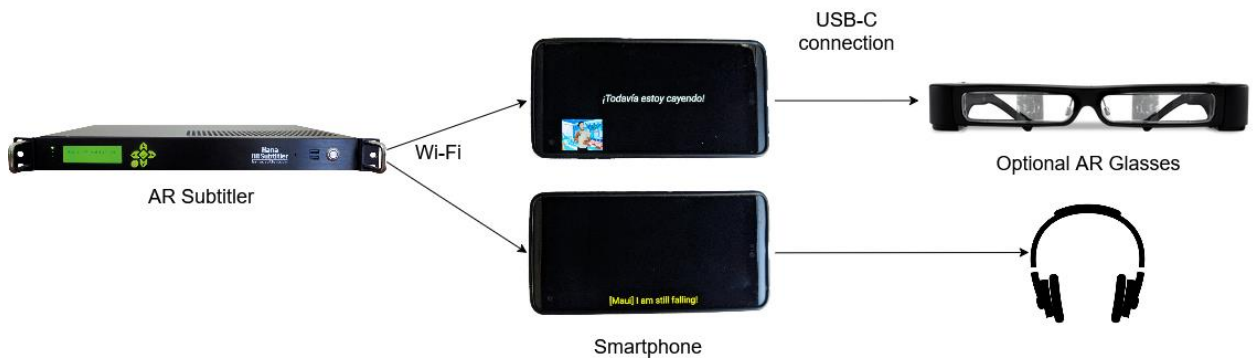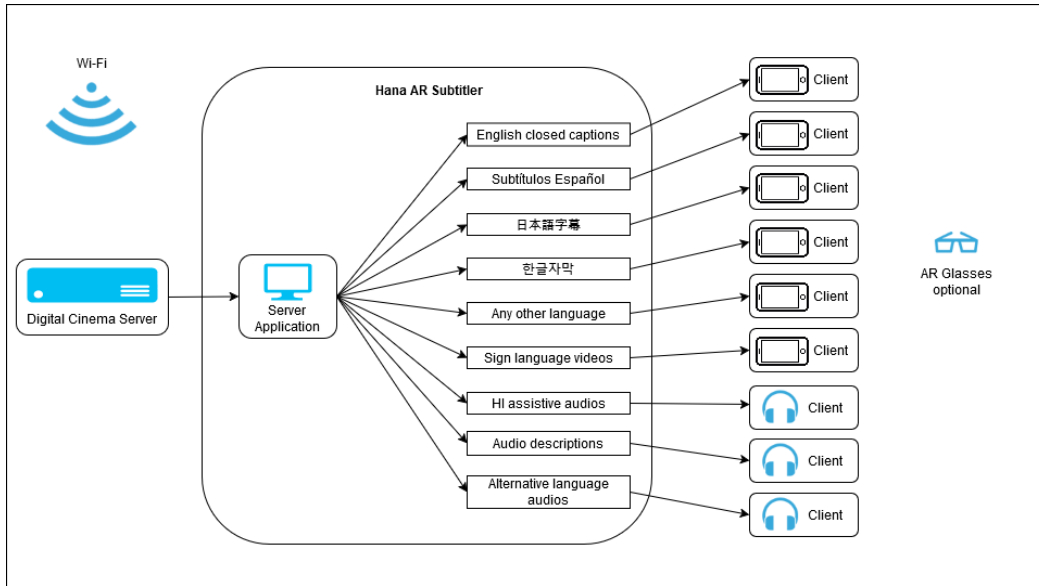# Hana-MIT Assistive Movie Viewing System

Main Features

- A single transmitter streams perfectly synchronized assistive contents to personal smartphones via dedicated intranet Wi-Fi. Patrons can select playback modes and languages of
    - Closed Captions
        - o Can be colored for better comprehension
        - o Font size and location can be adjusted in real time
    - Audio Descriptions
    - Multilingual Subtitles, including all non-alphabet languages
    - Multilingual Dubbing
    - HI Assistive Audios
    - Sign Languages
- Downloading copyrighted movie files in advance on personal devices is not required. For further copyright protection, 256-bit AES encrypted assistive features are streamed in real time, momentarily decrypted for playback, and deleted immediately after playback. And the camera function is to be disabled while the phone is in use for assistive contents.
- No dead spots in an auditorium and no restrictions for seat choices by patrons.
- No interruptions of assistive contents by movement of people or usual noises of movie theaters, such as laughter, clapping, etc.
- By utilizing commonly available electronics, the system is both user-friendly and affordable.
- Does not interfere with other patrons' movie viewing experiences.
    - No flickering or light leakage from captioning devices
    - Smartphone speakers are muted while in use
    - Earphones are needed to hear AD, HI assistive audio, and dubbing
- Supports all digital and analog movie formats, including 70mm IMAX and drive-ins.
- Use of AR glasses for CC, subtitles, and sign languages.

Quick guide to select or change playback modes and languages

Press the smartphone screen for 3 seconds and click the three-dot (hamburger) button in the upper right corner.

- Resync
- Subtitle Location
- Font Size
- Settings

Click the Settings menu to select or change

- Screen number/IP
- Playback modes
- Languages of playback modes

After selections or changes are made, press the triangle button on the side to start.