

18-ch High Definition Video Decoder

ADU8818-E



Features

- Embedded Linux OS ensures 24/7 stable operation and prevents hackers and viruses.
- HDMI supports up to 4K@60Hz input resolution.
- HDMI supports up to 4K@60Hz output resolution, compatible with mainstream display devices in the industry.
- Maximum decoding resolution of 32MP, up to 32*1080P@30Hz decoding capability for each channel.
- Supports window opening, roaming, and picture-in-picture. Each output channel can open 36 windows on average.
- Supports multicast.
- Supports virtual LED subtitles.
- Supports small pixel pitch LEDs.
- Supports turning on/off video wall screens.
- Supports standard H.265, H.264, and MPEG4 image compression formats.
- Supports decoding audio in G.711A and G.711U formats.
- Self-developed decoding algorithm offers high decoding efficiency and clear images.
- Allows to configure and manage the device on a central server.
- Supports decoding SD and HD video.
- Supports local and remote upgrade.
- Supports decoding streams of multiple manufacturers such as Uniview, Hikvision, Dahua, etc.
- Supports up to 10 devices cascaded.

Specifications

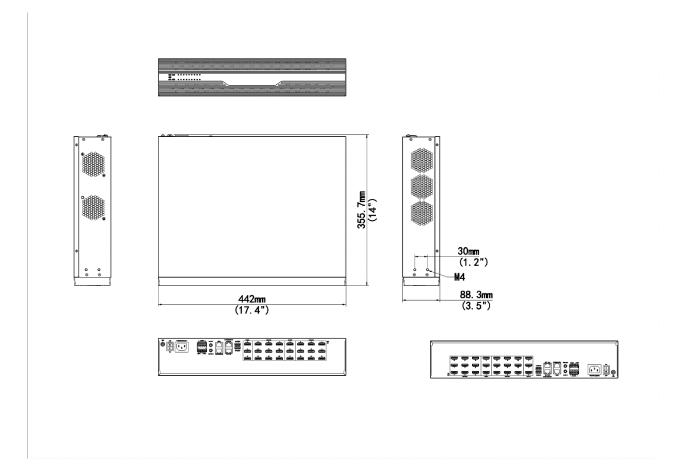
Model	ADU8818-E	
Output		
Output Channel	18-ch HDMI	

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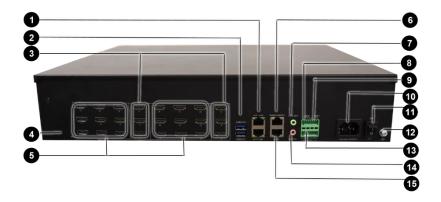
SOO(WXGA+)@60Hz, 1280 x 1024(SXGA)@60Hz, 1280 x 720(720P)@60Hz, 1024 x 768(XGA)@60Hz	unv		DATASHEE
All interfaces supports 3840 x 2160(4K)@60Hz, 1840 x 2160(4K)@30Hz, 1920 x 1200(UXGA)@60Hz, 1920 x 1200(UXGA)@60Hz, 1920 x 1080(1080P)@60Hz, 1600 x 1200(UXGA)@60Hz, 1440 x 900(WXGA+)@60Hz, 1280 x 1024(SXGA)@60Hz, 1280 x 720(720P)@60Hz, 1024 x 768(XGA)@60Hz	Video Output Resolution	1200(WUXGA)@60Hz, 1920 x 1080(1080P)@60Hz, 1600 x 1200(UXGA)@60Hz, 1440 x 900(WXGA+)@60Hz, 1280 x 1024(SXGA)@60Hz, 1280 x 720(720P)@60Hz, 1024 x	
All interfaces supports 3840 x 2160(4K)@60Hz, 3840 x 2160(4K)@30Hz, 1920 x 1200(WUXGA)@60Hz, 1290 x 1080(1080P)@60Hz, 1600 x 1200(UXGA)@60Hz, 1440 x 900(WXGA+)@60Hz, 1280 x 1024(SXGA)@60Hz, 1280 x 720(720P)@60Hz, 1024 x 768(XGA)@60Hz Decoding	Input		
1 200(WUXGA) 60Hz, 1920 x 1080(1080P) 60Hz, 1600 x 1200(UXGA) 60Hz, 1440 x 900(WXGA+) 60Hz, 1280 x 1024(SXGA) 60Hz, 1280 x 720(720P) 60Hz, 1024 x 768(XGA) 60Hz	Input Channel	6-ch HDMI	
Decoding Format H.265, H.264, MPEG4 Decoding Capability 6 x 8K@60Hz, 48 x 12MP@20Hz, 48 x 4K@30Hz, 192 x 1080P@30Hz, 384 x 720P@30Hz, 648 x D1@30Hz Screen Control Number of Windows 36 x number of output channels Number of Windows 36 x number of windows cannot exceed the number of output channels) Input Interface Audio Input 1 x 3.5mm audio input (reserved) 1 x 3.5mm audio input (reserved) Alarm Input 4 x terminal alarm input (reserved) 1 x 3.5mm audio output (reserved) Output Interface Audio Output 1 x 4 x terminal audio output (reserved) 1 x 3.5mm audio output (reserved) Other Interface Serial Port 1 x RS232 serial interface (RJ45), 1 x RS232 Console (RJ45)/RS485 shared serial interface (RJ45), 1 x RS2	Video Input Resolution	1200(WUXGA)@60Hz, 1920 x 1080(1080P)@60Hz, 1600 x 1200(U 900(WXGA+)@60Hz, 1280 x 1024(SXGA)@60Hz, 1280 x 720(720	JXGA)@60Hz, 1440 x
Decoding Capability 6 x 8K@60Hz, 48 x 12MP@20Hz, 48 x 4K@30Hz, 192 x 1080P@30Hz, 384 x 720P@30Hz, 648 x D1@30Hz Screen Control Number of Windows 36 x number of output channels Splicing M x N (the number of windows cannot exceed the number of output channels) Input Interface Audio Input 1 x terminal audio input (reserved) 1 x 3.5mm audio input (reserved) Alarm Input 4 x terminal alarm input (reserved) Output Interface 1 x terminal audio output (reserved) 1 x x 3.5mm audio output (reserved) Output Interface Audio Output 1 x terminal audio output (reserved) 1 x x terminal audio output (reserved) Other Interfaces Serial Port 1 x RS232 serial interface (RJ45), 1 x RS232 Console (RJ45)/RS485 shared serial interface Network Interface USB 2 x USB 3.0 General Power Supply 100V ~ 240 V AC; 50 Hz/60 Hz Max Power Consumption (W) 82.21 Product Dimensions (W × H × D) (mm) Weight (kg) 4.946 Operating Temperature 100 v 100 v 2 5°C	Decoding		
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Audio Output $ \begin{array}{c} 1 \text{ x terminal audio output (reserved)} \\ 1 \text{ x 3.5mm audio output, dual channel} \\ 4 \text{ x terminal alarm output (reserved)} \\ \hline \\ \text{Other Interfaces} \\ \\ \text{Serial Port} \qquad 1 \text{ x RS232 serial interface (RJ45), 1 x RS232 Console (RJ45)/RS485 shared serial interface} \\ \text{Network Interface} \qquad 2 \text{ x GE, RJ45 } 10\text{M}/100\text{M}/1000\text{M Base-T self-adaptive half/full-duplex Ethernet interface} \\ \text{USB} \qquad 2 \text{ x USB 3.0} \\ \hline \\ \text{General} \\ \hline \\ \text{Power Supply} \qquad 100\text{V} \sim 240\text{ V AC; 50 Hz/60 Hz} \\ \text{Max Power Consumption (W)} \qquad 82.21 \\ \hline \\ \text{Product Dimensions (W \times H \times D) (mm)} \qquad 442 \text{ x } 355.7 \text{ x } 88.3} \\ \hline \\ \text{Weight (kg)} \qquad 4.946 \\ \hline \\ \text{Operating Temperature} \qquad -10 \sim 55^{\circ}\text{C} \\ \hline \end{array} $	Alarm Input		
Audio Output $1 \times 3.5 \text{mm}$ audio output, dual channel $4 \times 4 $	Output Interface		
Other Interfaces Serial Port $1 \times RS232 \text{ serial interface (RJ45), } 1 \times RS232 \text{ Console (RJ45)/RS485 shared serial interface}$ Network Interface $2 \times GE, RJ45 10M/100M/1000M \text{ Base-T self-adaptive half/full-duplex Ethernet interface}$ USB $2 \times USB 3.0$ General Power Supply $100V \sim 240 \text{ V AC; } 50 \text{ Hz/60 Hz}$ Max Power Consumption (W) 82.21 Product Dimensions (W × H × D) (mm) $442 \times 355.7 \times 88.3$ Weight (kg) 4.946 Operating Temperature $-10 \sim 55^{\circ}\text{C}$	Audio Output	• • •	
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GeneralPower Supply $100V \sim 240 \text{ V AC}$; $50 \text{ Hz/}60 \text{ Hz}$ Max Power Consumption (W) 82.21 Product Dimensions (W × H × D) (mm) $442 \times 355.7 \times 88.3$ Weight (kg) 4.946 Operating Temperature $-10 \sim 55^{\circ}\text{C}$	Network Interface	2 x GE, RJ45 10M/100M/1000M Base-T self-adaptive half/full-duple	ex Ethernet interface
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Max Power Consumption (W) 82.21 Product Dimensions (W \times H \times D) 442 x 355.7 x 88.3 Weight (kg) 4.946 Operating Temperature -10 \sim 55°C	General		
Product Dimensions (W \times H \times D) (mm) $442 \times 355.7 \times 88.3$ Weight (kg) 4.946 Operating Temperature $-10 \sim 55^{\circ}\text{C}$	Power Supply	$100 \mathrm{V} \sim 240 \mathrm{V} \mathrm{AC}; 50 \mathrm{Hz}/60 \mathrm{Hz}$	
(mm) $ 442 \times 355.7 \times 88.3 $ Weight (kg) $ 4.946 $ Operating Temperature $ -10 \sim 55^{\circ}C $	Max Power Consumption (W)	82.21	
Operating Temperature $-10 \sim 55^{\circ}\text{C}$	Product Dimensions (W \times H \times D) (mm)	442 x 355.7 x 88.3	
	Weight (kg)	4.946	
2 2 11 15	Operating Temperature	-10 ∼ 55°C	
Operating Humidity $10\% \sim 90\%$ (No-condensing)	Operating Humidity	$10\% \sim 90\%$ (No-condensing)	



Dimensions



Interface







No.	Interface	Description
1	Ethernet	GE interface , RJ45 10M/100M/1000M Base -T self -adaptive half/full -duplex Ethernet interface
2	USB3.0	Upgrades the device
3	HDMI IN	HDMI input interface, receives video signal
4	RST	Short press (\leq 5s): the alarm indicator is steady red, and the device restarts after you release the button; Long press ($>$ 5s): the alarm indicator is blinking, and the device restores factory settings and restarts after you release the button
5	HDMI OUT	HDMI output i nterface, outputs video signal to the HDMI-connected display devices
6	RS485	Serial interface, used as RS232 Console or RS485 for interactive control with external devices, power distribution box control, device maintenance, etc.
7	LINE OUT	Coaxial 3.5mm audio output interface
8	ALM IN	Phoenix terminal, alarm input interface, switch signal input (reserved)
9	Audio	Phoenix terminal, audio input/output interface (reserved)
10	Power input	Power input interface
11	Power switch	Turn on/off the device
12	Grounding terminal	Grounding terminal
13	ALM OUT	Phoenix terminal, alarm output interface, relay output (reserved)
14	LINE IN	Coaxial 3.5mm audio input interface (reserved)
15	RS232	Serial interface, mainly used to turn on/off video wall screens

Ordering Info

Product Model	Description
ADU8818-E	18-ch High Definition Video Decoder

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