



Real-time Multimedia Transfer

(Real-time Video/Audio over IP Network)

- **H.264 Full-HD**
- **Latency : 50~80msec**
- **Standard TCP/IP Ethernet**
- **Low Power Consumption: 40% ↓**
- **Low Bandwidth (10-40Mbps)**
- **Unlimited Distance: Ethernet Switch**
- **IP Setting Program : Mango**

Product	Application
<ul style="list-style-type: none"> • <u>MonaLisa-Pony</u> <ul style="list-style-type: none"> - Video/Audio Transmission - Ethernet (TCP/IP) - Multicasting - IP Setting Program 	<ul style="list-style-type: none"> ✓ Digital Signage ✓ IP Camera / CCTV ✓ Real time AV Transfer ✓ Smart Factory
<ul style="list-style-type: none"> • <u>MonaLisa-Link</u> <ul style="list-style-type: none"> - IP KVM - USB 2 Ports - HDMI / DVI Interface 	<ul style="list-style-type: none"> ✓ IP KVM Switch ✓ Virtual Desktop PC ✓ Cloud Computing ✓ Smart Factory
<ul style="list-style-type: none"> • <u>MonaLisa-Wing</u> <ul style="list-style-type: none"> - AV WiFi Transmission - 11n / ac, LTE - HDMI / MIPI Intergace 	<ul style="list-style-type: none"> ✓ Drone FPV ✓ VR ✓ Wireless AV Device

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5G-초저지연 영상무선 전송 (5G-ULLC Full HD Video Transmission)

5G 서비스 실증시험

두산인프라코아 굴삭기 원격운전 : 2018상해 건설기계전시회



5G 영상 전송기 (韓國)

5G 영상수신기 (中國)

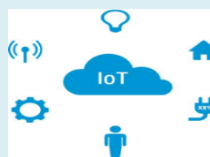
초저지연 영상전송
지연시간:20~40msec
해 상 도 : FHD@60fps

원격제어 실현
USB/UART over IP
WEB UI Configuration

Dynamic Map



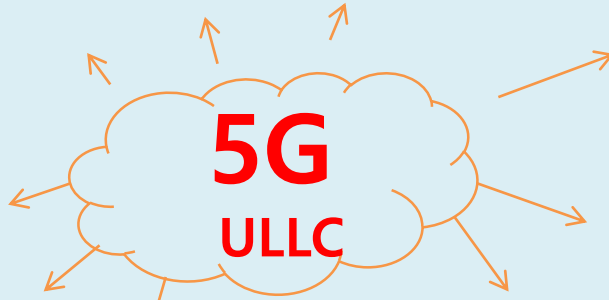
Drone



CCTV



건설기계/ 농기계



원격의료



자율주행차량



원격공연



AI



산업용로봇



4K 초저지연 영상 무선전송 (ULLC 4K AV over IP)

Wireless Video/Audio Real-Time Transmission

Transmitter

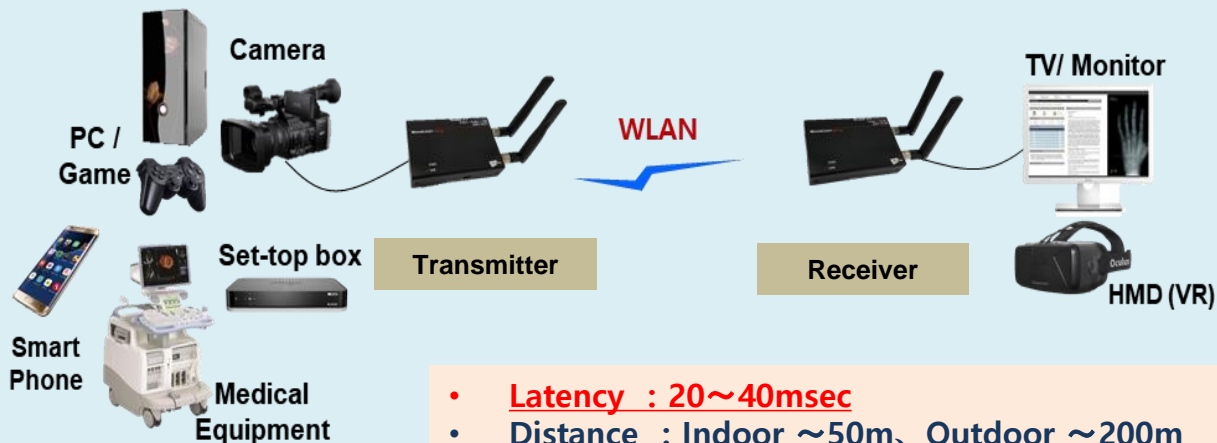
Receiver



[MonaLisa®-Verry Air]

Applications

- PC / GAME
- Digital Signage
- Set Topbox
- Medical Device
- Camera Broadcasting



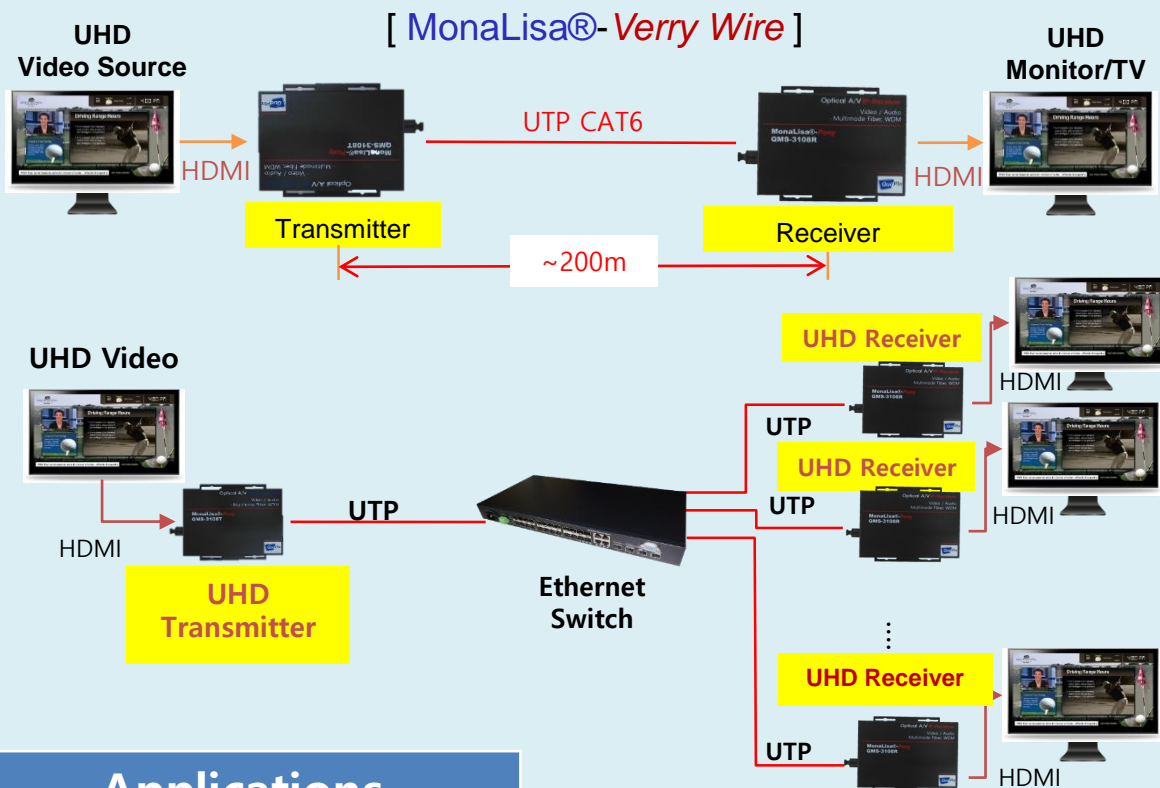
- Latency : 20~40msec
- Distance : Indoor ~50m、Outdoor ~200m
- Compact Size / Low Power
- WLAN : 802.11ac 5GHz
- Resolution - UHD (3840 x 2160)
- WEB UI - SSID、IP Address

Specifacation	QMS-3571A		Remark
	Transmitter	Receiver	
Input			w/ stereo audio
WLAN	5GHz (default)		802.11ac 2T2R
USB	1-port	1-port	Keyboard, mouse, VR
Power (DC)	12V/2A		
Power Consumption	15.4Watt	13.9Watt	Typical
Size (mm)	114(W) x 144(L) x 22.6(H)		



4K초저지연 영상 유선전송 (ULLC 4K AV over IP)

Wire Video/Audio Real-Time Transmission



Applications

- PC / GAME
- Digital Signage
- Set Topbox
- Medical Device
- Camera Broadcasting

- Resolution – Ultra-HD (3840x2160p)
- **Ultra low latency – 20~40msec**
- TCP/IP transmission (standard Ethernet)
- Multicasting – 1:N, 1:1
- Compact size (mm): To be customized
- Connection managed by GUI program
- IP addresses, grouping

Interface	QMS-3170T	QMS-3170R	Remarks
Video Interface			w/ stereo audio
Medium	UTP Gigabit Ethernet		TCP/IP network
Power Supply	12V/2A DC	12V/2A DC	
Power Consumption	13.0Watt	11.5Watt	Typical
Dimension (mm)	114(W) x 144(L) x 22.6(H)		