

Long-range over IP video transmission for infrastructure inspection with industrial videoscope



Utilities & Resources

Case Study

Olympus Corporation

Japan



About Olympus

Olympus Corporation is a Japanese manufacturer of optics and reprography equipment and was established in 1919. Olympus recently developed a videoscope known as IPLEX GAir for use in pipe inspection applications in industrial locations such as petroleum and power plants. Olympus was looking for a solution that enables remote control and video transmission of the scope, which is inserted up to 30 meters to inspect long, complex pipes. Since there are only a limited number of engineers who can inspect these infrastructure facilities, Olympus needed a reliable method for inspecting remotely without going to the site.

Requirements

- Long-range over-IP video transmission to send image of the industrial videoscope to remote operators.
- Remote control for safe and efficient operation in hazardous locations.
- User-friendly solution that can be operated by workers without IT knowledge, enabling smooth on-site installation.
- Reliable local technical support if needed.

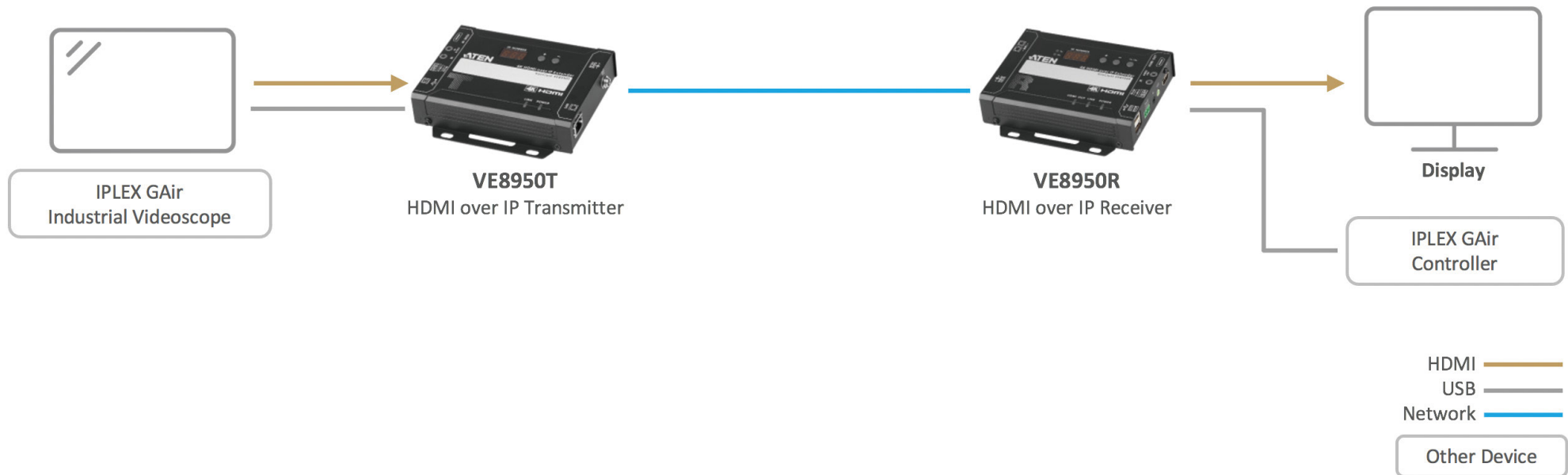


The image shows an ATEN 4K HDMI over IP Extender (VanCryst VE8950R) and an Olympus videoscope. The extender is a black rectangular device with a digital display showing '001' and 'ID NUMBER'. It has various ports including LAN, HDMI OUT, AUDIO OUT, IR, RS-232, and Tx/Rx. A red light indicates 'HDMI OUT' is active, a green light indicates 'POWER' is on, and a small red light indicates 'LINK'. A pink label 'K02-R' is attached to the bottom. The Olympus videoscope is a black handheld device with a lens, buttons for 'ZOOM', 'BRIGHT', and 'ANGLE / SPEED', and a 'PW OFF' button. A green circle highlights the 'Benefits' section.

Benefits

- **Remote Control with Superior Video Quality**
Combining the ATEN VE8950 with the videoscope allows it to be remotely operated and transmit video up to 4K with very little delay or degradation up to 100 meters.
- **No Complicated IP Setup, Easy to Use**
The ATEN VE8950 can easily be installed, even for those with little IT training, therefore reducing the hurdles for on-site installation.
- **Worldwide Presence, Local Reach**
ATEN's worldwide operations and domestic support (service system and technical capabilities) ensure that support can be provided as timely as possible.

Connection Diagram



Products

4K HDMI over IP Transmitter / Receiver

VE8950T / VE8950R

- Delivers visually lossless high-quality video up to 4K@30Hz 4:4:4
- Effortlessly switches via top panel pushbuttons
- Supports USB 2.0 to allow for connection of USB peripheral devices
- EDID Expert™ applies appropriate EDID mode for smooth video display
- Offers multi-functionality in extender, splitter, matrix switch, video wall and daisy chain applications





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