

BlueEyes[®]

iCam PRO Full HD Camera



Operation Manual

VER V1.0.20-10-B853

2015/10/13

www.BlueEyes.tw



Operation manual

□ BlueEyes iCam PRO Full HD Camera

Thank you for using the product of BlueEyes Technology.

The manual will introduce the product of BlueEyes Technology. Please read the manual before you start using the product.

Though the information in the manual has been verified before publish, the actual specification should be based on the actual shipment. BlueEyes Technology doesn't have to guarantee, proclaim or declare for the content, along with other purpose. In addition, the product specification and information that mentioned in the manual is for reference only. The content might be update at any time without notice. If there is any mistake of the information, including software, firmware, and hardware that mentioned in the manual BlueEyes Technology has no responsibility for the mistake.

Please reach BlueEyes website to get the upgrade of the product specification, our company will not notice you. If you want to get the latest product information, operation manual, firmware, or you have any question to the products of BlueEyes Technology, please contact your local agent or go to the official website of BlueEyes Technology for further information.

It is not allowed to copy/ use the content or to change the information and publishing of the manual without BlueEyes Technology's written consent.

Copyright 2015 BlueEyes Technology Inc. All Rights Reserved.

BlueEyes Technology Corp.

Add: 7F-3, No.200, Sec. 4, Wenxin Rd., North District, Taichung City 40462, Taiwan

TEL: +886 4 2297 0977 / +886 982 842 977

Fax: +886 4 2297 0957

E-mail : support@blueeyes.com.tw

Website: www.BlueEyes.tw



Index

Operation manual	1
1. Summary	4
1.1 Introduction	4
1.2 Features	4
1.3 Composition	5
2. Safety and Precautions	6
3. Device Description	7
3.1 Back Panel	7
3.2 Fixed iCam PRO Camera	8
3.3 Scanning iCam PRO Camera	8
3.4 Live Video	9
4. Location of Camera	10
4.1 Location of Camera	10
5. Adjusting Lenses	12
5.1 Lens of iCam PRO	12
5.2 IRIS (O \longleftrightarrow C)	12
5.3 Advices for Classroom Lighting Improvement	13
5.4 Zoom (W \longleftrightarrow T)	13
5.5 Focus (∞ \longleftrightarrow N)	14
5.6 Introduction of Utensil	15
6. Cleaning and Maintaining the Lens	15
7. Setting	17
7.1 Video Setting	17
7.2 Camera Setting	18
7.3 Privacy Mask Setting	21
7.4 Audio Setting	24
7.5 Network Setting	25
7.6 Network Protocol	26
8. Watermark	27
8.1 Trademark of Education Institute	27
8.2 Making Trademark Picture	27
8.3 Upload Watermark	27
8.4 Notices	29

9. QRcode	30
9.1 About QRcode.....	30
9.2 Make QRcode	30
9.3 Upload QRcode.....	32
9.4 Notices	34
10. Motion Detection of iFollow	35
10.1 Enable and Set the Motion Detection	35
10.2 Notices	37
11. Q&A.....	38
【Question 1】 Can the camera be on for 24 hours?	38
【Question 2】 How to adjust if the image is blurred?.....	38
【Question 3】 Why the words on the board trembling?	38
【Question 4】 How to clean the lens?.....	38
【Question 5】 How long does it take to start up the camera?	38
【Question 6】 Ripple shows when using projector or digital board	38
【Question 7】 The video file cut into one or several pieces	39
【Question 8】 How to restore to default?	39
【Question 9】 How to reduce background noise	40

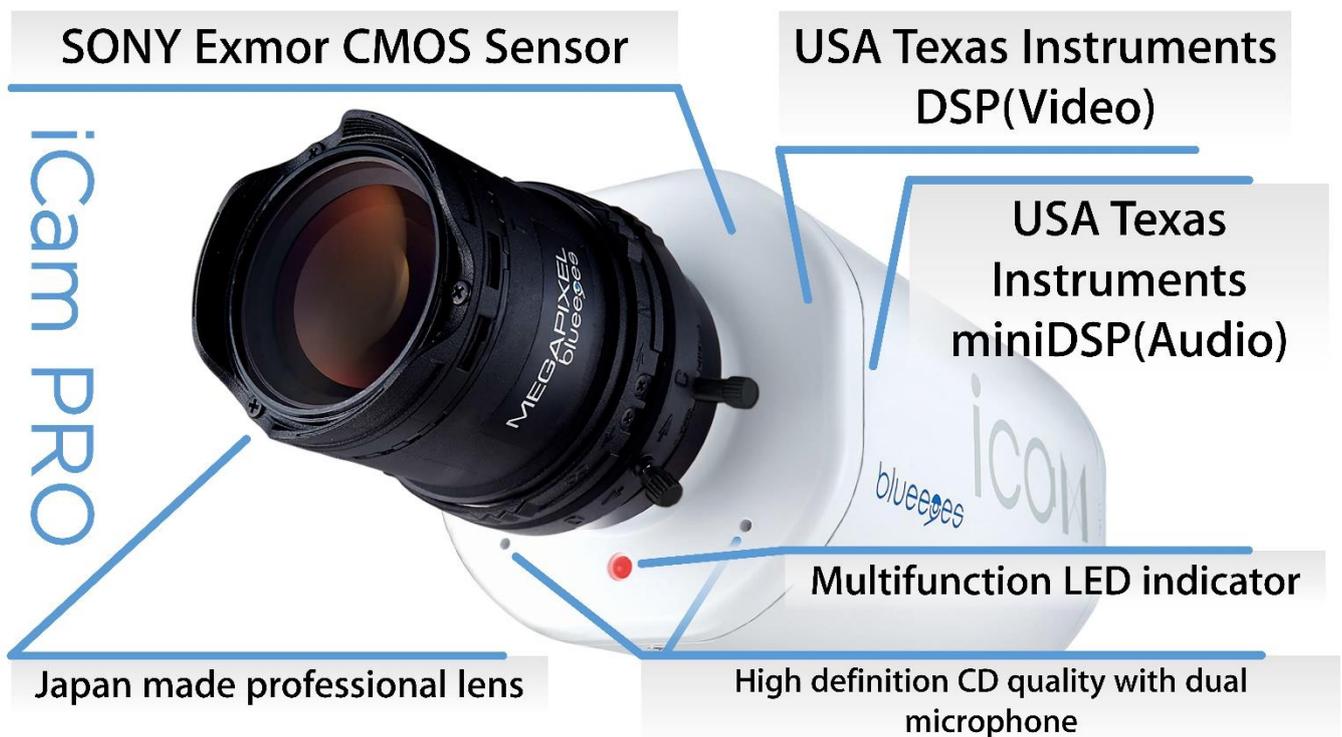
1. Summary

1.1 Introduction

Most of the recording systems use traditional security camera, so the quality was very bad. The students have to look closely to see the words on the blackboard. This kind of camera is not suitable for education institute environment.

BlueEyes Technology develops the Full HD Camera especially for the education institute environment and registers the trademark as iCam®. Now we have iCam PRO. It not only reserves the high quality of shooting, but also upgrades the sound receiver which build-in camera and have the best distance---38 mm between two microphones. In order to enhance the characters on the whiteboards, digital boards, and projectors, iCam PRO can detect the external environment automatically and make the characters clearer. Watching the iCam PRO videos is like watching Blu-ray movies in the movie theaters.

1.2 Features

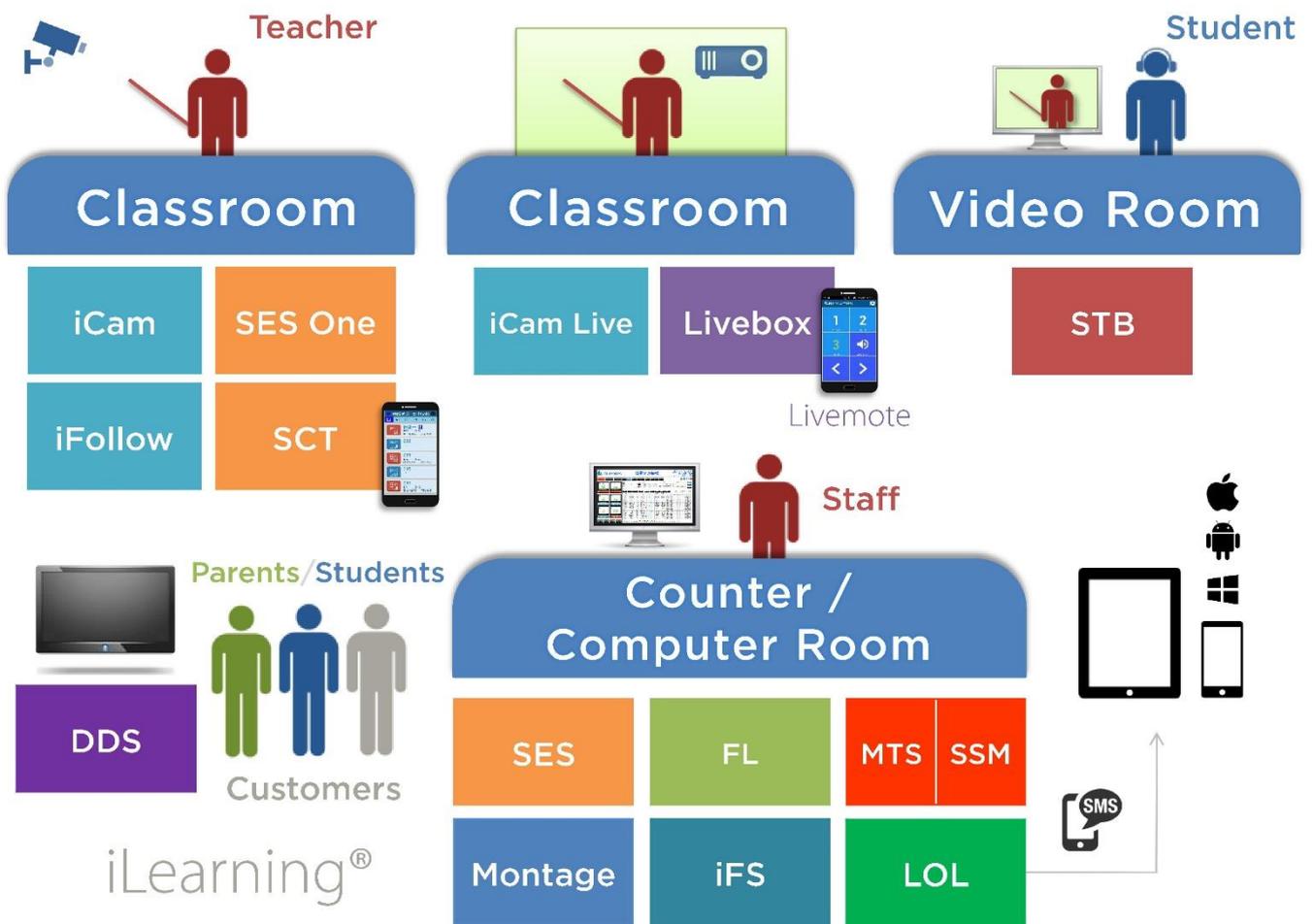


PS: iCam PRO is unlike normal camera, it is designed for education institute environment with full HD camera.

More information and features, please check official website of BlueEyes Technology:

http://www.blueeyes.com.tw/iLearning_iCam.php

1.3 Composition



2. Safety and Precautions

- Please do not leave or install the device in damp, direct sunlight, hot or confined spaces.
- Do not put anything that would fall into the machine on top of the machine.
- Do not place the machine on an unstable place. It may fall down, resulting in an injury.
- Please use this machine in a place with good ventilation. Do not block the heat dissipation vents. Poor heat dissipation can lead to a rise internal temperatures and cause malfunctions
- Use dry rag to clean the machine. Do not use solvent.
- We will not be liable for any damage caused by the use of third party power supplies in this machine
- Never plug the machine into a power socket that is shared with other equipment (extension load/cord, 2- or 3-way adapter, etc.). This may result in fire or electrical shock or fire.
- To prevent the machine from thunder, please make sure there is a ground connection.
- Please do not disassemble, re-design or maintain the device by yourself.
- The processors and accessories all pass the safety test of CE and FCC.

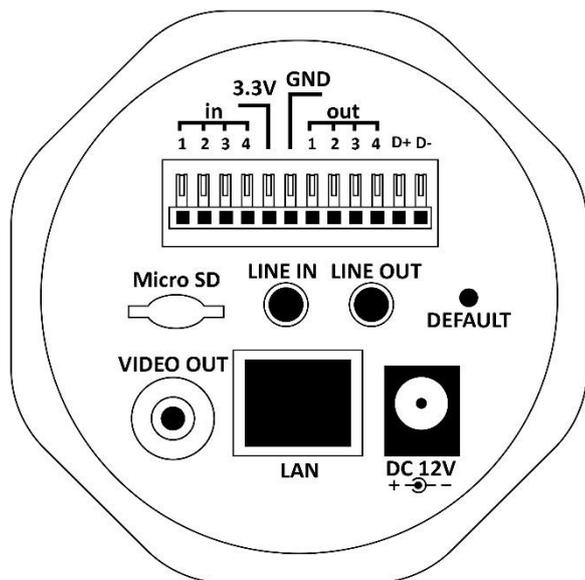


Please turn off iCam PRO, including power, network, sound and video to avoid the damage from thunder. According to BlueEyes warranty rules, thunder is one of natural disaster which has no guarantee. Welcome visit:
<http://www.BlueEyes.com.tw/warranty.php>

3. Device Description

3.1 Back Panel

-- Back panel --



Back panel descriptions:

DC12V	DC12V power input.
LAN	Attach the provided RJ-45 cable and the port is auto-sensing and supports negotiations at 10/100 speeds.
VIDEO	Connect to video equipment, such as a monitor or projector.
LINE IN	Connect to an audio input source.



Do not test or connect the interface not commonly used. It may cause instability of the system.

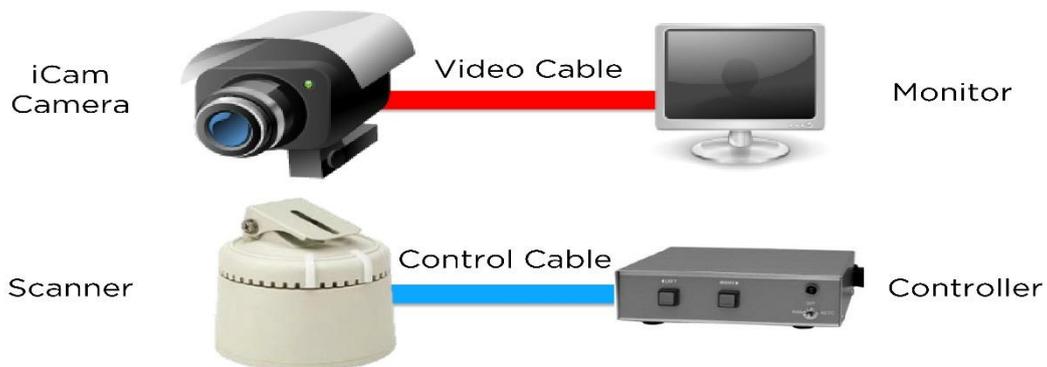
3.2 Fixed iCam PRO Camera

Fixed iCam PRO camera diagram:



3.3 Scanning iCam PRO Camera

Scanning iCam PRO camera diagram:



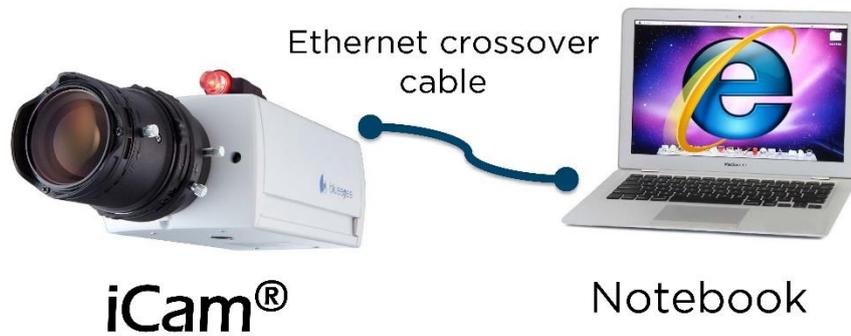
- The small monitor can suck on the direction controller. If you worry that it is not steady enough, you can stick directly on the monitor.
- There are two control buttons on the direction controller of the scanning iCam PRO camera, and the left and right controller is for SES. If you worry that the students might drop it on the floor, you can stick it on the table with double-sided tape or silicone as some of the education institutes do.
- Use flexible wire for network cable, video cable and audio cable to avoid fixed screw loosening or interfaces dropping after long use.
- Put termination plug at the end of the left and right turn.
- After installing, you must rotate to the end and see the image simultaneously to make sure the cables would not be pulled or the fixed screw of the camera would

not loosen when rotating.

- Use [double tone] for audio cable.

3.4 Live Video

Preparation Work



Follow these steps to watch live video on the notebook:

1. Open Microsoft Internet Explorer(IE) browser.
2. Enter the camera IP (192.168.1.171-176) on address bar.
3. Enter username and password.
4. Choose “Live View” to watch the video.



The operator username is sesuser. As a default, check the factory configured list. You can edit account name or password in setting. We recommend using Microsoft Internet Explorer version 10 or higher web browser.

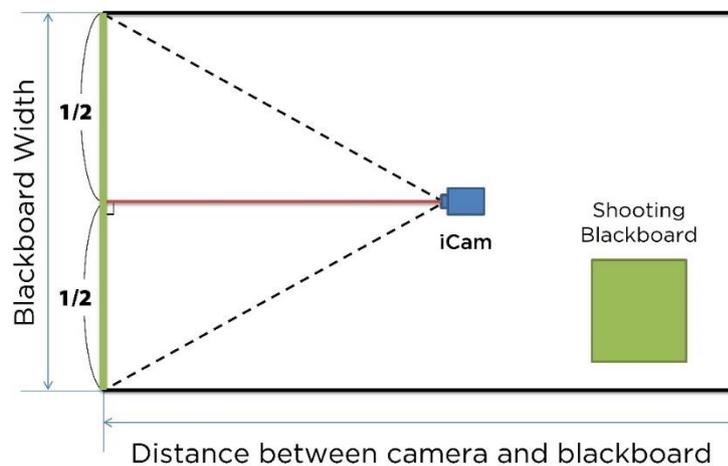
4. Location of Camera

4.1 Location of Camera

- The height of center blackboard is the best location.
- Higher than the students.
- Lower than the upper side of the blackboard
- Better install on the wall at the back of the classroom.

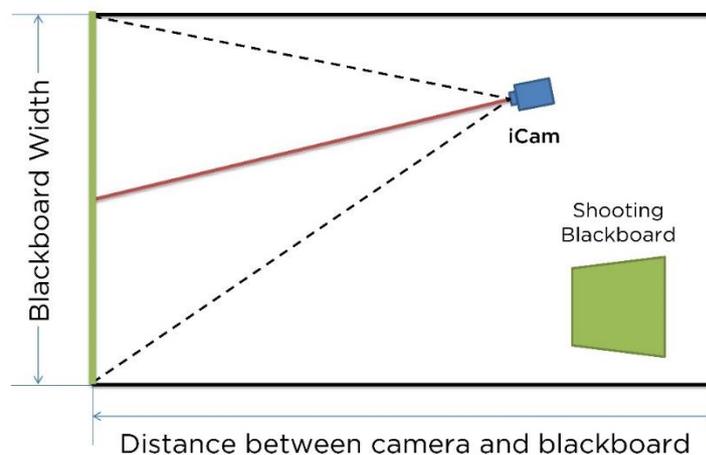
Viewport of the location of camera

The location of camera (Viewport)



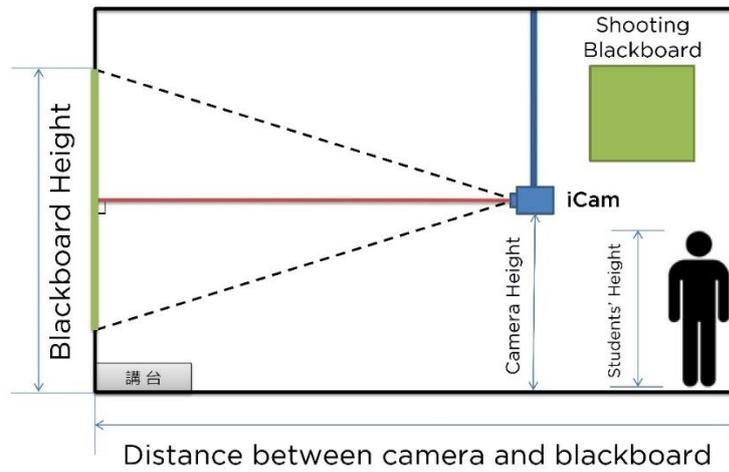
If you didn't install the camera at the location aimed the center of the blackboard, the blackboard would show as a trapezoid.

Wrong location of camera (Viewport)



Elevation of the location of camera

The location of camera (Elevation)



If you install the camera too high, the blackboard would show as a trapezoid, the bottom is shorter than the upper side.

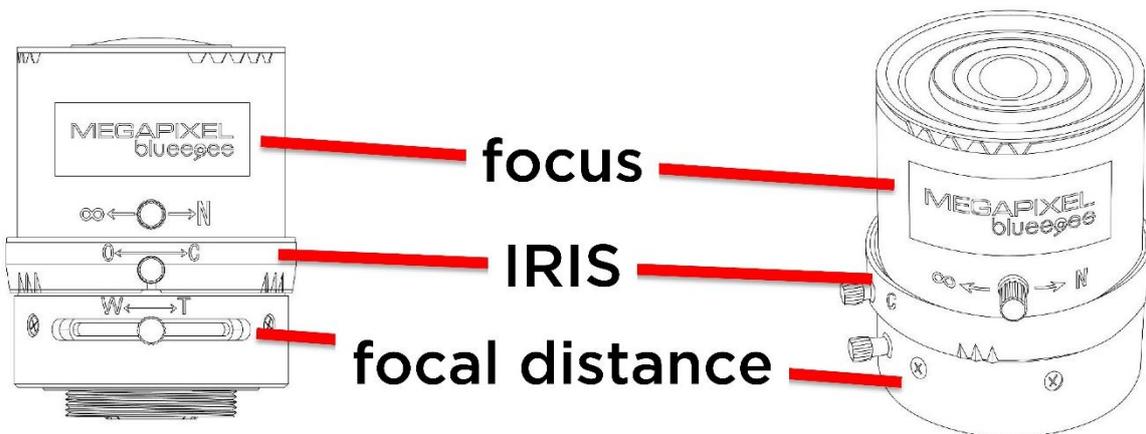
5. Adjusting Lenses

5.1 Lens of iCam PRO

8.5-50mm les



2.8-8mm les



Please loosen the nuts on the lens before adjusting the lens. But please do not remove it or it may get lost.

The adjust order is

- IRIS(O \leftrightarrow C)
- Focal distance(W \leftrightarrow T)
- Focus(∞ \leftrightarrow N)

5.2 IRIS (O \leftrightarrow C)

- O = Open, C = Close
- IRIS controls the light amount, so the light has big influence to the shooting effect.

- The more the light come in, the better the shooting is.
- We advise you to turn the IRIS to maximum to get enough light.
- If you use digital board or projector, you can adjust the IRIS to maximum then close down gradually.
- The light should be the same as class time.
- Fasten the nut after adjusting.
- When adjusting the camera lens, try to arrange during the class because the light (fluorescent light or sunshine) would influence the shooting.
- If the education institute records class in the evening, it is better for you to adjust lens in the evening.
- Steady light is very important for shooting.

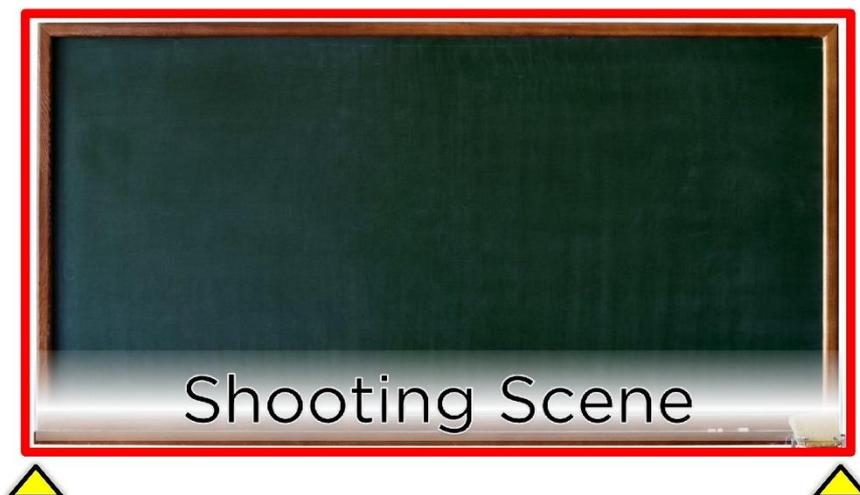
5.3 Advices for Classroom Lighting Improvement

- Use antidazzle lamp.
- Add antidazzle division.
- Replace to better light tube.
- The light on the blackboard must be the same.
- Use thick curtain to block sunlight. Turn on the light even it is daytime.

5.4 Zoom (W \longleftrightarrow T)

- W = Wide(wide angle/close)
- T = Tele(distance angle/far)
- The tips for adjusting is to make the left and right sides of the shooting scene justify both sides of the board, but when using scanner module, make the up and down sides of the shooting scene justify up and down sides of the board.
- Fasten the nut after adjusting.

Blackboard Width < 4meters

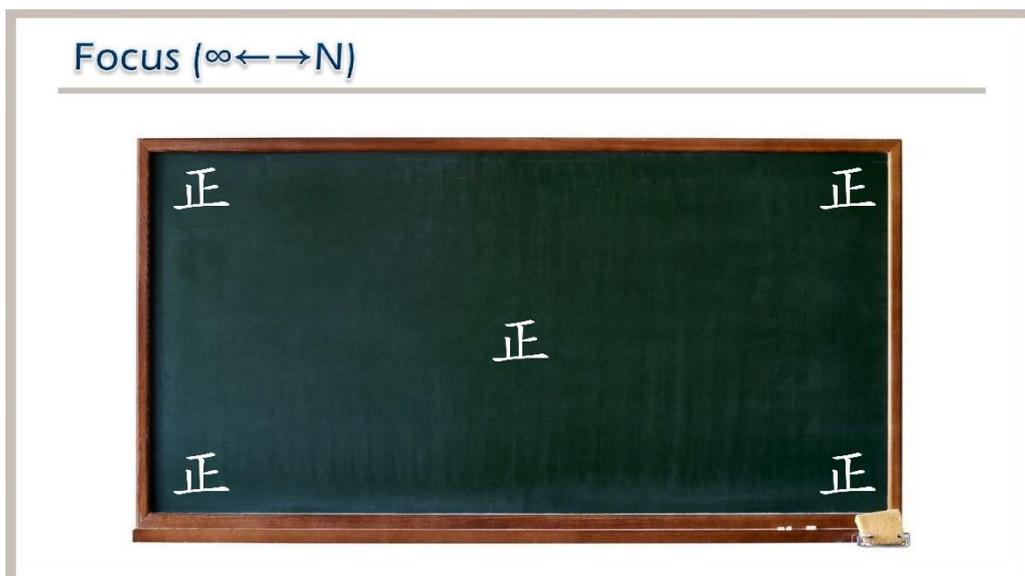


Blackboard Width > 4meters



5.5 Focus ($\infty \leftrightarrow N$)

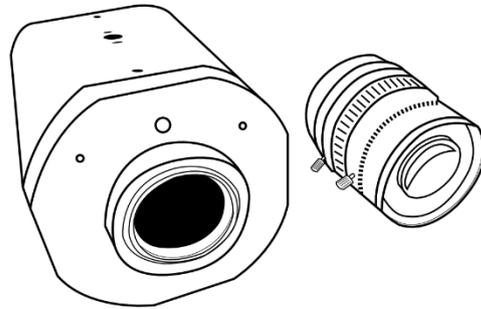
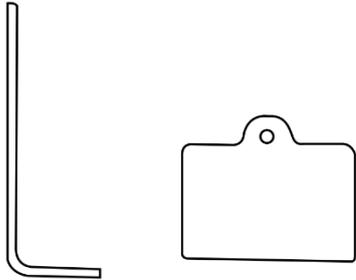
- ∞ =infinite, N=near-end
- The focus lock nut is close to the body, loosen it before adjusting.
- If you use digital board or projector, turn it on to adjust focus.
- The tips for adjusting is to write 【正】 in the center and four sides of the board.
- Adjust the focus to see the words clearly.
- Fasten the nut after adjusting.



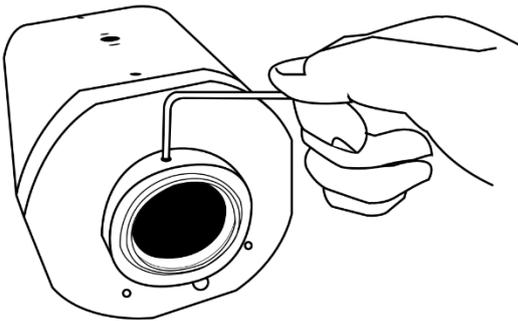
5.6 Introduction of Utensil

Adjusting the silver loop of the lens.

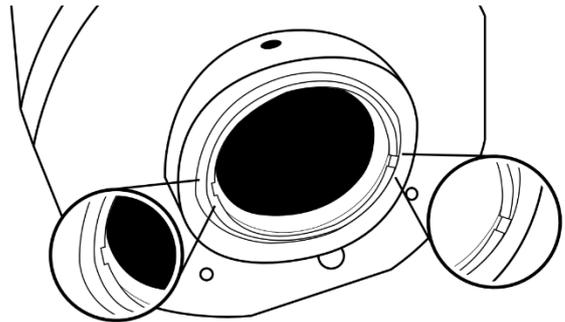
1. Prepare wrench in L style and iron sheet. 2. Take the lens off.



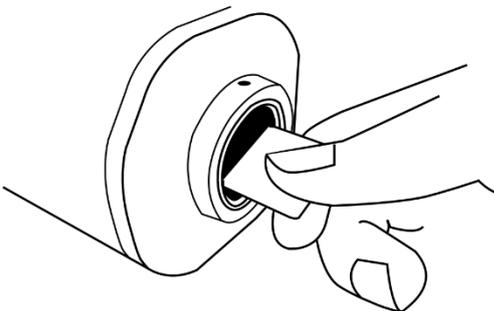
3. Loosen screws which beneath the lens by using wrench.



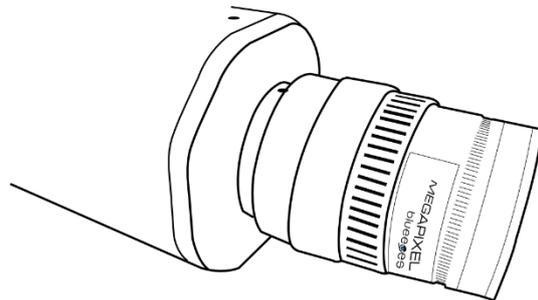
4. There are two depression surface on the silver loop.



5. Put iron sheet in the depression surface to move the silver loop.



6. Put the lens back.



6. Cleaning and Maintaining the Lens

- The lens is imported from Japan, it is very expensive.

- Do not touch the lens during construction.
- We would cover a dust cover on the lens, and please do not remove it until adjusting.
- If you find the lens have dust or fingerprint
 - Please blow the dust away with [lens blower] first
 - Then wipe the lens clockwise from center to the outer with [lens pen]
- Do not blow with mouth or wipe with tissue.

Cleaning and Maintaining the Lens



Lens Pen



Lens Blower

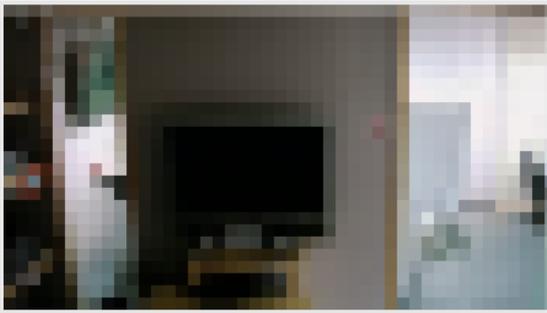


Do not remove the lens. This may make the lens stained with dust and fingerprint.

7. Setting

7.1 Video Setting

1. You can set the settings in “video”. Click “yes” to complete the setting.

Video	
Camera	iCam
	
Stream 1	
Codec	H264
Resolution	1280 X 720
Keep H/V Ratio	<input type="checkbox"/>
Framerate	30 fps
GOP	30
Rate Control	CBR
Bit Rate	4000 Kbps
Overlay Setting	
Date	<input type="checkbox"/> YYYY-MM-DD <input type="checkbox"/> 24Hrs <input type="checkbox"/> Top-Left
Text	<input type="checkbox"/> Top-Right
Mirror	OFF
Local Display Video	NTSC
WaterMark Setting	
Enable	<input type="checkbox"/>
Position X	1792
Position Y	0
Transparency	50 %
<input type="button" value="Accept"/> <input type="button" value="Reset"/> <input type="button" value="Default"/>	

Key functions :

Camera	Default is iCam.
--------	------------------

iCam	Specifies the name of the IP Camera.
Codec	Default is Dual H.264. Choose the video format from 「 H264 」 、 「 MJPEG 」 .
Resolution	Default is 「 1920x1080 」 . This option allows the user to choose the video resolution of the camera: 「 1920x1080 」 、 「 1280x1024 」 、 「 1280x720 」 、 「 640x480 」 .
Length and lenient	Default is OFF.
Image frames	Default is 「 26 」 fps Click on IP Camera to choose the frame rates of 1-60fps in all resolution.
GOP	Default is 「 30 」
Rate Control	Default is CBR. Set 「 CBR 」 or 「 VBR 」 OFF: MPEG4 will be coded with QP = 4 H264 will be coded with QP = 28 VBR: Variable Bit rate. CBR: Constant Bit rate. This will have frame skips to maintain bit rate with specified VBV buffer. <i>Notice!! For Recording: CBR, For Live Video: VBR!!</i>
Bit Rate	Default is 「 4000 」 kbps. Type the required bit-rate for both MPEG4 Setting and H.264 Setting. Bit-rate values ranges between 64 and 10000 from stream1 and 64 to 8000 for stream2/stream3.
Overlay Setting	Select Enable Date and Time check box to activate the function.
Mirror	Default is OFF. Select the required option: HORIZONTAL 、 VERTICAL and BOTH.
Local Display Video	Default is NTSC. Select one of the following options of the display device: 「 NTSC 」 and 「 PAL 」 .
Watermark	Default is OFF. Select the required option: Position X, Position Y, transparency.



iCam PRO is set already. Do not edit the default unless you are trained and understand the way and the meanings of editing.

We recommend using Microsoft Internet Explorer version 10 or higher web browser.

7.2 Camera Setting

Camera

Camera	<input type="text" value="iCam"/>	
Lighting Condition		
Brightness [0 - 255]	<input type="text" value="128"/>	
Contrast [0 - 255]	<input type="text" value="128"/>	
Saturation [0 - 255]	<input type="text" value="128"/>	
Enhance Character [0 - 255]	<input type="text" value="128"/>	
Hue [0 - 255]	<input type="text" value="128"/>	
Back Light Compensation	<input checked="" type="radio"/> OFF <input type="radio"/> ON	
Enable WDR	<input type="checkbox"/>	
WDR Level [0 - 10]	<input type="text" value="5"/>	
Flicker Control	<input type="text" value="60 Hz"/>	
Color Mode	<input type="text" value="Day"/>	
Exposure Settings		
Dynamic <input type="radio"/>	Auto IRIS	
	Auto IRIS	<input type="text" value="OFF"/>
	Day	
	Min. Shutter	<input type="text" value="1/100000"/> sec
	Max. Shutter	<input type="text" value="1/60"/> sec
	Max. Gain [0 - 175]	<input type="text" value="125"/>
	Night	
	Min. Shutter	<input type="text" value="1/100000"/> sec
	Max. Shutter	<input type="text" value="1/60"/> sec
	Max. Gain [0 - 175]	<input type="text" value="50"/>
Static <input checked="" type="radio"/>	Shutter	<input type="text" value="1/60"/> sec
	Gain [0 - 175]	<input type="text" value="25"/>
DNR		
DNR	<input type="radio"/> OFF <input checked="" type="radio"/> ON	
PTZ		
Protocol	<input type="text" value="PelcoD"/>	
Device ID	<input type="text" value="1"/>	
Baud Rate	<input type="text" value="2400"/>	
Speed	<input type="text" value="16"/>	
Min. Move Time	<input type="text" value="0"/> sec	
Privacy Mask		
Enable	<input type="checkbox"/>	
Booting LED		
Booting LED	<input type="text" value="N/A"/>	

Key functions :

Camera	Default is iCam PRO. Enter the name of IP Camera.
Brightness	Default is 128. Select the required brightness level that ranges from 0 to 255. . A brighter scene appears, if you choose higher level of brightness.
Contrast	Default is 128. Select the required range. The range available is from 0 to 255.
Saturation	Default is 128. Select the required saturation level that ranges from 0 to 255. A vivid scene appears, if you choose a higher level of saturation.
Sharpness	Default is 128. Select the required range of sharpness. The range available is from 0 to 255.
Hue	Default is 128. Select the required range of hue. The range available is from 0 to 255.
Back Light Compensation	Default is OFF. Select one of the following options to turn on/off the backlight function
Enable WDR	Default is OFF. The Wide Dynamic Range (WDR) function
WDR Level	Default is 5. Select your options of the level between 1 and 10
Flicker Control	Default is 60Hz. Select one of the following options of the Flicker device NTSC/60Hz : This will compensate for 60Hz flicker and will put the display if selected to NTSC mode PAL/50Hz : This will compensate for 50Hz flicker and will put the display if selected to PAL mode
Color Mode	Default is Day. Select your option from Auto, Day, and Night.
Static	Default are On, Shutter 1/60 sec, Gain 25 <i>!! if image is too dark try increasing gain value !!</i>
DNR	Default is ON.
Protocol	Default is OFF Select your option from OFF 、 PelcoP 、 PelcoD.
Device ID	Default is 1 Select your options between 0 and 1.
Baud Rate	Default is 2400 Select your option from 1200 、 2400 、 4800 、 9600 、 19200.

Speed	Default is 16 Select your options between 0 and 23.
Min Move Time	Default is 0 Select your options between 0 and 1.
Privacy	Default is OFF Blocking a specific area on the monitor for the protection of individual privacy.
Booting LED	Default is N/A. Select your options N/A, Red, Blue, Purple.



We recommend using Microsoft Internet Explorer version 10 or higher web browser.

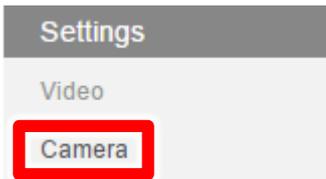
7.3 Privacy Mask Setting

In order to protect the privacy of the students in the front rolls who shown in the video, we develop the “Privacy Mask Setting.” You can choose three areas where students’ faces appear, then the area you choose would not appear on the video. The steps of setting are as below:

1. Login camera IP, and enter camera account and password.



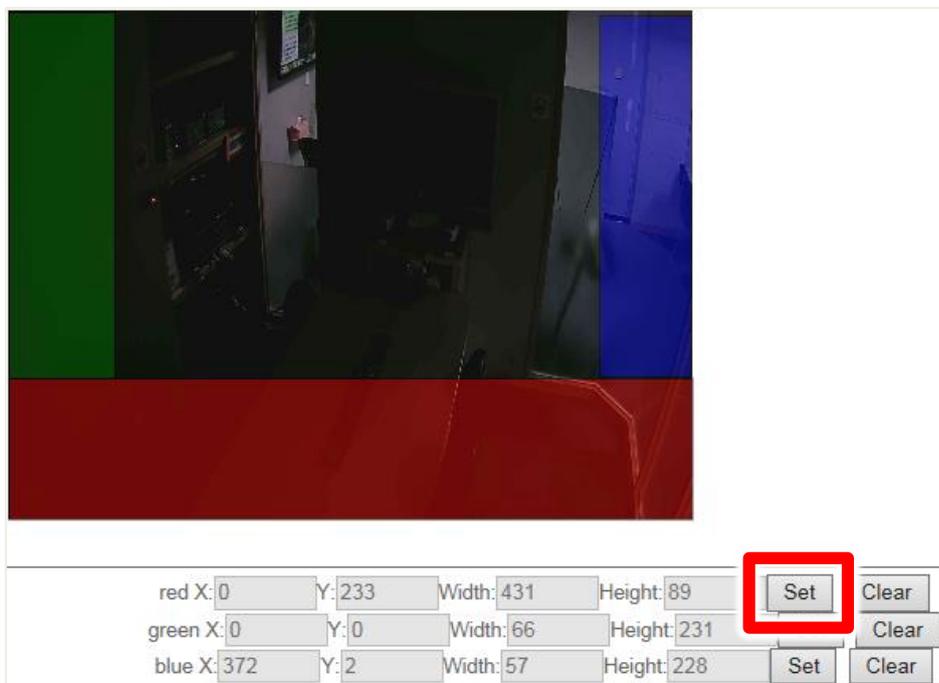
2. Click camera in the setting column.



3. Select the checkbox to enable privacy mask.



4. After enabling privacy mask, set the monitor from right to left and click "set".



5. You can set three ranges of the privacy mask which represent by red, green and blue.

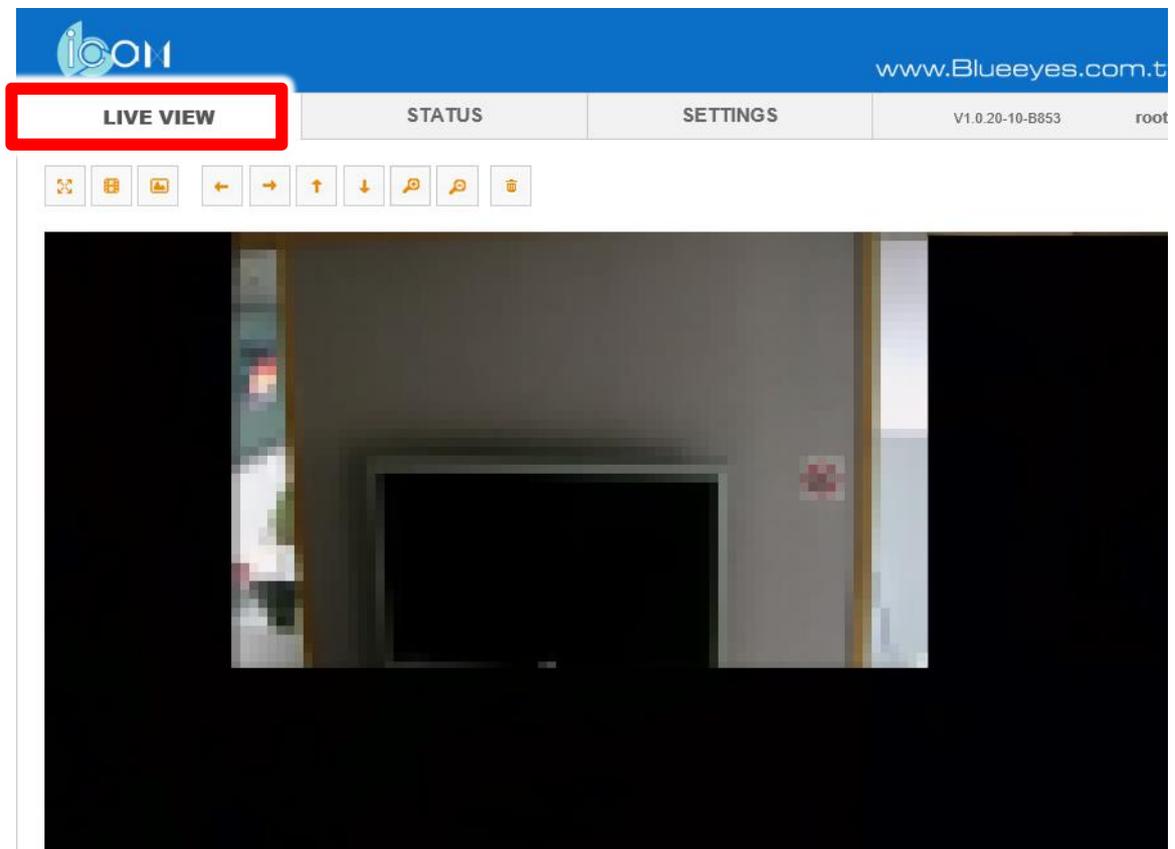
red X: 0	Y: 233	Width: 431	Height: 89	Set	Clear
green X: 0	Y: 0	Width: 66	Height: 231	Set	Clear
blue X: 188	Y: 204	Width: 0	Height: 0	Set	Clear

Booting LED	
Booting LED	N/A ▼

6. You can click “clear” to cancel the privacy mask.

red X: 0	Y: 233	Width: 431	Height: 89	Set	Clear
green X: 0	Y: 0	Width: 66	Height: 231	Set	Clear
blue X: 188	Y: 204	Width: 0	Height: 0	Set	Clear

7. You can watch the live view to check the range of the privacy mask.





We recommend using Microsoft Internet Explorer version 10 or higher web browser, and do not join the "Compatibility View Settings".

7.4 Audio Setting

1. Enter "Audio" setting to adjust audio input and output. Click "Accept" to save the setting.

The screenshot shows the 'Audio' configuration page. It includes a title bar 'Audio' and several sections: 'Enable Audio' with a checked checkbox, 'Audio Mode' set to 'Both Mic & Speaker', 'Audio Input' with 'Line In' selected, 'Input Gain [0 - 100]' set to 0, and 'Alarm Level [0 - 100]' set to 0. The 'Audio Output' section has 'Output Volume [0 - 100]' set to 0. At the bottom, there are three buttons: 'Accept' (highlighted with a red box), 'Reset', and 'Default'.

Key functions:

Enable Audio	Default is ON. This will switch ON/OFF the audio in camera.
Audio Mode	Default is only Mic. You can change the audio mode in the Network camera in one of the following ways: Only Mic: Enables only audio capture in camera. Only Speaker: Enables only audio playback in camera. Both Mic & Speaker: Enables both audio playback & capture in camera.
Input Gain	Default is 0. Sets the input capture gain, values set from 1-60.
Encoding	Default is PCM.
Channels	Default is 2(stereo).
Sample Rate	Default is 44.1Khz.
Bit Rate	Default is 32k bps.



We recommend using Microsoft Internet Explorer version 10 or higher web browser.

7.5 Network Setting

Follow the steps to adjust network setting and IP address. Click “Accept” to save the setting.

Network

IP	
DHCP <input type="radio"/>	Hostname <input type="text"/>
	MTU <input type="text" value="1500"/>
Static IP <input checked="" type="radio"/>	IP address <input type="text" value="192.168.1.171"/>
	Subnet mask <input type="text" value="255.255.255.0"/>
	Default Gateway IP <input type="text" value="192.168.1.1"/>
	MTU <input type="text" value="1500"/>
DNS Assignment	<input type="radio"/> Auto <input checked="" type="radio"/> Manual
Primary DNS Server	<input type="text" value="168.95.1.1"/> <input type="text" value="Secondary DNS Server"/>

Key functions:

DHCP	If you have a DHCP server running on your network and would like a dynamic IP address to be updated to your camera automatically.
Static IP	Specifies the IP address of the camera. Options include: IP address, Subnet mask, Gateway and MTU.
PPPoE	Support users use IP of ADSL to connect with internet when connect from internet.
DNS Assignment	Specifies the DNS server for your network.
Primary DNS Server	Network of preferred and alternate DNS server address.
Secondary DNS Server	Network of preferred and alternate DNS server address.



We recommend using Microsoft Internet Explorer version 10 or higher web browser.

7.6 Network Protocol

Please make sure “sync with NVR” is “any one”.

Network Protocol

Max. Stream Connection [0 - 16]	<input type="text" value="8"/>
---------------------------------	--------------------------------

HTTP	
HTTP Port [1 - 65535]	<input type="text" value="80"/>
Sync With NVR	<input type="text" value="Any One"/> <input type="text" value="Only One IP"/>
ONVIF Discoverable	<input type="checkbox"/>
Max. HTTP Connection [0 - 12]	<input type="text" value="6"/>

RTSP	
RTSP Port [1 - 65535]	<input type="text" value="554"/>
Video Packet Size [1400 - 8192]	<input type="text" value="8192"/>
Check RTSP Keep Alive	<input type="checkbox"/>
RTSP Authentication	<input type="checkbox"/>
Max. RTSP Connection [0 - 12]	<input type="text" value="6"/>



EPTZ only support dip 1280*720.

8. Watermark

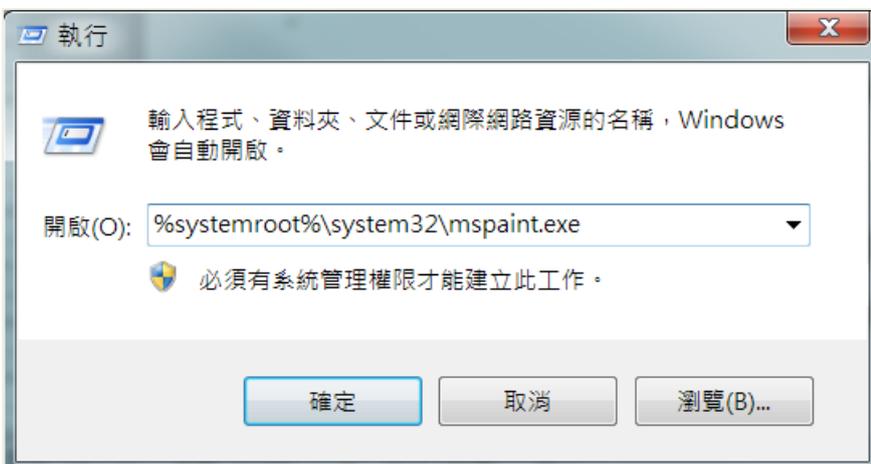
8.1 Trademark of Education Institute

Many education institutes want to mark their name on the videos. You can upload the trademark and name on iCam PRO.

8.2 Making Trademark Picture

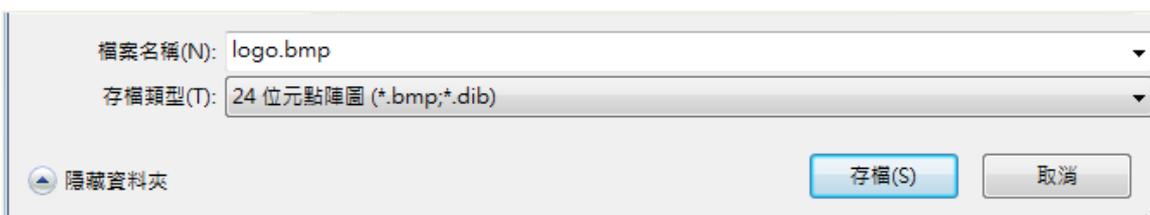
Click +R or [Start] → [implement] to open the implement window. Enter the instruction below to open Paint.

`%systemroot%\system32\mspaint.exe`



Make a trademark in Paint.

Save as→BMP picture→File type **【24 bitmap】** ! Important !



8.3 Upload Watermark

Use IE browser to connect to iCam1080 network management. Click [Watermark] in [Maintenance]. Here are the steps:

Step 1:

Click **【Choose file】** to choose your watermark picture.

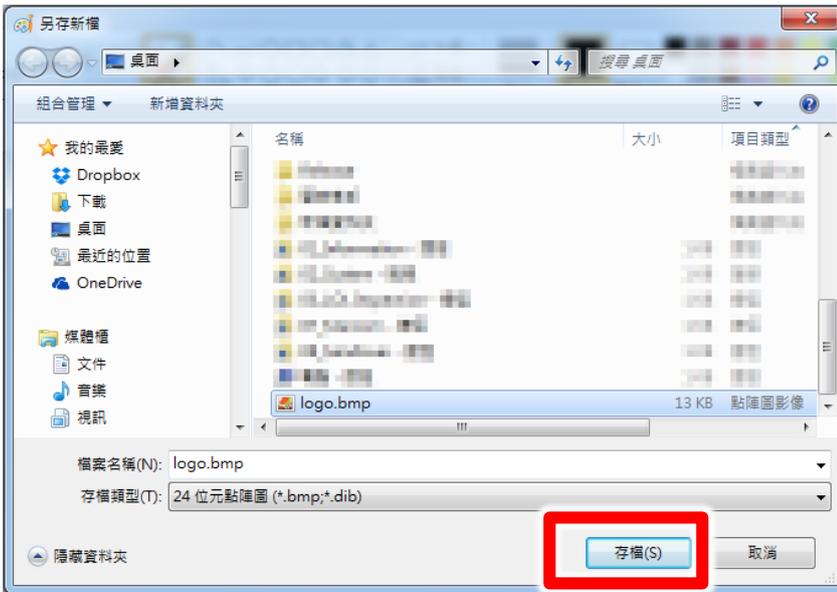
Watermark Upload

Watermark File

瀏覽...

Upload

Then click "Open" .



Step 2:

Click 【Upload】 to upload the picture.

Watermark Upload

Watermark File

瀏覽...

Upload

Step 3:

It would show like this if it uploads successfully. You can see the watermark on the live video.

Watermark Upload

Upload Succeeded

Back

Step 4:

You can choose which corner you want to put the watermark. Please choose the position of the watermark in Watermark "Position". Also, you can set "Transparency".

WaterMark Setting	
啟用	<input checked="" type="checkbox"/>
Position X	<input type="text" value="0"/>
Position Y	<input type="text" value="0"/>
Transparency	<input type="text" value="50"/> %



You should check enable the watermark so the watermark would show on the monitor.

We recommend using Microsoft Internet Explorer version 10 or higher web browser.

8.4 Notices

- File name is BMP file.
- Dpi is 64*64.
- Length and width can be individually divisible by 4 (Pixels)
- Leave the white blank to avoid color confusion.

9. QRcode

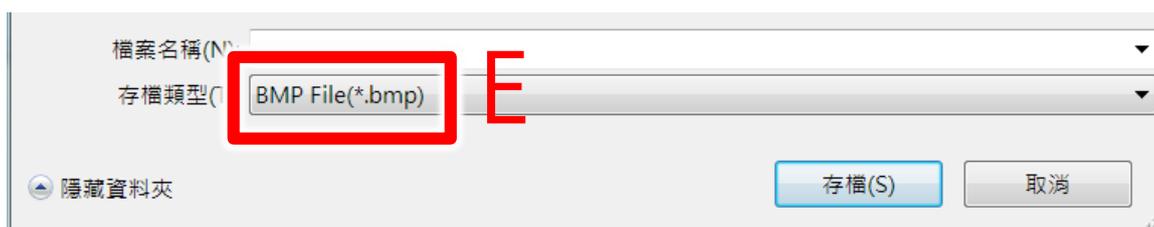
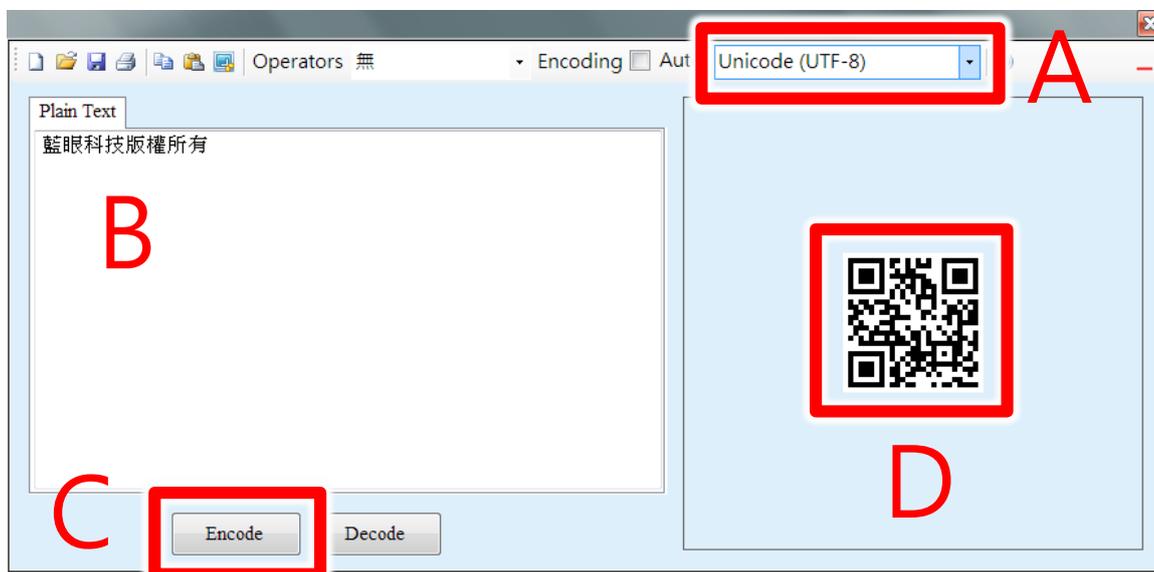
9.1 About QRcode

QRcode is the most common encoding. Some education institutes would make the official websites or video copyright website into QRcode. Then print the QRcode on the video.

9.2 Make QRcode

Please download the QRcode tool through the website below.

<http://www.blueeyes.com.tw/download/QRCode.zip>

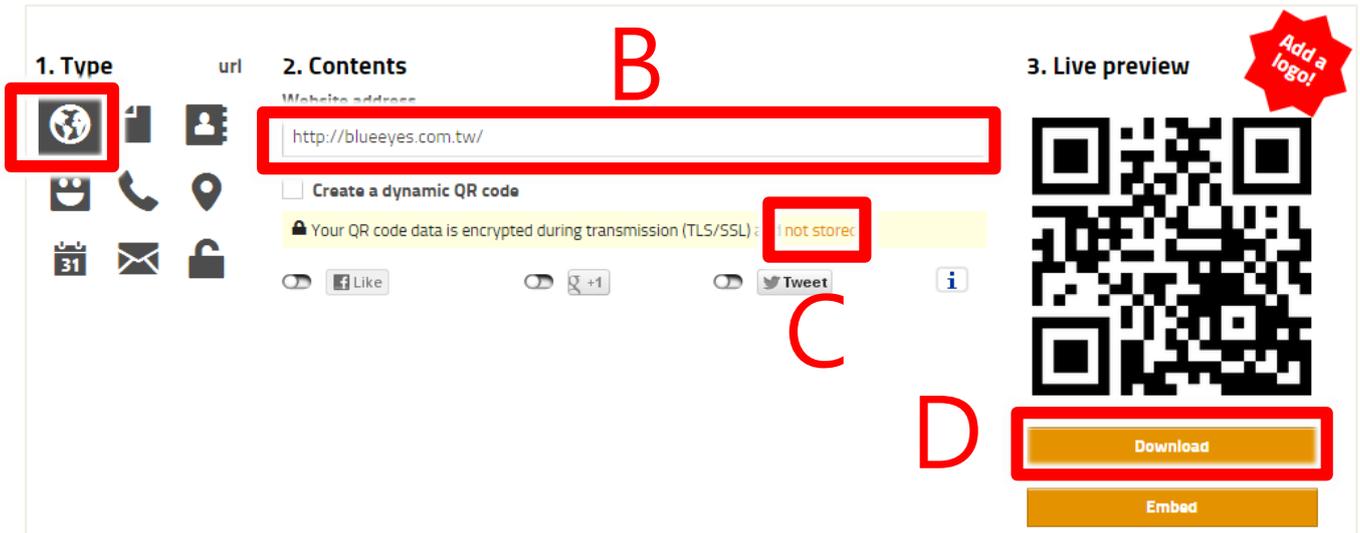


A	Please choose Unicode (UTF-8) to type in words.
B	Please type in the website or words you want to show after scanning QRcode.
C	Every time you enter words or websites, you have to click it again.
D	You can check with your cellphone to see if the QRcode is correct.

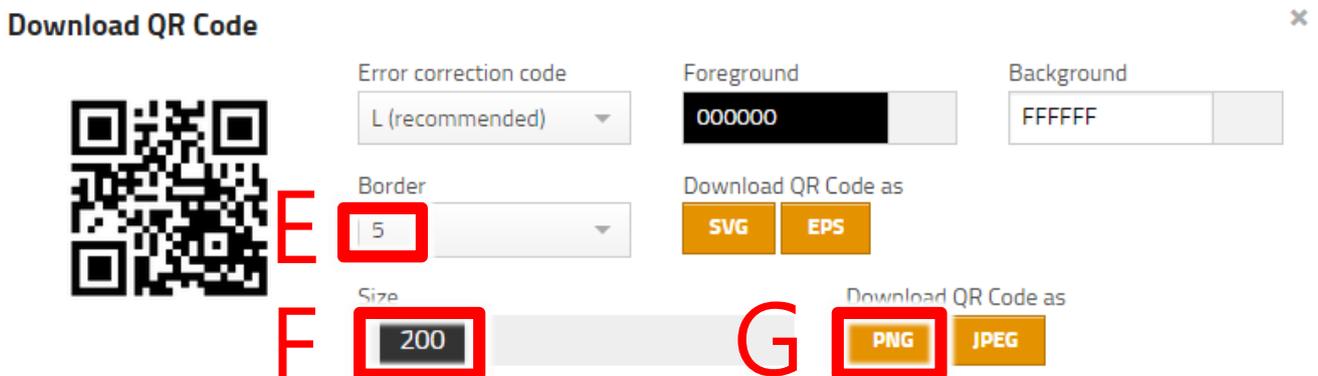
E	Save the file as BMP file(*.bmp).
---	-----------------------------------

Or there are many websites to make free QRcode:

<http://goqr.me/>



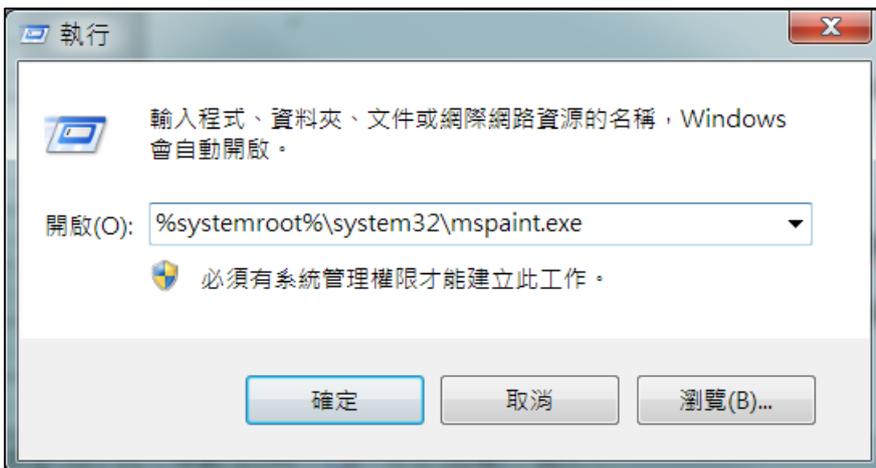
A	Select the URL page.
B	Enter the website you want for QRcode.
C	Select “not stored” .
D	Click Download to download QRcode.



E	The white boarder of the QRcode is better to be 5px. It may be difficult to scan if the boarder is too thin or too thick.
F	The length and width of the QRcode should be divided by 4 or it would be out of shape. Choose 200px is better.
G	Download as PNG, but it has to be BMP file when uploading.

Click +R or [Start] → [implement] to open the implement window. Enter the instruction below to open Paint. ◦

%systemroot%\system32\mspaint.exe



Open the QRcode file in Paint:

Save as→BMP picture→File type **【24 bitmap】** ! Important !



9.3 Upload QRcode

Use IE browser to connect to iCam PRO 1080 network management. Click [Watermark] in [Maintenance]. Here are the steps:

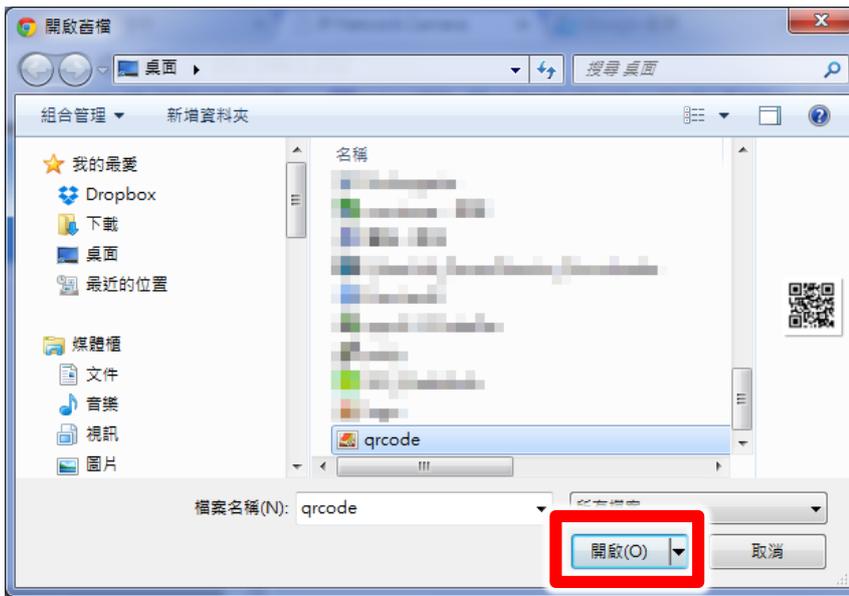
Step 1:

Click **【Choose file】** to choose your QRcode.

Watermark Upload



Then click [Open]



Step 2 :

Click 【Upload】 to upload the QRcode.

Watermark Upload



Step 3 :

It would show like this if it uploads successfully. You can see the QRcode on the live video.

Watermark Upload

Upload Succeeded

Back

Step 4:

You can choose which corner you want to put the QRcode. Please choose the position of the watermark in Watermark 【Position X】 and 【Position Y】. You can set 【Transparency】 as well.

WaterMark Setting	
啟用	<input checked="" type="checkbox"/>
Position X	<input type="text" value="0"/>
Position Y	<input type="text" value="0"/>
Transparency	<input type="text" value="50"/> %



You should check enable the watermark so the QRcode would show on the monitor.

We recommend using Microsoft Internet Explorer version 10 or higher web browser.

If you are an iPhone user, you can use Quick Scan App. If you are an Android user, you can use QR Droid App.

9.4 Notices

- File name is BMP file
- 24 bitmap
- 64*64(dpi) for length and width
- Leave the white blank to avoid color confusion

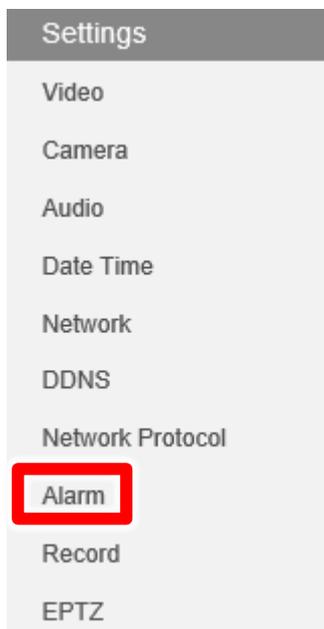
10. Motion Detection of iFollow

10.1 Enable and Set the Motion Detection

Step1: Open IE browser. Enter camera IP address, account and password.



Step 2: Click “Alarm” on the left side of “Setting”



Step 3: Click enable “Motion detection”

Motion Detection		<input checked="" type="checkbox"/>
Ethernet Lost		<input type="checkbox"/>
External Triggers		<input checked="" type="checkbox"/>
Input	ON	Trigger Voltage Low
Input	ON	Trigger Voltage Low
Input	ON	Trigger Voltage Low
Input	ON	Trigger Voltage Low
Output	OFF	Trigger Voltage High
Output	OFF	Trigger Voltage High
Output	OFF	Trigger Voltage High
Output	OFF	Trigger Voltage High
Upload Via FTP		<input type="checkbox"/>
Upload Via SMTP		<input type="checkbox"/>
Save Into SD		<input type="checkbox"/>

Step 4: Set these red boxes. The red boxes are the motion detection. Click the transparent boxes to make them become red boxes. Click the again to cancel

Motion Detection

Select All
Clear All

Sensitivity
 MEDIUM

Customized Threshold
 100

Accept
Reset
Default



The detective position may be different according to the shooting environment. Contact us if you have any question: 04-22970977

Step 5: Click [Customized Threshold] as 100 and click OK to save.

Sensitivity <input type="radio"/>	MEDIUM ▼
Customized Threshold <input checked="" type="radio"/>	100



We recommend using Microsoft Internet Explorer version 10 or higher web browser.

10.2 Notices

- If the students come late or leave the seat, motion detection may misjudge teacher's position.
- If the board erasers come up to stage when lecturing, motion detection may misjudge teacher's position.

11. Q&A

【Question 1】 Can the camera be on for 24 hours?

【Answer】 Yes.

iCam PRO is industrial grade. It can be operated for 24 hours without overheating. Power consumption is very low and will not cause your tariff burden.

【Question 2】 How to adjust if the image is blurred?

【Answer】 Please refer to the manual on Chapter 5 to adjust the lens focus.

【Question 3】 Why the words on the board trembling?

【Answer】 These might be the reasons:

1. If iCam PRO is installed on the wooden wall or calcium silicate, it may cause word trembling. iCam PRO should be installed on the wall that is solid and not easy to shake. Wooden wall or calcium silicate would shake when opening and shutting the door or turning on the air conditioners.
2. It would happen the same thing when installed the iCam PRO on the ceiling T grid. Use telescopic support and install it on the cement ceiling above the ceiling T grid.

【Question 4】 How to clean the lens?

【Answer】 Please refer to the manual on Chapter 6 to see Cleaning and Maintaining the Lens.

【Question 5】 How long does it take to start up the camera?

【Answer】 Normally it takes about 50 seconds, no longer than one minute.

【Question 6】 Ripple shows when using projector or digital board

【Answer】 When you use early version of projector or digital board, you might find ripple on the video. That is because the light amount is not enough.

1. Adjust IRIS of iCam PRO lens. Turn the IRIS to O (Open) to make more light come in.
2. Change the exposure mode to indoor, Gain as 0db. If you find that the scene is over-exposure, turn the IRIS to C (Close) to adjust the light amount until the words are clear.

【Question 7】 The video file cut into one or several pieces

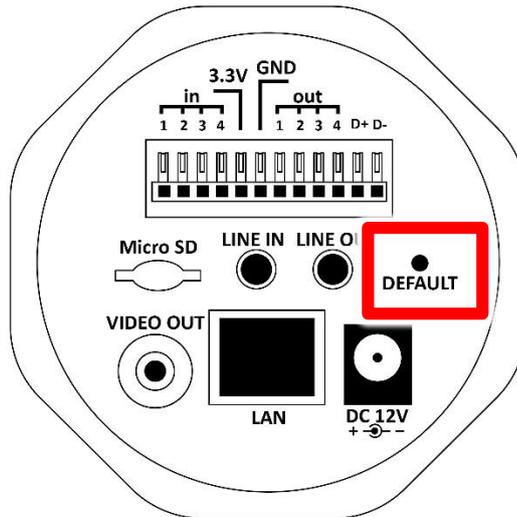
【Answer】 If you find that the recording of SES/SES Lite cut into one or several pieces, it might be the reasons below:

1. If you use scanner module, it might be network disconnect when rotating. We advise you to use the longer network cable and use better crystal RJ45 module plug.
2. If iCam PRO/ SES/ SES Lite uses the same network segment as other computers, it may cause IP conflict. WE advise you change the network segment of other computers.
3. There are 8 wires in network cable. If one of them is broken, the internet would not be steady. Restart the network switch again would be better, and after long use, the network would become slower or disconnected. We advise you use lan tester to recheck the internet.

【Question 8】 How to restore to default?

【Answer】 Method 1:

Use a paper clip to poke in the hole marked “Default” on the back of the camera for 6 seconds.



Method 2:

To reset the camera to default settings, go to the Settings > Maintenance > Profile web page. Click Restore Default Configurations and waiting for 60 seconds.

Restore Configurations	
<input checked="" type="radio"/> Upload Configuration File	<input type="text" value="瀏覽..."/>
<input type="radio"/> Restore Default Configurations	
<input type="checkbox"/> Keep Network Settings	<input type="button" value="Restore"/>



We recommend using Microsoft Internet Explorer version 10 or higher web browser.

【Question 9】 How to reduce background noise

【Answer】 There are many reasons why causes noise. You can ask for professional audio manufacturers for help. There are several ways to solve the problems:

《First way》 change electric suppliers

BlueEyes[®]
<http://www.BlueEyes.com.tw>