

ELV IP Network PA System Controllers & Consoles

Flexible, Scalable, and Redundant Control for Modern IP PA Systems



The **ELV IP2100 Series** and **ST2100/IP Consoles** form the core of a decentralized, multi-redundancy IP Public Address system. Built on reliable Intel N4020 processors and featuring intuitive touch screen interfaces (7", 8", or 9"), these units provide powerful control over system configuration, zoning, scheduling, audio streaming (RTP/RTSP), event logging, and user interaction. The decentralized architecture means adding more consoles increases system redundancy. Choose the model best suited for central control, local interface, or dedicated paging functions.



Key Features

- **Decentralized Control:** System operates even if one console fails; adding consoles enhances redundancy.
- **Intuitive Touch Interface:** Capacitive touch screens (various sizes) for easy system operation and configuration.
- **Comprehensive Logging:** Records system events and configuration changes for audit trails.
- **Flexible Zoning & Scheduling:** Customizable groups, complex schedules, and priority levels for sophisticated control.
- **Integration Ready:** RS485 port (especially on IP2100/8, ST2100/IP) for controlling peripherals like ST2212 zone decoders; potential for fire alarm interface (IP2100/8).
- **Powerful Processor:** Intel N4020 Quad Core with 3GB RAM, 64GB SSD ensures smooth operation.
- **Multi-Functionality:** Supports live voice announcements (via mic), pre-recorded audio file playback, and text-to-speech.
- **Redundant Power Options:** Most models support Power over Ethernet (PoE) and/or 12V DC input.
- **Advanced Networking:** Gigabit Ethernet, Wi-Fi, Bluetooth; supports RTP/RTSP streaming over UDP/TCP with HTTP authentication.

Applications

Command and control centers for large PA/VA systems across multiple buildings or sites, such as transportation networks, university campuses, hospitals, large industrial complexes, and government facilities requiring scalable, reliable, and feature-rich networked audio communication.

System Compatibility

- **Zone Decoders:** IP2100/8 and ST2100/IP can directly control ST2212 4-Zone Decoders via RS485.
- **Emergency Systems:** Integrates with RP2832 Emergency Recorder/Player over the network (TCP/IP).
- **Amplifiers:** Controls audio routing to amplifiers (e.g., A-XXXXD series) via connected decoders/interfaces.
- **Fault Monitoring:** Can potentially monitor AF8000 status via RS485 (requires software support).
- **Network:** Requires standard Ethernet network infrastructure (switches, cabling).

Technical Specifications

Specifications*	IP2100/7	IP2100/8	IP2100/9	ST2100/IP (7")
Description	Network Console	Interface Controller/Local UI	Network Console (Large Screen)	Paging Console
Display	7" (1280x800)	8" (1200x800)	9" (1920x1200)	7" (1280x800)
RS485 Zones	Network Control	Up to 512 Zones	Network Control	Up to 256/512 Zones
Audio I/O	Speakers, USB Mic	Speakers, Ext Audio I/F, Opt Mic	Speakers, USB Mic	Speakers, Built-in Mic
Connectivity	GigE, WiFi, BT, USB, RS485	GigE, WiFi, BT, USB, Ext RS485	GigE, WiFi, BT, USB, RS485	TCP/IP, WiFi, BT, USB, RS485
Power	PoE / 12V DC	PoE / 12V DC	PoE / 12V DC	12V DC

*Specifications are subject to change without prior notice

Ordering Informations

Model No.	Description
IP2100/7	Network Console
IP2100/8	Interface Controller/Local UI
IP2100/9	Network Console (Large Screen)
ST2100/IP (7")	Paging Console