

# ND-100M-4K-IP-TX

IP Multicast UHD Video Transmitter over 1GB Network



NETWORK DEVICES



## Description

The ND-100M-4K-IP-TX employs visually lossless compression technology to distribute 4K60Hz video with HDCP2.2 content including IR, RS-232 & USB /KVM signals up to lengths of 100m over 1Gb network infrastructure. It features HDMI loop out and an auxiliary .H264/.H265 video encoding stream for live preview. The unit can be powered remotely via POE or locally using a 12v power supply.

## Features

- HDCP 2.2 compliant
- UHD Video over 1Gb Network
- Support up to 4K60 4:4:4 input, 4K60 4:2:0 output
- Color space: RGB, YCbCr 4:4:4, YCbCr 4:2:2
- JPEG2000 main stream and standard H.265 codec auxiliary stream
- Transmit video, audio, infrared, USB2.0 KVM up to 100m
- Supports unicast, multicast, video segmentation and TV wall function
- HDMI audio formats: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
- POE (Power over Ethernet) and Local Powering
- Supports:
  - Video Matrix over IP
  - One to One
  - One to Many

## Specifications

Technical			
HDCP Compliant	HDCP 2.2		
Video Bandwidth	10.2 Gbps (297MHz)		
Video Resolution	480i ~1080p50/60Hz, 4Kx2K@24/30Hz, support 4k2k@60Hz input		
Color Depth	8/10/12-bit (1080P60Hz) 8-bit (4K60Hz)		
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0		
HDMI Audio Formats	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X		
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)		
Technical			
Input ports	1x HDMI Type A (19-pin female) 1x IR IN phoenix connector (3-pin female) 1x 12V 1A bolt power socket 1x RS232 phoenix connector (3-pin female) 1x USB HOST Type B (5-pin female) 1x AUDIO IN phoenix connector (3-pin female)		
Output ports	1x HDMI Type A (19-pin female) 1x IR OUT phoenix connector (2-pin female) 1x AUDIO OUT phoenix connector (3-pin female)		
Mechanical			
Housing	Metal enclosure		
Color	Black		
Dimensions	200mm [W] x 100mm [D] x 20mm [H]		
Weight	TX:509g, RX:496g		
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)		
Power Consumption	TX: 9.8W, RX: 7W		
Operating Temperature	0 - 40°C		
Storage Temperature	-20 - 60°C		
Relative Humidity	20 - 90% RH (no condensing)		
Resolution / Cable Length	4K60 Feet / Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M
The use of "Premium High Speed HDMI" cable is highly recommended.			

Specifications subject to change without notice.