



Sphere Com Services  
Pvt. Ltd.

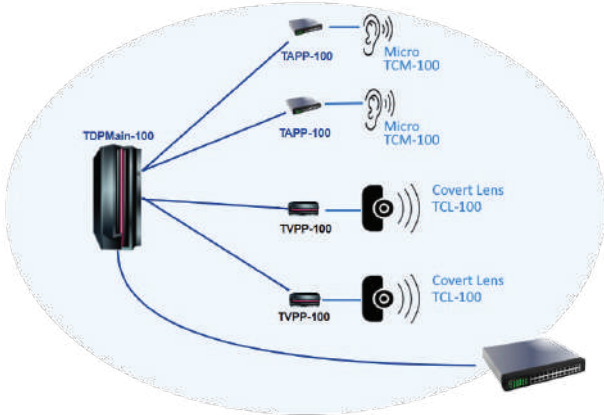
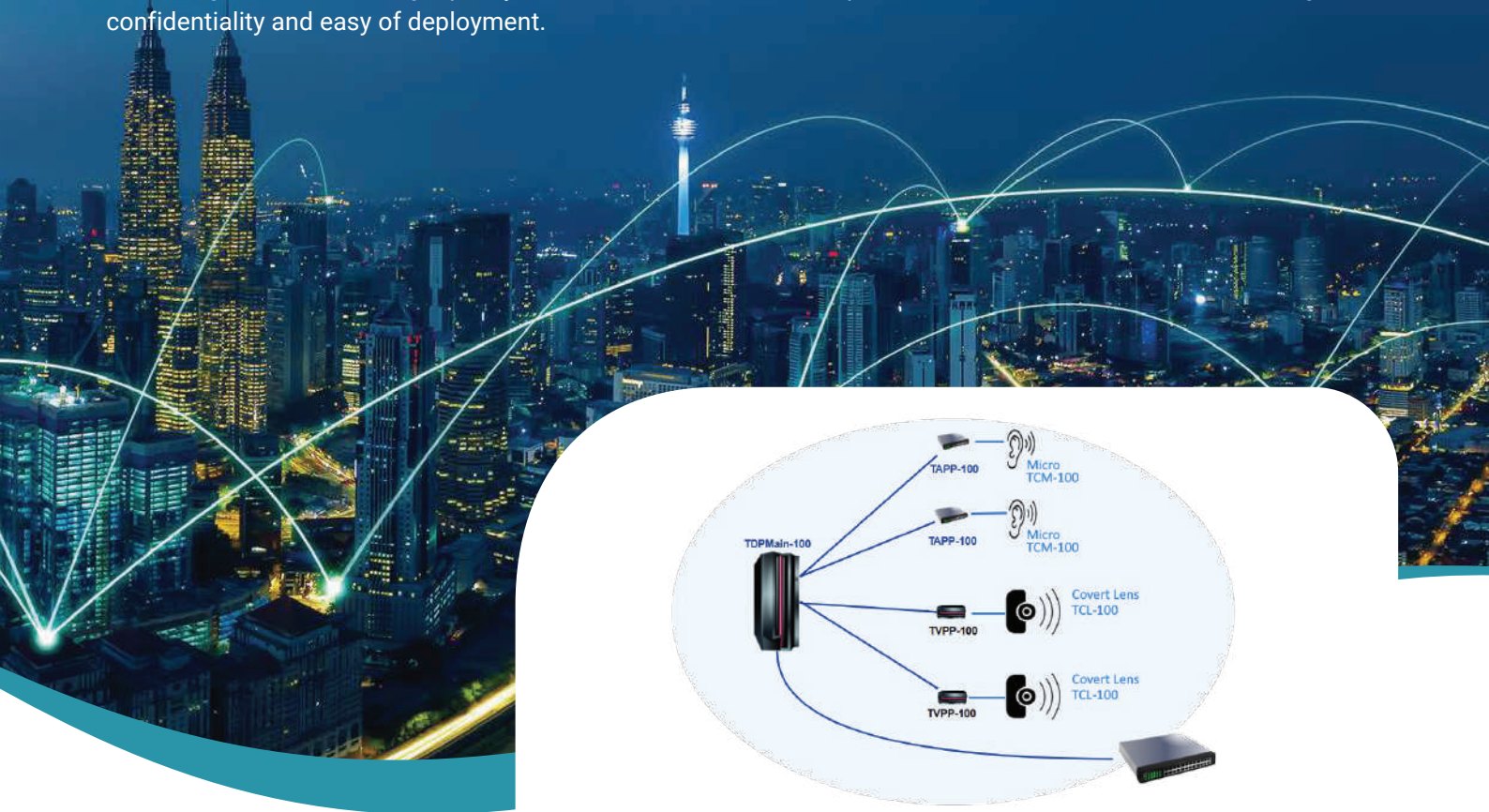
# Secret Audio and Video Recording System



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# Overview

Thinix Secret Audio and Video Recording System is a specialized technical system used by law enforcement agencies, utilizing advanced technology such as artificial intelligence and smart audio-visual processing to deliver high sound and image quality. The Thinix device enables operations in harsh environments, ensuring confidentiality and easy of deployment.



Connection diagram

## Key Features

- Clear image quality with a high-resolution camera, up to 4K quality.
- High-quality audio capture using premium microphones, enhanced by intelligent processing to reduce noise, interference, and echo. The device can capture sound from multiple microphones, enabling effective recording even in low-volume environments.
- High information security: Captured audio and video data is securely protected, preventing unauthorized copying and data extraction.

## Components and Specifications

### 1. Video Unit (TVPP-100)



Specifications	
Sensor	SONY IMX317
Maximum Resolution	3840(H) * 2160 (V)
Video Compression	MJPEG
Illumination	≤ 0.2lux
Lens type	CS-Mount
Light Control Support	<ul style="list-style-type: none"><li>• AEC-Automatic Exposure Control</li><li>• AEB - Auto Exposure Bracketing</li><li>• AGC- Automatic gain control</li></ul>
Adjustment Support	Brightness, Contrast, Saturation,Hue, SharpnessWhite Balance, Backlight, Contrast, Exposure
Signal-to-Noise Ratio	26dB
Power Supply	5VDC
Max, Power Consumption	1W
Working Temperature	0°C to 60°C



## 2. Covert Lens (TCL-100)



Specifications	
Pinhole	3mm
Aperture D/f	F: 1.8
Connection	CS – Mount
Focal Length	2.8mm
Field of View	D: 140° x H: 100° x V: 60°
Adjustment Support	Focus, Back Focal Length, Lock
Power Supply	5VDC
Dimensions	67.9mm x $\Phi$ 33
Net Weight	~ 70g

## 3. Audio Unit (TAPP-100)



Specifications	
Sampling Rate	44.1/48/96/192KHz
Bit Rate	16/24 bit
SNR	94dB
Frequency Range	20Hz - 20kHz
Number of Inputs	2
Parameter Configuration	Low cut filter
Power Supply	5VDC

## 4. Micro (TCM-100)



Specifications	
Sensitivity	-35dB
Frequency Range	20Hz - 18kHz
Distortion	1,5% at 1KHz
Pinhole	4mm
SNR	67dB
Power	2.7V
Cable Length	5m, 10m, 15m (optional)

## 5. Data and Video Processor (TDPMain-100)




Specifications	
CPU	4 Cores; $\geq$ 1.4GHz
GPU	128 Cores
Memory	4GB
Flash or eMMC	16GB
HDD	128 GB SSD
Connectors	2 Video Unit, $\leq$ 2 Audio Unit
Power Supply	12 to 24 VDC
Video Compression	Mjpeg/H264/H265
Security	IEEE 802.1Xb network access control, IP address filtering, HTTPS, Password protection, Digest authentication
Network protocols	IPv4, IPv6, HTTP, HTTPS, SSL/TLS, FTP, SFTP, CIFS/SMB, SMTP, DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT, Syslog
Working Temperature	-20°C to 60°C
Net Weight	~ 1.4kg
Processing Features	<ul style="list-style-type: none"><li>• Supports recording audio and video together</li><li>• Synchronizes time with a central server</li><li>• Data Encryption: AES256</li><li>• Data Integrity: SHA512</li><li>• Able to connect, integrate, and synchronize data with a central server.</li><li>• Temporarily stores data on the hard drive during a network outage and automatically resynchronizes when reconnected</li><li>• Performs encryption in real-time during recording</li><li>• Audio and Video Compression: H264 or MPEG-4</li><li>• Ensures synchronized audio and video data</li><li>• Noise Filter, Interference Filter, and echo cancellation using AI technology</li></ul>

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