# MT300N

## NDI® Matrix Tracking Box

NDI®|HX

AVerCare
Pro AV Guarantee
24 Hour | 5 Year
Replacement | Warranty

# Voice Tracking and Streaming Made Easy.

The AVer MT300N is the matrix tracking box that opens up a whole new world using AVer Pro AV cameras in collaborative environments! Integrate Voice Tracking with any room types with this small form factor device that eliminates the need for expensive in-room PC or server running PTZ Link software pre-installed. Supports 3rd party microphones from leading audio brands and allows for customizable multi-camera switching. Swap your camera between in-room Microsoft Teams, Zoom Room or Google Meet system or BYOM (bring your own meeting). With USB, NDI|HX2, HDMI, H.264 input and output connectivity, you can accommodate any use case for seamless integration for capture and collaboration.

Our industry-leading AVerCare warranty program offers 5 years protection and 24-hour replacement to give you total peace of mind.

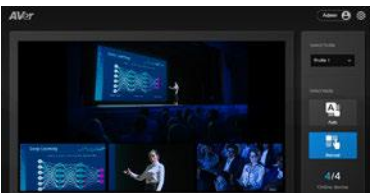| Integrated Voice Tracking | Multi-Camera Switching | 4 Output 2 HDMI & 2 USB/Type B | Support NDI\|HX2 Protocol | PTZ Link Premium Built-in | PoE+ Supports |
|---|---|---|---|---|---|

## Integrated voice tracking

- Pre-installed PTZ Link software works with AVer Pro AV cameras and 3rd-party microphone systems including Sennheiser, Shure, Yamaha, Nureva, ClearOne, and Audio-Technica.
- Create a multi-camera feel across all your preset zones

## Multi-camera switching

- Premium Version of PTZ Link license supports up to five groups of AVer cameras and microphones to accomplish automatic video switching.
- Access direct connectivity to AVer cameras via USB.
- Rich video conferencing platform compatibility allows you to switch cameras between Microsoft Teams, Zoom Room or Google Meet systems.
- BYOD (Bring your own device) or integrate it with your existing devices, while leveraging its multimedia capabilities.

## Web UI with Remote Management

- Our simple web-based interface enables convenient remote access and management of cameras. Additionally, users can effortlessly create personalized profiles including display layouts to easily access their preferred settings.

## Advanced Motion Control

- Take advantage of the power of NDI|HX2 format with built-in encode support for your connected devices.

## Compact. Easily mountable

- The small form factor allows you to neatly tuck away the MT300N under a desk with the rack mount brackets (included) or on a server rack with the optional server rack mount (sold separately).
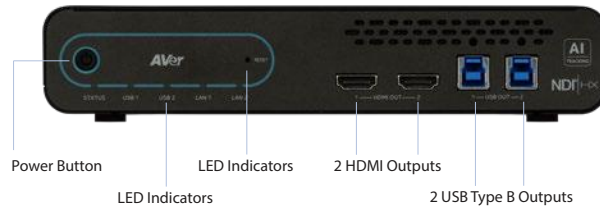
# Product Specifications

## MT300N

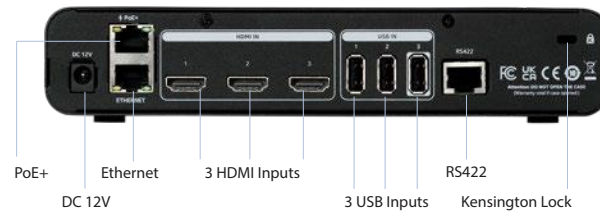| Category | Spec | MT300N |
|---|---|---|
| **Tracking Box** | Platform | Embedded Linux on Quad Core ARM® |
| | Input Resolutions | 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50 |
| | Output Resolution | **HDMI Outputs**<br>2160p/60, 2160p/59.94, 2160p/50, 2160p/30, 2160p/29.97, 2160p/25, 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50, 480p/60<br>**USB Outputs**<br>YUY2 1080p/30, 1080p/15<br>MJPEG 2180p/30, 2180p/15, 1080p/60, 1080p/30<br>**Stream Output**<br>Resolution 3840x2160, 1920x1080, 1280x720, 960x540, 640x480, 640x360<br>Framerate 1, 5, 15, 20, 30, 60 |
| | PTZ Link Premium | License included |
| | Camera Control - Protocols | VISCA (RS-422 / IP), PELCO-D & PELCO-P (RS-422), CGI (IP) |
| | Maximum Input Signals | 7<br>4 - Combination of IP + USB, 3 - HDMI (Maximum 4 active inputs at any time) |
| | Maximum Output Signals | 1<br>(All outputs are mirrored) |
| **Interface** | Video Output | All outputs are mirrored HDMI (2), IP, USB 3.0 Type-A (2), NDI HX2 |
| | Video Input | HDMI (3), IP, NDI HX3, USB 2.0 Type-B (3) |
| | Camera Control - Interfaces | RS-422 (RJ45), IP |
| | Ethernet | RJ45 (2), PoE+ - Port 1 only |
| | Buttons | Power, Reset (recessed) |
| **IP Streaming** | Resolution | Up to 2180p/60 (Maximum decode resolution upto 1080p/60) |
| | Network Video Compress Formats | H.264, H.265, MJPEG |
| | Maximum Frame Rate | 60fps |
| | Bit-Rate Control Modes | VBR, CBR (selectable) |
| | Range of Bit-Rate Setting | 512 Kbps to 32 Mbps, and Auto |
| | Network Interface | 10 / 100 / 1000 Base-T |
| | Multi-Stream Capability | **Input**<br>Maximum up to 4<br>Up to 1080p/60: IP, NDI-HX3     **Output**<br>Unlimited connections<br>Up to 2180p/60: IP, NDI-HX2<br>720p/10: MT300N Web-Interface |
| | Network Protocols | IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP / RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP |
| | NDI®HX2 | Encoding |
| | NDI®HX3 | Decoding |
| **USB** | Input Connectors | USB 2.0 (Port 1/2 - UVC, Port 3 - UVC/UAC) |
| | Output Connectors | USB 3.0 (2)Port |
| | Output Video Formats | MJPEG, YUY2 |
| | Maximum Output Video Resolution | 2160p/30 - MJPEG, 1080p/30 - YUY2 |
| | USB Video Class (UVC) | UVC 1.1 |
| | USB Audio Class (UAC) | UAC 1.0 |
| **LED Indicators** | Power/Status LED | **Orange (Solid)** - Device powered but in standby<br>**Green (Solid)** - Device powered and operating normally<br>**Green (Flashing)** - Device is upgrading firmware |
| | USB 1 / USB 2 | **Green (Solid)** - Host is connected and device is ready to stream UVC/UAC video<br>**Green (Flashing)** - Device is streaming UVC/UAC video |
| | LAN 1 / LAN 2 | **Green (Solid)** - Device is connected to network |
| **General** | Power Requirement | DC 12V/1.5A |
| | Power Consumption | 18W |
| | PoE | PoE+ |
| | Dimensions (W x D x H) | 15.0 x 21.0 x 4.1 cm |
| | Net Weight | 0.9 (±0.1) kg |
| | Security | Kensington Slot |
| | Remote Control | Infrared |
| | Operating Conditions | Temperature : 0 °C to +50 °C ; Humidity : 20% to 80% |
| | Storage Conditions | Temperature : -20 °C to +60 °C ; Humidity: 20% to 95% |
| | Installation | Rack mountable, Under the table, Inside the podium, Behind the display |
| | Safety Certifications | CE, FCC, BSMI, NCC, IC, VCCI, UKCA, EAC |
| **WebUI** | Input Connectors | USB 2.0 (3) (Port 1/2 - UVC, Port 3 - UVC/UAC) |
| | Output Connectors | USB 3.0 (2)<br>Automatic USB port selection to the last connected host. Port 1 has higher priority if both ports are connected to host. (For MTR/Zoom Room and BYOM switching applications.) |
| | Output Video Formats | MJPEG, YUY2 |
| | Maximum Output Video Resolution | 2160p/30 - MJPEG, 1080p/30 - YUY2 |
| | USB Audio Class (UVC) | UVC 1.1 |
| | USB Video Class (UAC) | UAC 1.0 |
| **Software Tools** | IP Search and Configuration Tool | Support Windows® 7 or later |
| | PTZ Management | Support Windows® 7 or later |
| | PTZ Control Panel | Supports iOS & iPadOS® 11 or later |
| | PTZ Link | Built-in with Premium License Activated |
| | CaptureShare | Supports Windows® 7 or later, macOS® 10.14 or later |
| **Warranty** | Device | 5 Years |
| | Accessories | 1 Year |
| **Package Contents** | | MT300N Device, Power Adapter, Power Cable, Cable Fixing Plate (x2), Cable Tie (x13), 3.0 x 5 Truss Head Screw (x4), M3 x 10 mm Screw (x4), Rack Mount Bracket (x2), USB 3.0 Cable (x2), RS-422 Cable, Quick Start Guide |
| **Optional Accessories** | | Server Rack Mount, 3.0 x 5 mm Flat Head Screw (x3), 3.0 x 5 mm Truss Head Screw (x2) |
| **Ordering Info** | Part Number | PATMT300N |

*\* Specifications may vary depending on location and are subject to change without notice.*

# Hardware Specifications

**Front**



Power Button

LED Indicators

LED Indicators

2 HDMI Outputs

2 USB Type B Outputs

**Back**



PoE+

DC 12V

Ethernet

3 HDMI Inputs

3 USB Inputs

RS422

Kensington Lock

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