

Challenge :

The requirement is for a speech system for a lecture room with below mentioned features.

- MIC system should be wireless
- Wireless mic should include volume control and mute option
- Long battery life for a single full charge
- Availability of table stand for mic

Solution :

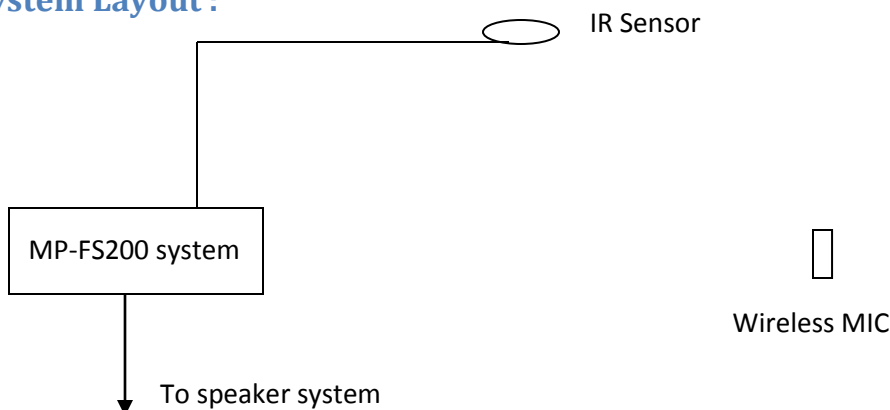
System description :

Crestron® FreeSpeech® systems provide a very simple and affordable solution for adding speech reinforcement as part of a complete classroom media presentation system. The MP-FS200 PAK system includes two wireless microphones to support two instructors, or one instructor and an additional participant. The microphones are compact and lightweight, affording reliable and hassle-free operation. Simply remove the mic from the tabletop charger, press the ON button, and go. It can be clipped to a lapel, hung around the neck, or placed in a tabletop stand.

Advanced FreeSpeech RF/IR wireless technology ensures consistent performance with complete freedom of movement — and minimized risk of noise or feedback. An infrared "beacon" signal prevents interference between multiple FreeSpeech systems in adjacent rooms, and even shuts the mic off automatically if the instructor leaves the room with the mic on.

Built-in amplification provides everything needed to drive a set of speakers, and even allows for the connection of a DVD player, computer, or other program audio sources. Complete operation is afforded via buttons built into each wireless mic, including independent volume adjustment for the speech and program signals.

System Layout :



System proposed :

Crestron MP-FS200 PAK system



Features :

- An easy-to-use, highly-reliable speech reinforcement solution
- Includes two wireless mics, charger, and receiver
- One-piece wireless microphone is incredibly small and light
- Includes an integral magnetic lapel clip and lanyard for unobtrusive wear ability
- Includes one tabletop mic stand
- Affords full operation via buttons built into each mic
- "Alert" button allows for triggering an electronic or audible signal in case of an emergency
- Advanced combined RF/IR wireless technology ensures trouble-free performance
- IR "beacon" signal prevents interference with adjacent rooms, and mutes the mic automatically if the instructor leaves the room with the mic on
- 2.4GHz RF technology with "error recovery" minimizes noise and feedback
- Long-life Lithium-Ion battery lasts 6 hours on a single charge
- Full frequency response delivers natural speech reinforcement for all users
- "Automatic Gain Control" maintains consistent speech levels
- Receiver with built-in 30 Watt stereo amplifier drives one or two pairs of speakers
- Line output enables connection to an external amplifier or video projector

- Two stereo line inputs provide amplification for a DVD player, laptop computer, or other program sources
- Speech and program audio signals are independently adjustable via a control on the wireless mic
- "Ducking" feature automatically turns down the program source whenever the instructor speaks
- Built-in master volume, bass, and treble adjustment helps optimize the overall sound quality
- High-efficiency, energy-saving design minimizes power consumption during operation and while idle