

# VIDEO TRANSMISSION PRODUCTS

Wuhan Xingtu Xinke Electronics Co., Ltd

TEL: +86-01063725952

URL: <https://www.xingtusecurity.com>

ADDRESS: 6th Floor, Building 2, Nord Center, 128 South Fourth Ring West Road,  
Fengtai District, Beijing



# PRODUCT INTRODUCTION

Designed for front-end monitoring devices, these products enable smooth HD video transmission under low-bandwidth conditions and allow transmitting more video channels over the same bandwidth.

Target users include those requiring low-bandwidth video transmission or wireless network solutions, such as customers in transportation, public security, justice, energy, emergency management, electricity, and finance sectors.



# PRODUCT ADVANTAGES



## 4-10x video compression

with 80% bandwidth reduction while maintaining original video quality, resolution, frame rate, features, and encoding formats.



## Ultra-low bitrate transmission

Transmit 2K Ultra HD video at 1Mbps bitrate.  
Transmit 1080P HD video at 200-500kbps bitrate.



## Adaptive to complex networks

Smooth audio-video transmission under 20% packet loss conditions.



## Real-time video transcoding

Supports H.264 and H.265 video encoding standards.



## Bypass access deployment

No need to alter existing network topology.

# APPLICATION SCENARIO:

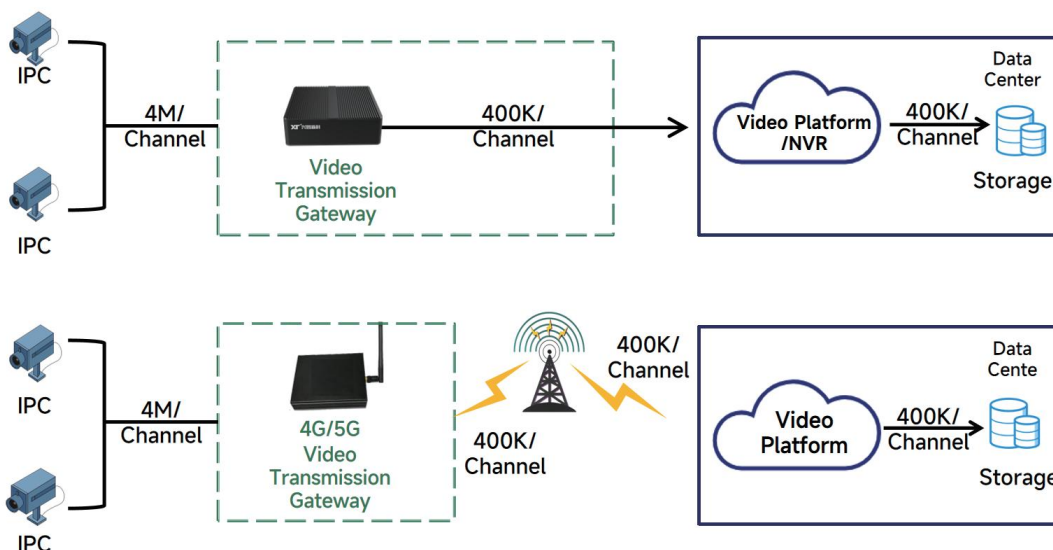
## High-Definition Video Transmission over Low Bandwidth

### Pain Points

- Fixed network bandwidth while requiring the transmission of more video streams and higher-quality video.
- Need for wireless transmission of high-definition video.

### Governance Effects

- With unchanged network bandwidth, video transmission capacity increases from 1 stream to 10 streams.
- Transmit HD video over 0.5 Mbps bandwidth and 2K video over 1 Mbps bandwidth.
- Enable higher-definition video transmission over 4G/5G networks.



In the past, 1 stream supported 1 user; now, 1 stream supports 10 users! Smooth transmission, no lag!

## APPLICATION SCENARIO:

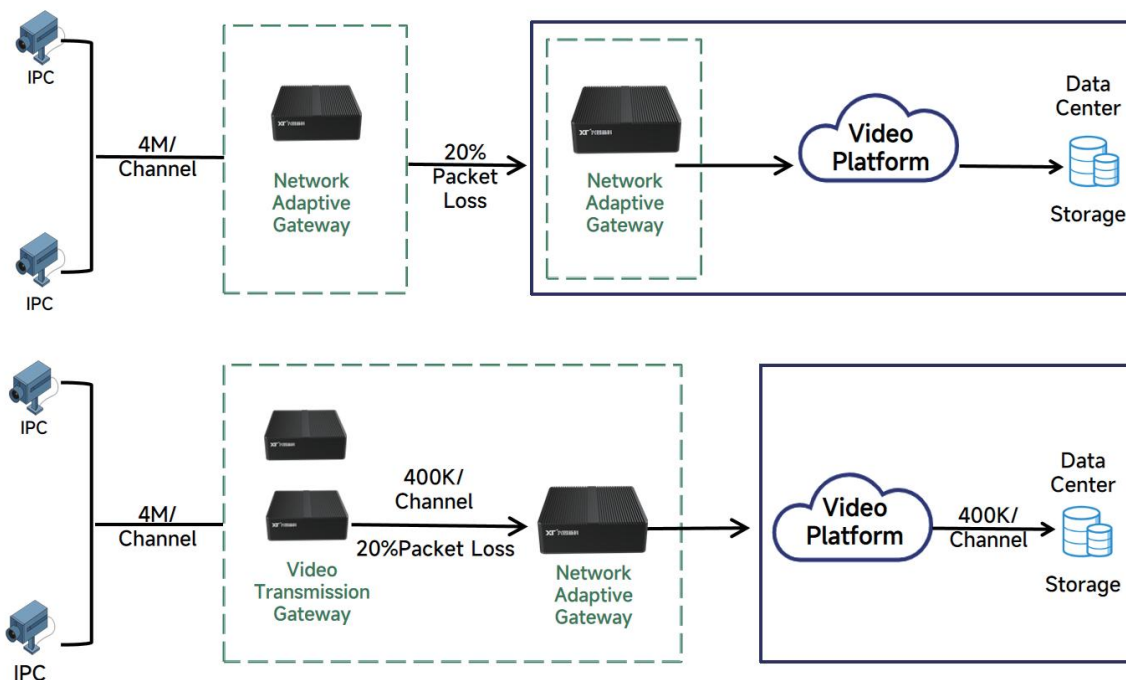
Smooth transmission of high-definition video during network packet loss

### Pain Points

- In environments with network jitter, latency, and packet loss, there is a critical need to ensure smooth and stable video transmission.

### Governance Effects

- Even with 20% network packet loss, audio and video are transmitted smoothly.



Under network packet loss conditions, high-definition video can be transmitted smoothly without stuttering!

# APPLICATION SCENARIO:

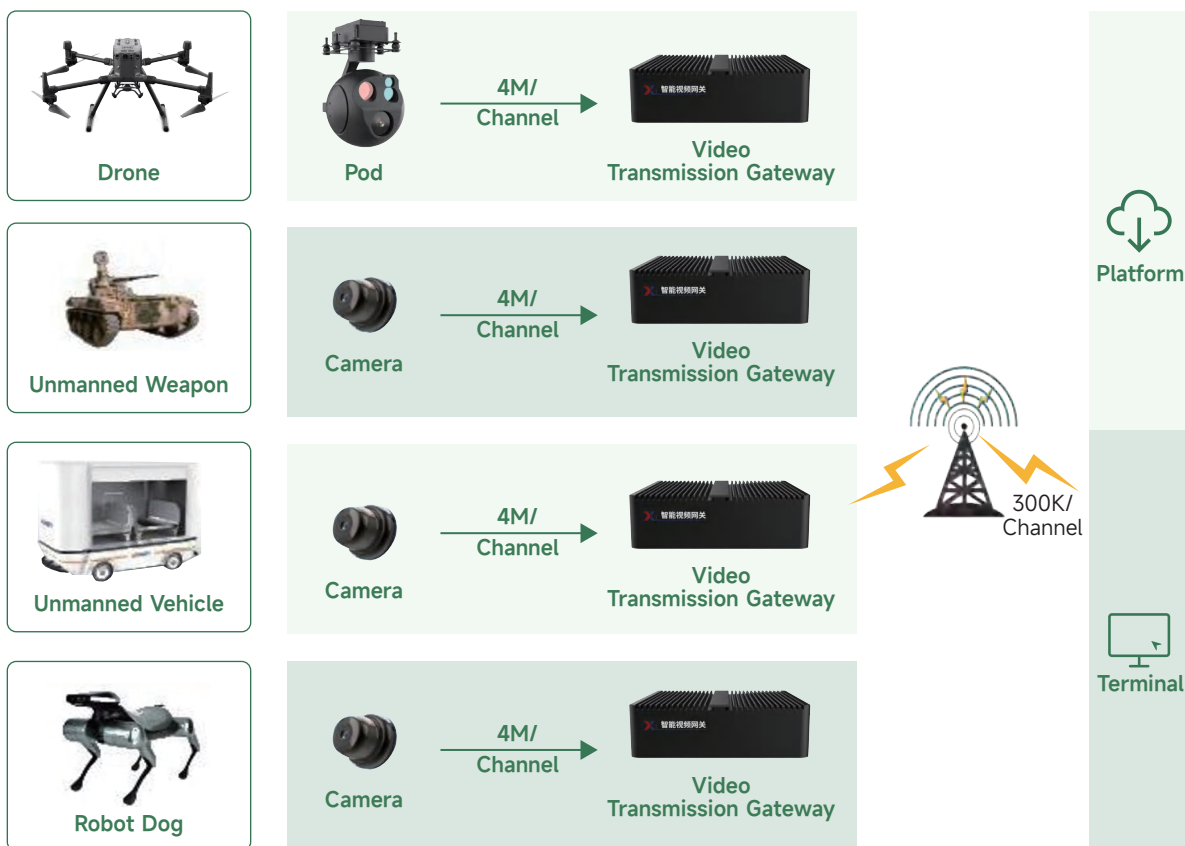
## Unmanned Device Wireless Transmission

### Pain Points

- Wireless network for unmanned devices requiring high-definition video transmission.







### Governance Effects

- In wireless network environments for unmanned equipment, 300 kbps bandwidth enables smooth transmission of high-definition video without stuttering.



Smooth transmission of high-definition video without  
stuttering on unmanned devices!

## PRODUCT PARAMETERS

Product Model	XTQ202FH	XTQ204FH	XTQ208FH	XTQ216FH	XTQ204FH-4G	XTQ224FH-NR
Product Name	2-channel Video Transmission Gateway	4-channel Video Transmission Gateway	8-channel Video Transmission Gateway	16-channel Video Transmission Gateway	4G Video Transmission Gateway	Network Adaptive Gateway
Appearance						
Number of Connected Cameras	2 channels	4 channels	8 channels	16 channels	4 channels	24 channels
Concurrent Video Streams	2×1080P	4×1080P 2×2K 1×4K	8×1080P 4×2K 2×4K	16×1080P 8×2K 4×4K	4×1080P 2×2K 1×4K	24×1080P 12×2K 6×4K
Encoding Format	H.264、H.265					
Output Bitrate	8M 4K: ~1800Kbps 4M 1080P: ~500Kbps 6M 2K: ~1300Kbps 2M 720P: ~350Kbps					/
Video Compression Ratio	Based on H.264/H.265 encoding, additional 4–10× compression (original file size / compressed file size)					/
Latency	≤120ms					
Supported Video Resolutions	4K, 2K, 1080P, 720P, and lower					
Input Protocol	ONVIF、RTSP					
Output Protocol	ONVIF、RTSP					
Network Adaptability	Smooth audio-video playback even with 10% packet loss					
Power Supply	DC12V	DC12V	DC12V	DC12V	DC12V	DC12V
Typical Power Consumption	≤5W	≤5W	≤5W	≤8W	≤8W	≤8W
Network Interface	1×Ethernet	1×Ethernet	1×Ethernet	1×Ethernet	1×Ethernet + 1×Antenna	1×Ethernet
Device Form Factor	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop
Dimensions	136×126×40mm	136×126×40mm	136×126×40mm	136×126×40mm	136×126×40mm	136×126×40mm
Operating Temperature	-15°C to +55°C					
Storage Temperature	-40°C to +55°C					
Working humidity	20%–80% (non-condensing)					
Storage humidity	5%~95% (non-condensing)					