TOA

Sound Solutions for

Sports Complexes & Multi-purpose Facilities

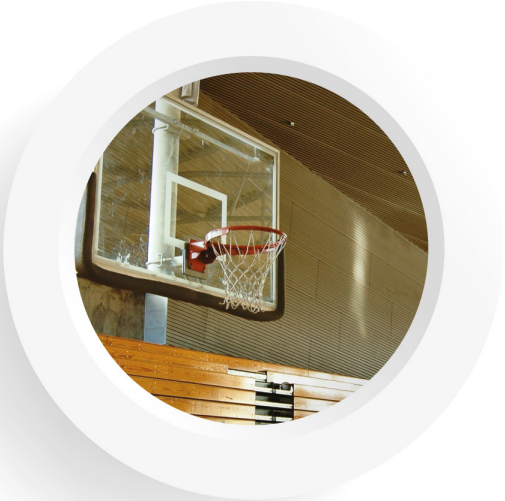




Sound Solutions designed for safety, sound coverage, and game-day energy!

Sound for Sports Complexes

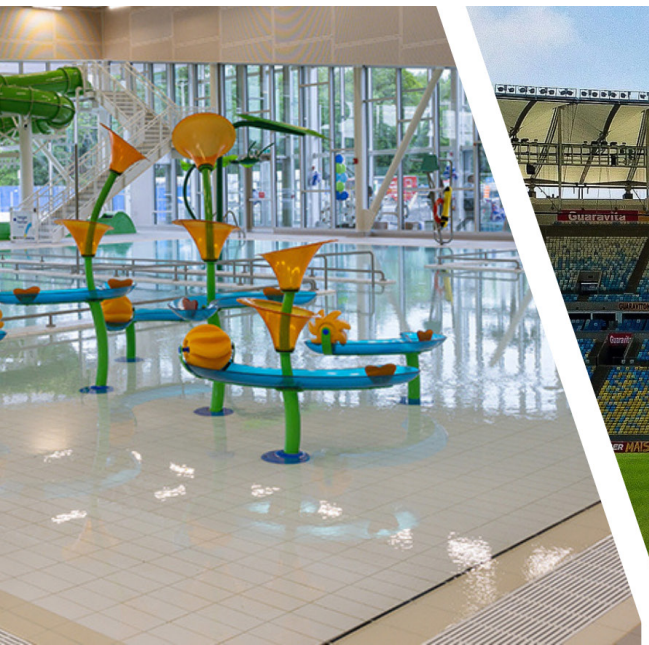
Offering sound solutions for each type of venue, TOA has your sound system needs covered.

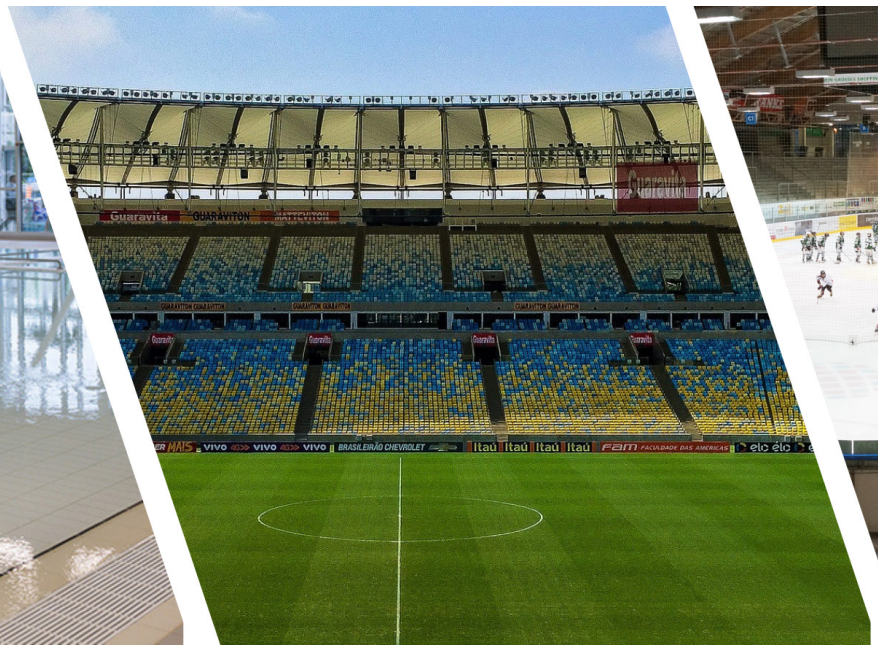


- Play-by-play announcements
- Emergency broadcast
- Crowd control & enlivening
- Everyday broadcast and paging
- High-quality, high-impact music reproduction.

Here at TOA Electronics, we recognize that the sports complex market ranges quite widely, from arenas, pools, stadiums, school facilities, and even golf courses. Additionally, these different types of spaces can be indoor or outdoor venues, or even a mix of both. Irrespective of the specifics of one venue over the other, venues like these all contain a variety of key areas that must achieve optimal sound and communications in order to deliver the best possible experience to fans or inhabitants. As such, TOA sound systems can be configured in a variety of ways to match the type of architecture, the application, and the desired acoustic quality at the installation location. Culminating in a system that fills venues with high-quality sound and reliable components geared towards safety, security, foreground announcements, and entertainment.

With integrated paging, voice alarm, and sound systems from TOA, everyone's a winner.







TOA's Leading Sound Solutions

Discover reliable sound and communication solutions with perfect speech intelligibility: practical in everyday life, well-equipped for emergencies.

Digital Matrix Mixer

The M-8080D Digital Matrix Mixer system is dedicated to music, paging, discussion and zone management solutions for commercial audio applications.

Easy to use and to implement, the M-8080D offers state-of-the-art signal processing in a cost-effective package. Projects using DSP platforms usually require a minimum number of inputs and outputs. M-8080D offers a large choice of I/O options making it a good choice for very different applications.

M-8080D is intended for non-experts. The system uses fixed architecture for quick and easy operation. The intuitive GUI utilizes a familiar hardware-like layout to enable a fast programming timeline and rapid hardware implementation.



Intercom systems

Our intercom systems offer a wide range of possible applications. We not only offer a broad product portfolio, but can also adapt the devices to your specific requirements. For example, an intercom system enhances the effectiveness of your voice alarm system even further: After an alarm has been triggered, precisely tailored measures can be taken – not only because the call receiver is available to assist the person seeking help directly, but also because announcements and instructions reach all required destinations without any problems. Whether via everyday use for secure internal communication or managing emergencies and dangers: your TOA Intercom system is the reliable partner at your side.



Wireless line up

With our range of wireless microphones and radio transmission products, we cover the entire spectrum of possible applications. From presentations to concert sound reinforcement, from conference rooms to theatres: for your specific project we select the perfect equipment from all the possibilities. Whether lavalier or hand-held microphone, fixed installation or mobile racks, we've got every usage requirement covered. All optimized for speech, vocals or instruments.



TOA's Leading Sound Solutions

Speakers

Whether required for music, alarm, announcements, or you need positionally versatile ceiling, wall or horn loudspeakers or durable weatherproof, EN-certified or ball-proof speakers – we have a vast portfolio of loudspeakers offering the optimum solution for every requirement, whatever the location. TOA loudspeakers all have one thing in common – excellent sound!





PA / Sound systems

For many events music plays an essential role, and yet the requirements are always different. Your TOA sound system offers the best possible sound for all planned occasions and events, because our systems can not only transmit music, but also speech. And on a technical level our solutions certainly don't sound like a compromise but are uncompromisingly good.

Sound Solutions for Smaller Stadiums

Horn speaker CS-304U / CS-64U

These horn speakers are comprised of a high efficiency weather-resistant horn and a high-quality sound cone speaker, providing excellent speech and BGM clarity. They feature ABS resin enclosure and stainless steel bracket for all weather durability. Both speakers are certified UL 1480 UEAY in North America.

- All weather durability with water and dust protection
- Impedance change available by tapping switch located inside the terminal cover

Amplifier DA-550F

The DA-550F is a four channel amplifier ideal for fixed installations. The inputs can be connected via XLR or pluggable screw terminals. Special protection circuits and a separate power supply for each channel make it particularly fail-safe. In addition, the status of all channels can be controlled and monitored externally.

- Independent power supply for each channel
- Light weight and compact
- Rack mountable with 2 units
- Stack up to 5 units without open spaces between units
- Selectable stereo or bridge operation
- Low heat dissipation
- Comprehensive protection circuitry
- Removable dust filters for easy maintenance

TOA's Leading Sound Solutions

Stadium dynamics. Many people, long distances. and greater safety.

As large acoustic spaces, stadiums are fundamentally sophisticated. The acoustics change not only due to the background noise but with the number of visitors. Each stadium architecture is individually designed. As a result, the acoustic planning for each location must also be individually tailored. In these buildings there are no standardized concepts for sound solutions. In addition to the aforementioned circumstances, other points must be taken into account in the planning: the materials used in the outdoor area should be as weatherproof as possible. In addition to the grandstands, other areas have to be planned acoustically. And in the best-case scenario, a stadium or sports facility in a residential area needs to avoid being a nuisance to residents.



We have all these things in mind when we work with you to develop the optimum technical solution for your project.

Sound Solutions for Large Stadiums

VX-3000 Voice Alarm System

The VX-3000 series is our newest reliable and energy-efficient voice alarm system, combining multiple functions into a single frame. The division of the devices into a decentralized system also prevents exceptional cases from causing a total failure. The small number of necessary components saves space, simplifies project planning and reduces cabling costs. Thanks to the flexible system architecture, the VX-3000 can be scaled and expanded to match the largest stadiums.

- Compact: All functions, all inputs and outputs in one unit
- Cost effective: easy system configuration thanks to the small number of components
- Flexible: broadcast many different audio signals simultaneously
- Energy saving
- Decentralized: IP network based

HX-7 Line Array Speakers

The HX-7 is a compact line array loudspeaker with adjustable dispersion angle and SYNCDrive ™ waveguide technology for the tweeter. The extraordinary design of the HX-7 combines 4 modules, which can be adjusted vertically by 0 / 15 / 30 / 45 or even 60° and can therefore be perfectly adapted to local conditions and different acoustic requirements.

- Built-in isophasic wavefront control horn with compression driver ensures precise HF control
- 0° mode facilitates the most effective line array set-up
- Easily adjustable vertical dispersion angle

TOA's Leading Sound Solutions

Flexible sound solutions so you can be prepared for every type of event, with TOA.



As an event location, halls must be one thing above all else: flexible. They need to be equipped with variable interior fittings in order to provide the optimum setting for a vast variety of events. This means that the sound system must first and foremost be flexibly adaptable to the general conditions.



To ensure maximum safety, we need to think beyond simple fire protection and provide additional safety through voice alarms. And it's all the better if only one system, combining voice alarm and sound systems, needs to be installed. This makes handling easier for the user and ensures support for the entire system by a single point of contact. And, best of all, quality and longevity are built into the very core of your TOA system.

Sound Solutions for Multi Purpose Halls

D-5000 Digital Wireless Series

Providing unprecedented speech clarity for delivering the presenter's voice to audiences in any speaking scenario, TOA's newest digital microphone system serves as the perfect solution for broadcasted speech. Experience for yourself the clarity, ease and safety of this wireless solution, whether for the classroom, office meeting rooms, banquet halls, courthouses, or multipurpose halls.

- Lightweight body
- 1 AA battery provides up to 8 h of continuous use
- Selectable microphone sensitivity
- Selectable transmission output (1 mW/10 mW)
- 3-step battery life indicator
- Built-in antenna

F Series Speakers

The demands placed on sound reinforcement systems are becoming increasingly complex and require flexible solutions. When loudspeakers are not just a match for the installation, but have to adapt to the environment, 2-way loudspeakers are the right choice. Not only do they offer good sound and stability in a compact package, but they also offer high performance and versatile mounting options.

- Versatile 8-inch 2-way surface-mount speaker system
- Perfect for music and announcements
- Sleek design for seamless integration with walls and ceilings
- Safe and easy installations with included mounting bracket

EXAMPLE MULTI PURPOSE HALLS

Hall



HX-5
EN 54-certified array speaker

- High power handling
- Splashproof versions (HX-5B-WP / HX-5W-WP)
- Parallel connectors – dual speakon and screw terminal
- Ball impact proof



F-08BT
Design speakers

- Compact wide-dispersion speaker
- Temporary docking feature allows effortless wiring and positioning



FB-150B
Subwoofer

- Compact subwoofer
- 30 cm (12") woofer
- Extremely wide frequency range

Fire brigade entrance



RM-200SF

- Emergency mode, start and stop auto matic broadcasts of emergency announcements, reset emergency signals, and live microphone announcements
- CPU-switch for emergency broadcast to all zones even in case of a CPU error

Control room



WT-D5800
Digital Wireless Receiver

- Frequency channel scan
- Feedback suppressing
- Intuitive LCD display



WM-D5200
Handheld microphone

- Lightweight body
- up to 8 h of continuous use
- Selectable microphone sensitivity



WH-4000A & WM-D5300
Headworn mic & transmitter

- Sports version of the WH-4000H
- Protection against the ingress of moisture
- Selectable microphone sensitivity

Halls / Aisles



PC-580RU
Ceiling speaker

- Flat front panel
- Easy installation



BS-680U (6W)
UL 1480 UUMW and ULC-S541

- A/B wiring
- 70 V and 25 V
- Push-in connector

Engineering room



DA-550F
Digital power amplifier

- Light-weight and compact
- Forced-air cooling system
- Comprehensive protection circuitry
- Low heat dissipation



MW-42BT
Audio Interface

- Equipped with Microphone, AUX (3.5mm), USB and Bluetooth inputs
- Designed with both panel-mounted controls and remote control



VM-3240VA AMQ
UL 2572 and CAN/ULC-S576 Certified

- Up to 4 amps (1 zone – 1 amp, 4 AB-zones or 3 AB zones + standby amp)



VM-3240E AMQ
UL 2572 and CAN/ULC-S576 Certified

- up to 2 amps (16 switched zones + standby amp or 2 x 8 switched zones)

VX-2000DS



- Combination of two built-in power source units with a high-performance charger
- Automatic switch to auxiliary battery power if the AC power supply is down

Car park



SC-630TU
UL 1480 UUMW & ULC-S541

- All weather durability
- Excellent speech clarity
- High SPL
- Wide frequency response

Safety & Security

Safety and security? Sounds great!

At any event, large or small, safety is paramount. By installing a voice alarm system, you're ensuring the protection and security of human lives. At the same time, the key to a successful event – be it sports or entertainment – is communication with your audience. Only when you reach out and connect with your visitors can you inspire them. Voice announcements and music drive the emotional context of an event and bring the audience into the action.

TOA delivers both components in an integrated system: combining everyday use of the sound system with the optimal equipment needed for emergencies.





Why voice alarms? Importance over a standard paging/broadcasting system:

There are regulations in in the United States that apply to an alarm system to make them safe. There are usually regulations for sales areas or meeting rooms of a certain size, including sports facilities, depending on the number of spectators.

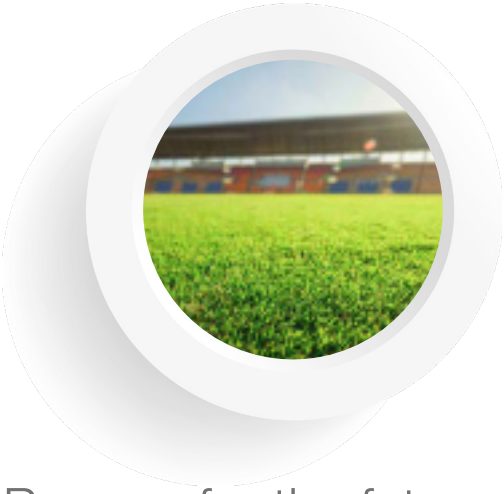
As opposed to your typical sound system or paging system, a voice alarm system is part of a general alarm system and is partially controlled automatically by the fire alarm system. The integration of voice alarming increases the overall effectiveness of your system. In concrete terms, this means that you protect human lives and ensure that rapid assistance can be provided in any emergency situation.

The TOA sound system allows you to reach auditoriums and grandstands with announcements, deliver convincing sound for video recordings or advertising, and ensure safety by providing the right information at the right time. Together we will find the optimal sound solution for your location.

Connect your sound set-up in an integrated system, with additional security for your audience.

With decades of experience and innovation into making spaces safer through sound, the know-how we've gleaned from many years of development and production of safety technology continues to drive TOA and motivate us to continually out-do ourselves in the devices we bring to market. With a TOA system you acquire technology that proves its value in every moment. With TOA, you can ensure that your systems meet the highest technical standards – and you can already plan and set up your system according to CAN/ULC-S524 for emergency and hazardous systems.





The question of safety technology is not only important in a new building. Existing systems can also be retrofitted and expanded to achieve a better safety standard. TOA systems ensure that new applications can be successfully integrated at all times. And TOA systems are flexible. Whether you need to connect different devices or implement specific requirements, if an "off-the-shelf" application doesn't meet your requirements, we develop the perfect solution. This is done according to your specifications and in proven, trusted and reliable TOA quality.

Prepare for the future, right now. TOA delivers technical equipment according to CAN/ULC-S524 standards.

Whether hosting track and field athletics, football matches, or live music entertainment, events in sports stadiums often require different sound systems. By using a system from TOA, you are equipped for every event. And at the same time you have invested in the safety of your visitors. The combination of voice alarm and sound system from a single source is not only advantageous at the point of installation, it's also more effective to have only one contact person assisting with regular maintenance. And we can do even more: by acoustically simulating your project, we establish the best possible equipment for your location right from the planning phase. Ensuring that you're optimally equipped for every occasion.

System Example
Outdoor Facility

Interior space



WT-D5800 RH1
Digital Wireless Receiver



EM-800
Gooseneck microphone



YW-4500
Antenna for Wall/Ceiling mounting



WM-D5200
Handheld Digital Wireless Microphone

Control room



M-864D
Digital stereo mixer



Q-RM9012
Remote microphone

Admission control



N-SP80AS1
Digital door station



N-SP80MS2
SIP multimedia station



N-SP80VS1
SIP Video door station



N-8000EX
IP network intercom exchange

Engi





Stands



HX-7 WP
Variable Dispersion Array

Halls / Aisles / Locker rooms



PC-580RU
Ceiling Mount
Speaker



BS-680U
UL 1480 UUMW and ULC-S541
Wall-Mount Speakers

Car park / Exterior grounds



SC-630TU
UL 1480 UUMW & ULC-S541

ineering room

VX-3000 Series
Voice Evacuation
System
Low loss modular
class D amplifiers

Up to 1280 remote
microphones, 640
audio sources and
2560 speaker lines

VX-2000DS

Fire brigade entrance



RM-200SF
Emergency remote
microphone

The TOA Advantage

We don’t recommend things frivolously – we know what we’re talking about, and we can prove it.

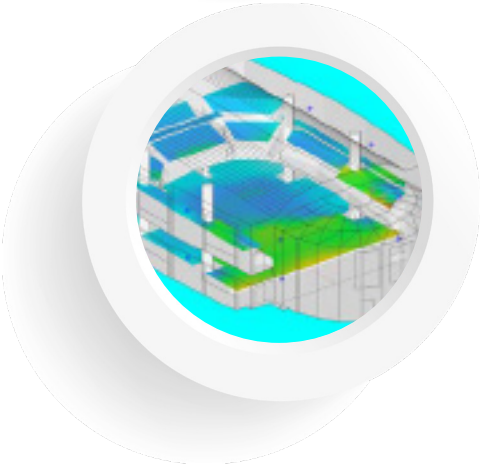
Together, we will find the optimal sound solution for your sports and event location. Naturally, we take all applicable regulations into account, when designing your project. We also supply you with equipment that has been comprehensively certified. That’s why you can be sure that with TOA you achieve the right volume for all acoustic zones, and the best speech intelligibility. At the same time, we offer many other advantages:

- The integration of a sound system into your existing fire protection system not only enables optimum technical coordination of the devices, but also a cost-efficient ProSound system with all the features you need.
- Your advantage: merging the sound set-up into one system with no mix of manufacturers means that everything fits seamlessly.
- Exceptionally quick and easy installation.
- We offer you tailor-made solutions for your Unique location and we ensure the best possible equipment for your rooms by rendering extensive simulations of the acoustic conditions. The perfect combination of sound system and voice alarm system ensures operational safety, and the satisfaction of having done everything possible for the safety of your visitors.
- For example, by monitoring the entire signal path according to UL standards.
- Or with a network-based voice alarm center, with decentralized design for additional security.
- We work together with certified local partners. And whilst they know what the legislator’s requirements are, they pride themselves on knowing how to provide even greater security.
- Our systems are optimally equipped for emergencies with emergency power equipment; A/B cabling or ring cabling.
- The quality of our products means that they’re designed to last, and we back this up with the best customer service.
- We are there for you beyond the installation of your system – offering continued support and service, both from our specialist workshop and from our trained partners.



TOA's Leading Sound Solutions





But what does TOA offer?

With a catalogue of over 700 sound solutions, TOA Electronics is a complete sound solutions provider. More than just equipment, we deliver clear sound, so you can deliver atmosphere.

With a home-grown team located across the country, TOA prides itself on providing local service all across The United States. We aim to make the design and installation process easier from end to end, with free project design and recommended BOM, our team of designers removes the burden of creating an audio or security solution.

Delivering documentation of acoustical performance of the complete sound system, and recommended equipment all in a tidy design proposal.

And in cooperation with planning and installation teams, we support you right from the planning phase all the way to years past installation day – always focused on **your** specific user requirements. You can take us at our word.

Our Peripheral Services Include:

- Provision of technical documentation (drawings, manuals, specifications etc.)
- Planning support
- Acoustic Simulation and Consulting
- Project-related product configuration
- Support during installation and commissioning
- Repairs and technical service

Planning to Design / Renovate a Sports Facility? Contact us.

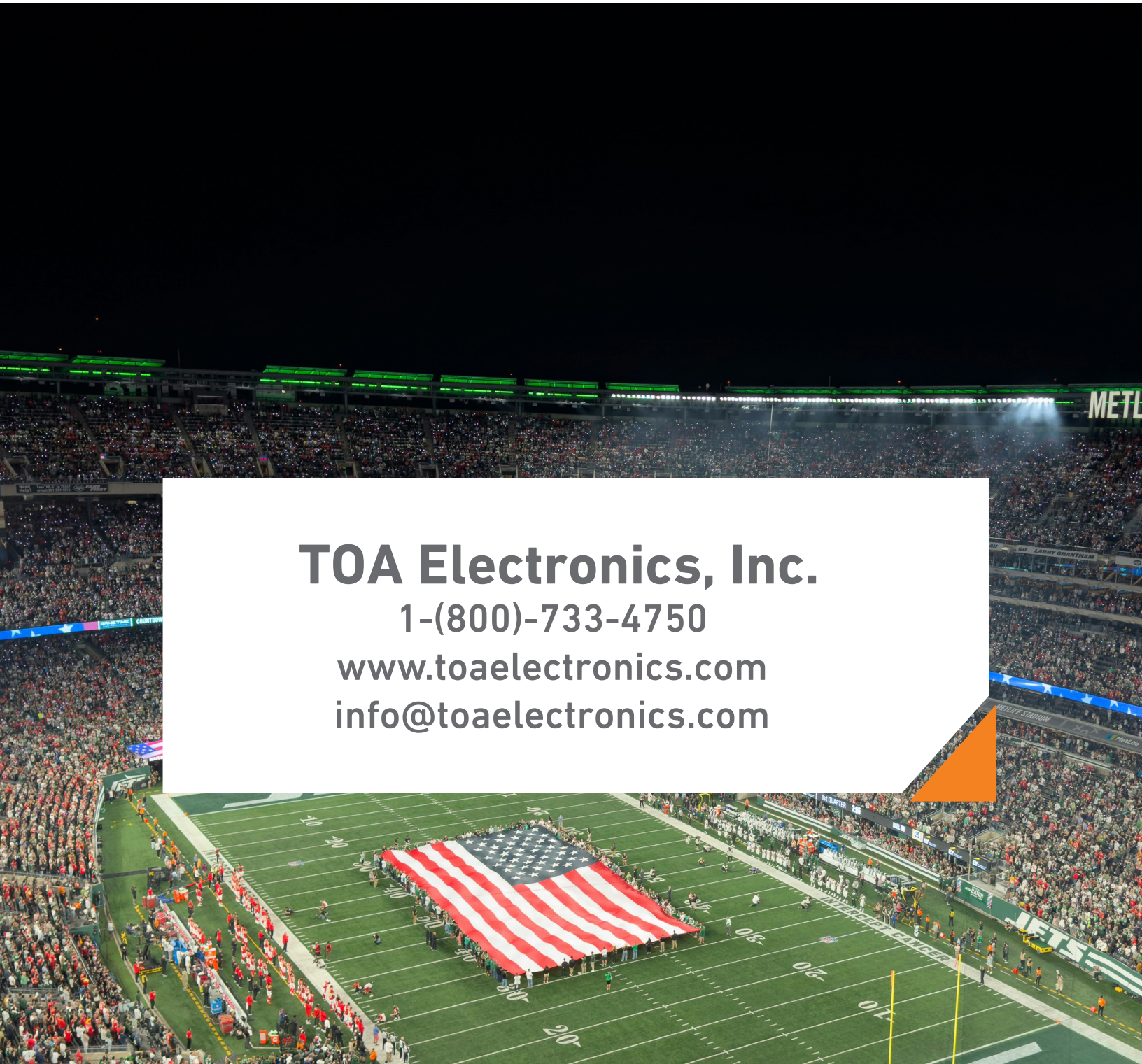
We support you in the planning and project management of
your property and take
care of your questions and
concerns!

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TOA

We supply sound, not equipment
www.toaelectronics.com



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