

Series Voice Security Intercom System

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150



safe<mark>&</mark>sound

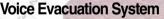
Creating today's ideal security.

Security in various environments is more essential than ever. From office buildings to shopping malls, airports, car parks and garages to institutional facilities such as schools and college campuses, hospitals and medical centers, industrial and correctional facilities to hotel and high rise residential buildings to senior citizen homes — the list grows daily while the reason stays the same to ensure security and time-critical communications on a 24/7 basis. TOA technology can protect lives and property, maintain health and safety as well as enhance organizational efficiency and productivity. TOA uses its accumulated expertise and knowledge gained over a half century plus in sound and public address, security and surveillance (CCTV) technologies to offer cost-effective and totally dependable solutions that fulfill all your communication and security requirements to always keep you "Safe & Sound."



Meet the TOA VS-900 **Voice Security** Intercom System.

The VS-900 represents significant value for any security system. Its comprehensive audio capabilities including an advanced voice communications system integrate seamlessly with existing security and video surveillance systems to provide a significantly higher level of security for you.



VS-900

Access Control System Security Equipment

Video Surveillance System

System features

Manage the system from on- and off-site locations.

Through the built-in industry-standard RS-232C port, the VS-900 can be conveniently programmed and administered from any location, even offsite via modem. System software can also be easily upgraded, increasing the operational and service life of the system and overall functionality.

Useful data logging.

The VS-900 is equipped with a second RS-232C port that connects to a computer so that events can be automatically logged at each exchange.

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Efficient voice recording. At each master station, the VS-900 enables automatic recording of calls that provide a useful record for post-event analyses. Each telephone line* can also be assigned for individual recording outputs.

Designed to suit your particular environment.

The VS-900 has been designed with system flexibility in mind. The fully scalable architecture can be precisely tailored to your existing system and expanded right along with your environment's requirements. And because the VS-900 mainframe employs an all-modular construction, it simplifies installation procedures as well as routine maintenance. System expansion options can easily be incorporated using interface and function cards. The fully modular configuration eliminates system obsolescence and ensures you get always the most from your investment. The VS-900 exchange can also be rack or wall-mounted to minimize space requirements.

System expands as required.

Up to four master stations and up to 64 substations can be connected to each VS-900 exchange. An exchange will also accommodate two outside telephone lines* as well as a dedi-cated computer interface. To satisfy system demands for even large institutions, a tie-line capability enables connecting up to 16 exchanges with 64 master stations and up to 1,024 substations.

*use dependent on individual country telephone regulatory codes.

System Applications

Protection and security.

At any site, all controlled-access points such as doors and parking gates benefit from twoway communication features provided by the VS-900. And by interfacing with CCTV systems such as TOA's, video combines with audio to achieve total monitoring. Used together with access control, other functions such as opening doors and gates as well as controlling surveillance cameras are easily performed. For alerting personnel, the VS-900 will also transmit warnings to substations.

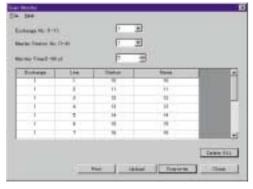
Versatile call handling.

The VS-900 receives environment-wide emergency calls from any substation at a central security control room. The VS-900 can forward calls manually or automatically to any master station onsite or offsite telephones. Times can be set for the system to automatically forward calls, useful during personnel shift changes and to maintain good communications during slack times or off-hours security. No-Answer Call Forwarding and Busy Call Forwarding modes are also available. Calls can be also be transmitted to outside telephones and mobile phones as well as pagers for notification. Many more helpful features are offered such as group calling, autodial and redial, call transfer/hold, call priority for normal/ emergency calls, automatic call timeout. call queuing, and selective response.

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Selective scan monitoring.

This allows any master station to selectively scan a group of substations for realtime audio monitoring. This feature is significantly enhanced when used in combination with CCTV surveillance to assure a higher level of security as it combines audio and visual monitoring capabilities.



Convenient conference calling.

The VS-900 enables master stations to easily initiate three party conference calls even in the middle of a two party conversation for instance when a consultation is needed with a person on- or offsite. An Emergency Conference feature for up to four parties is also provided.

Multi-functional paging.

The VS-900 system provides four paging methods:

- Zone paging broadcasts to selected zones
- Simultaneous all-zone paging broadcasts
- Emergency paging broadcast to entire areas
 External sound source distribution to individual zones activating a sound source

such as a chime. Each substation's built-in speaker may be used if driven by an external amplifier*. Up to 19 paging zones can be established by combining multiple substations with external public address system even the most remote areas of a site can be covered efficiently.

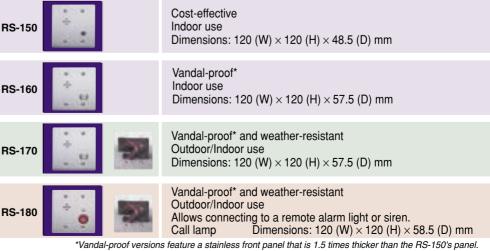
*TOA A-1031 or similar amplifier. Matching transformer such as the TOA MT-502U needed. (Part Number 514-04-013-20)

Substations designed for any installation.

TOA offers a range of substations for specific installation conditions. Featuring a rugged design for reliability, each substation provides a speaker and call button. One design includes a call lamp as well. For areas such as parking lots and remote locations, there are tough vandal-proof and weather-resistant substation models. In an emergency, any substation can be instantly activated by a single button — practical as emergency or

crisis situations tend to confuse people. TOA's audio expertise maintains superlative clarity in call quality to eliminate possible misunderstanding.





Vandal-proof versions feature a stainless front panel that is 1.5 times thicker than the HS-150's pan The internal speaker is protected by a metal plate.

Note: All telephonic and related communications functions use described above dependent on individual country regulatory codes.





SYSTEM FEATURES

System Capacity

- Single Exchange
 - 4 Master stations (enlargement unit: 2)
 - 64 Substations (enlargement unit: 16)
- •Up to 16 Exchanges
 - 64 Master stations 1,024 Substations
- Remote system management via RS-232C port •PC programming and monitoring software •Program and maintain multiple exchanges offsite from one PC (via modem)
- Audio and Data Logging •PC archive of all system activity (RS-232C port) •Record individual Master station and telephone audio
- Master Station Flexibility
- •TOA master with alphanumeric display and clock •Supports single-line telephone equipment with Caller-ID*
- Outside Line Communication Supports two C/O trunks
 - •Substation to outside telephone line communication
- Paging Interface
- •16 control outputs
- 1 voice output
- External Audio Input

•4 activation inputs and 1 audio input for external source distribution *in compliance with FCC regulation Part 68.

SYSTEM FUNCTIONS

- Substation to Master Station Call •Call designated Master station •Group Call [Master station grouping (16)] •Emergency Call up to the priority level
- Call Forwarding-Related Functions •Call forwarding •Time-Based Call forwarding
 - •No-Answer Call forwarding
 - Busy Call forwarding
 - Outside Line Call forwarding

•All-Zone paging •Emergency paging •External source distribution
Scan Monitor
Emergency Conference (up to four parties)
Auto-Dial and Redial
■ Call Transfer/Hold
Substation Priority (Emergency/Normal)
Automatic Time-Out (Call/Conversation)
Selective Response/Call Queuing (16)
SYSTEM SPECIFICATIONS
Exchange Method: PCM and space division
Control Method: Common stored program control
 Maximum Cable Length Exchange to Master station: 1,500m (22AWG) Exchange to Substation: 800m (22AWG)

Paging

Zone paging (19)

Exchange to Exchange: 1.0km (22AWG) Wiring Master station: 2 twisted pairs Substation: 2-core shielded Telephone: 1 twisted pair Exchange to Exchange: 1 twisted pair, shielded for Data,

Exchange to telephone: less than 500Ω (loop impedance)

- 2 twisted pairs for Audio
- Frequency Response: 300 3,400Hz
- Conversation Method Substation to Master station: Voice Switch or PTT-activated talk-back Master station to Master station: Full-duplex handset communication
- Power Requirements Exchange: AC mains (PU-200) or 24V DC VS-900DI/VS-910DI: 24V DC
- Operating Temperature Exchange and Master station: 0 to 40°C Substation: -10 to 60°C

System Configuration and Equipment Functions				
VS-900MF Main Frame	Card modules installed here. Includes 2 RS-232C ports. Dimensions: $420(W) \times 443.7(H) \times 288.3(D)mm$			
VS-900MS Master Station Interface Card	For connecting up to two master stations per card. An external recording device can be connected to each line.			
VS-900AL Telephone Interface Card	For connecting up to two telephones per card. An external recording device can be connected to each line. Use the telephone which complies with the FCC regulation Part 68.			
VS-900RS Substation Interface Card	Connects up to 16 substations per card. Equipped with two speech links, one link able to be used as a paging link with the paging input/output connected to an external amplifier.			
VS-900CO Outside Line Interface Card	Connects up to two outside lines per card. An external recording device can be connected to each line.			
VS-900AF Audio Function Card	Enables conference, external amplifier paging and external source distribution functions.			
VS-900TI Tie-Line Interface Card	Interconnects multiple exchanges. Connects up to 4 links using one pair of data lines and two pairs of voice lines.			
MS-900 Master station	MS-900 can make calls to or receive calls from the substation or the master station (telephone). Dimensions: 216 (W) \times 74.5 (H) \times 213 (D) mm			
RS-150/160/170/180 Substation	(see inside center page)			

Note: All telephonic and related communications functions use described above dependent on individual country regulatory codes.

Options



PN-100B Rack Mount Panel for PU-200

Size: $483(W) \times 177(H) \times 10(D)mm$ **PU-200** Power Transformer Unit Size: $178(W) \times 140(H) \times 68(D)mm$



Back box (2-gang) for RS-150/160/170/180 Size: $102(W) \times 102(H) \times 44(D)mm$

YC-303 Main Frame Wall Mounting Bracket Size: 391.4(W) × 440(H) × 58(D)mm



The VS-900DI Direct Select Control Card and VS-910DI Direct Select I/O Card are interface cards that connect to the VS-900 Exchange to enable calling-station indication output, direct select input, and external equipment control output functions



TOA Corporation URL: www.toa.co.jp/global/

Specifications are subject to change without notice. Printed in Japan (0106) 833-61-472-40 u