

CaptionCast



Configuring Hardware and Communication Connections

Version 1.1
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MEDIA GROUP
CAPTIONS, SUBTITLES, DUBBING
CLOUD, DIGITAL FINGERPRINT



1. Hardware overview
2. Diagram
3. Sample connection
4. Support contact

1. Front Panel

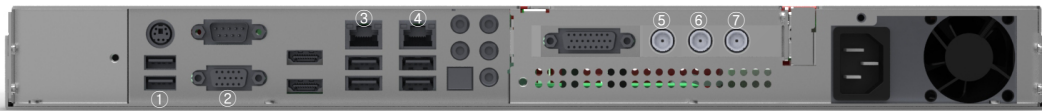
CaptionCast TX, CaptionCast GX



1. **Subtitle** : Blue lights turn on periodically when subtitles are cued.
2. **Audio Finger Print** : Indicates the status of audio input from SDI.
(Blue : Audio detected, Red : No audio input via SDI)
3. **Internet Status** : Indicates Internet connection.
(Blue : Internet detected, Red : No Internet connection)
4. **Power Switch** : Use a pen or narrow pointed tool to activate switch.
Press and hold for 5 seconds to turn off.
5. **HDD** : SSD drive status.
6. **Power** : Blue light indicates the system is turned on.

2. Rear Panel

CaptionCast TX - 1ch



- ① **USB Port for keyboard**
- ② **RGB video port**
- ③ **Ethernet A** (for 3rd Party H/W)
- ④ **Ethernet B** (for Internet)
- ⑤ **SDI video output** (standard BNC) : Optional, when using the built-in subtitle/caption encoder
- ⑥ **SDI video input** (standard BNC) : Must input the SDI that includes audio to be detected
- ⑦ **SDI reference input** (standard BNC) : Optional

CaptionCast TX - 4ch



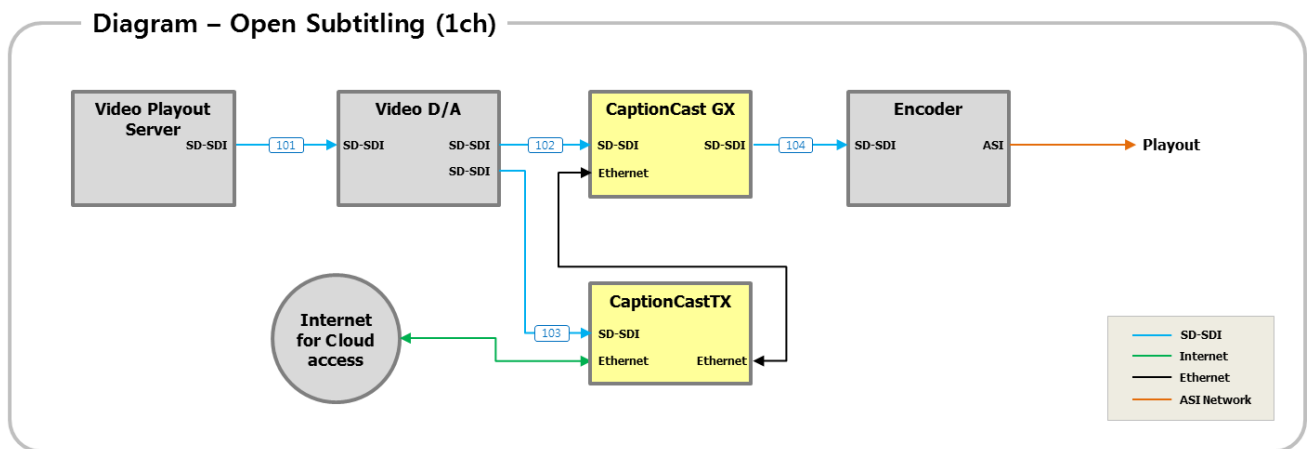
- ① **USB Port for keyboard**
- ② **RGB video port**
- ③ **Ethernet A** (for 3rd Party H/W, or Network Switch)
- ④ **Ethernet B** (for Internet)
- ⑤ **SDI video input - Ch1** (micro BNC) : Must input the SDI that includes audio to be detected
- ⑥ **SDI video input - Ch2** (micro BNC) : Must input the SDI that includes audio to be detected
- ⑦ **SDI video input - Ch3** (micro BNC) : Must input the SDI that includes audio to be detected
- ⑧ **SDI video input - Ch4** (micro BNC) : Must input the SDI that includes audio to be detected

CaptionCast GX



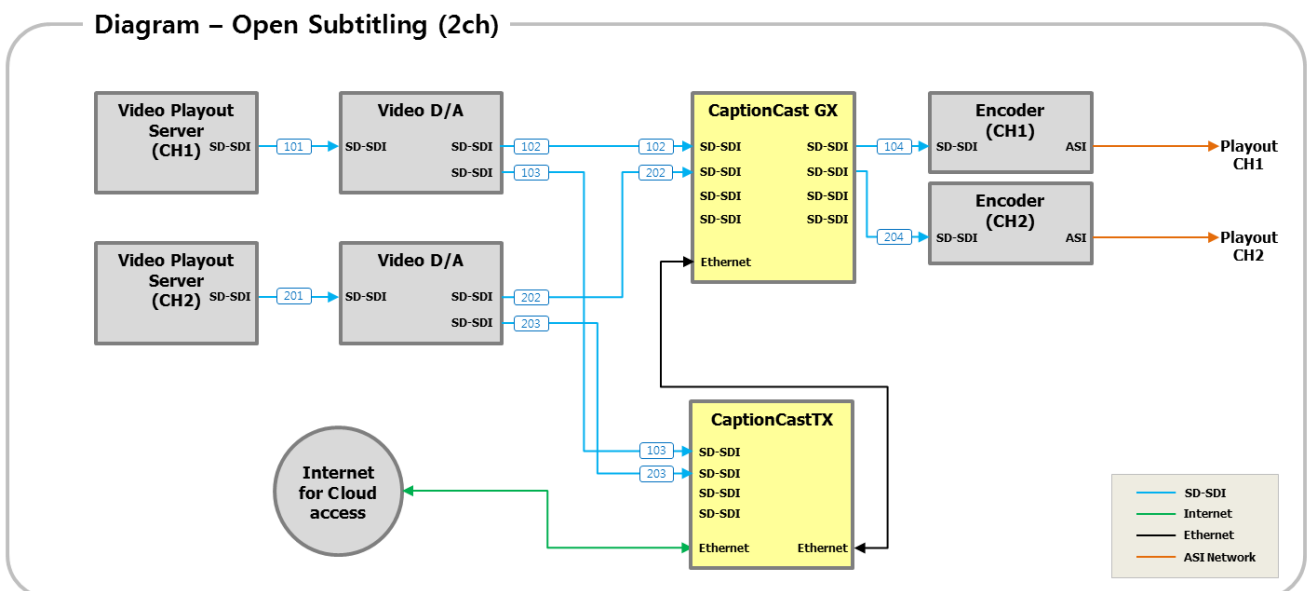
- ① **USB Port for keyboard**
- ② **RGB video port**
- ③ **Ethernet A** (Connect to CaptionCast TX)
- ④ **Ethernet B** (Optional)
- ⑤ **SDI video output** (micro BNC) : Bypass relay, when using the built-in subtitle/caption encoder (SD-SDI)
- ⑥ **SDI video input** (micro BNC) : Video input (SD-SDI)
- ⑦ **SDI reference input** (micro BNC) : Optional

1. For SD open subtitle (Burn-in) – CaptionCast GX (Single channel)



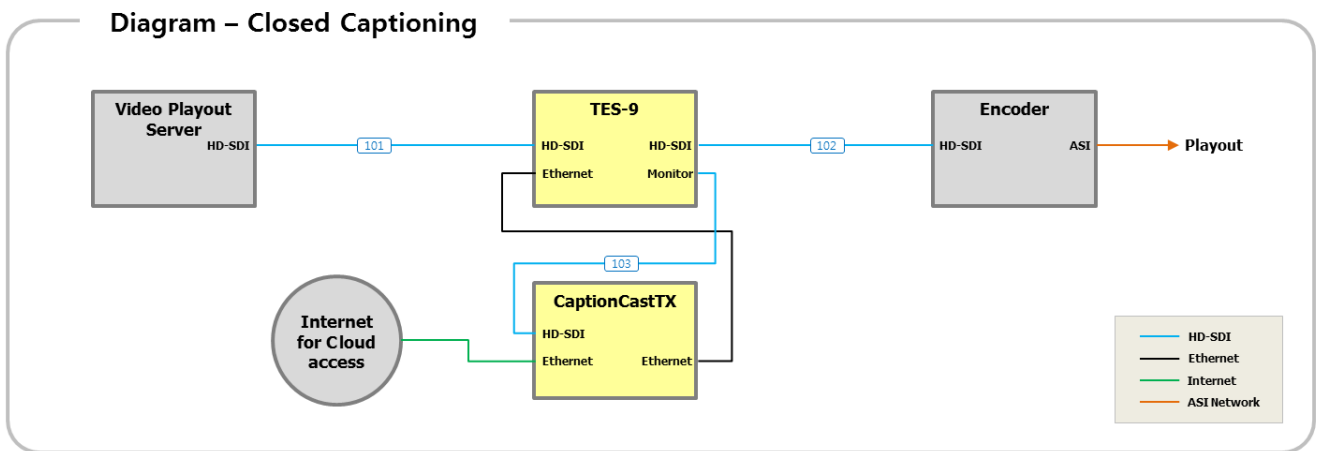
- # To set up a single channel, distribute output signals of Video Server via Distribution Amplifier and input the distributed signal to GX / TX.
- # Video signal then go through CaptionCast GX, and output video signal with embedded subtitles.
- # SD-SDI output port of CaptionCast GX has Hardware Relay bypass on power down.

2. For SD open subtitle (Burn-in) – CaptionCast GX (Multiple channel)



- # For multi-channel, distribute output signal of each channel with Distribution Amplifier and input the distributed signal to GX / TX.
- # Video signal then go through CaptionCast GX, and output video signal with embedded subtitles. (GX or TX hold up to 4 channels)
- # SD-SDI output port of CaptionCast GX has Hardware Relay bypass on power down.
- # The current version of CaptionCast GX is for SD, and HD version will be released later.

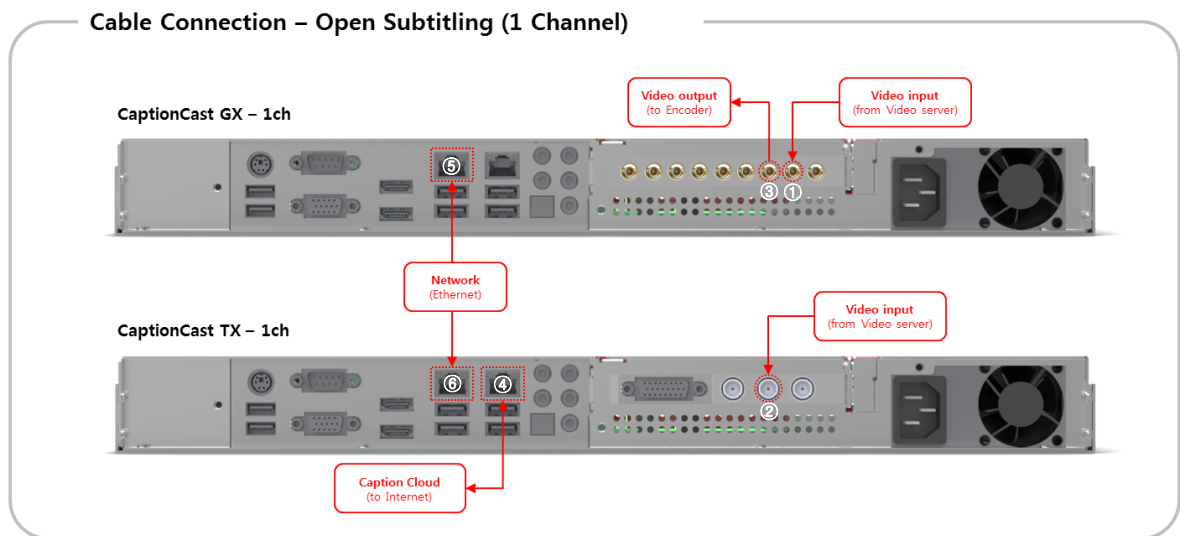
3. For SD/HD Closed captioning – CaptionCast TX and TES-9 (RossVideo)



- # Connect output signal of Video Server to HD-SDI input signal of TES-9.
- # Connect TES-9's monitor output and CaptionCast TX's input for extract fingerprint from HD-SDI.
(Can use Video D/A instead of using TES-9's MON output)
- # TES-9 inserts the caption data received from CaptionCast TX to VANC area of HD-SDI signal that is passed through concurrently.
- # Connect Internet to Ethernet Port of CaptionCast TX to access Cloud.
- # HD-SDI output port of TES-9 has Hardware Relay bypass on power down.

1. For SD open (Burn-in) subtitle – 1 Channel

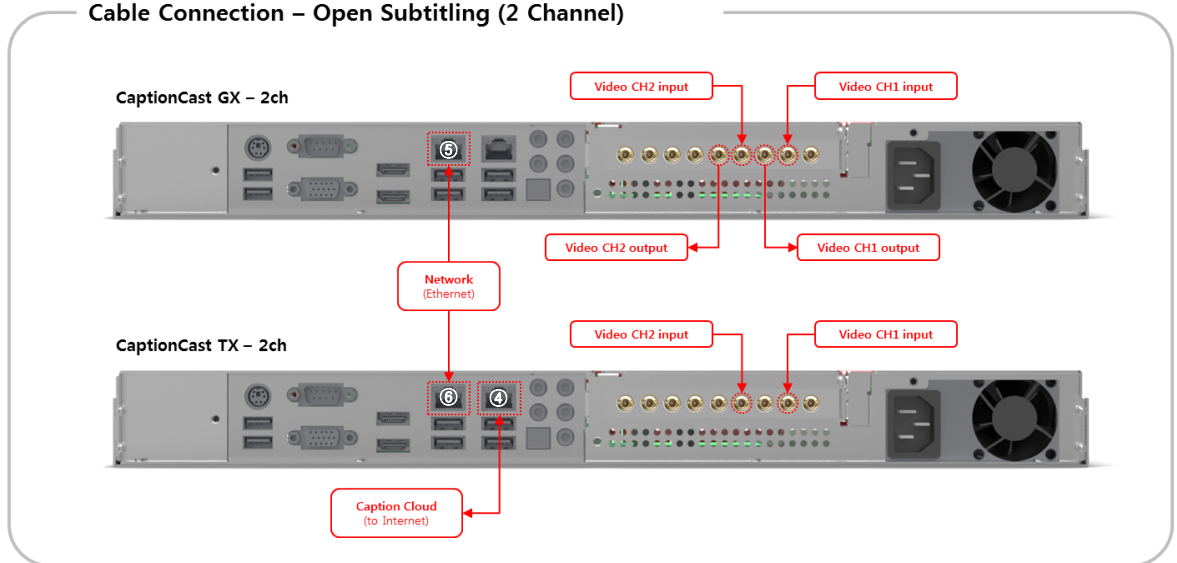
- Connect the identical signal outputted from Video server to ① and ②.
(For connection port, use micro BNC cable for GX and standard BN cable for TX.)
- Output signal of CaptionCast GX with embedded subtitles is outputted through ③. Connect this signal to either video switch or Encoder, depending on the existing Broadcasting Network. (For connection port, use micro BNC cable)
- Connect internet signal to ④. (For connection port, use standard RJ45 connector.)
- Connect ⑤ and ⑥ of GX and TX with ethernet cable. (For connection port, use standard RJ45 connector.)



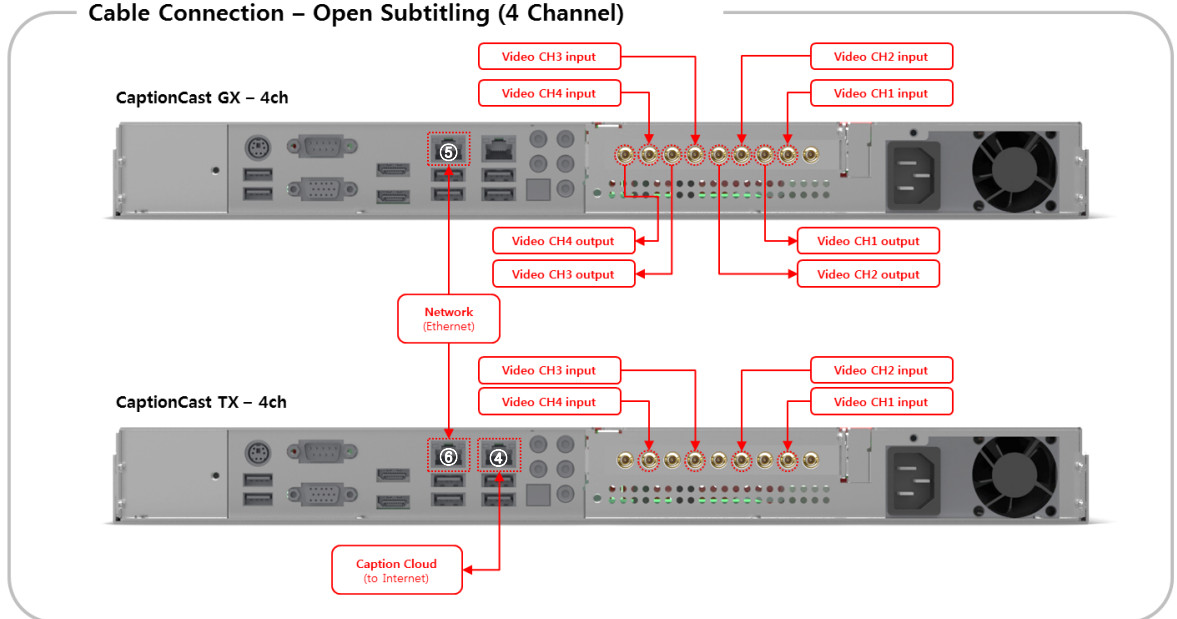
2. For SD open (Burn-in) subtitle 2 ~ 4 Channel

- a. When connecting to multiple channels, the basic components are identical to those of single channel.
- b. Connect each channel's video input signal (from Video Server) and output signal (to Encoder). Use Micro BNC cable for both GX and TX.
- c. Connect Internet signal to ④. (For connection port, use standard RJ45 connector.) Using one Internet line for access can be used for multiple channels.
- d. Connect ⑤ and ⑥ with ethernet cable for transmission of GX and TX. (For connection port, use standard RJ45 connector.) Like with internet, one line of network can be used for multiple channels.

Cable Connection – Open Subtitling (2 Channel)

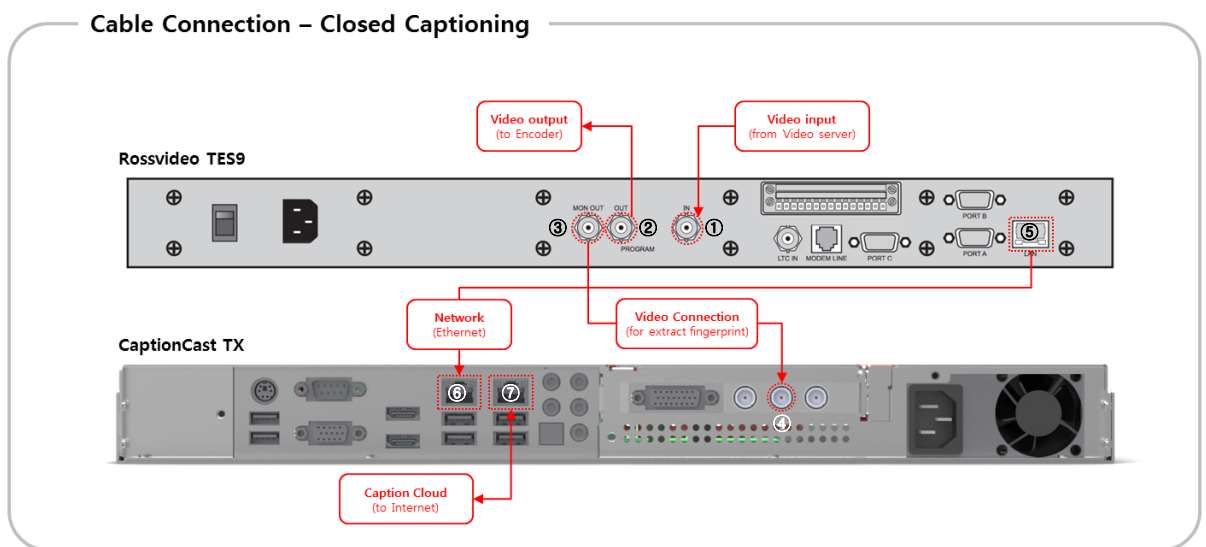


Cable Connection – Open Subtitling (4 Channel)



3. For closed caption (708, 608)

- a. Use TES-9 of Rossvideo to insert Closed Caption.
- b. Connect signal outputted from Video Server to ①. (For connection port, use standard BNC cable.)
- c. Output signal of TES-9 with embedded caption will be outputted through ②. Connect this signal to either video switch or Encoder, depending on the existing Broadcasting Network. (For connection port, use standard BNC cable)
- d. Connect ③, TES-9 Monitor output signal, and ④ of TX to extract fingerprint. (Can use Video D/A instead of using TES-9's MON output)
- e. Connect ⑤ and ⑥ with ethernet cable for transmission of TX and TES9. (For connection port, use standard RJ45 connector.)
- f. Connect Internet signal to ⑦. (For connection port, use standard RJ45 connector.)



1. Support contact

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