JPEG XS IP Gateway

CD-5550 NEW

ASTRO

This device is an IP Gateway that supports JPEG XS encoding/decoding.
It is equipped with a mode in which 4K/8K video input by SDI is encoded by JPEG XS, packed in RTP and transmitted, and a mode in which JPEG XS data is extracted from the received RTP and the decoded video is output by SDI.
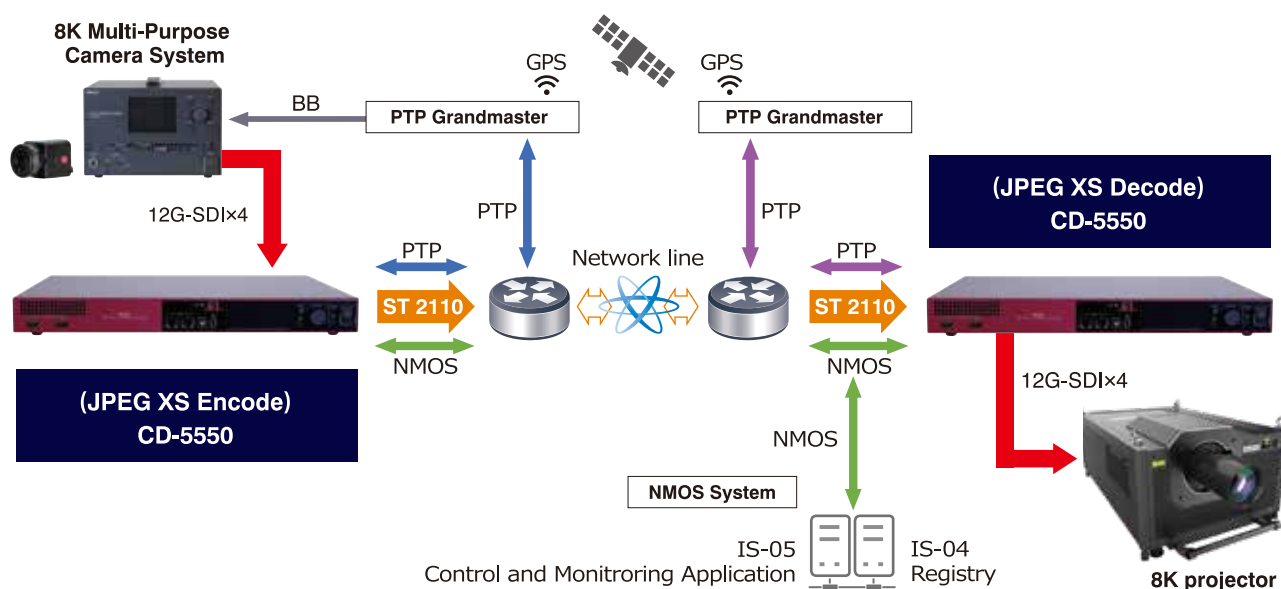
Main Function

- Supports JPEG XS compression
  - Visual lossless and Low Latency
  - Compression rate 1/5 to 1/16
    [Approximately 8Gbps to 2.5Gbps at 8K/60p]
- 12G-SDI×4 input/output [At 8K/60p]
  (Switch between encode mode/decode mode)
- Equipped with 10GbE×2
  (Compatible with SFP + transceivers)

- Compliant with SMPTE ST 2110 standards
  - Compliant with SMPTE ST 2110-21/-22/-30/-40
  - Compliant with SMPTE ST 2059-1/-2 and can be operated with Best Master Clock
  - Line redundancy is possible with SMPTE 2022-7 (Hitless)
  - Supports LLDP/DHCP/DNS/NMOS/SDP and automates settings and operations
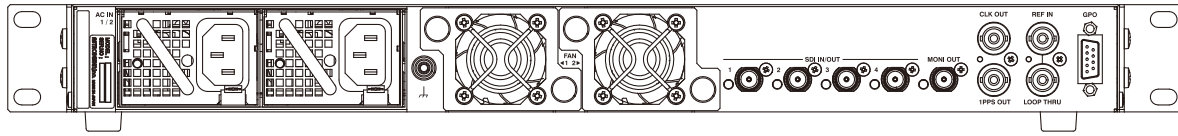 - IPv4 multicast support

For Such Uses

- Live viewing
- Remote production
- Video transmission at medical-related academic societies

Connection Example

8K Multi-Purpose Camera System

BB

PTP Grandmaster

GPS

GPS

PTP Grandmaster

(JPEG XS Decode) CD-5550

12G-SDI×4

PTP

PTP

Network line

PTP

PTP

ST 2110

ST 2110

(JPEG XS Encode) CD-5550

NMOS

NMOS

12G-SDI×4

NMOS

NMOS System

IS-05
Control and Monitroring Application

IS-04
Registry

8K projector

Rear view

Specifications

Items	Specifications
IP-Enabled Interface	SFP + 2 System（1 system is redundant output）
IP-Enabled Protocol	System ：SMPTE ST 2110-10 Video ：SMPTE ST 2110-21／-22 Audio ：SMPTE ST 2110-30 Ancillary ：SMPTE ST 2110-40 Redundancy ：SMPTE ST 2022-7
Video Compatible Interface	12G-SDI×4（At 8K）
Video Compatible Format	8K／60p （59.94p）［12G-SDI×4］ 4K／60p （59.94p）［12G-SDI×1］ 4K／120p（119.88p）［12G-SDI×2］
IP Synchronization	SMPTE ST 2059-1／-2（BMC operation when using IP2 system）
External Syncronization	Black burst（BB）HD3 value sync
Discovery／Registration／Control	Supports NMOS IS -04／-05 DHCP／LLDP／DNS
Security	AMWA NMOS BCP 003 01, 02
GPO	D-sub 9 Pin凹Connector For contact output
Power Requirements	AC100-240V duplication
Dimensions	430(W)×44(H)×470(D)mm (Excluding Protrusions)