Quick Start Guide

SDI&HDMI
4K UHD Video Decoder/Media Gateway

Packing List
Video decoder/Media Gateway*1; Power Adapter*1; Operation Manual*1; Warranty Card*1

Note:
There will be some differences due to the updating of the device.

Device Interfaces
- USB Extend
- SDI Status Light
- SDI Output
- Reset
- Audio Output
- Working Status Light
- Power Interface
- HDMI Output
- 100/1000M Ethernet 1
- 100/1000M Ethernet 2
- HDMI Light

Device Installation
Connect to SDI Monitor
Connect the video decoder with SDI monitor via SDI cable

Connect to HDMI Monitor
Connect the video decoder with SDI monitor via the HDMI cable

Connect Network
Connect the video decoder with network switch, you can also connect the video decoder directly with your computer via a network cable.

LED Indicators

<table>
<thead>
<tr>
<th>Name</th>
<th>Color</th>
<th>Status</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>Power</td>
<td>Always on</td>
<td>Power connected</td>
</tr>
<tr>
<td>OFF</td>
<td></td>
<td></td>
<td>Power off</td>
</tr>
<tr>
<td>GREEN</td>
<td>Power</td>
<td>Always on</td>
<td>Normal signal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OFF</td>
<td>Signal jumped or restore factory settings indication abnormal signal</td>
</tr>
<tr>
<td>GREEN</td>
<td></td>
<td>Always on</td>
<td>Network connected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OFF</td>
<td>Network not connected</td>
</tr>
</tbody>
</table>

Login and network configuration

Default IP Address
There are two Ethernet ports, usually you can only configure network 1, which can be used for device management and pull streaming.
Two network ports can be used as local and public network separately.
Network 1. Failsafe IP is 192.168.1.168, the subnet mask is 255.255.255.0
Network 2. Failsafe IP is 192.168.2.168, the subnet mask is 255.255.255.0

Login the Web console
If the connect to the network 1, you can access http://192.168.1.168 to login the Web console.
In the default Username: admin, Password: admin.

IP address configuration
After login, you can configure the IP according to the network, the IP will be used for pulling stream and device management. You can configure it to manually set the IP or DHCP.
**Video display and output configuration**

**HDMI output settings**
Users can select resolution, frame rate, color space, audio sample rate and audio channel on the "Media" page of the web interface.

**SDI output settings**
All resolutions marked with SDI only are valid on the SDI output interface only. On the HDMI interface, the output resolution will be close to that resolution.

If output to multiple interfaces and some interface cannot support the specified resolution, such as 4K resolution cannot be supported on SDI, the system will select a resolution that can be supported by multiple interfaces.

**Decoding buffer and delay**
For a variety of different application scenarios and networks, to balance delay and fluency of the decoding, the device provides a variety of buffering strategies for users to choose.

Zero buffer: 50ms, 120ms, 200ms, 500ms, 1s are optional. Users can choose an actual network conditions, good network with lower latency, and bad network with higher latency.

**Decoding mode selection**
Support HDMI (up to 3840x2160@60Hz) and SDI (up to 1920x1080@60Hz) with the same screen or split screen output. Users can select multi-screen output with options of 1/2/3/4/6/9 split screen output.

**Add video source**
Supported video source selection: AVI, FLV, H264, HEVC, RTSP, HTTP, HTTPS, RTMP, UDP, IP, and other video sources can be converted to the same or different protocol streams through stream service functions. Output stream protocols only support RTSP/RTMP/SRT.

**Streaming service (only Media Gateway support)**
It supports multi-protocol conversion of input video streams and dynamic switching of media sources. For example, input video streams RTSP, RTMP, UDP, and other protocols can be converted to the same or different protocol streams through stream service functions. Output stream protocols only support RTSP/RTMP/SRT.

**Add Publishing Points**
Add Publishing Point *Name* and enter the name to confirm the addition of a Streaming Service Publishing Point. Generally, four streaming services can be added to a publishing point.

**Source selection**
Click on the source selection field. According to the screen requirements that need to be output, you can click to select the video source you want to output.

**Streaming services**
Click "Streaming services Add Stream Services" to select the type of service you need to add. Support RTSP and RTMP.

**Restore Factory Setting**
If users perform parameters that lead to decoder cannot work (the typical situation is changed network address, so it can't be visited decoder by network), users can restore factory settings to default value.

**Quick Reset and Reboot**
* "Quick Reset", "Quick Reset" is only restoring configured decoding parameters, not changing default IP or other parameters.
* "Reboot" is used for clearing the warm重启. When "quick reset" couldn't solve problems, please try "Reboot". The whole process will last around one minute.

**Firmware upgrading**
The device supports online firmware upgrading for upgrading software. Select "System Setup", pull down and click "Firmware". On the page, click "Select File" to select the upgrading file, and click "Upgrade" to upgrade the firmware.

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**Note:**
It is not recommended to use the way of "cold" reboot often, as it may cause bad influence on device hardware and software.