

4K@60 1GbE AV over IP

NP-IPV-01UT / NP-IPV-01UR

NP-IPV-01UT / R is IP network extender which can send maximum 4K@60Hz image by Cat 5e/6 cable. With a combination of 1G PoE network switch, external power supply is unnecessary. This can be used for video wall, matrix switcher and extender simply and flexibly. Bidirectional IR and RS232 and USB extension available.

■ Specification

		NP-IPV-01UT	NP-IPV-01UR
Video/Audio input	HDMI	1 input HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 TMDS clock: Up to 300 MHz, TMDS data rate: Up to 18 Gbps Deep Color/HDR ^{*1} 640x480@60 to 3840x2160@60 Reduced Blanking 480i, 576i to 3840x2160@24/25/30/50/59.94/60 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30/50/59.94/60 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24/30/36 bits *For all supported video signals, see the table below. LPCM: Up to 8 channels Sampling frequency: 32/44.1/48/88.2/96/176.4/192 kHz Reference level: -20 dBFS, Max. input level: 0 dBFS Connector: HDMI Type A (19-pin) Maximum distances ^{*2} : 16.4 ft (5 m)	-
	Analog audio	1 input Stereo L/R Input impedance: 20 kΩ unbalanced Max. input level: 1 Vrms	-
	1GbE	-	1 input
		*Supported video signals are the same as those of HDMI. RS-232C/IR/USB Connector: RJ-45 Maximum distances: 328 ft. (100 m) Cable: CAT5e / CAT6	
Video/Audio output	HDMI	1 output HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 TMDS clock: Up to 300 MHz, TMDS data rate: Up to 18 Gbps Deep Color/HDR ^{*1} 640x480@60 to 3840x2160@60 Reduced Blanking 480i, 576i to 3840x2160@24/25/30/50/59.94/60 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30/50/59.94/60 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24/30/36 bits *For all supported video signals, see the table below. LPCM: Up to 8 channels Sampling frequency: 32/44.1/48/88.2/96/176.4/192 kHz Reference level: -20 dBFS, Max. output level: 0 dBFS Connector: HDMI Type A (19-pin) Maximum distances ^{*2} : 16.4 ft (5 m)	1 output
	Analog audio	-	1 output Stereo L/R Output impedance: 33 Ω unbalanced Max. output level: 0.95 Vrms
	1GbE	1 output	-
		*Supported video signals are the same as those of HDMI. RS-232C/IR/USB Connector: RJ-45 Maximum distances: 328 ft. (100 m) Cable: CAT5e / CAT6	
Control I/F	RS-232C	1 port/Connector: Captive screw (3-pin)	
	LAN	1 port/10Base-T/100Base-TX/1000Base-T (Auto Negotiation), Auto MDI/MDI-X, Connector: RJ-45	
	USB	1 port/HID class, Connector: Female Type-B	1 port/HID class, Connector: Female Type-B
	IR input / output	1 port each for input / output	
Functions		7-segment Channel display, Scaler (only for Decoder)	
General	Power	PoE, Connector: RJ-45 (1GbE input) AC adapter: AC 100 V - 240 V ±10%、50 Hz/60 Hz ±3 Hz、DC 48 V 0.5 A 24 W	
	Power consumption	PoE: 7.7 W AC adapter: 7.7 W	PoE: 8.5 W AC adapter: 8.5 W
	Dimensions	190.4 (W) × 24.5 (H) × 127.2 (D) mm (Excluding connectors and the like)	
	Weight	0.70 kg	
	Temperature	Operating: 32°F to 104°F (0°C to +40°C), Storage: -4°F to +176°F (-20°C to +80°C)	
	Humidity	20% to 90% (non-condensing)	

^{*1} x.v.Color/3D/ARC/HEC/CEC are not supported.

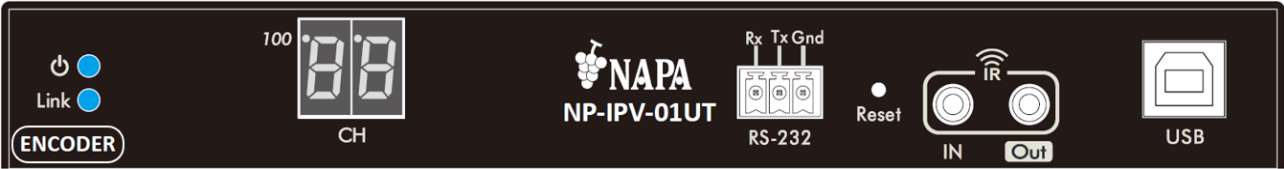
^{*2} The maximum specified distances may not be achievable with some device combinations, cabling method, or other manufacturer's cable. For the same reasons, video signal disturbances or interruptions may occur, even if signals are within the specified distance (cable length) parameters. The maximum cable length varies depending on the connected devices. The specifications have been qualified under following conditions:

- HDMI (1080p@60) : When IDK's 24 AWG cable was used and signal of 1080p@60 24 bits was transmitted.
- HDMI (4K@60) : When IDK's 18 Gbps supported cable was used and signal of 3840x2160@60 24 bits was transmitted.

■ Front & Rear Panels

NP-IPV-01UT

Front



Rear



NP-IPV-01UR

Front



Rear



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Signal	Resolution	Frame Rate [Hz]	Pixel Clock [MHz]	Color Depth [bits]	INPUT	OUTPUT
					HDMI 1GbE	HDMI 1GbE
640x480@60	640x480	59.94	25.18	24 / 30 / 36	○	○
800x600@60	800x600	60.32	40.00	24 / 30 / 36	○	○
1024x768@60	1024x768	60.00	65.00	24 / 30 / 36	○	○
1280x768@60	1280x768	59.87	79.50	24 / 30 / 36	○	○
1280x800@60	1280x800	59.84	83.50	24 / 30 / 36	○	○
1280x960@60	1280x960	60.00	108.00	24 / 30 / 36	○	○
1280x1024@60	1280x1024	60.02	108.00	24 / 30 / 36	○	○
1360x768@60	1360x768	60.02	85.50	24 / 30 / 36	○	○
1366x768@60	1366x768	59.79	85.50	24 / 30 / 36	○	○
1400x1050@60	1400x1050	59.98	121.75	24 / 30 / 36	○	○
1440x900@60	1440x900	59.89	106.50	24 / 30 / 36	○	○
1600x900@60	1600x900	60.00	118.25	24 / 30 / 36	○	○
1600x1200@60	1600x1200	60.00	162.00	24 / 30 / 36	○	○
1680x1050@60	1680x1050	59.95	146.25	24 / 30 / 36	○	○
1920x1080@60 RB	1920x1080	59.93	138.50	24 / 30 / 36	○	○
1920x1200@60 RB	1920x1200	59.95	154.00	24 / 30 / 36	○	○
2048x1152@60 RB	2048x1152	60.00	162.00	24 / 30 / 36	○	○
2560x1440@60 RB	2560x1440	59.95	241.50	24 / 30 / 36	○	○
2560x1600@60 RB	2560x1600	59.97	268.50	24 / 30 / 36	○	○
480i	720x480	59.94	27.00	24 / 30 / 36	○	○
480p	720x480	59.94	27.00	24 / 30 / 36	○	○
576i	720x576	50.00	27.00	24 / 30 / 36	○	○
576p	720x576	50.00	27.00	24 / 30 / 36	○	○
720p@50	1280x720	50.00	74.25	24 / 30 / 36	○	○
720p@59.94	1280x720	59.94	74.18	24 / 30 / 36	○	○
720p@60	1280x720	60.00	74.25	24 / 30 / 36	○	○
1080i@50	1920x1080	50.00	74.25	24 / 30 / 36	○	○
1080i@59.94	1920x1080	59.94	74.18	24 / 30 / 36	○	○
1080i@60	1920x1080	60.00	74.25	24 / 30 / 36	○	○
1080p@50	1920x1080	50.00	148.50	24 / 30 / 36	○	○
1080p@59.94	1920x1080	59.94	148.35	24 / 30 / 36	○	○
1080p@60	1920x1080	60.00	148.50	24 / 30 / 36	○	○
3840x2160@24	3840x2160	24.00	297.00	24 / 30 / 36	○	○
3840x2160@25	3840x2160	25.00	297.00	24 / 30 / 36	○	○
3840x2160@30	3840x2160	30.00	297.00	24 / 30 / 36	○	○
3840x2160@50	3840x2160	50.00	594.00	24 / 30 / 36*	○	○
3840x2160@59.94	3840x2160	59.94	593.41	24 / 30 / 36*	○	○
3840x2160@60	3840x2160	60.00	594.00	24 / 30 / 36*	○	○
4096x2160@24	4096x2160	24.00	297.00	24 / 30 / 36	○	○
4096x2160@25	4096x2160	25.00	297.00	24 / 30 / 36	○	○
4096x2160@30	4096x2160	30.00	297.00	24 / 30 / 36	○	○
4096x2160@50	4096x2160	50.00	594.00	24 / 30 / 36*	○	○
4096x2160@59.94	4096x2160	59.94	593.41	24 / 30 / 36*	○	○
4096x2160@60	4096x2160	60.00	594.00	24 / 30 / 36*	○	○

RB: Reduced Blanking

*For RGB/YCbCr 4:4:4, only 24 bit is supported.

For best results, please confirm that the source device(s) video output can be configured to match the listed formats above. For questions regarding other input video signals, please contact your IDK representative.