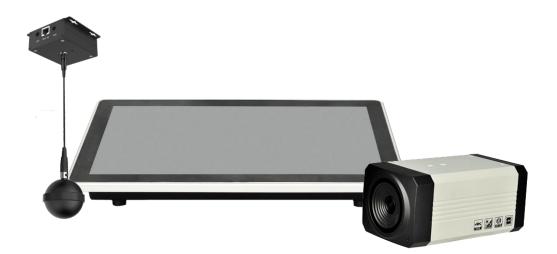
IQVideo

Lecture Capture System

LCS610

——User Manual——



TQ Returnstar Interactive Technology Group Co., Ltd.





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Chapter 1 System Components



1.1 Video Station Interface Description





- DC-48 IN Video Station Power In
 4-port POE 1000Mbps
 - 4 Gigabit Ethernet POE Power Supply and Access to Webcam
- COM
 RJ45 Control Port, Support RS-232 Communication Protocol
- 4. HDMI-OUT2 Local Director Screen Output
- 5. HDMI-OUT1 Recorded Video Screen Output
- HDMI-IN Support Access to the Teacher's Computer or Visual Presenter and Other HDMI Video Signals
- 7. USB Local Recording Video Export
- 8. AUDIO-OUT Audio Recording Output to Audio Processor
- 9. AUDIO-IN Audio Signal Input Such as Microphone

1.2 Teacher Camera/Student Camera Interface Description



- 1. DC 12V, Camera Power Interface
- 2. RS485 Device Control Port



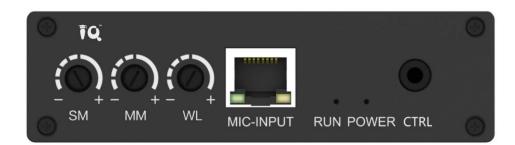
| platforms | 2022/1/4 17:20 | 文件夹 | |
|---------------------------|-----------------|--------|-----------|
| 🗟 avcodec-55.dll | 2019/7/11 17:31 | 应用程序扩展 | 18,892 KE |
| 🗟 avformat-55.dll | 2019/7/11 17:31 | 应用程序扩展 | 5,518 KE |
| 🗟 avutil-52.dll | 2019/7/11 17:31 | 应用程序扩展 | 410 KE |
|] config.ini | 2022/2/24 18:46 | 配置设置 | 4 KE |
| icudt52.dll | 2019/7/11 17:31 | 应用程序扩展 | 22,993 KI |
| icuin52.dll | 2019/7/11 17:31 | 应用程序扩展 | 3,269 KI |
| icuuc52.dll | 2019/7/11 17:31 | 应用程序扩展 | 1,946 KI |
| libgcc_s_dw2-1.dll | 2019/7/11 17:31 | 应用程序扩展 | 115 K |
| libstdc++-6.dll | 2019/7/11 17:31 | 应用程序扩展 | 949 K |
| libwinpthread-1.dll | 2019/7/11 17:31 | 应用程序扩展 | 48 K |
| Qt5Core.dll | 2019/7/11 17:31 | 应用程序扩展 | 4,674 K |
| Qt5Gui.dll | 2019/7/11 17:31 | 应用程序扩展 | 4,490 K |
| Qt5Network.dll | 2019/7/11 17:31 | 应用程序扩展 | 1,380 K |
| Qt5Widgets.dll | 2019/7/11 17:31 | 应用程序扩展 | 5,746 K |
| swresample-0.dll | 2019/7/11 17:31 | 应用程序扩展 | 272 K |
| swscale-2.dll | 2019/7/11 17:31 | 应用程序扩展 | 424 K |
| teacher_conf.tar.gz | 2019/7/11 17:31 | 360压缩 | 2 KI |
| Tracking Config Tools.exe | 2019/10/9 14:22 | 应用程序 | 1,160 KI |

3.

RJ45, Gigabit Network Interface, POE Supported

- 4. 3-Pin Phoenix Contact Audio Line in
- 5. SDI Video Signal Transmission Interface

1.3 Microphone Audio Processor Interface Description



1.3.1 Front Interface

- 1. SM Input volume adjustment knob of wired vice microphone.
- 2. MM Input volume adjustment knob of wired main microphone.
- 3. WL Input volume adjustment knob of wireless main microphone.
- 4. MIC-INPUT Input interface of network port microphone.
- 5. RUN Device running indicator, flashing slowly indicates normal operation.
- 6. POWER Power indicator, keep it on after power on.
- 7. CTRL Debugging port.





1.3.2 Back Interface

- 8. AEC-REF Acoustic echo cancellation audio signal input interface, 3.5mm audio interface.
- 9. AEC-REF Rotate the AEC-REF volume adjustment.
- 10. SPK-OUT Stereo output to external amplifier or speakers, 3.5mm audio interface.
- 11. SPK-OUT Rotate the SPK-OUT volume adjustment .
- 12. AEC-OUT Stereo acoustic echo cancellation processed signal output interface, 3.5mm audio interface.
- 13. AEC-OUT Rotate the AEC-OUT volume adjustment knob.
- 14. DC-12V Power port.

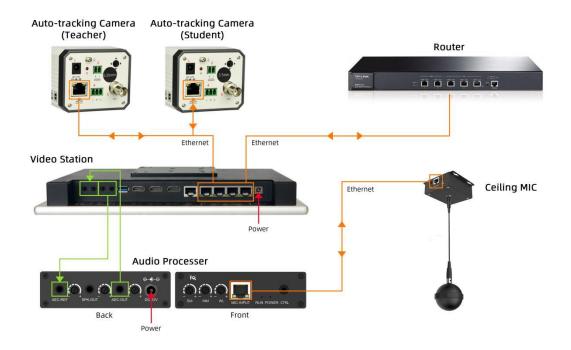
Chapter 2 Installation Preparation

Before setting, please prepare a computer (installed with tracking debugging software), video station, tracking camera, and ceiling microphone.

There are two tracking cameras: teacher camera and student camera. The tail plate marked 7.35mm is the teacher tracking camera (teacher camera default IP: 192.168.2.88), and 3.5mm is the student tracking camera (student camera default IP: 192.168.2.89). The installation height is preferably between 2.2 meters and 2.5 meters.

Connect all devices and network cables, make sure all devices are in the same LAN, and ready for setting.

Chapter 3 Device Connection



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Chapter 4 Camera IP Modification&Setting:

- 1. Factory IP: (Teacher Camera) 192.168.1.82、 (Student Camera) 192.168.1.92。
- 2. Set Station, Camera, Monitor PC under one LAN:

*PC side check IP: Ctrl+R -> cmd ->ipconfig (eg:WINDOWS) :

| Ethernet adapter 🛛 🖓 🕄 : | |
|--|---|
| Connection-specific DNS Suffix . : Link-local IPv6 Address : IPv4 Address Subnet Mask | fe80::fc08:49 <mark>5</mark> 1:dcc5:7da7%17 192.168.1.157 255.255.255.0 |
| Wireless LAN adapter WLAN: | |
| Media State | |

3. Modify Camera IP: (Software Tool: upgrade v2.7)

Double Click "upgrade.exe" :

| 📙 platforms | 2022/1/6 10:19 | 文件夹 | |
|---------------------|-----------------|--------|-----------|
| avcodec-55.dll | 2014/5/22 10:08 | 应用程序扩展 | 18,892 KB |
| avformat-55.dll | 2014/5/22 10:08 | 应用程序扩展 | 5,518 KB |
| 🗟 avutil-52.dll | 2014/5/22 10:08 | 应用程序扩展 | 410 KB |
| config.ini | 2022/2/24 18:02 | 配置设置 | 1 KB |
| 🗟 icudt52.dll | 2014/1/15 16:36 | 应用程序扩展 | 22,993 KB |
| 🗟 icuin52.dll | 2014/1/15 16:36 | 应用程序扩展 | 3,269 KB |
| 🗟 icuuc52.dll | 2014/1/15 16:36 | 应用程序扩展 | 1,946 KE |
| libgcc_s_dw2-1.dll | 2014/3/8 2:56 | 应用程序扩展 | 115 KE |
| 📓 libstdc++-6.dll | 2014/3/8 2:56 | 应用程序扩展 | 949 KE |
| libwinpthread-1.dll | 2014/3/8 2:56 | 应用程序扩展 | 48 KE |
| Qt5Core.dll | 2014/10/15 9:40 | 应用程序扩展 | 4,674 KE |
| 🗟 Qt5Gui.dll | 2014/9/11 21:40 | 应用程序扩展 | 4,490 KE |
| Qt5Network.dll | 2014/9/11 21:37 | 应用程序扩展 | 1,380 KE |
| Qt5Widgets.dll | 2014/9/11 21:49 | 应用程序扩展 | 5,746 KB |
| swresample-0.dll | 2014/5/22 10:08 | 应用程序扩展 | 272 KE |
| 🗟 swscale-2.dll | 2014/5/22 10:08 | 应用程序扩展 | 424 KE |
| 💿 upgrade.exe | 2018/4/18 17:32 | 应用程序 | 351 KB |
| upgrade support.exe | 2018/4/18 17:28 | 应用程序 | 351 KB |

*Choose the IP and Search:

| Searc | h | Upgrade | Config | Backup | Preview | V Search under ethe | rnet: |
|-------|------|-----------|--------|---------|------------|---------------------|-----------|
| Devi | es: | 2 | Interf | ace 以太 | 网:192.168 | .1.157 | Search |
| No + | IP . | Address | Net | Mask | GateWay | MAC Address | Uptime |
| 2 | 192 | .168.1.92 | 255 | 5.255.2 | 192.168.1. | D4:E0:8E:06: | . 00:23:4 |
| | | | | | | | |
| 4 | | | | | | | 1 |

*Choose one IP and switch to Config:

| Search | Upgrade | Config | Backup | Preview | ti l | |
|---------|------------|--------|---------|------------|-----------------|-----------|
| Devices | : 2 | Interf | ace 以太 | 网:192.168 | .1.157 | Search |
| No · IP | Address | Net | Mask | GateWay | MAC Address | Uptime |
| 2 192 | 2.168.1.92 | 25 | 5.255.2 | 192.168.1. | . D4:E0:8E:06:. | . 00:23:4 |
| 1 197 | 2.168.1.82 | 255 | 5.255.2 | 192.168.1. | . D4:E0:8E:18:. | . 00:23:4 |
| | | | | | | |
| 4 | | | | | | Þ |

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*Modify Config:

Choose one IP , switch to config and modify the IP $_{\sim}$ NetMask $_{\sim}$ GateWay $_{\sim}$ DNS according to LAN information searched by the PC: ipconfig.

Reset->Modify->Set->Confirm save success:

| Search | Upgrade | Config | Backup | Preview | | |
|--------|---------|------------|----------------|-------------|------------------|----------|
| | | | | | | |
| | | | | | | |
| | Mo | | ual | * | | |
| | | Addr: 192 | | | o 、NetMask、Gat | aWay DMS |
| | | tMask 255 | | .0 accordd | ing to LAN infor | mation. |
| | | teWay 192 | | | | |
| | | rst DI 8.8 | 127 200 VZ 201 | | 27 | |
| | MA | C Addi 04 | EOBE | 06 : CA : B | F | |
| | | Se | t F | Reset | | |
| | | | | | | |
| | | 1 | | 1. Res | et | |
| | | 3 | .Set | | | |
| | | | | | | |



*Confirm Setting Success:

| Search | Upgrade | Config | Backup | Prev | iew | | |
|--------|-----------------------|-------------------------|--------------------|--------------|------|------|--|
| | Moo | de Mar Addre 🚺 | nual Informatio | • on × | | | |
| | Ga ¹ Fi | Mask ceWay rst DI | v* | uccess OK | A:BF | | |
| | | Se | et | Reset | | | |
| | | | | | | | |

Camera IP Setting of the Station:

Image: state state

Station IP fetch by DHCP. Check Station IP on Station by click the IQ logo:

*Station WEB Login: enter IP under chrome browser: Account: admin Password: 8888

Camera IP Setting:

Setting->Channel->Channel Parm:

Teacher Close-up: <u>rtsp://IP/1</u> Student Close-up: <u>rtsp://IP/1</u> Teacher Panorama:<u>rtsp://IP/2</u>



Student Panorama: rtsp://IP/2

Set IP->Save ->Reboot.

| ī Q | Director Live On d | emand Setting | | | - N0 | OT recording | C Reboot | adr |
|----------------------------|--------------------------------|---------------------------|-------------------------|--------------|---------------|--------------|----------|-----|
| | Channel Settings (RTSP support | ed) | | | | | | |
| Network | Channel parm Recording p | arm HDMI Output | Volume setting | Channel name | Disk settings | | | |
| Codec | | | - | | | | | _ |
| Channel OSD | Teacher Close-up | rtsp://192.168.1.82/1 | 1.Close-up: rtsp://IP/1 | 1259 | | | | |
| Opening & Ending | Student Close-up | rtsp://192.168.1.92/1 | | 1259 | | | | |
| External interface | Teacher Panorama | rtsp://192.168.1.82/2 | 2. Panorama: rtmp://1 | 1259 | | | | |
| Live streaming Tracking | Student Panorama | rtsp://192.168.1.92/2 | | 1259 | | | | |
| Serial port | Save | 3. Save after IP setting. | | | | | | |
| Server | | | | | | | | |
| Intelligent control | | | | | | | | |
| Scheduled Recording | | | | | | | | |
| Power Scheduler | | | | | | | | |
| Access Control | | | | | | | | |

Chapter 5 Auto-Tracking Setting:

1.Software : Tracking Config Tools V2.3.1)

2.Pre-steps:Set IP and Connect->Stop Tracking->Start Modify Tracking Settings.



| Teacher Student Board Director Upgrade | 1. Set IP and | Connect. |
|---|---|---|
| eaurer Stadent Board Director Opgrade | Feature 192.168.1.82 Connect ← Home → Zoom in Zoom out nput Num (0-3) Jum 0: Pant Ium 1: Pattforr Set Prese Sall Prese | Pano Lens Pos Calii 4 Auto WB ne Push W Navigate Key Action • PTZ mo Menu mu Featu • Menu Target Lost Action 4 • track current obi • Return pano |
| Region Settings O Board Left Righ | Pano 192.168.1.82 Connect | Track Settings T 4 Other Mode Follow Mode Binocular M Mixed Mode Param Backup Export Open Import |
| □ Shov ● Track ○ Shielc □ 1 2 3 4 5 6 7 8 | tart Trac top Trac | Feature I SOC 8.5.6 Pano Infc SOC 8.5.6 |

Teacher Camera auto-tracking setting:

Ticked :Show->setting the regions:



Green rectangle region is the Teacher tracking region.(must do)

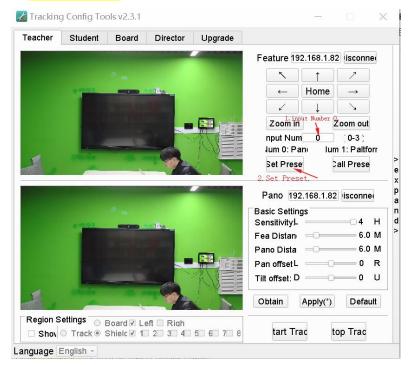
<u>Blue rectangle region</u> is the screen image block zone to avoid tracking the image over the TV.(optional)

<u>Red region</u> is totally tracking block region.(optional)

| eacher | Student | Board | Director | Upgrade | | | | |
|--------|---------|----------|----------|---------|--|---------------------|--|------------------|
| | | | | | Feature 192 | .168.1.8 | 2 isconne | eı |
| | | | | | N | 1 | 1 | |
| | 47099 | | 1040 | | ← | Home | \rightarrow | |
| | | | | | 4 | Ļ | | |
| | | | | | Zoom in | (| Zoom out | |
| | | | | 水體 | nput Num | | (0-3) | |
| | - | | | | Jum 0: Pan | n lu | m 1: Paltfo | orr |
| 1 | | | | | 2 2 2 3 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 | | and the second sec | |
| | - | <u> </u> | - 76 | K/N | Set Prese | | Call Prese | |
| | | | | | Pano 192. Basic Setting: SensitivityL Fea Distan Pano Dista Pan offsetL Tilt offset: D | 168.1.8; s =0 | 2 isconne 4 6.0 6.0 0 | H M R U |

_anguage English -

***** Panorama Setting:



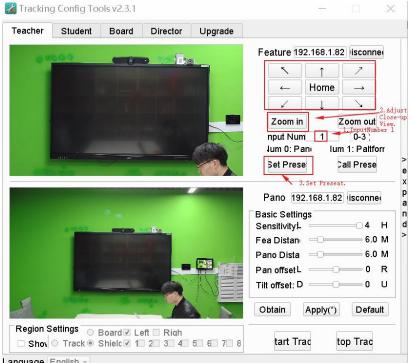
Set Input number 0 for Panorama view of Teacher Camera.

0

★ Close-up Setting:

Set input number 1 for close-up view of Teacher Camera.

Use Zoom in &Zoom out and up&down&left&right&Home for Close-up presetting.

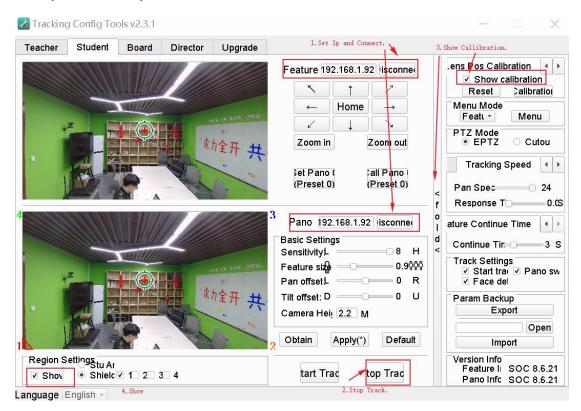


Language English -



Student Camera auto-tracking setting:

1.Set Ip Connect->Stop Track->Show Callibration->Show



2. Set the Student Area and Shield area:

Four Squares area is the Student area.(must do)

| 🔏 Tracking | g Config Too | ols v2.3.1 | | | | - 🗆 X |
|--------------------|-----------------------------|------------|----------|------------------------------------|------------------------------------|--|
| Teacher | Student | Board | Director | Upgrade | | |
| | | | | | Feature 192.168.1.92 (isconne) | ens Pos Calibration ↓ ↓ ✓ Show calibration Reset Calibration |
| | | | | 194: DA 16922 . 31926 . | $\leftarrow Home \rightarrow$ | Menu Mode Feat Menu |
| 1 | | | | [№] [↑] 全开 共 | Zoom in Zoom out | PTZ Mode |
| | | | | | Set Pano (Sall Pano) | Tracking Speed |
| | | | - 6- | 1 | (Preset 0) (Preset 0) | Pan Spec 24 f Response T 0.03 |
| | THII! | | | | 3 Pano 192.168.1.92 isconne | o ature Continue Time |
| | | ALLER | | | Basic Settings SensitivityL 8 H | Continue Tir=3 s |
| | 2 | | | NA 102 . 34250 - | Feature siz을 | Track Settings ✓ Start trac ✓ Pano sw ✓ Face del |
| | | | e k | 加全开 共 | Tilt offset: D0 U | Param Backup |
| | | | The | - | Camera Heiį 2.2 M | Export |
| 1 | The second | 500 | Y.L | . 50 | | Open |
| | | | - P | | 2 Obtain Apply(*) Default | Import |
| Region S I Shov | ettings Stu Ar Shield | ✓ 1 2 3 | 4 | | tart Trac top Trac | Version Info Feature I SOC 8.6.21 Pano Infc SOC 8.6.21 |





Shield areas is for blocking student not track area.(optional)

Language English -

Pay attention to the Height of the Student Camera, normally shall be higher than 2.2 meters.

While both Camera could adjust the Sensitivity.

Sensitivity Adjustment:

Senior school for lower sensitivity. Junior school for higher sensitivity. Depends on the height of the students. Default value is recommend.

LOGIN WEB & Camera IP configuration details:

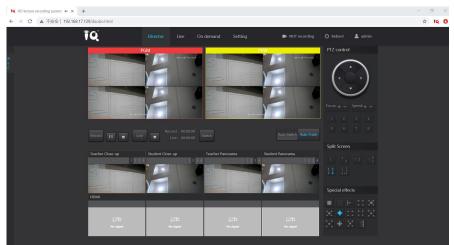
Access the video station's default IP address through a computer browser (Google browser is recommended).



Enter username: admin password: 8888



Pic: Access video station IP address



Pic: Home page after login

Enter the settings page to modify the network address of the Video Station to: 192.168.XXX.XXX (depending on the local area network), re-enter the modified IP address on the web page, and enter the settings page to add the camera network address:

rtsp://192.168.XX.82/1 (Teacher Close-up) rtsp://192.168.XX.92/1 (Student Close-up)

rtsp://192.168.XX.82/2 (Teacher Panorama)

rtsp://192.168.XX.92/2(Student Panorama)

Set IP->Save ->Reboot.

The camera IP address setting ensures that the network segment is consistent with the video station. Restart the video station after saving the parameters.

| ĪQ | | | | | | ■ NO | 🖒 Reboot | 🛛 💄 admin |
|-------------------|--------------|-------------------------|---------------|--------------------|--------------|---------------|----------|-----------|
| | | | | | | | | |
| | Channel parm | Recording parm | HDMI Output | Volume setting | Channel name | Disk settings | | |
| | | | | | | | | |
| | Teac | her Close-up rtsp://19 | 2.168.1.82/1 |] | 1259 | | | |
| | | | | 1. Change IP confi | | | | |
| Opening & Ending | Stuc | lent Close-up rtsp://19 | 2.168.1.92/1 | | 1259 | | | |
| | Teach | er Panorama rtsp://19 | 2.168.1.82/2 | | 1259 | | | |
| | Stude | nt Panorama (rtsp://19 | 12.168.1.92/2 | | 1259 | | | |
| | | Save 2. Save. | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| Device Management | | | | | | | | |

Pic: Connect the camera in the settings

Chapter 6 Video Station Operation Instructions

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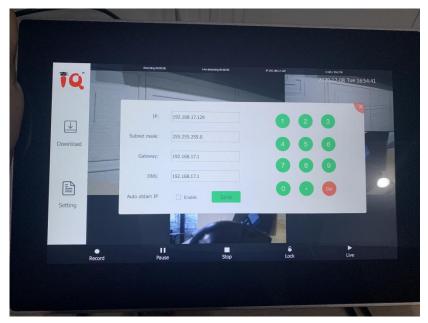
6.1 Local Recording



Pic: Video station power on state

The login interface will be displayed after power-on, and the system default login password 8888.

6.1.1 Network Settings



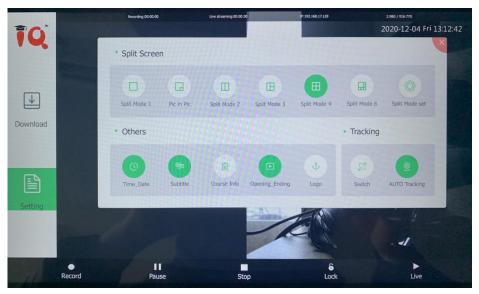
Pic: Network setting interface



Click the logo icon in the upper left corner to pop up the network settings page. Support manual input of IP information and automatic acquisition of router DHCP settings. Click "Save" to take effect.

6.1.2 Director Settings

Click "Setting" to enter the director settings



Pic: Director page

Split-screen: Before class, teachers can choose a suitable split-screen mode according to class needs .

| Split Screen | n | | | | | |
|--------------|------------|--------------|--------------|--------------|--------------|----------------|
| | | | | | | |
| Split Mode 1 | Pic in Pic | Split Mode 2 | Split Mode 3 | Split Mode 4 | Split Mode 6 | Split Mode set |

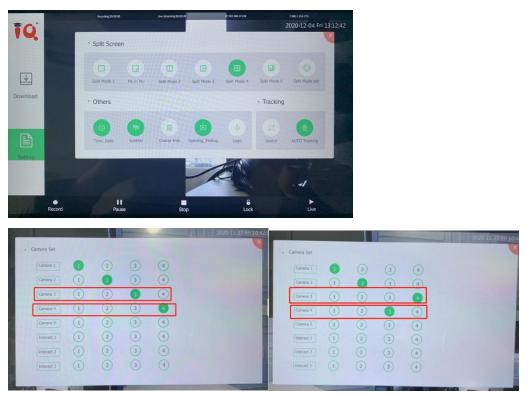
Pic: Split screen selection

1. Select the split screen mode you want

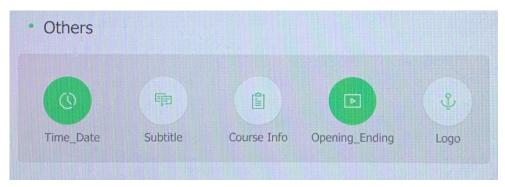
2. Enter "split screen settings", select the camera image to be displayed on each split screen

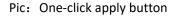
For example: in the case of four-split screen, there are four numbers 1/2/3/4 in the split-screen setting, corresponding to the four split-screen pictures. If you want to display camera 3 on screen 4, select 4 in this row.





Others: The application module mainly sets the information added in the video.





Including adding subtitles, time, course information, recorded opening and ending , logo, etc. to the video.

Tracking: Select "Switch"——the recording system will automatically switch the screen, at this time the manual split screen cannot be changed.

Select "Tracking"——the camera automatically tracks the movement of the teacher, it is recommended to keep the selected state.

6.1.3 Local Recording

Click "Record" to start recording video, click "Stop" to stop recording, click "Lock" to freeze the HDMI input source screen when there is HDMI video source input



6.1.4 Video Review and Export

Export: Insert a U disk, and export the video in "Download"

6.2 Remote Recording

6.2.1 Log in to the Remote Director System



Pic: Remote director login interface

Make sure that the computer and the video station are in the same LAN. Open the browser and enter the IP address of the video station in the browser.

(default IP: http://192.168.1.212, you can view the existing IP on the Video Station)

Enter the login interface of the Remote Director System, as shown in the figure above.

Enter the username: admin Password: 8888 (same as the password of the local director), and then Login to enter.

No exceeding regime * X * C * 2 C * RER: Image: Construction Image: Constructio <tbo

6.2.2 Remote Director Settings



Through the preview window, you can view the teacher panorama, teacher close-up, student panorama, student close-up, HDMI input screen.

Select the split-screen mode you want, and view the effect of split-screen in the "Preview Screen".

The position of each lens in the split screen can be modified by setting the number of each lens.

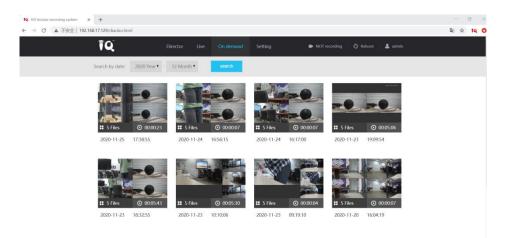
Click "Switch" to switch the preview screen to the PGM screen. At this time, the screen of the video station will change synchronously.

The actual recording screen is subject to the PGM screen.

The "smart switch" button is a toggle switch. When the button is turned off, the tracking will not be switched, and when the button is turned on, the camera will switch automatically.

The "Smart Tracking" button is a tracking switch. When this button is turned off, smart tracking is not performed. When this button is turned on, automatic lens tracking is performed.

6.2.3 Watch Videos and Downloads Remotely



Pic: Video on demand page

The recorded video is automatically maintained to the "On demand" page.

A single video automatically displays video screenshots, the number of simultaneous recording channels, time recording duration, and recording time information.

Search toolbar that supports searching videos by date.



6.3 Live streaming over Internet

| Native configuration | Live streaming parameters | | | | | | | | |
|----------------------|---------------------------|---|--|--|--|--|--|--|--|
| Network | Director channel | Multiple channels | | | | | | | |
| Codec | | | | | | | | | |
| Channel | Local live stream: rtn | np://192.168.17.129/live/pgm(For local mon | itoring) | | | | | | |
| OSD | Ena | ible 🗸 Cross-platform li | pking | | | | | | |
| Opening & Ending | | | iking | | | | | | |
| | main stream: rtm | p://a.rtmp.youtube.com/live2/rfv8-je7r-zjzj-s68 | (Streaming server address for the local or third party) | | | | | | |
| | 🗆 Ena | ble | party | | | | | | |
| Tracking | | | | | | | | | |
| Serial port | auxiliary stream: rtm | np://110.90.11.185:1935/live/av3 | (Streaming server address for the local or third party) | | | | | | |
| Server | TS | | F= 52 | | | | | | |
| | 15 | | | | | | | | |
| Scheduled Recording | □ Ena | able | | | | | | | |
| Power Scheduler | | ble | | | | | | | |
| Access Control | UDP address: udp | p://@239.0.0.1:9000 | (TS stream address udp://@239.x.x.x:xxxx) | | | | | | |
| | DTCD | | | | | | | | |
| Role management | RTSP | | | | | | | | |
| User Management | | | | | | | | | |
| Change Password | 🗆 Ena | ble | | | | | | | |
| | rtsp Address: rtsp | D://*** | | | | | | | |
| Online upgrade | | | | | | | | | |
| Device Management | | | | | | | | | |
| | Save | | | | | | | | |

Pic: Streaming address setting

In the Remote Director System -> External interface -> Live streaming -> RTMP fills in the third-party live broadcast address and saves it.

Click "Live" on the main interface of the video station, or click "Live" on the Remote Director System to start streaming to the live broadcast platform. In this time enter the Remote Director System -> Live, when you can view the live preview on the live page, it means the streaming is successful.

Chapter 7 Recording System Parameter Settings

7.1 Video Station Configuration

Network

Display the network card information and IP information of the current video station, support manual setting of the video station address; support automatic acquisition of the IP address.



| | Network parameters | |
|---------------------|----------------------|---------------------------------|
| | Internet Information | |
| Codec | | |
| Channel | Ipv4 Address: | 192.168.17.129 |
| | Subnet mask: | 255.255.255.0 |
| Opening & Ending | Subject music | 1001200120010 |
| | Default gateway: | 192.168.17.1 |
| Live streaming | DNS: | 192.168.17.1 |
| Tracking | | |
| Serial port | | Obtain an IP address automatica |
| | Save | |
| | | |
| Scheduled Recording | | |
| Power Scheduler | | |
| | | |
| | | |
| Role management | | |
| User Management | | |
| Change Password | | |
| | | |
| Online upgrade | | |
| Device Management | | |

Pic: Network settings page

• Codec

Local Stream Parameters

Mainly used to set the code rate of the recorded video, and generally do not modify it;

| Native configuration | Codec Parameters | | | | | | | |
|----------------------|-------------------|--------------|-----------|--------------|--------|-------------|--|--|
| Network | Local stream parm | Main strea | am parm | AUX stream p | barm | Audio Codec | | |
| | | | | | | | | |
| Channel | | Resolution: | [16:9]108 | 30P | \sim | | | |
| | | | | | | | | |
| Opening & Ending | Vie | deo Codec: | H.264 | | \sim | | | |
| | | Bit rate: | 4096 | | | Kbps | | |
| Live streaming | D | ate control: | CBR | | ~ | | | |
| Tracking | | ne control. | | | | | | |
| Serial port | I Fran | ne Interval: | 1 | | | second | | |
| | | rame rate: | 25 | | ✓ fps | | | |
| | | | | | | | | |
| Scheduled Recording | 5 | Save | | | | | | |
| Power Scheduler | | | | | | | | |
| Access Control | | | | | | | | |
| | | | | | | | | |
| Role management | | | | | | | | |
| User Management | | | | | | | | |
| Change Password | | | | | | | | |
| | | | | | | | | |
| Online upgrade | | | | | | | | |
| Device Management | | | | | | | | |

Pic: Local live broadcast and recording parameter settings

Local Remote Live Broadcast Parameters

If you use public network live broadcast, you can freely adjust the code rate according to the school's bandwidth, and generally do not modify it;



| | Codec Parameters | | | | | |
|---------------------|-------------------|--------------|-----------|---------------|-------|-------------|
| Network | Local stream parm | Main strea | im parm | AUX stream pa | rm | Audio Codec |
| | | | | | | |
| Channel | | Resolution: | [16:9]108 | 10P | ~ | |
| | | | | | - | |
| Opening & Ending | Vie | deo Codec: | H.264 | | ~ | |
| | | Bit rate: | 2048 | | | Kbps |
| Live streaming | D | ate control: | CBR | | ~] | |
| Tracking | Re | ate control: | CDR | | ~ | |
| Serial port | I Fran | ne Interval: | 1 | | | second |
| | | rame rate: | 30 | | ✓ fps | |
| | | Tame fate. | | | _ ipa | |
| Scheduled Recording | 5 | save | | | | |
| Power Scheduler | | | | | | |
| Access Control | | | | | | |
| | | | | | | |
| Role management | | | | | | |
| User Management | | | | | | |
| Change Password | | | | | | |
| | | | | | | |
| Online upgrade | | | | | | |
| Device Management | | | | | | |

Pic: Remote live broadcast main stream parameter setting

| Native configuration | Codec Parameters | | | | |
|----------------------|------------------------------|-----------|-----------------|-------------|--|
| Network | Local stream parm Main strea | im parm | AUX stream parm | Audio Codec | |
| | | | | | |
| Channel | Resolution: | [16:9]720 |)P v | | |
| | Video Codec: | H.264 | ~ | | |
| Opening & Ending | video codec: | H.204 | | | |
| | Bit rate: | 1024 | | Kbps | |
| Live streaming | Rate control: | CBR | ~ | | |
| Tracking | Tate control. | 1.000.0 | | | |
| Serial port | I Frame Interval: | 1 | | second | |
| | Frame rate: | 25 | ✓ fps | | |
| | | | | | |
| Scheduled Recording | Save | | | | |
| Power Scheduler | | | | | |
| Access Control | | | | | |
| | | | | | |
| Role management | | | | | |
| User Management | | | | | |
| Change Password | | | | | |
| | | | | | |
| Online upgrade | | | | | |
| Device Management | | | | | |
| | l | | | | |

Pic: Remote live broadcast AUX stream parameter setting

Audio Codec Parameters

Display the current audio acquisition format;



| Native configuration | Codec Parameters | | | | |
|----------------------|-------------------|------------------|--------------------|-------------|--|
| Network | Local stream parm | Main stream pa | rm AUX stream parm | Audio Codec | |
| Codec | | | | | |
| Channel | | Baud rate: 128 | × K | lbps | |
| OSD | | | | | |
| Opening & Ending | Sam | npling Rate: 441 | 00 × F | 12 | |
| | Encod | ding format AA | C × | | |
| Live streaming | _ | | | | |
| Tracking | | Save | | | |
| Serial port | | | | | |
| Server | | | | | |
| | | | | | |
| Scheduled Recording | | | | | |
| Power Scheduler | | | | | |
| Access Control | | | | | |

Pic: Audio codec parameter settings

Channel

Channel parameters

The channel parameters are used to dock the video information of the camera, and each modification needs to be restarted to take effect;

| | Channel Settings (RTSP supported) | | | | | | | |
|----------------------------|-----------------------------------|------------------------------|------------------------------|-------------|----------------|--------------|---------------|--|
| Network | Channel parm | Recording pa | arm H | IDMI Output | Volume setting | Channel name | Disk settings | |
| Codec | | | | | | | | |
| Channel | Teac | rtsp://192. | 168.17.182/video | 2 | 1259 | | | |
| OSD | 100 | rtsp://192.168.17.183/video2 | | | | | | |
| Opening & Ending | Stud | | | | 1259 | | | |
| | Teacher Panorama | | rtsp://192.168.17.182/video1 | | | 1259 | | |
| Live streaming Tracking | Student Panorama | | rtsp://192.168.17.183/video1 | | 1259 | | | |
| Serial port | | Save | | | | | | |
| Server | | | | | | | | |
| Intelligent control | | | | | | | | |

Pic: Channel parameter setting

Recording Parameters

Channel selection—set multi-channel recording, the default recording director channel, the director channel is not selectable, support up to 5 channels to record at the same time.

File format—choose to record files in FLV/MP4 format, and use MP4 format to record by default

Duration limit — in the case of long-term recording, the video will be automatically cut, which can be set to 1/2/3 hours

Pop-up settings—after clicking the record button, whether to pop up a confirmation dialog box

Countdown recording — after clicking the "Record" button, whether to prompt to start recording countdown, 0 means no timing, can be set to 3/5/8/10 seconds



| and the second | 0. 10.01 | 0700 | | | | | | |
|----------------------|--------------------|-----------------------|---------------|----------------------|----------------|-----|-------------|---------------|
| Native configuration | Channel Settings | | | | | | | |
| Network | Channel parm | Recording | oarm | HDMI Output | Volume setting | Cha | nnel name | Disk settings |
| Codec | | | | | | | | |
| Channel | Channel selection: | | | | | | | |
| OSD | | 172 | Direct | or channel | | | | |
| Opening & Ending | | | Direct | or channel | | | | |
| External interface | | ✓ | Teach | er Close-up | | | Student Clo | se-up |
| Live streaming | | | Teach HDMI | er Panorama | | | Student Par | norama |
| Tracking | | | HUIVII | | | | | |
| Serial port | File format: | | | | | | | |
| Server | File Ionnat. | | | | | | | |
| Intelligent control | | 0 | FLV | | ۲ | MP4 | | |
| Scheduled Recording | | | | | | | | |
| Power Scheduler | Duration limit: | | | | | | | |
| Access Control | | 2 hours | ~ | - | | | | |
| User Management | | 50) 50) | | - | | | | |
| Role management | Pop-up settings: | | | | | | | |
| User Management | | _ | D | | | | | |
| Change Password | | | Pop u | p recording informat | tion window | | | |
| System Management | Countdown record | ing: | | | | | | |
| Online upgrade | countdown record | ing. | | | | | | |
| Device Management | | Osecond | ~ | | | | | |
| | | Save | | | | | | |

Pic: Recording parameter settings

Output Settings

Mainly used to set the video content output by the HDMI output interface (corresponding to the recording host interface HDMI out 1). It supports three options: director, preview, and HDMI.

| Output Volume settir |
|----------------------|
| Jutput Volume settin |
| volume setti |
| |
| X |
| |
| |
| |
| |

Pic: HDMI output settings

Volume Settings

Adjust the input and output volume. If you need to use the interactive function, don't select the "Sound in the classroom" function;



| | Channel Settings | Channel Settings (RTSP supported) | | | | | | | | | |
|---------------------|------------------|-----------------------------------|--------------------|----------------|--------------|---------------|--|--|--|--|--|
| Network | Channel parm | Recording parm | HDMI Output | Volume setting | Channel name | Disk settings | | | | | |
| Codec | | | | | | | | | | | |
| Channel | h | nput volume: 60 | | | | | | | | | |
| OSD | | | | | | | | | | | |
| Opening & Ending | Ou | tput volume: 60 | | | | | | | | | |
| External interface | | 🗌 Sound | d in the classroom | | | | | | | | |
| Live streaming | | Save | | | | | | | | | |
| Tracking | | Save | | | | | | | | | |
| Serial port | | | | | | | | | | | |
| Server | | | | | | | | | | | |
| Intelligent control | | | | | | | | | | | |
| Scheduled Recording | | | | | | | | | | | |



Channel Name

The name of each channel can be named manually

| | Channel Settings | (RTSP supported) | | | | |
|---------------------|------------------|------------------|----------------|----------------|--------------|---------------|
| Network | Channel parm | Recording parm | n HDMI Output | Volume setting | Channel name | Disk settings |
| Codec | | | | | | |
| Channel | | 1: Te | acher Close-up | | | |
| OSD | | | | | | |
| Opening & Ending | | 2: St | udent Close-up | | | |
| | | 3: Те | acher Panorama | |] | |
| Live streaming | | 4: St | udent Panorama | | | |
| Tracking | | 4. 51 | | | | |
| Serial port | | 5: HI | IMC | | | |
| Server | - | Save | | | | |
| | | Save | | | | |
| Scheduled Recording | | | | | | |
| Power Scheduler | | | | | | |
| Access Control | | | | | | |
| | | | | | | |
| | • | | | | | |

Pic: Channel name settings

OSD Parameter

Used to edit the settings of subtitles, logo, time, and title information and select the display position, font size and color;

| Date | Subtitle | Title | Logo | |
|------|------------------|-------|--|---|
| | | | | |
| Tim | ne & Date Enable | ~ | Font Size: | Default ~ |
| | <u></u> | | | |
| Fc | ont Color: White | ~ | Position: | Upper right V |
| Sa | ve | | | |
| | Tim | | Time & Date Enable Font Color: White | Time & Date Enable Font Size: Font Color: White Position: |

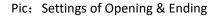
Pic: OSD Parameter settings

• Opening & Ending

Mainly used to upload the opening and ending and set the titles of them. It is recommended to upload pictures in 1920*1080p.jpg format;



| Native configuration | Opening & Ending Setting | |
|---|---------------------------------|-------------------------|
| Network | Title of Opening & Ending Uploa | ad Opening & Ending |
| Codec | | |
| Channel OSD | Title of the opening: | QNEX Recording System |
| Opening & Ending | Title of the ending: | QNEX Recording System |
| | | Enable Opening & Ending |
| Live streaming Tracking Serial port Server | Save | |
| | | |



7.2 External interface

• Tracking Parameters

| Native configuration | Tracking Parameters | | |
|----------------------|------------------------|--|--------|
| Network | Tracking address | | |
| Codec | | | |
| Channel | IP Address: | 192.168.17.212 | |
| | | 1100 | |
| Opening & Ending | Port: | 4400 | |
| | | Enable | |
| Live streaming | | | |
| | Desktop Detection | | |
| Serial port | | | |
| Server | SAD Threshhold: | 255 | |
| | Minimum trigger value: | 100 | |
| Scheduled Recording | | 10 | - 1 |
| Power Scheduler | Delay protection: | 10 | second |
| Access Control | Detection strategy: | Simultaneous detection HE \checkmark | |
| | Stop strategy: | Switch back to the previou V | |
| Role management | Stop strategy. | | |
| User Management | Interactive strategy: | automatic switching v | |
| Change Password | Desktop lock | no v | |
| | | | |
| Online upgrade | Save | | |
| Device Management | | | |
| | | | |

Pic: Tracking parameters settings

Computer Desktop Detection

SAD threshold: computer desktop detection sensitivity, the smaller the value, the more sensitive, the recommended value range is 600

Lowest trigger value: computer desktop detection sensitivity, the smaller the value, the more sensitive, the recommended value range is 300

Delay protection: the minimum hold time when the computer desktop has been switched to the desktop without operation

Detection strategy: whether to enable computer desktop detection, HDMI detection/no detection

Stop strategy: after the computer desktop exceeds the hold time, it automatically switches channels and switches back to the previous channel/switch to track the last triggered



channel/specified channel (customizable selection)

Interactive strategy: whether to automatically switch to multi-screen layout after interactive connection, no switch/auto switch

Computer desktop lock: whether the PGM screen has been kept on the computer desktop, yes/no

• Server

Mainly used to connect the video station with other platforms.

FTP service: upload the video to the settings on the FTP server, fill in the address IP that needs to be uploaded to the specified server.

| | Server parameters | | | | | |
|---------------------|-------------------|-------------------|----------------------|----------------------|--------------|---|
| Network | File Server | | | | | |
| Codec | | | | | | |
| Channel | FTP Server | | | | | |
| OSD | | | | | | |
| Opening & Ending | IP Addre | ss: 58.22.30.3 | 8 | Connection succeeded | | |
| | P | ort: 21 | | | | |
| Live streaming | | 1 | | | | |
| Tracking | Usernar | ne: test | | | | |
| Serial port | Passwo | rd: RS@test | | | | |
| | | | | | | |
| | O HTTP Server | | | | | |
| Scheduled Recording | http | url: http://192.1 | 68.10.110:8080/uploa | ad | | |
| Power Scheduler | | | | | | |
| Access Control | Upload rules | | | | | |
| | Manual uplo | ad 🔍 | Spare time to up | load O | 18:00 upload | 0 |
| Role management | Save | | | | | |
| User Management | Save | | | | | |
| Change Password | | | | | | |
| | | | | | | |
| Online upgrade | | | | | | |
| Device Management | | | | | | |

Pic: Server parameter settings

7.3 Intelligent Control

• Scheduled Recording

Scheduled recording function, support single recording time

| | Timed recording | | | |
|---------------------|-----------------|-----------|--------|-----------|
| Network | | | | |
| Codec | | | | |
| Channel | Start Time: | End Time: | | Add to |
| OSD | Starting time | End Time | Status | Operation |
| Opening & Ending | Starting time | Ling find | 510105 | operation |
| | | | | |
| live streaming | | | | |
| Tracking | | | | |
| Serial port | | | | |
| Server | | | | |
| | | | | |
| Scheduled Recording | | | | |
| Power Scheduler | | | | |
| Access Control | | | | |

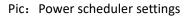
Pic: Scheduled recording settings



Power Scheduler

Schedule power on/off

| Native configuration | Power Scheduler |
|----------------------|--|
| Network | Scheduled Power On/Off |
| Codec | |
| Channel | Scheduled Power On: 19 V 00 V 00 V |
| OSD | |
| Opening & Ending | Scheduled Power Off: 19 V 20 V 00 V |
| External interface | (Tip: When all the above values are set to 0, this scheduler is disabled.) |
| Live streaming | |
| Tracking | Save |
| Serial port | |
| Server | |
| Intelligent control | |
| Scheduled Recording | |
| Power Scheduler | |



• Access Control

There is a limit that an account cannot have more than two logins at the same time to prevent data loss caused by human misoperation;

| Native configuration | Access Control |
|----------------------|--|
| Network | Access Control Setting |
| Codec | |
| Channel | Limited access when recording: Not limited |
| OSD | |
| Opening & Ending | Limited access when idle: Not limited |
| External interface | Save |
| Live streaming | |
| Tracking | |
| Serial port | |
| Server | |
| Intelligent control | |
| Scheduled Recording | |
| Power Scheduler | |
| Access Control | |
| User Management | |



7.4 User Management

• Role management

You can add administrator and user permissions to operate this system.



| Native configuration | Role management | | |
|--|--|---|---|
| Network Codec Channel OSD Opening & Ending External interface Live streaming Tracking | Role management Administrator Director Live On demand Micro Lesson Setting | 12 ✓ Director ✓ Live ✓ On demand Micro Lesson Setting Del | Enter Director Live On demand Micro Lesson Setting Add to |
| Serial port Server Intelligent control Scheduled Recording Power Scheduler Access Control | | | |
| User Management Role management User Management Change Password System Management | | | |

Pic: User permission settings

• User Management

Create a new login user, the default password is 8888. Based on the normal operation of the system, it supports up to 8 new users.

| | swords are unified as:8888 Please | | |
|------------------|-----------------------------------|---------------------|--------|
| og in and change | your password | | |
| | | | |
| | | | |
| ENTER YOUR US | SER NAME Administrator | ₩. | Add to |
| ENTER YOUR US | SER NAME Administrator | ▼ teacher | Add to |
| | | | |



• Change Password

Modify the password of the current login account

| Change Password | | |
|-------------------|-------|------------------------------------|
| Your user name: | admin | |
| Modify password: | | Please enter a four-digit password |
| Confirm password: | | |
| Save | | |
| | | |

Pic: Change password

7.5 System Management

• Online Upgrade

To upgrade the version of the system, select the file that needs to be updated and click the "Update" button. Please keep the power on when the system is upgraded.

After the upgrade is successful, the system will automatically restart.

| Online Upgrade | |
|----------------------|-------------------------|
| oftware upgrading | |
| | |
| System version: | D_SYS(EN)V3.0 |
| Software version: | D(MASS)(EN-S)_V3.0.13T1 |
| Please select a file | Upgrade 0% |
| | |
| | |
| | |

Pic: Software upgrading

• Equipment management

Device Naming

| Device Management | | | | | | | |
|-------------------|-------------------------------------|---------|---------------|-------------|-----------|--|--|
| Device Naming | Device Time | | Data Recovery | Screen Lock | Authorize | | |
| De | e Serial No.: vice Name: Save | d843a85 | | | | | |

Pic: Device naming

Mainly display the video station serial number (not writable)

Video station name (modifiable, used for classroom identification when docking with the platform)

Device Time



| Device Management | | | | | | | | |
|-------------------|---------------------------|-----------|---------------|-------------|-----------|--|--|--|
| Device Naming | Device Time | | Data Recovery | Screen Lock | Authorize | | | |
| | | | | | | | | |
| D | evice Time: | 2020-12- | 08 17:21:17 | | | | | |
| Com | puter <mark>tim</mark> e: | 2020-12- | 08 17:21:51 | | | | | |
| Sync | hronize compu | iter time | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Pic: Device time settings

If the current time of the device is inconsistent with the current network time, you can click the "Sync Network Time" button.

Data Recovery

Click the "Format hard disk" button to format the system hard disk, and all data will be cleared; click the "Reset" button to restore the setting fields to the default parameters (if necessary, please contact the debugging personnel, do not operate without authorization. Otherwise, you should bear the responsibility if data loss caused by your misoperation.)

| Device Management | | | | | | | | |
|---|-------------|---------------|-------------------|-----------|--|--|--|--|
| Device Naming | Device Time | Data Recovery | Screen Lock | Authorize | | | | |
| | | | | | | | | |
| Re | eset | Em | pty the hard disk | | | | | |
| Tip: Please operate this interface carefully to avoid data loss. | | | | | | | | |
| System language: 英语(english) Y | | | | | | | | |
| | Save | | | | | | | |

Pic: Data recovery page

Screen Lock

The lock screen management is used to define the cooling time when the touch screen is automatically locked. In the unlocked state, if the touch screen is not touched within the specified time, the screen is automatically locked.



| k | Authorize | |
|---|-----------|--|

| Device Naming | Device Time | | Data Recover | у | Screen Lock | 1 | Authorize | |
|---------------|----------------------|-----------|--------------|---|-------------|---|-----------|--|
| Automatic s | ocreen lock: Save | 5 minutes | | - | | | | |
| | | | | | | | | |

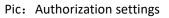
Pic: Set automatic screen lock time

Authorize

Device Management

The device can be authorized to operate. If the authorized time is exceeded, the video station will not be able to be used normally (if the device is found to indicate that the authorization information has expired, please contact the manufacturer's engineer)

| Device Management | | | | | | | | |
|-------------------|-----------------------------------|---------------|-------------|-----------|--|--|--|--|
| Device Naming | Device Time | Data Recovery | Screen Lock | Authorize | | | | |
| Authoriza | ation date: Perman ation code: | ent | | | | | | |



Chapter 8 Abnormal problems and solutions

1. The channel address is set correctly, but the director does not display the image;

a. After the channel address is set, do you restart the video station (the video station be restarted to take effect).

b. Whether the IP of the camera and the video station are in the same network segment (the network segment must be the same).

c. Whether the camera is normally powered on and the network is normally connected.

2. There is tracking effect, but it cannot be switched automatically;

a. Whether the smart switching and smart tracking are on at the same time.

b. whether the tracking correctly docks the tracking IP, it can be checked in Settings—Tracking.

c. Whether the correct video station address and switching instruction are set on the tracking software.

3. Set the correct IP address for interaction, but the interactive connection cannot be made:



a. Whether the networks of both parties are interoperable

b. After the IP address is set, the video stations of both parties must be restarted to take effect





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