

Basic Settings



Audio&Video Adjustments



Encoding & Stream



Audio Encoding Engine

Encoding and Stream Settings

SIP settings

Text&Image&Time Overlay

Network & Service Settings



Serial Port and PTZ



Quick Reset

Logs & Debug

Reboot

System Information

Serial No.: **170104957**Hardware Ver.: **1.6.20**Firmware Ver.: **2.5.0**Software Ver.: **3.85.0631**

HD/3G-SDI H.264 Encoder | SYSTEM STATUS

Refresh

SYSTEM

- Device start time: **2018/07/13 17:25:20**
- Persistent time: **6Minute(s)9Second(s)**
- System spaces: Available **43MB** [Used **62 %**]
- Data spaces: Available **70MB** [Used **5 %**]
- CPU payload: **34 %**
- Free memory: **625 MB**

VIDEO/AUDIO Signals

- Video signal lock: **NO SIGNAL**
- Video format: **UNKNOWN (Before loss)**
- Crop picture to encode: **No cropping**
- Rotate/Flip: **No rotation**
- [\[Click to set above processing parameters...\]](#)
- Audio sampling: **48000 Hz**



Video signal: SDI Input
Audio signal: SDI Input [Select...](#)

Motion JPEG Snapping



Video: Motion JPEG (Default)
Scaling size: Default (1280x720)
Instant bitrate: 3030 Kbps
Instant frame rate: 25 fps
Audio engine bundle: [Channel 1](#) [[Change...](#)]
Audio Codec: AAC / Stereo
Bitrate: 64000 bps
Actual sampling: 48000 Hz



SET

**RTSP**

(RTSP always start)

Access by: <rtsp://192.168.0.198:554/mjpeg01>**KMP Media Service**[Start](#)

(Manual disabled or no publish point, service stopped.)



H.264 Main Stream



Video: H.264 (Main Profile)
Scaling size: Customized (1280x720)
Instant bitrate: 14 Kbps
Instant frame rate: 25 fps
Audio engine bundle: [Channel 1](#) [[Change...](#)]
Audio Codec: AAC / Stereo
Bitrate: 64000 bps
Actual sampling: 48000 Hz



Record

[Start Record](#)

Stopped



RTSP

(RTSP always start)

Access by: <rtsp://192.168.0.198:554/ch01>



KMP Media Service

[Start](#)

(Manual disabled or no publish point, service stopped.)



[Add a stream...](#)

H.264 Sub Stream



Sub stream is disabled. Click "Multiple stream control" icon at right-top corner to enable/disable it.

GLOBAL NETWORK STATUS

- Network: **Internet**
- Connectivity: **Internet**

[Network Manager...](#)

Location & Time Setting



Current time of device: **2018-07-13 17:35:31**

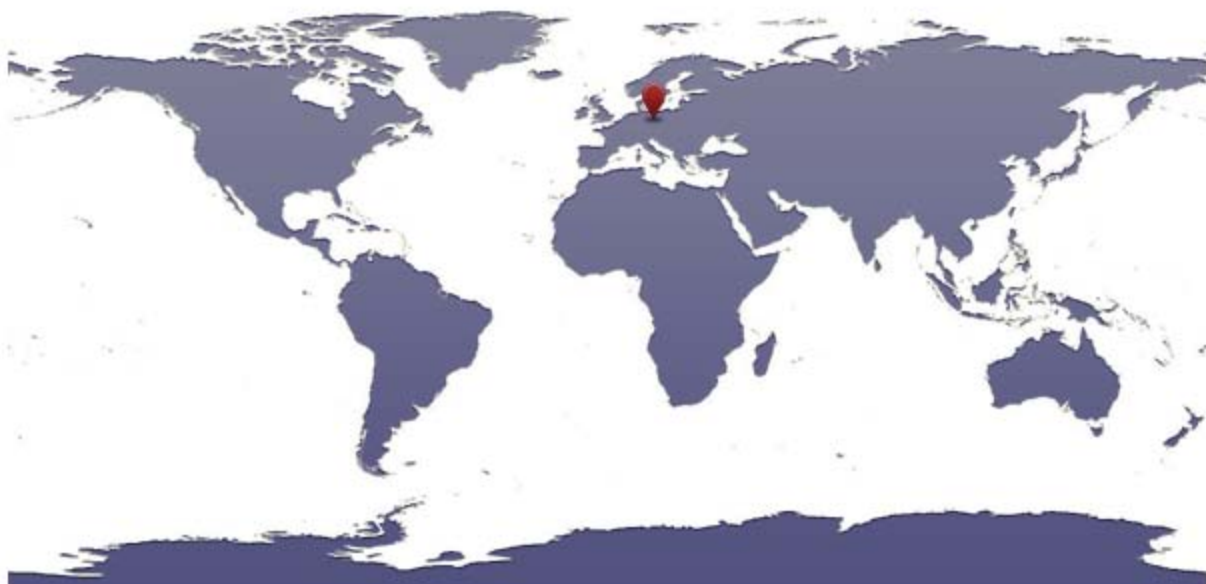
Universal Coordinated Time in Device: **2018-07-13 15:35:31**

Location/Time zone: **Europe/Berlin**

NTP Time Synchronization Enable: **no**

NTP Synchronization Status: **no**

Select Your Location



Location/Time zone: Europe/Berlin ▼

Detect Location

Country/Area: Germany ▼

Change My Location

Date & Time Setting

Set: Synchronize From This PC ▼

Current PC Time: 2018-07-13 17:44:20

SET

Basic Settings +

Audio&Video Adjustments -

Video Source and Adjustment

Video Preprocessing
(Cropping/Scaling/Rotation..)

Audio Source and Adjustment

Encoding & Stream +

Text&Image&Time Overlay

Network & Service Settings +

Serial Port and PTZ +

Quick Reset

Logs & Debug

Reboot

System Information

Serial No.: **170104957**
Hardware Ver.: **1.6.20**
Firmware Ver.: **2.5.0**
Software Ver.: **3.85.0631**

Video Source Selection and Adjustment

About Video Source Selection and Adjustment

You can select the video source here if this product with multiple video sources. Simultaneously, you can adjust the brightness, contrast, saturation and hue for video.

- **'Auto Selection'** means the device will check each video sources and auto select one which with signal.
- **'Auto Selection (one-shot)'** same as 'Auto Selection' but once it selected a source, it 'lock' this and never change unless you 'Quick Reset' or 'Reboot' the device!
- The value range of **Brightness, Contrast, Saturation** and **Hue** is 0~255, default is 128.

Video Source: Auto Selection ▼

Brightness: 128 ▲▼

Contrast: 128 ▲▼

Saturation: 128 ▲▼

Hue: 128 ▲▼

Set

Reset the color parameters

Basic Settings +

Audio&Video Adjustments -

Video Source and Adjustment

Video Preprocessing
(Cropping/Scaling/Rotation..)

Audio Source and Adjustment

Encoding & Stream +

Text&Image&Time Overlay

Network & Service Settings +

Serial Port and PTZ +

Quick Reset

Logs & Debug

Reboot

System Information

Serial No.: **170104957**
Hardware Ver.: **1.6.20**
Firmware Ver.: **2.5.0**
Software Ver.: **3.85.0631**

Video Cropping/Scaling/Rotation/Flipping

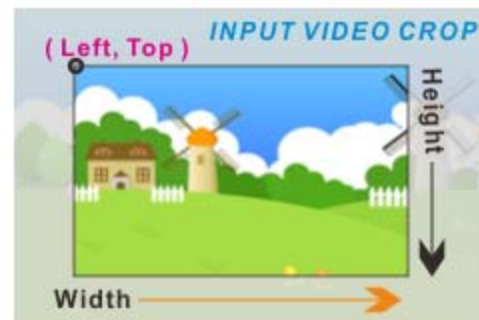
About The Video Preprocessing Before Encoding

Before video captured and sent to encoder, we could make some necessary preprocessing:

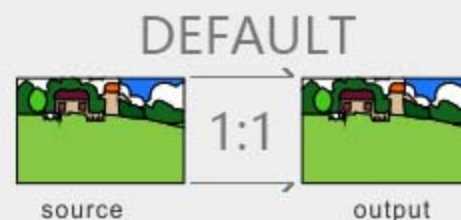
- (1) Source picture cropping:** Crop a part of the original picture for encoding.
- (2) Scaling:** After step 1 cropping (or not cropping), video can be scaled up/down to certain format. (E.g. Input video is 1080p60, scaling down to 720p30 for encoding.)
- (3) Second cropping:** After the step 2, you can continue cropping the size you want for encoding. (It's almost the same with step 1, but necessary in specific application.)
- (4) Rotation or flipping:** It's the last step before encoding, you can rotate the video with 90/180/270 degrees, horizontal mirror or vertical flip.

Above process is a pipeline from step 1 to step 4. You could choose to open, or prohibit it about each step.

This device does not support source cropping function. Only the "Advanced"/"Professional" version could support it.



This device does not support scaling function. Only the "Advanced"/"Professional" version could support it.



This device does not support scaling function. Only the "Advanced"/"Professional" version could support it.



Cropping The Scaled Picture:



Rotation/Flipping:



Default



90 Deg.



180 Deg.



270 Deg.



Mirror



Flip

Set

Return

Basic Settings +

Audio&Video Adjustments -

Video Source and Adjustment

Video Preprocessing
(Cropping/Scaling/Rotation..)

Audio Source and Adjustment

Encoding & Stream +

Text&Image&Time Overlay

Network & Service Settings +

Serial Port and PTZ +

Quick Reset

Logs & Debug

Reboot

System Information

Serial No.: **170104957**
Hardware Ver.: **1.6.20**
Firmware Ver.: **2.5.0**
Software Ver.: **3.85.0631**

Audio Source Selection and Adjustment

About Audio Source Selection and Adjustment

You can select the audio source port here. And you can adjust the analog audio gain here too.

- Audio source '**Auto Selection**' means the audio source port is auto selected decided by which video source current is. If the video source is 'HDMI' or 'SDI' which has embedded audio, the audio source is embedded digital audio; otherwise, the audio source is Line in.
- '**Audio Gain**' is set by 'db'. 0db is the original audio gain, +/- 3db means increment/decrement 50% gain and +/- 6db means increment/decrement 100% gain.

Audio Source: Auto Selection ▼

Line In Gain: 0 db (Default) ▼

SET

Reset

Basic Settings



Audio&Video Adjustments



Encoding & Stream



Audio Encoding Engine

Encoding and Stream Settings

SIP settings

Text&Image&Time Overlay

Network & Service Settings



Serial Port and PTZ



Quick Reset

Logs & Debug

Reboot

System Information

Serial No.: **170104957**Hardware Ver.: **1.6.20**Firmware Ver.: **2.5.0**Software Ver.: **3.85.0631**

Audio Encoding Engine



NOTE: Please do **"Quick Reset"** to take affect if you changed the 'Resample policy' or 'Sampling' parameter.

Audio Encoding Channel 1

Enable:

The audio encoding channel 1 can't close. Please don't ask me why :-P

Resample policy:

If the 'Sampling' not be 48KHz, audio 'resample' is required. This parameter decides the resampling quality and CPU consumption. It may consume more CPU if you select 'High quality' option.

Encoding: Sampling: Channels: Bitrate:

SET

H.264 Main Stream



Video: H.264 (Main Profile)
Scaling size: Customized (1280x720)
Instant bitrate: 14 Kbps
Instant frame rate: 25 fps
Audio engine bundle: [Channel 1](#) [[Change...](#)]
Audio Codec: AAC / Stereo
Bitrate: 64000 bps
Actual sampling: 48000 Hz



Record

Stopped

[Start Record](#)



RTSP

(RTSP always start)

Access by: <rtsp://192.168.0.198:554/ch01>



KMP Media Service

[Start](#)

(Manual disabled or no publish point, service stopped.)



[Add a stream...](#)

H.264 Sub Stream



Sub stream is disabled. Click "Multiple stream control" icon at right-top corner to enable/disable it.

Basic Settings



Audio&Video Adjustments



Encoding & Stream



Audio Encoding Engine

Encoding and Stream Settings

SIP settings

Text&Image&Time Overlay

Network & Service Settings



Serial Port and PTZ



Quick Reset

Logs & Debug

Reboot

System Information

Serial No.: **170104957**Hardware Ver.: **1.6.20**Firmware Ver.: **2.5.0**Software Ver.: **3.85.0631**

Main Stream Encoder parameters

Scaling: 1280x720(16:9) ▼

Color: With color ▼

H.264 profile: Main profile ▼

Bitrate control: VBR - Variant bitrate ▼

Bitrate: 4M ▼ bps

Framerate: HALF (Half when source framerate >=50) ▼

GOP Size: Customized GOP size ▼

Customized GOP size: 25 ▲▼

Reference frames: One ▼

(Using multiple reference frames should better encoding quality but this may be not compatible to some decoders)

SAVE

Return

Basic Settings



Audio&Video Adjustments



Encoding & Stream



Audio Encoding Engine

Encoding and Stream Settings

SIP settings

Text&Image&Time Overlay

Network & Service Settings



Serial Port and PTZ



Quick Reset

Logs & Debug

Reboot

System Information

Serial No.: **170104957**Hardware Ver.: **1.6.20**Firmware Ver.: **2.5.0**Software Ver.: **3.85.0631**

SIP Endpoint Settings

About SIP Endpoint



This device can run as a SIP endpoint (RFC3261) to support VoIP functionality. After it registered to a server, it can call others / called by others to transmit video and audio.

You can set the SIP account, proxy server/port, registry user/password, ... etc in this page. To set the SIP call parameters, you can add a 'SIP' streaming service at the [Encoding and Stream Settings](#) page, then configure it.

SIP Endpoint:

Disable



Save

Basic Settings



Audio&Video Adjustments



Encoding & Stream



Audio Encoding Engine

Encoding and Stream Settings

SIP settings

Text&Image&Time Overlay

Network & Service Settings



Serial Port and PTZ



Quick Reset

Logs & Debug

Reboot

System Information



Serial No.: 170104957

Hardware Ver.: 1.6.20

Firmware Ver.: 2.5.0

Software Ver.: 3.85.0631

Text and Time Overlay

Refresh



NOTE: If you require more fonts/languages support, please contact our technical support. We can customize more fonts/languages, by upgrading a language patch firmware.

Main Stream Overlay

Enable overlay for this stream: Close ▾

Don't rotate follow picture: Yes ▾

SET



Image

At: Left top

Default

[Add overlay item...](#)

Sub Stream Overlay

Sub stream is closed currently

Basic Settings



Audio&Video Adjustments



Encoding & Stream



Text&Image&Time Overlay

Network & Service Settings



Network Manager

Easy Management Services

Web Service

Onvif Service

Serial Port and PTZ



Quick Reset

Logs & Debug

Reboot

Refresh

Ethernet

**Default
Ethernet****Active****MAC:** 0A:81:70:10:49:57**IP:** 192.168.0.198 / 24 , **Gateway:** 192.168.0.1[Configure](#)

WIFI

(No valid WIFI devices)

Wireless WAN

(No valid wireless WAN devices)[No your devices? Click here](#)

System Information

**Serial No.:** 170104957**Hardware Ver.:** 1.6.20**Firmware Ver.:** 2.5.0**Software Ver.:** 3.85.0631

About Easy Management



The 'Easy Management' service provide a easy way for users to manage/use this device. Two important functions is served: 1st, 'Local Link' on ethernet; 2nd, connect your Android or iOS phone/pad to this device.

'Local Link' function give a way to set a special static IP address on Ethernet port. Thus, even you forget the IP or unknow the dynamic IP, you can also access this device by that 'special static IP'.

This device enable you connect Android or iOS phone/pad to it, that you can manage it and watch live video by an App, and share your phone's 4G network.

Local Link

Enable Local Link:

Special IP Address:

Netmask:

Android Device Connection



Connect your Android phone/pad to any USB port of this device, next setup your Android device: Enter 'Settings', enable 'Tethering & portable hotspot' - 'USB tethering'.

When you **connect Android device first time**, please goto "[Network Manager](#)" to configure the new network interface (general it is 'Default USB External'), set the address resolve to 'DHCP Dynamic' and save set. Once this done, you need not set it again.

Please contact your device provider to get the App.

Apple iOS Device Connection



Connect your iOS phone/pad to any USB port of this device, next setup your iOS device: Enter 'Settings' and enable the 'Personal hotspot'

When you **connect iOS device first time**, please goto "[Network Manager](#)" to configure the new network interface (general it is 'Ethernet 2'), set the address resolve to 'DHCP Dynamic' and save set. Once this done, you need not set it again.

Web Service Configuration

Change the web service port



The default web service port is 80, but you can change it (range: 1-65535).

NOTE: To take effect, you must reboot the device!

Web Service Port:

80



Save

Restore Default

Onvif Service Configuration

About Onvif Service



Onvif (Open Network Video Interface Forum) is an IP-based security standard. Start the Onvif service to let a security-system which based Onvif can discovery/manage this device, and get the video streams.



You can find informations about Onvif at <http://www.onvif.org/>. Since Onvif is a 'Web Service' based protocol, it must open another Web service port (*DIFFERENT* from current web console) to start. You can even write your program to control this device by Onvif web service API.

Onvif Service Enable:

Onvif Service Port:

(NOTE: Don't let it be same as current web service port)

Device Discoverable:

Location info. in Scopes:

Device name in Scopes:

(Leave it empty to use the default device name)

Authorization:

Password of 'admin':

(Only change password for user 'admin'. You can manage other users by Onvif tool.)

Save

Serial Ports and PTZ(Pan/Tilt/Zoom) Setting

Serial port and PTZ

This box supports USB to RS232/RS422/RS485 converter(cable). You can use the converter to extend a serial port. The general USB to serial devices or FTDI chipset/PL2303 chipset devices are supported.



Configure the PTZ protocol and address correctly, so can make Onvif service to support PTZ control.

If your USB to serial converter(cable) is not supported by this box, please contact our technical support engineers.

USB to RS232/RS485/RS422 Serial Port

Device: [Refresh serial ports](#)

Save

PTZ(Pan/Tilt/Zoom) Setting

PTZ Protocol:

Save

PTZ Control Panel



ZOOM+

ZOOM-

PRESETS:



FOCUS+

FOCUS-

1



IRIS+

IRIS-

GOTO

SAVE

DELETE

HOME

Logs



Codec



Streaming



Web



Buttons/Leds/Display



Kernel



History Logs



Pack Current Logs



Clear Logs



Refresh

Add a stream service



Stream service:

RTMP Pushing ▼

RTMP Pushing

HLS Service

TS-UDP Pushing

Sproxy Pushing

SIP

OK