

Innovative Wireless Solution

X-OPTIK series **XOP-E3HMA**

Laser Optical Video Transmission System



What is XOP-E3HMA

XOP-E3HMA is a laser optical Video transmission system which is specially designed for elevator surveillance security system to solve the cabling and installation problems.

Rising of huge installation and cabling problems from elevators, CCTV security system uses existing cables, it will affect the safety operation of elevator.

In addition, unnecessary and additional maintenance and inspection costs occur.

XOP-E3HMA provides an attractive wireless video transmit solution for elevator at easy installation and low cost, replacing the coaxial cables and the others.



Why XOP-E3HMA

XOP-E3HMA has a lot of advantages and benefits as compared with coaxial cables and point-to-point RF/Microwaves.

Maintenance Free (No more cabling problems) • Max up to **990ft(300m)** Operational Distance

High quality image transmission (DVD quality resolution)

Real time Transmission

Semi-permanent life span

Quick and easy installation • Cost saving system on establishment and maintenance

Complete substitution • Compatibility with all existing CCTV and peripherals

No interference and no latency

No need for frequency license and fee

Comparison Table between Coaxial Cable and XOP-E3HMA

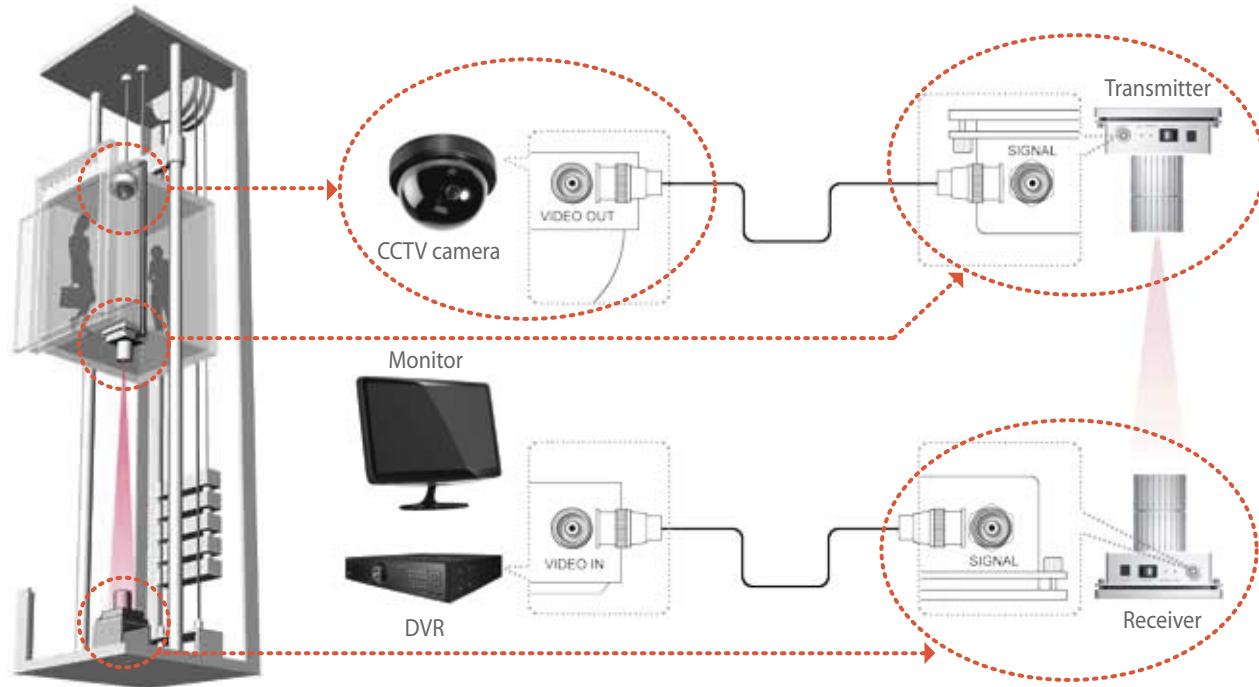
(Case Profile:40Floors High Rise Building/Internal Data)

	Conventional Coaxial Cable	XOP-E3HMA
Number of Installers	3	2
Hours of Installation	4	1
Maintenance & Repair Cost	<ul style="list-style-type: none"> Frequent cable damage from operation friction Regular maintenance check is required New cable wiring is necessary when there is cable damage.(Cable damage can occur every 8 month in average) High labor cost and elevator operation halt High material cost (need to use stranded types flex coaxial cable) Buildings higher than 40 floors need more installation & maintenance cost, troubles 	<ul style="list-style-type: none"> No Maintenance No repair Semi-Permanent life span No cost increases. Operation range up to 990ft(300m) height building
Troubles and safety	<ul style="list-style-type: none"> Cracking in coax cable causes intermittent video signal drops 	<ul style="list-style-type: none"> No cable-related problems.
Warranty	<ul style="list-style-type: none"> No Warranty 	<ul style="list-style-type: none"> 3-year warranty from date of purchase

Applications

XOP-E3HMA is a solution for wireless communication, and the most economical system for elevator CCTV in the market.

Wireless Solution for Elevator



References

Since 2006, thousands of XOP-E3HMA units have been installed for elevators in high rise corporate buildings and apartments in Korea. Major Korean elevator companies have started adopting XOP-E3HMA in their elevator CCTV applications.

High rise corporate Buildings

- Samsung Life Insurance Seocho Headquarter Building
- Samsung Group Namdamoon Headquarter Building
- POSCO Building
- LG Display Building in Gumi City
- LG Display dormitory Building in Gumi City
- Dong Kuk Steel Group Building
- Korea Investment & Securities Group Building
- Many small Company Groups' Headquarter Buildings

High rise Apartments

- Samsung Apartment
- GS Xi Apartment
- Hyundai I Park Apartment
- Doosan Apartment
- Woosung Apartment
- Sambu Apartment
- Kumho Richensia

Major elevator Companies based in Korea

- ThyssenKrupp Elevator Korea
- Hyundai Elevator
- Otis Elevator Korea



Samsung Life Insurance
Seocho Headquarter
Building



LG Display Building in
Gumi City



Samsung Apartment



GS Xi Apartment



Hyundai I park Apartment

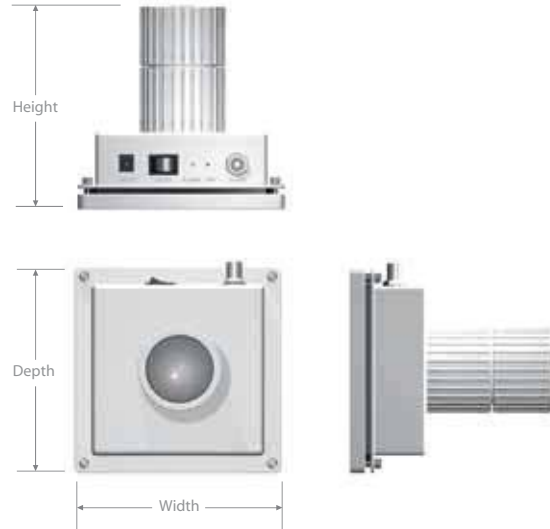


Kumho Richensia

Technical Specifications

Size and Weight

- Height : 5.6inches (143mm)
- Depth : 5.5inches (140mm)
- Width : 5.5inches (140mm)
- Weight : Transmitter 0.96lb (435g)
Receiver 0.96lb (435g)



In the Box



Transmitter



Receiver



Power Adapters



Bracket for Receiver

Electrical and Optical Data

Input Data	Video Format	CVBS 2Vp-p, 75ohm
Transmitter	Bit Error Rate Light Source Laser Wavelength Output Power Diameter Beam Divergence	<10 ⁹ inGaAlP Laser Diode 658 nm 30mW 50mm 22.5 mrad
Receiver	Detector Diameter Gain	Si APD 50mm > -45dBm
Power Supply	Input Output	AC100~240V(50~60Hz) DC12V, 1A
Operating Temperature		-4 ~ 158°F (-20 ~ 70°C)

***DANGER – AVOID DIRECT EYE EXPOSURE AVOID POINTING THE LASER AT PEOPLE OR AIRCRAFT**
Complies with FDA performance standards 1040.10 for laser products.



CE FC Made in KOREA

** Shape or specifications are subject to change without any notice to improve the quality of product.



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