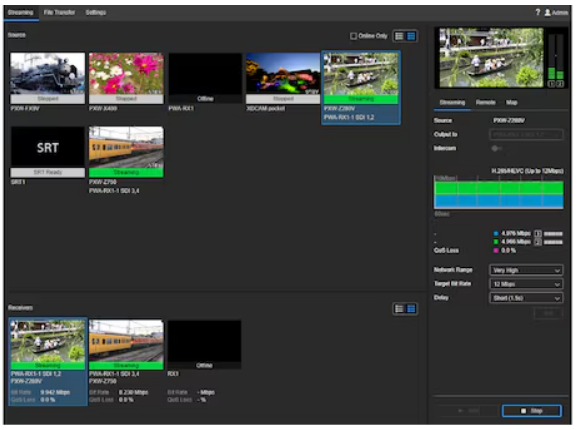
SONY

PWA-RX1

Network RX Station Application



Overview

Simple, robust and affordable live-streaming solution for broadcasting

PWA-RX1, the Sony network receiver application, is provided as a software. It can be installed on a server prepared by a customer. Depending on the configuration, it can accept live video and audio directly from a vast array of supported camcorders and adaptors via single or dual-link connections using cellular, Wi-Fi, or wired networks. Network RX Station Application delivers uncommonly high-quality HD streams.

Live-streaming from camcorders is very popular right now, and it's not hard to see why. News organisations want the fastest access to breaking stories and editors want to get the fastest possible head start on incoming footage. However, not all streaming technologies are created equal.

At the high end, satellite and microwave contribution work well — if you can afford the van, the antennas, and the operating costs. Low-end Wi-Fi-based solutions are good for providing pictures to an audience that might otherwise be left in the dark. Unfortunately, all too often, the video stream is marred by picture freezes, dropped frames, and macro blocking. That's why Sony developed advanced streaming with Quality of Service (QoS) for our PWA-RX1, the streaming receiver application. You get maximum performance at minimum cost.

Features

Stable live-streaming with Sony's QoS technology

Network packet loss during streaming can degrade image quality, cause image freezing, and disrupt the audio. Sony's Quality of Service (QoS) technology helps maintain video and audio integrity during transmission. Original Sony algorithms automatically optimise bandwidth and buffer size according to the transmission conditions. Technologies like real-time automatic repeat request (ARQ), adaptive rate control (ARC), and forward error correction (FEC) maintain signal integrity. You get high-quality streaming without the need for manual adjustments.

Cost-efficient live-streaming of 1080i and 720p over cellular, Wi-Fi or Wired Ethernet

The unit receives connections from multiple Sony-supported Camcorders and adaptors via cellular, Wi-Fi or wired Ethernet networks in a variety of broadcast formats, including 1080i and 720p. The system can handle live streams, each from 0.5–12 Mbps.

Direct streaming from a wide range of XDCAM camcorders, adaptors and cellphones

Supported camcorders use an USB cellular modem, Wireless LAN, or Ethernet connection, or even streaming from mobile application XDCAM pocket.

Remote file transfer

The PWA-RX1 allows users to remotely access proxy media within a supported camcorder or adaptor. The remote operator has the ability to execute a file transfer

from the camcorders or adaptor to an FTP server or cloud service of their choice.

Two simultaneous SDI output streams
Output up to two live streams of SDI for downstream systems such as a switcher or an ingest server. Multiple server units with installed PWA-RX1 can be grouped together to allow additional camcorder connections and SDI outputs, while using a single user interface.

Broadcast-standard connectivity
By combining PWA-RX1 with an SDI board provided by the customer, it becomes possible to connect it to the existing broadcast system.

Intuitive web-based management GUI
The Web-based management GUI software Connection Control Manager enables easy connection to camcorders and delivers efficient handling of live streams. The software presents a comprehensive GUI that can be used, for example, to view thumbnails from multiple camcorders, to control camcorder connections, transmission bit rates, and latency settings as well as monitor output from multiple servers with installed PWA-RX1.

Related products

PXW-Z280

World's first 4K Handheld Camcorder with 1/2-type 3CMOS with 4K 50p/60p recording capability, 12G-SDI, Dual Link Cellular capability, 17x zoom lens, advanced Face Detection AF

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