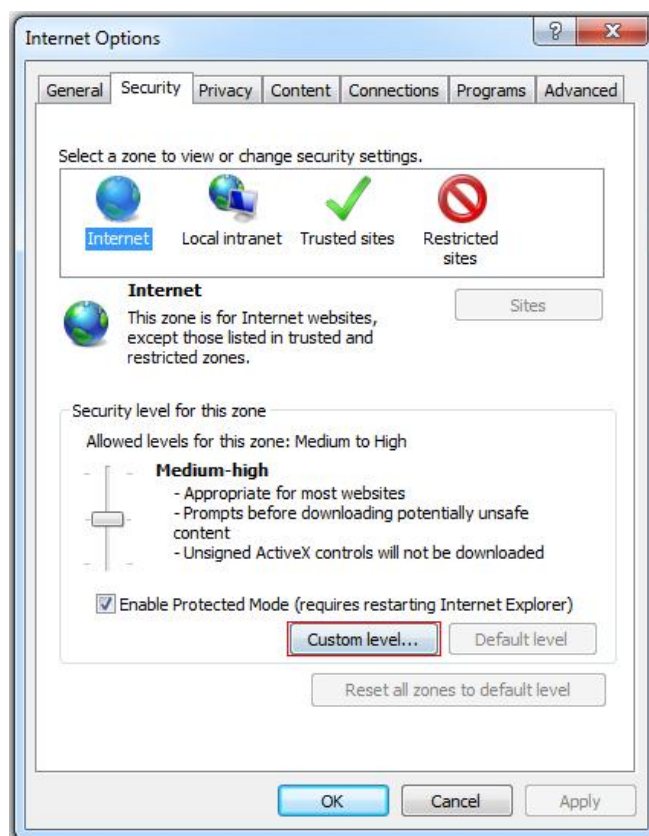


Figure 7

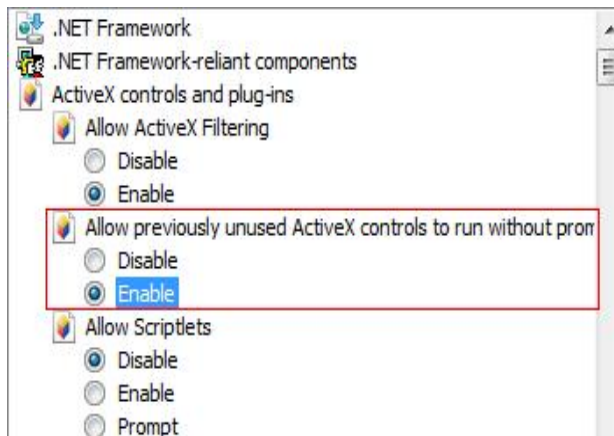


Figure 8

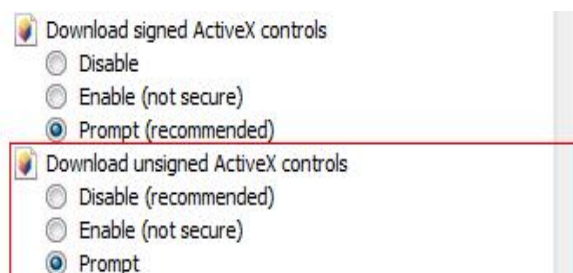


Figure 9

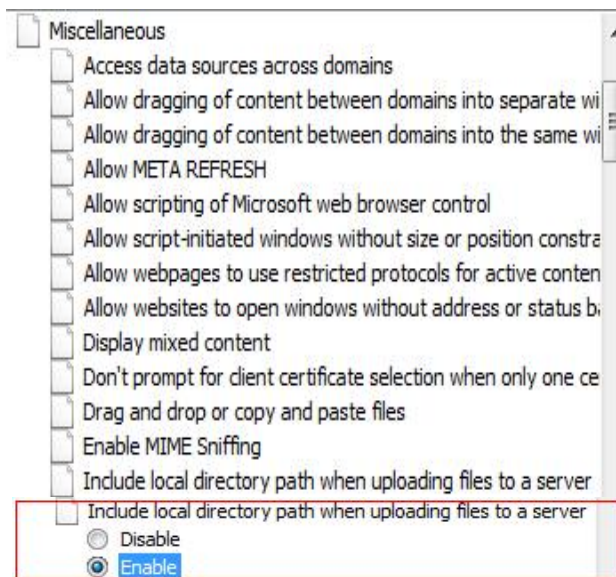


Figure 10

(2) Follow the instructions to install the control normally. Please close IE during the installation process, correctly installation of controls

4.2. Login

Restart the browser (Internet Explorer) after successful installation, enter the IP address of the network product, such as the default address of the device: 192.168.1.88, Enter the login page and enter the user name and password (user name , password default are both admin). Click logins to enter the main interface) as shown (see Figure 11)

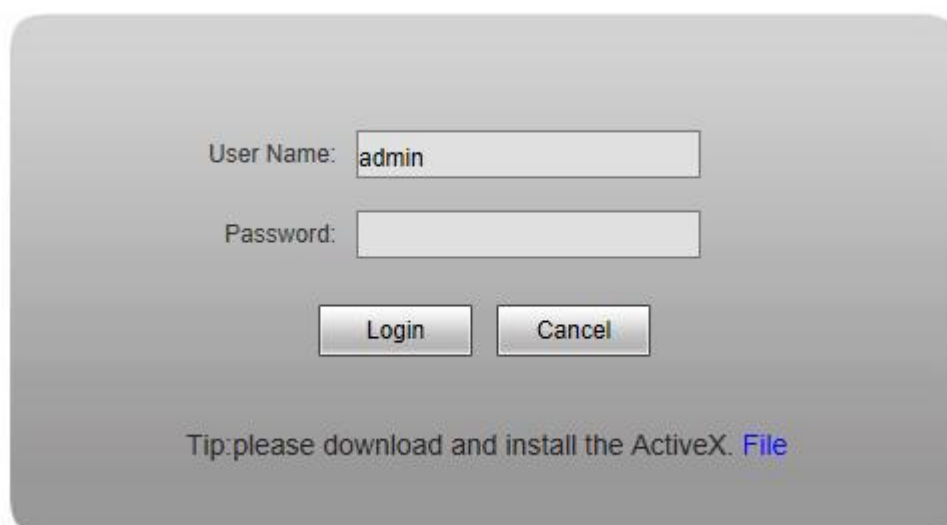


Figure 11

4.3. Streaming Preview

The streaming preview of the network product is shown as below in Figure 12.

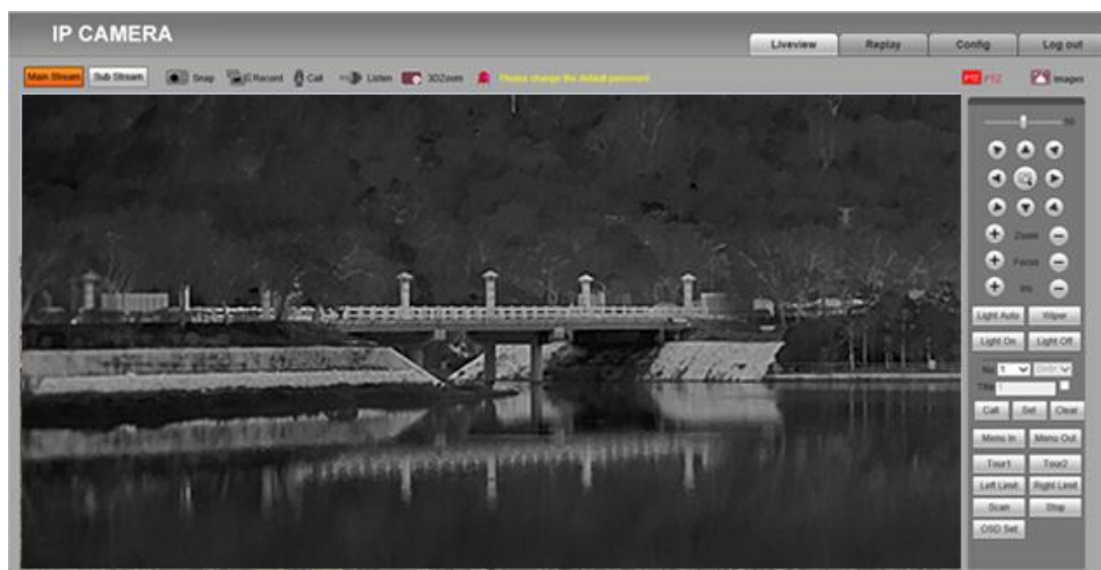


Figure 12

4.4. Parameter setting

In the **【Image】** menu, user can perform setting to the contrast, brightness, enhancement, GAMMA, AGC, Pseudo-color and digital zoom to the infrared thermal image.

