

For immediate release

## Fuji Xerox Launches the World's First Optical System for Simultaneously Transmitting 4K Video, Audio and LAN Communications Data

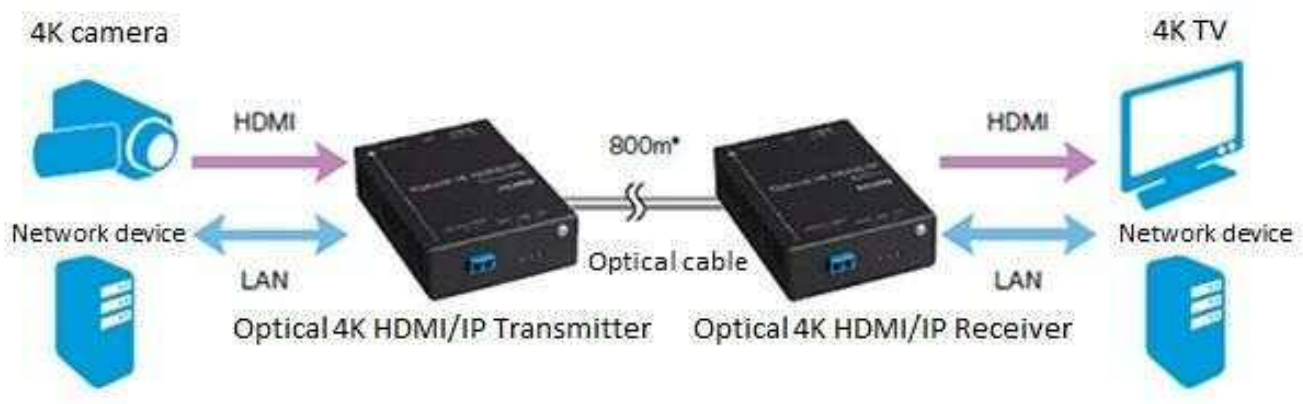
### Uses Proprietary Technology for Multifunction Printers to Expand the Horizons of Video Communication

TOKYO, April 7, 2015 – Fuji Xerox Co., Ltd. today announced the launch of the 4K HDMI/IP Optical Transmission System, the world's first system<sup>\*1</sup> enabling simultaneous transmission of 4K video, audio and 1000 BASE-T local area network (LAN) communications data over distances as long as 800 meters. Sales will begin in Japan on May 15.

Applying its [proprietary surface-emitting semiconductor laser technology called VCSEL<sup>2</sup>](#), which was originally developed for color multifunction printers, Fuji Xerox has realized the 800-meter simultaneous transmission of 4K video, audio, and LAN communications data through a fiber-optic data transmission technology.

Since 4K resolution is four times that of full high definition (full HD, or so-called 2K) and contains large volumes of data, the difficulty was in transmitting that volume over a long distance. Also, delays in transmission would occur if 4K video data with 30 frames per second were to be compressed. To meet these challenges, the 4K HDMI/IP Optical Transmission System converts high-resolution video data into optical signals without compressing it and transfers the data over a single optical cable, offering the capacity to transmit 4K video data without a single frame of delay.

Further, the 4K HDMI/IP Optical Transmission System is designed to meet the expected growing demand for optical video transmission equipment that can simplify the construction of high-resolution video systems because the ability to simultaneously support video, audio and LAN data reduces the cost of separate wiring for data transmission over LAN.



If used for touch panel digital signage, for example, the 4K HDMI/IP Optical Transmission System can send and receive 4K video data along with touch panel control signals via LAN, which would enable interactive video communication, serving as a novel solution that opens up new possibilities for video communication.

Potential applications include digital signage at train stations and airports or along streets, monitoring systems within factories, tablet-based active learning at educational institutions, surgical video sharing within hospitals, and many other scenes of communication.

With its advanced technologies, Fuji Xerox will continue to provide world-class solutions for new ways of communicating.

\*1: The world's first 4K HDMI certified equipment that can transmit HDMI signals over distances of 800 meters while supporting LAN (1000BASE-T) communications (as of March 31, 2015, based on survey by Fuji Xerox Co., Ltd.).

\*2: Vertical Cavity Surface Emitting Laser

List price of 4K HDMI/IP Optical Transmission System:

Product name	List price (excluding tax)
Optical 4K HDMI/IP Transmitter	598,000 yen
Optical 4K HDMI/IP Receiver	598,000 yen

Available market:

Japan

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