



SNS COLLEGE OF ENGINEERING
(Autonomous)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



190E107 – CONSUMER ELECTRONICS



Digital Console





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Digital Console

- A digital console, primarily used in audio mixing
- It works by converting analog audio signals into digital data, allowing for extensive processing and manipulation of sound using a computer-based interface
- users can adjust various parameters like volume, EQ, dynamics, and effects through a combination of physical controls (like faders and knobs) and a touchscreen, more flexibility and control than traditional analog consoles.





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how a digital console works

- Input Stage
- Channel Processing
- Mixing Busses
- Digital Signal Processing (DSP)
- Control Surface
- Scene Recall
- Monitoring





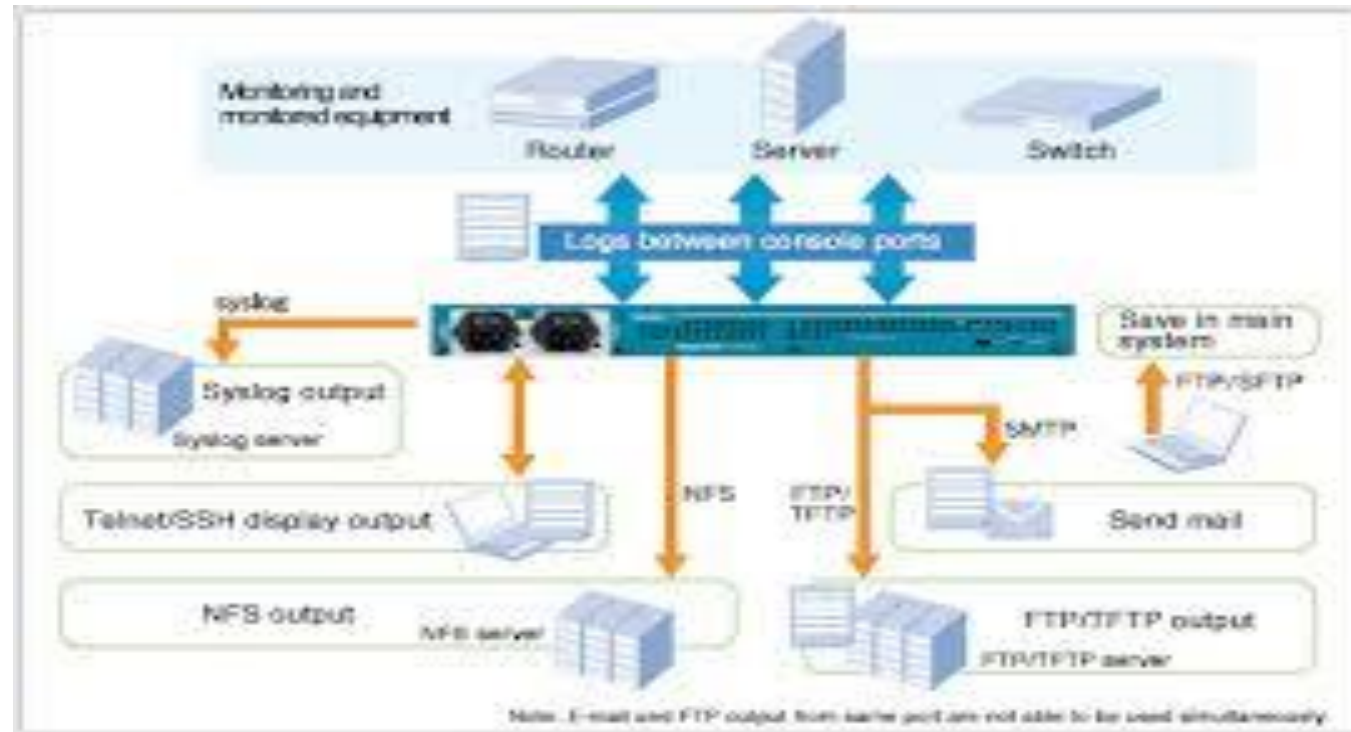
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how a digital console works





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Benefits of digital consoles

- **Precision Control:** Precise adjustments to audio parameters with high resolution.
- **Flexibility:** Ability to easily route signals, apply different effects, and customize channel processing.
- **Recall Functionality:** Store and quickly recall complex mixing setups
- **Automation:** Automate volume changes and other parameters for consistent sound throughout a performance





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Applications of digital console

- The Digital Console System meets a range of professional demands in the public safety transportation, utility and private industry sectors.
- Specific applications include mobile command, small control rooms and TETRA fallback systems.





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Other considerations

- CDs are fragile and prone to scratches.
- The technology was key to the development of computing and many other use cases for the last few decades.





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Thank
you

