TOA

Solutions for
Mass Notification Systems

SIGNALING
c**UL**®
LISTED

Emergency Voice Alarm Systems   *with Paging and Background Music Functions*
8 decades of Sound & Communication   *and 4 decades of Voice Alarm Experience*

Broadcasting an Effective

Products for secure Voice Alarm

TOA Canada Corporation understands the importance of your customers' safety and the safety within your facility. TOA Canada Corporation carries a comprehensive product line that effectively manages building safety and security to ensure all occupants are safe at all times. TOA equipment provides combined functions for Paging, BGM, and Emergency Voice Alarm. Products can be used 24/7 as a background music (BGM) and paging system, as well as Voice Alarm and Emergency Communications. TOA's equipment provides emergency messaging that interrupts other announcements, and is intelligible, so announcements can be easily heard and understood. TOA's products are protected against breakdown or power failure with back up functions in place.
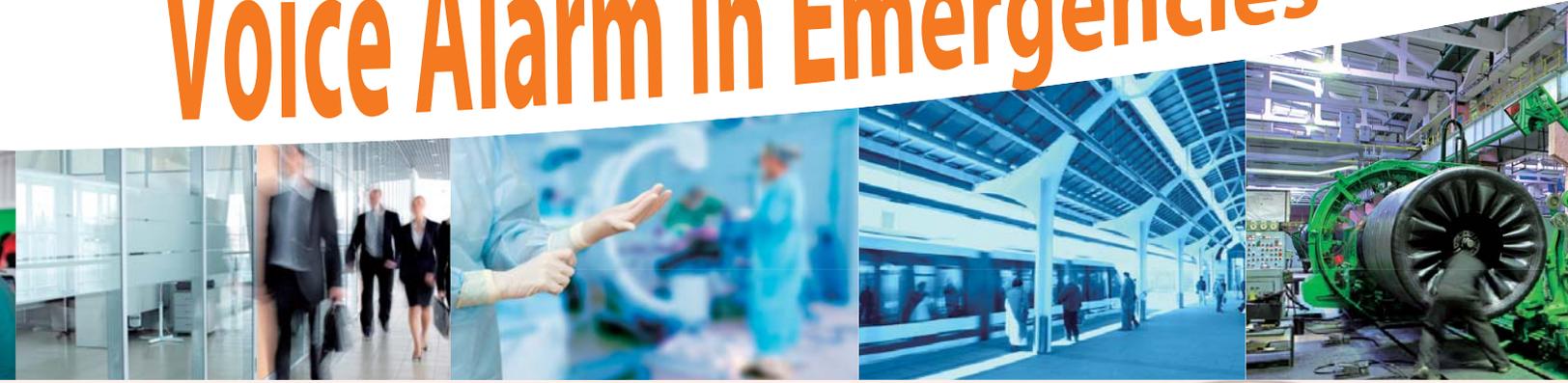
When you need to rely on an Emergency Voice Evacuation, Distributed Paging System, or provide daily use Background Music, TOA has your solution. Safe and sound.

Safety Certified to Handle the Emergency

TOA Canada Corporation is the first Commercial Audio Manufacturer in the world to have products certified to meet Mass Notification Codes.

UL2572 and **CAN/ULC-S576-14** is the standard on Mass Notification System Equipment and Accessories. The code contains requirements that cover communication units, interfaces, and accessories for mass notification systems. Products that meet

Voice Alarm in Emergencies

this code are intended to be used to communicate critical emergency communication and/or mass notification, in conjunction with other equipment, within a building or outdoor area. The system is to notify occupants of emergency procedures or events, including; fire, weather emergencies, amber alerts, terrorist activities, and more.

EN 54 is a standard of the European Union (EU) for fire alarm systems, VM-3000 and SX-2000 higher-end models, ensuring high product quality and reliability, and enabling better integration of Voice Alarm (VA) and Public Address (PA). EN 54 plays a significant role in the market for voice evacuation equipment, as the member states of the European Union replace their local standards with the EN 54 standard. All emergency voice evacuation systems marketed in the members states of the European Union are required to be certified to this standard.

UL 1480 UUMW/UWAY and **CAN/ULC-S541S-07** are the standards for speakers for fire alarm, emergency, and commercial and professional use. The requirements covers speakers for indoor/outdoor use in dry, damp, or wet locations.

TOA, a world Leader in Mass Notification and Voice Evacuation for over 50 years!

Benefits of TOA
System Features

1 Combined functions of Paging, BGM and Voice Alarm.

2 Speaker zone grouping and selection

3 Programmable priority order among audio inputs.

4 Pre-recorded message storage and tone signal generator.

Amplifiers

RM-200M RM-300MF RM-320F

RM-200M RM-210

VM-3240VA

VM-2120/VM-2240

VM-3240E

VM-2000 Series
System Management Amplifier

All-in-one package amplifiers. Built-in chime and alarm signal, control inputs and outputs. Options of surveillance and voice announcement boards. 120VAC available.

Maximum System Capacity	
Output Power (Max.)	2,160W
Speaker Zones	45 zones
Remote Mic connection	4 units

VM-3000 Series
Emergency Voice Alarm System

Compact-size multi-functioned amplifiers. Max. 15 audio inputs and 60 speaker zone outputs with 2 audio bus lines. Max. 80 control inputs and outputs for system integration. Built-in voice announcement, surveillance, tone signals and speaker zone attenuators. Meets UL2572 and CAN/ULC-S576-14 *(VM-3240VA, VM-3240E, VX-2000DS, RM-200M S)* certification.

Maximum System Capacity	
Output Power (Max)	2,400W
Speaker Zones	60 zones
Remote Mic connection	4 units

Speakers

HY-BC580U

CS-64U

CS-154U
CS-304U

PC-580RU, PC-580RVU Series
Ceiling Mount Speaker

High-performance ceiling speaker for use in mass notification, voice evacuation, emergency paging and everyday paging and background music. Meets CAN/ULC S541-07, UL 1480 UUMW (Fire alarm signaling), and UL 2043 (use in air handling spaces) when using the HY-BC580U back can. 25V and 70 v transformer taps up to 5W. 8" in-ceiling speaker for high quality applications.

SC-630TU
Paging Horns

70V/100V line weatherproof (IP65) paging horn speaker. Certified to UL 1480 UUMW and CAN/ULC S541-07 standards.

CS-64U, CS-154U, CS-304U
Paging Horns**

70V/100V line weatherproof (IP65) paging horn speaker. Certified to UL 1480 UEAY standards.
** Special order product

Voice Alarm Systems

5 *Integration capability with Fire Alarm, Telephone, CCTV, and Access Control Systems.*

6 *System surveillance for failure redundancy and switch-over.*

7 *Emergency broadcast operation with battery power supply in case of power-failure.*

8 *Failure and event logging with PC connection (VM-3000, and SX-2000).*

RM-200SA   RM-200SF

SX-2000SM

SX-2000AI

SX-2000AO

EN 54 4   EN 54 16

SX-2000 Series
Audio Management System

Network-base sound system. Max.64 audio inputs and 256 outputs with 16 bus lines. Max. 1,416 control inputs and outputs for system integration. Built-in graphic EQ, event logger and surveillance of amplifiers and speaker lines.

Maximum System Capacity	
Output Power (Max.)	107,520W
Speaker Zones	256 zones
Remote Mic connection	64 units

Mixer & Audio Signal Processor

DP-L2
Digital Ambient
Noise Controller

Automatic adjustment of volume level of announcements in response to changing ambient noise levels. Option: AN-9001 Ambient Noise microphone.

AN-9001
Ambient Noise Mic

Network Audio Adapter

NX-100
Network Audio Adapter

Converts analog audio (mic or line) to packet audio IP format for transmission over existing local or wide area networks (LAN/WAN) including the internet. Ideal for connecting the VM-3000 Series over a network from one building to another.

F-122CU2   F-2852CU2   F-2322CU2   F-2352CU2

BS-680U
Box Speaker

SIGNALING c(UL)us LISTED

70V/25V line, wall or in-wall mounting box speaker. Certified to UL 1480 UUMW and CAN/ULC S541-07 standards. Ideally suited for voice alarm applications.
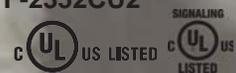
PE-304BU/WU,
PE-604BU/WU
Pendant Speakers

SIGNALING c(UL)us LISTED

World's first Mass Notification Pendant Speaker. 8Ω and 25V/70V/100V operation, changeable with a rotary switch. Certified to UL 1480 UUMW and CAN/ULC S541-07 standards.

F-122CU2, F-2852CU2, F-2322CU2, F-2352CU2
Ceiling Mount Speaker

c(UL)us LISTED   SIGNALING c(UL)us LISTED

Wide Dispersion ceiling speaker for use in mass notification, voice evacuation, emergency paging and everyday paging and background music. Certified to UL 1480 (UUMW), UL2043, CAN/CSA C222.2 No. 205 (UEAY7).

Application Examples

VM-3000 Application for an Office Building
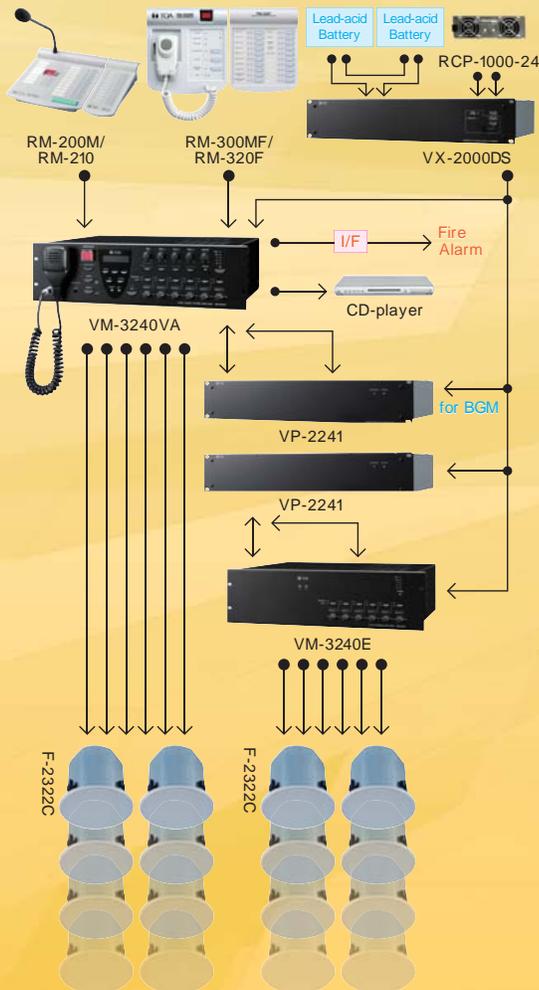
Paging and BGM

Announcements from Remote microphone (RM-200M) with pre-announcement chime and selection of broadcasting area. BGM (CD player) is automatically muted during announcement.

Voice Alarm

Emergency pre-recorded message activated by fire alarm and announcement from the Fireman's microphone (RM-300MF) are transmitted to specified areas. Normal broadcasting programs are automatically muted. In case of power failure, emergency broadcasting works with battery backup.

Surveillance

Amplifier and speaker line failures are detected with built-in surveillance function.
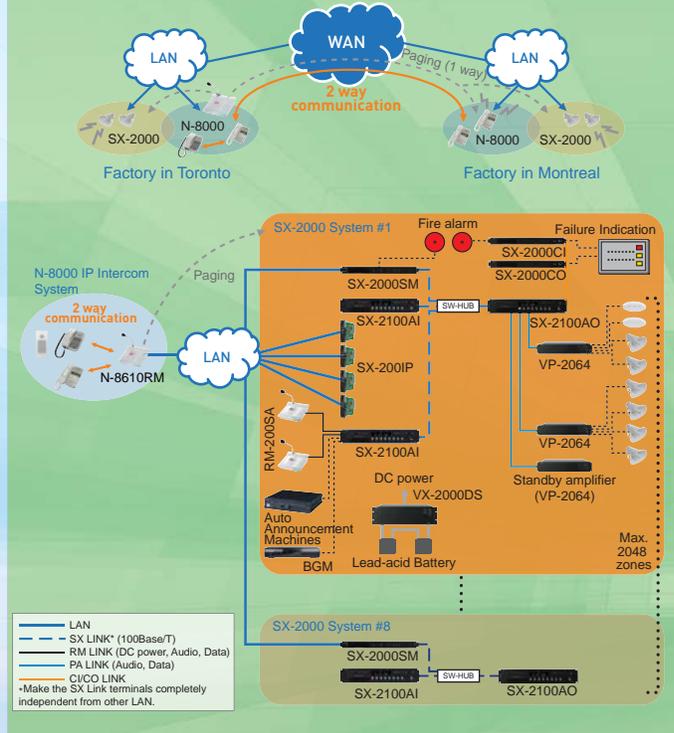

Integration of SX-2000 with N-8000 IP Intercom

Strengthen System Capabilities

A large system with up to 2048 zones is realized on the IP Network. From a remote location, IP Station* can make a paging call to any selected zone(s).
*N-8610RM and N-8600MS

Example: Distributed Factory Application

cUL Safety Certified Models

- Note -
• All TOA Canada Corporation products requiring AC power are cUL Safety Certified

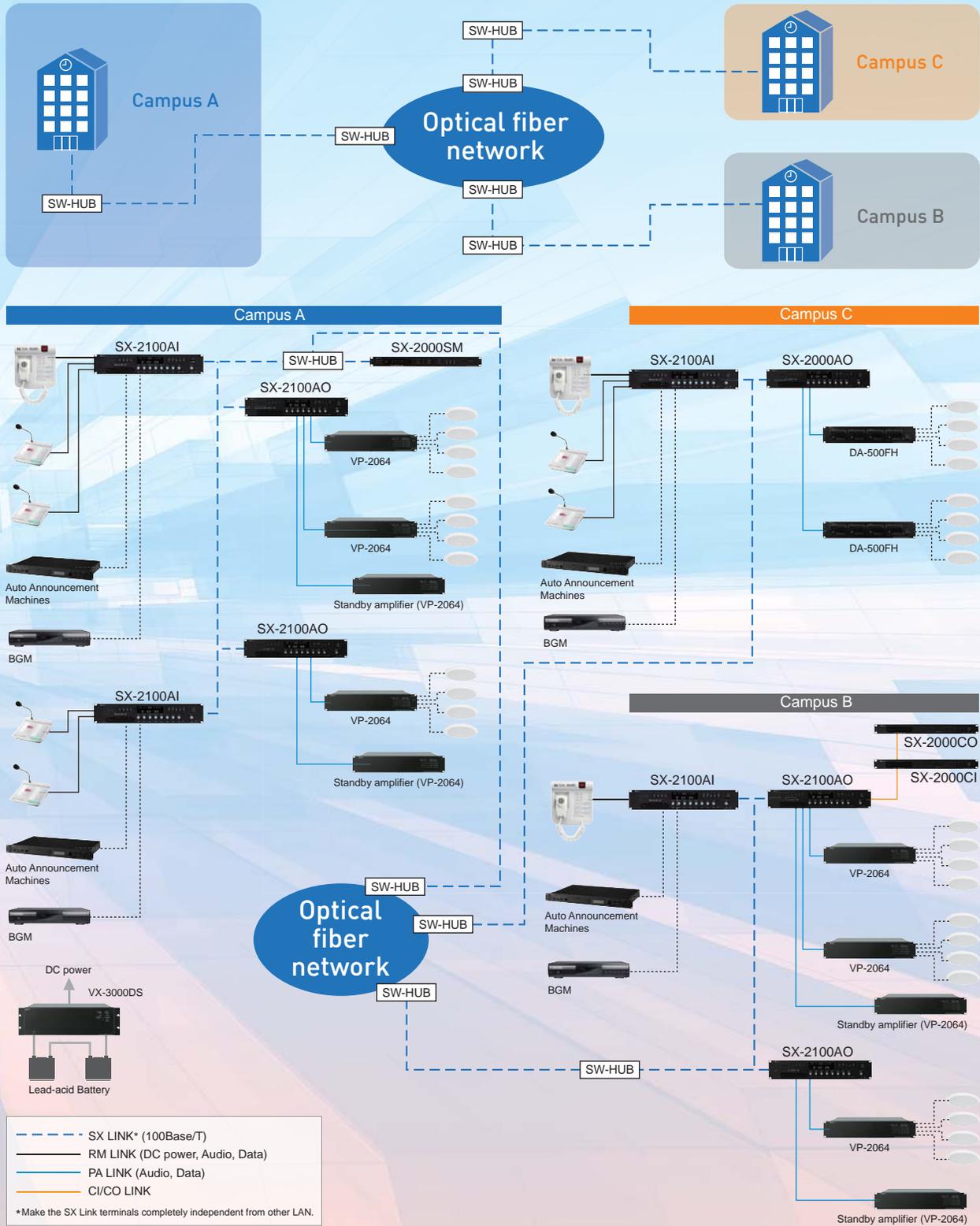## UL2572 and ULC-S576 Certified

TOA Corporation's VM-3000 Series Emergency Voice Alarm System is certified to UL2572 and ULC-S576-14 *(VM-3240VA, VM-3240E, VX-2000DS, RM-200M S)* standard for Mass Notification Equipment.

Speaker Model Number	UL 2043	CAN/ULC S541S-07	UL 1480 UUMW/UEAY	CAN/CSA C22.2 No. 205 UEAY7
BS-680U		Yes	Yes	
CS-64U, CS-154U, CS-304U			Yes	
F-122CU2, F-2322C, F-2352CU2, F-2852CU2	Yes		Yes	Yes
PC-580RU, PC-580RVU	Yes[1]	Yes[1]	Yes[1]	
PE-304BU, PE-304WU,		Yes	Yes	
PE-604BU, PE-604WU				
SC-630TU		Yes	Yes	

Note: [1]When used with HY-BC580U

SX-2000 Series: System Configuration: Distributed Control System Example (University)

Campus A

Campus C

Campus B

Optical fiber network

SW-HUB

Campus A

SX-2100AI

SX-2000SM

SW-HUB

SX-2100AO

VP-2064

VP-2064

Standby amplifier (VP-2064)

SX-2100AO

VP-2064

Standby amplifier (VP-2064)

Auto Announcement Machines

BGM

SX-2100AI

Auto Announcement Machines

BGM

DC power

VX-3000DS

Lead-acid Battery

Campus C

SX-2100AI

SX-2000AO

DA-500FH

DA-500FH

Auto Announcement Machines

BGM

Campus B

SX-2000CO

SX-2000CI

SX-2100AI

SX-2100AO

VP-2064

VP-2064

Standby amplifier (VP-2064)

SX-2100AO

VP-2064

Standby amplifier (VP-2064)

Auto Announcement Machines

BGM

Optical fiber network

SW-HUB

SW-HUB

SW-HUB

SW-HUB

------ SX LINK* (100Base/T)
—— RM LINK (DC power, Audio, Data)
—— PA LINK (Audio, Data)
—— CI/CO LINK

*Make the SX Link terminals completely independent from other LAN.

High value of Japanese technology
in both Hardware and Software

Quality control on the Factory Floor

TOA uses its very own factories both within Japan and overseas. Numerous engineers from Japan are sent to our overseas production plants to ensure that the state-of-the-art equipment adheres to the same stringent quality control system used in our Japanese production facilities. Furthermore, twice a year members from our Quality Control Division visit overseas production facilities to carry out inspections and make sure that quality standards are being maintained.

Compliance with Laws and Regulations

TOA is constantly carrying out tests to ensure that products comply with various regulations and standards around the world: safety regulations including UL, ULC, CE, CCC, RoHS, WEEE, EN 54, SASO, and REACH; the standards for each country; and ISO 9001. We do this so that consumers have complete peace of mind when using our quality products.
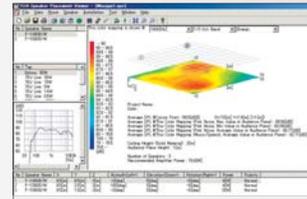

State-of-the-Art Equipment

In order to satisfy the legal requirements and conditions of each country, products must pass a large number of stringent tests. By installing various kinds of testing facilities, such as anechoic/echoic chambers and EMC test chambers, and by carrying out in-house testing, TOA has been able to improve its development efficiency.

TOA Speaker Placement Viewer: Software for Acoustic Simulation

TOA is constantly striving to improve services and share information with the customers. TOA Speaker Placement Viewer provides an easy way to calculate how many speakers are needed in a room. The software allows virtual placement of TOA speakers.

TOA Canada Corporation

Quality:	• Most products have a FIVE year limited warranty
	• Durable and Reliable - best MTBF in the industry
Customer Service:	• Canadian technical support and design team
	• Free design consultation and services
Distribution:	• Canadian stocking warehouse for product and service parts.
Experience:	• Over 80 years of excellence manufacturing Audio Systems
	• Over 50 years manufacturing Emergency Broadcast Systems
	• Over 30 years manufacturing Intercom Systems

5 YEAR PARTS & LABOUR WARRANTY
GARANTIE DE 5 ANS SUR LES PIÈCES ET LA MAIN-D'ŒUVRE

Airport   Hotel   Shopping mall   School   Office   Hospital   Station   Factory

Human Society with
Sound & Communication