

QM-6100DM Series-Network Video and Audio Decoder

Product Introduction

1. Product introduction

The network video and audio decoder is a network video and audio decoder specially designed for the network video surveillance system. Based on the professional decoding chip, the device adopts the Linux operating system, which has good device stability and excellent decoding ability.

H.265 series products support ultra-definition 4K, H.264 series products support high-definition 1080P and below resolution network video decoding and output ; it supports multiple network transmission protocols and multiple bitstream transmission methods, and provides strong support for network video and audio decoding output, large-scale video wall decoding, splicing and segmentation picture output in video wall and other services.

2. Product characteristics

- 1.The equipment adopts modular structure design, a machine can be assembled by multiple modules according to the demand;
- 2.Single module : with 1 HDMI2.0 output;
3. Optional HDMI coding input;
4. Equipment structure: multi-module design, 1U standard chassis can be assembled with 4 modules, 2U chassis up to 12 modules, 4U chassis up to 24 modules, 8U can achieve 48 modules. If there is a need, larger models such as 12U and 16U can be customized, and multiple machines can be cascaded.
5. The device is equipped with standard interfaces such as RS485.

3. Product function (H.265)

3.1 Single module decoding function

- ◆ Support H.265 Main Profile Level 5.1, H.264 Baseline / Main / High Profile Level 5.0, MPEG4 SP L0 ~ L3 / ASP L0-L5, MJPEG / JPEG Baseline decoding ;
- ◆ Single support 1 channel 4K / 4 channel 1080P / 8 channel 720P / 16 channel D1 video decoding ;
- ◆ Support 4K, 500W, 300W, 200W, 130W and other standard video decoding ;
- ◆ Support PAL / NTSL and other standard formats;
- ◆ Support standard ONVIF access;
- ◆ Support RTSP direct video streaming;
- ◆ Support video file playback;

3.2 Single-module encoding function (optional HDMI input, up to 1080P encoding input) :

- ◆ Support 1 HDMI2.0 signal access coding;
- ◆ Support input signal H.264 Baseline / Main / High Profile Level 5.1 standard coding;
- ◆ Support MJPEG / JPEG Baseline encoding;

- ◆ Support coding 4K @ 30,1080 @ 60 resolution;
- ◆ Supports adjustable resolution and frame rate during coding;
- ◆ Support video stream encryption after encoding;

3.3 Single module output

- ◆ Support 1 HDMI2.0 interface output ; downward compatible with HDMI1.3 and other versions ;
- ◆ Support 1 HDMI2.0 output 3840 × 2160 @ 60fps;
- ◆ Single screen support maximum 25 screen segmentation;

3.4 Single module network :

- ◆ With a 10 / 100 / 1000Mbps adaptive network port;

3.5 Single function:

The single machine is composed of multiple modules, and the function is equivalent to the integration of multiple modules;

- ◆ With two USB ports (expansion, does not support the USB operation control matrix);
- ◆ With RS485 interface, support access to various types of module equipment ;

4. Product Resources (H.265 Standard D Series)

Model	Output (HDMI 2.0) Number	Decoding Capability 4K(Path)	Decoding Capability10 80P(or)	Decoding Capability D1(or)	Chassis Specifications
QM-6101D	1	1 4K	6 1080P	25 D1	
QM-6102D	2	2 4K	12 1080P	50 D1	1U
QM- 6104D	4	4 4K	24 1080P	100 D1	1U
QM- 6106D	6	6 4K	36 1080P	150 D1	2U
QM-6108D	8	8 4K	48 1080P	200 D1	2U
QM-6109D	9	9 4K	54 1080P	225 D1	2U
QM-6110D	10	10 4K	60 1080P	250 D1	2U
QM-6112D	12	12 4K	72 1080P	300 D1	2U
QM-6116D	16	16 4K	96 1080P	400 D1	4U
QM-6120D	20	20 4K	120 1080P	500 D1	4U
QM-6124D	24	24 4K	144 1080P	600 D1	4U
QM-6132D	32	32 4K	192 1080P	800 D1	8U
QM-6140D	40	40 4K	240 1080P	1000 D1	8U
QM-6148D	48	48 4K	288 1080P	1200 D1	8U
QM-6164D	64	64 4K	384 1080P	1600 D1	12U

Note:

Output specification refers to the number of HDMI output ports, 64 screen refers to 64 HDMI outputs ;

encoding refers to HDMI2.0 input based on H.264 standard up to 4K30 encoding (optional) ;

single-machine decoding refers to the maximum number of decoded video sources. When the resolution of the display area after segmentation is greater than the resolution of the D1 format, the system automatically adopts the main stream decoding method. At this time, the system can decode at most with reference to the device hardware decoding capability '. When the resolution

of the display area is equal to or lower than the resolution of the D1 format, the system adaptively adopts the sub-stream decoding method.

The chassis adopts standard cabinet specifications, such as : 1U / 2U / 4U / 8U / 12U, etc. ;

25 segmentation refers to the maximum split of each screen into 25 small windows ;

stitching refers to the maximum number of stitching, and can also be any other screen stitching that does not exceed the output number.

5. Product Parameters (H.265 Standard D Series)

Equipment Model	1U	2U	4U	8U	12U
Chassis	1U standard chassis	2U standard chassis	4U standard chassis	8U standard chassis	12U standard chassis
Number of Assemblable Modules	4	12	24	48	72
Power supply	<100W AC220V,50Hz	<100W AC220V,50Hz	<200W AC220V50Hz	<400W AC220V 50Hz	<600W AC220V,50Hz
The ambient temperature	Temperature -10℃ to 55℃, humidity within 90%RH				
Appearance size Length * width * height Not including mounting ear and bottom support part	435*377*44.5mm	435*377*89mm	435*377*178mm	435*381*356mm	435*381*534mm
Appearance size Length * width * height including mounting ear and bottom support part	483*377*51.5mm	483*412*96mm	483*412*186mm	483*416*363mm	483*416*541mm
Inner packaging size Length * width * height	532*472*135mm	550*495*180mm	570*515*280mm	608*553*490mm	608*553*654mm
Outer packaging size Length * width * height	535*490*155mm	570*505*205mm	588*530*310mm	630*570*520mm	608*553*654mm
Weight	7Kg(the approximate weight of Filled with the module)	10Kg(the approximate weight of Filled with the module)	16Kg(the approximate weight of Filled with the module)	28Kg(the approximate weight of Filled with the module)	41Kg(the approximate weight of Filled with the module)

6. Product pictures and dimensions (H.265 standard D series box schematic)

LINK : multi-machine cascade expansion port;

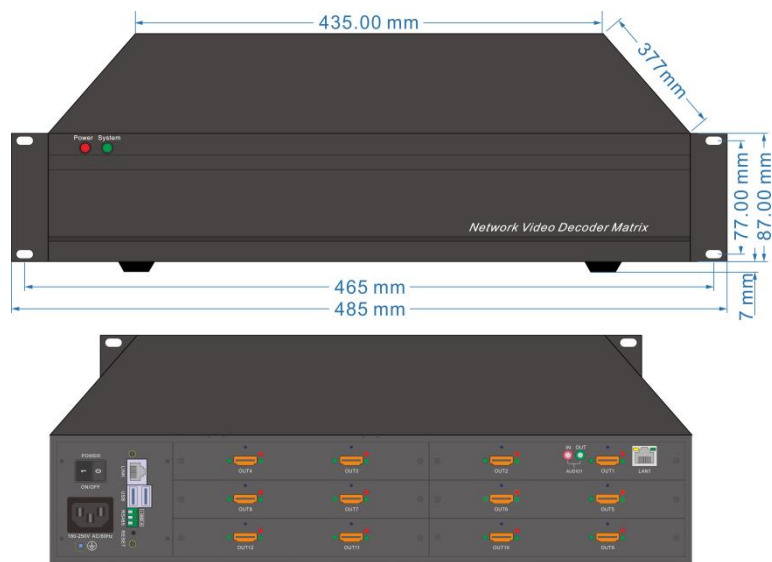
USB : USB interface, reserved;

RESET : reset key, in the energized state, holding the system configuration file for more than 3 seconds will be reset to the factory value, the user configuration file will be lost, please make the corresponding backup before reset. Reset only do configuration reset, will not affect the version number and authorization.

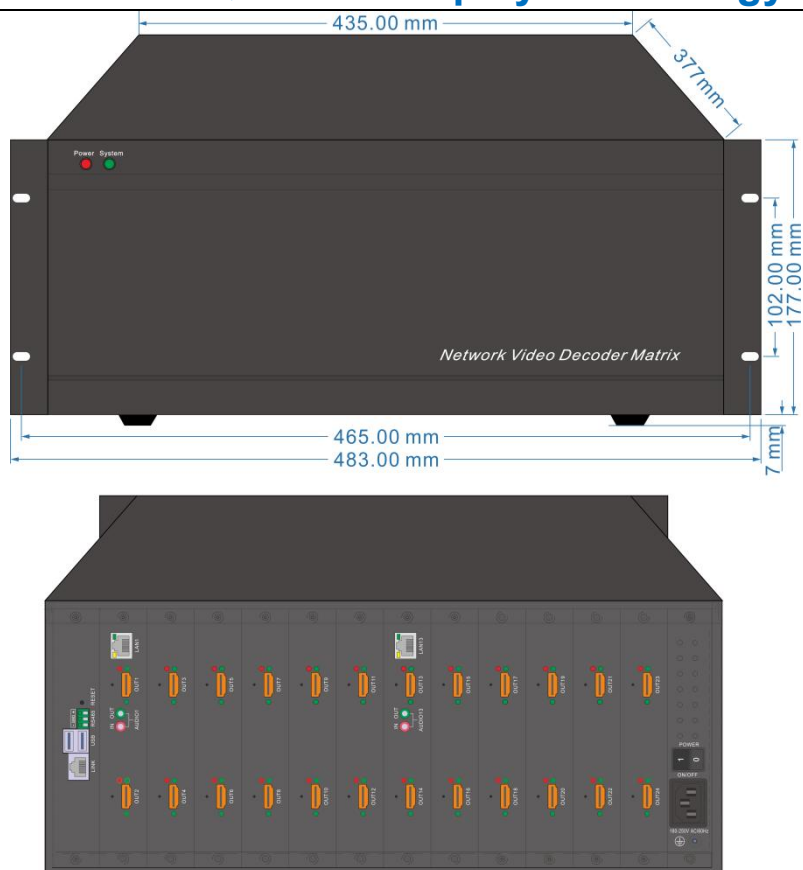
RS485 : RS485 connection port, can access all kinds of analog equipment ;
LAN : Gigabit network port, can access the network ;
AUDIO IN & OUT : Optional ;
HDMI IN : optional, HDMI input, can access the HDMI signal for encoding ;
HDMI OUT : HDMI output, directly connected to all kinds of HDMI display devices ;



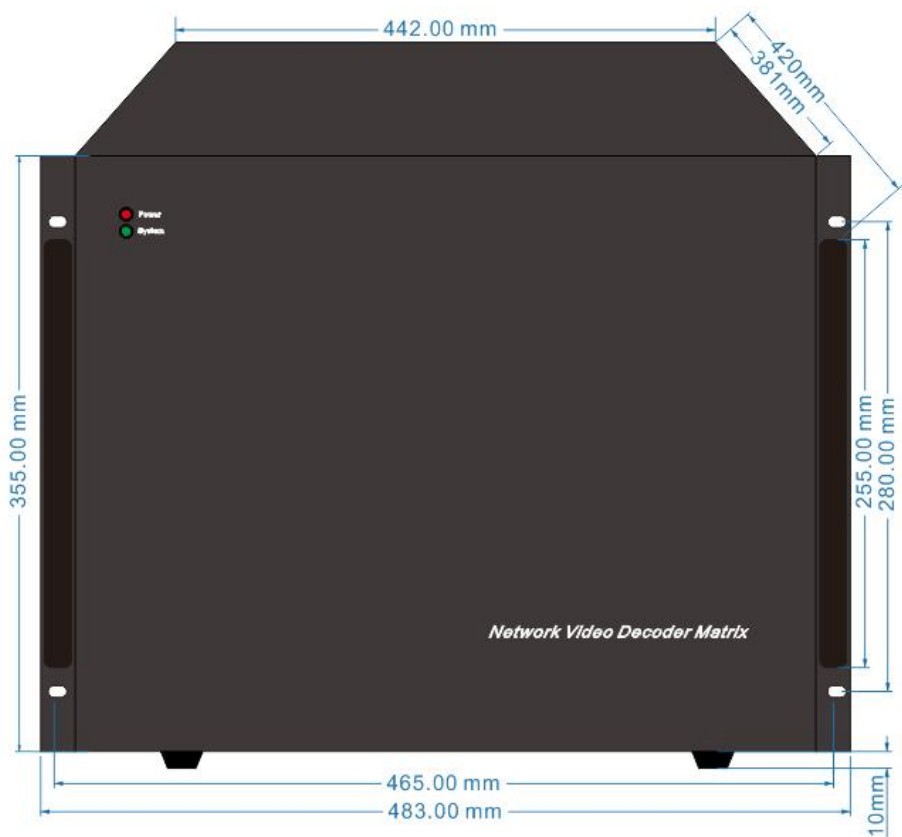
【Picture 6-1】 H.265 standard D 1U chassis schematic diagram

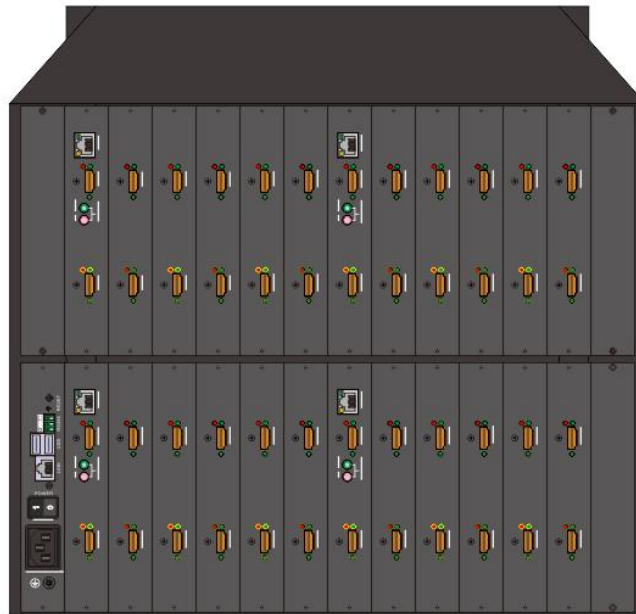


【Picture 6-2】 H.265 standard D 2U chassis schematic diagram

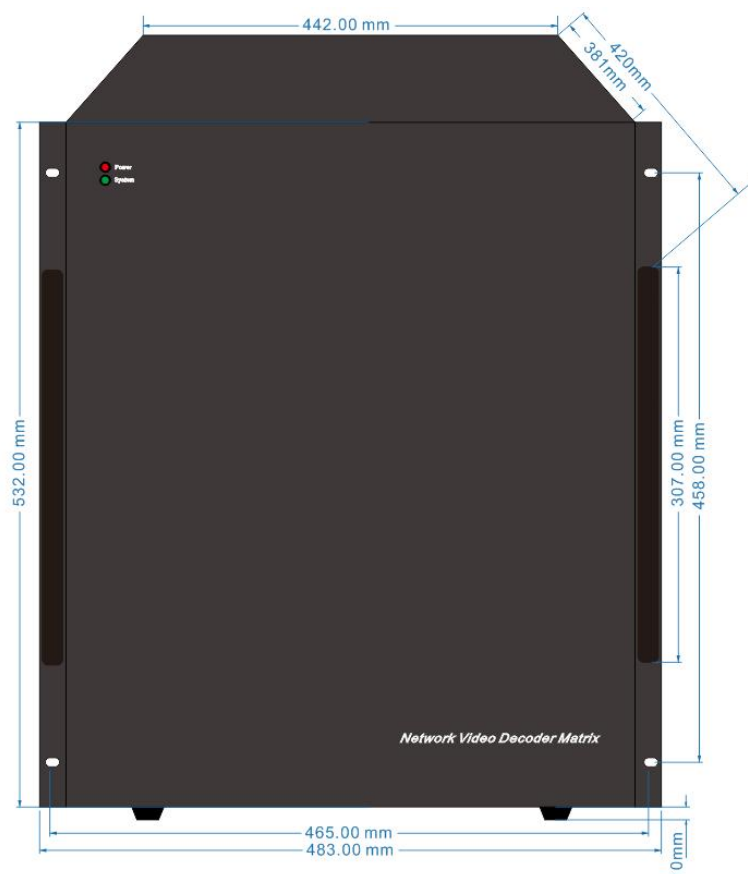


【Picture 6-3】 H.265 standard D 4U chassis schematic diagram





【Picture 6-4】 H.265 standard D 8U chassis schematic diagram





【Picture 6-5】 H.265 standard D 12U chassis schematic diagram

7. Product connection diagram

