PWS-110RX1

Network RX Station for XDCAM
camcorders live streaming over
4G/LTE and Wi-Fi

Overview

**Wireless solution offers high-quality live
streaming at low cost**

The PWS-110RX1 network RX station is an advanced system for
cost efficient live streaming video and audio direct from XDCAM
camcorders using 4G/LTE and Wi-Fi networks. The PWS-110RX1
uses Sony's unique QoS (quality of service) technology or
MPEG2-TS to maintain video and audio integrity during
transmission. Each PWS-110RX1 unit can simultaneously control
two SDI outputs: these can be used to live stream from two
locations at the same time. Multiple systems can be added for
greater input and output loads. The unit includes reference and
timecode input connectors, which enable synchronised
operation with broadcast systems. In addition, it can output in a
variety of broadcast formats, including 1080i. The PWS-110RX1
system comes with preinstalled Connection Control Manager
software that enables easy connection to camcorders and
delivers efficient handling of the live streams. The system works
with a 4G/LTE or Wi-Fi[*1] dongle, or with the CBK-WA100 and CBK-
WA101 wireless LAN adapter[*2]. The PXW-X180, PXW-X200 and
PXW-X500 camcorders have built-in live streaming version
upgrades[*3]. As well as live streaming, a planned upgrade will
allow the unit to receive files transferred direct from
camcorders.[*4]

*1 CBK-WA02 wireless LAN adapter launch expected May 2015.
*2 CBK-WA100 and CBK-WA101 firmware upgrade expected June 2015.
*3 PXW-X180 upgrade scheduled for autumn 2015. PXW-X200 upgrade scheduled for June 2015. PXW-X500 upgrade scheduled for autumn 2015.
*4 Requires version upgrade expected Autumn 2015.

Cost efficient live streaming of 1080i over 4G/LTE or Wi-Fi

Live streaming video and audio direct from XDCAM camcorders using 4G/LTE and Wi-Fi networks in a variety of broadcast formats, including 1080i

High quality Sony's QoS ensures no lost video or audio

Sony's unique QoS (quality of service) technology or MPEG2-TS to maintain video and audio integrity during transmission.

Direct streaming from XDCAM camcorders

The system works with a 4G/LTE or Wi-Fi*1 dongle, or with the CBK-WA100 and CBK-WA101 Wireless Adapter*2. The PXW-X180, PXW-X200 and PXW-X500 have built-in live streaming version upgrades*3.

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SDI outputs

Two SDI outputs on each unit allow you to manage two separate streams in and out. Multiple units can be used together to increase capacity.

Features

Cost efficient live streaming of 1080i over 4G/LTE or Wi-Fi

Live streaming video and audio direct from XDCAM camcorders using 4G/LTE and Wi-Fi networks in a variety of broadcast formats, including 1080i. The system can handle live streams up to a maximum of 5 Mbps.

Direct streaming from XDCAM camcorders

The system works with a 4G/LTE or Wi-Fi*1 dongle, or with the CBK-WA100 and CBK-WA101 XDCAM camcorders wireless LAN adapters*2. The PXW-X180, PXW-X200 and PXW-X500 have built-in live streaming version upgrades*3. The upgrades allow operators to check PWS-110RX1 connection status directly from the camcorder's viewfinder, enabling more efficient operation.

*1 CBK-WA02 wireless LAN adapter launch expected May 2015.
*2 CBK-WA100 and CBK-WA101 firmware upgrade expected June 2015.
*3 PXW-X180 upgrade scheduled for autumn 2015. PXW-X200 upgrade scheduled for June 2015. PXW-X500 upgrade scheduled for autumn 2015.

Two SDI outputs on each unit for dual live streams

Each PWS-110RX1 unit can simultaneously control two SDI outputs: these can be used to live stream from two locations at the same time. Multiple units can be used together to increase capacity.

Connection Control Manager software for efficient system management

The Connection Control Manager software enables easy connection to camcorders and delivers efficient handling of the live streams. The software is preinstalled on the PWS-110RX1 and 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; and to

monitor output from multiple PWS-110RX1 units.

Sony's unique QoS technology
The PWS-110RX1 uses Sony's unique QoS (quality of service) technology or MPEG2-TS to maintain video and audio integrity during transmission. Packet loss during streaming can degrade image quality, cause image freezing and disrupt the audio. Sony's QoS (quality of service) technology helps maintain video and audio integrity during transmission. The PWS-110RX1 comes with original Sony algorithms that automatically adjust bandwidths and buffer sizes to match the characteristics of the wireless transmission. Users can be confident of high-quality streaming without concerning themselves with bandwidth settings and other technical issues. In particular, the PWS-110RX1 includes Real-time ARQ (automatic repeat request), adaptive rate control (ARC) and forward error correction (FEC).

Related products

CBK-WA100

Wireless adapter for Camcorders and Decks [Mobile network 3G / 4G / LTE /Wireless LAN]

CBK-WA101

Wireless adapter for PMW-400 and PXW-X320 [Mobile network 3G / 4G / LTE /Wireless LAN]

Gallery