

LIFE SAFETY  INCIDENT MANAGEMENT

Lightweight High Power Speaker Arrays

Hyperspike® MA Series



Overview

EDWARDS High Power Speaker Arrays (w) employ exclusive HyperSpike® technology to deliver lightweight and acoustically sophisticated solutions for mass notification installations. These rugged outdoor-rated units are among the industry's smallest in physical size, yet they reproduce some of the clearest (up to 0.91 STI, source-dependant) and loudest (up to 126 dBA Fast @ 1m) audio signals available. Loudspeaker heads are as small as 13.2" (33.5 cm) in diameter and 24.7" (62.7 cm) in height. A single panel unit weighs as little as 16 lbs (7.3 kg).

Hyperspike MA Series loudspeakers are available in a number of different configurations, from one panel configurations that provide a relatively narrow sound dispersion, to five-panel configurations with full 360° sound projection.

The unique design of Hyperspike MA Series loudspeakers allow for a 100 percent up-time duty cycle—when powered from an AC source, they can be powered and ready to perform 24/7. This makes them ideally suited for daily activation, as well as emergency use.

Hyperspike Series HPSAs can be permanently installed, or can be configured for portable use. Units come standard with an internal inverter/charger system that can operate the HPSA from the 24 VDC battery compliment.

Each Hyperspike MA Series HPSA loudspeaker requires a separately-purchased remotely-mounted amplifier that can be installed indoors or outdoors. These house the audio power amplifiers as well as control and power equipment.

Standard Features

- Intelligible audio performance (up to 0.91 STI)
- 24/7/365 duty cycle
- 360, 230, 185 and 120 degree dispersion pattern options
- 320 to 6400 watt configurations
- Optional ethernet and wireless capability with additional equipment
- Easy installation—mounts to standard 2-inch diameter mast
- Lightweight loudspeaker heads—as low as 16 pounds (7.3 kg)
- Rugged outdoor construction
- Reliable and supervised interfaces to the EST3 Emergency Communications platform
- Includes an 8 ft (2.44 m) flexible weathertight wiring conduit

Application

Any outdoor facilities, such as:

- Universities, Colleges & High Schools
- Health care campuses
- Quads
- Parking lots
- Military bases
- Force protection
- Large ships
- Piers
- Docks
- Industrial complexes
- Refineries
- Power plants
- Air fields
- Stadiums
- Golf Courses
- Camp Grounds
- Amusement parks
- Open mines
- Weather warning systems
- Flood warning systems
- Civil defense

Installation

For optimal performance and safety when installing in permanent locations, High Power Speaker Arrays (HPSAs) loudspeakers should be mounted 35 to 55 feet (10.7 to 16.8 m) above grade on a pole, building or other structure. For portable or vehicle-mounted applications, the loudspeaker head should be at least 20 feet (6.1 m) above grade and away from people. For all installations, it is also key to have clear, open space around the speaker head. HPSA output is best via line-of-sight.

Typically, the Hyperspike Series HPSA provides the Emergency Communications platform with the following signals:

- Activation Confirmation
- Incoming AC failure
- Audio failure
- DC failure
- Door tamper
- Amplifier Fault
- Speaker Fault
- Temperature Fault

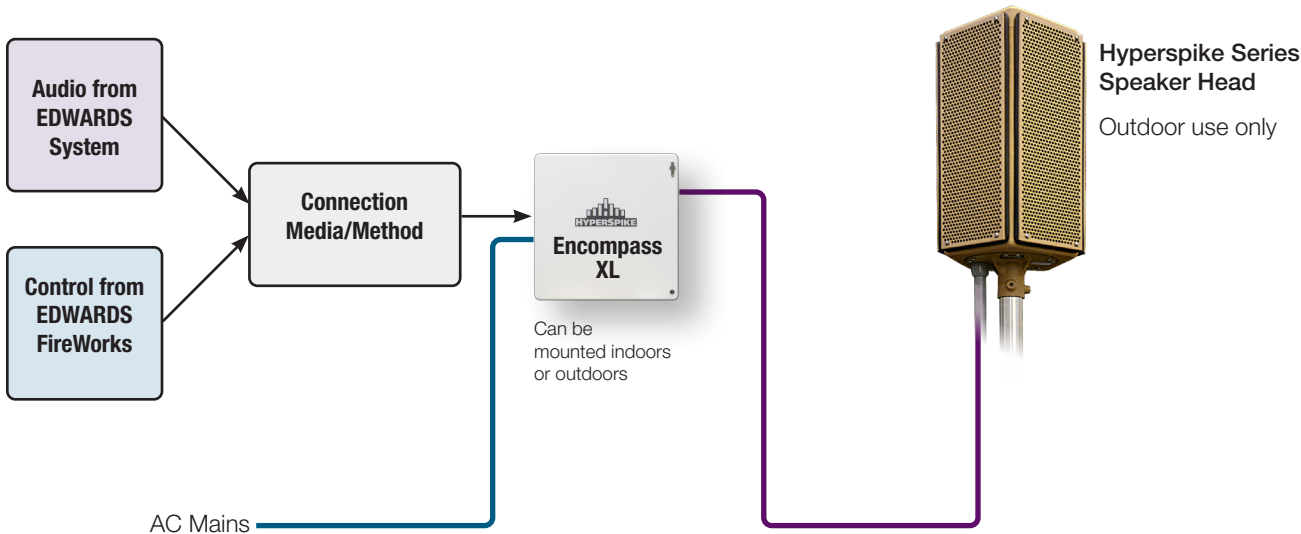
Units come standard with a three year warranty.

US Military Specifications

Loudspeaker Head

Hot Temperature	MIL-STD-810G Method 501.5 Procedure II (60C)
Cold Temperature	MIL-STD-810G Method 501.5 Procedure II (-20C)
Blowing Rain	MIL-STD-810G Method 506.5 Procedure I
Aggravated Humidity	MIL-STD-810G Method 507.5 Procedure II
Salt Fog	MIL-STD-810G Method 509.5
Blowing Dust	MIL-STD-810G Method 510.5 Procedure I

Typical Deployment

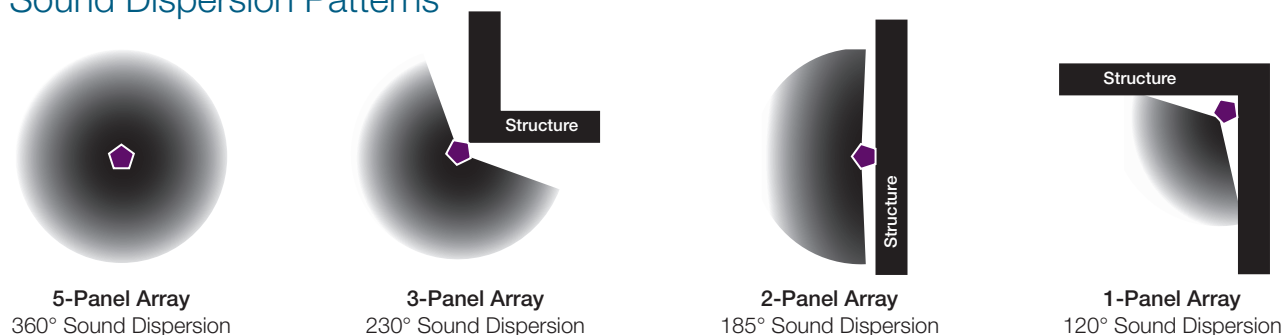


Specifications

Loudspeakers

	Speaker Panels	Sound Dispersion	1600 Class	3200 Class	6400 Class
Output	5 Panel Array	360°	1600 Watts	3200 Watts	6400 Watts
	3 Panel Array	230°	960 Watts	1920 Watts	3840 Watts
	2 Panel Array	185°	640 Watts	1280 Watts	2560 Watts
	1 Panel Array	120°	320 Watts	640 Watts	1280 Watts
Weight	5 Panel Array	360°	48 lb. (21.77 kg)	96 lb (43.55 kg)	192 lb (87.09 kg)
	3 Panel Array	230°	31 lb (14.06 kg)	62 lb (28.12 kg)	124 lb (56.25 kg)
	2 Panel Array	185°	24 lb (10.89 kg)	48 lb (21.77 kg)	96 lb (43.55 kg)
	1 Panel Array	120°	16 lb (7.26 kg)	32 lb (14.52 kg)	64 lb (29.03 kg)
Dimensions	Each	Diameter	13.2" (33.52 cm)	13.2" (33.52 cm)	13.2" (33.52 cm)
	Each	Height	24.7" (62.7 cm)	44" (111.8 cm)	88" (223.5 cm)
Speaker Head: Outdoor operating temperature: -40F to 140F (-40C to +60C). Indoor operating temperature: +32 °F to +120 °F (0 °C to 49 °C); Humidity: 0% to 95% (non-condensing)					

Sound Dispersion Patterns



Ordering Information

High Power Speaker Arrays and Assemblies

HPSA Assemblies are AC powered with optional DC backup. Amplifiers, batteries and battery enclosures are ordered separately. Loudspeakers come pre-assembled with an eight foot (2.4 meter) ¾-inch liquid-tight flexible conduit whip and wire leads.

Ordering Information	Description
90223A-804-02-L	MA-1 Encompass, UL, 1-sided loudspeaker - Tan
90223A-804-04-L	MA-1 Encompass, UL, 1-sided loudspeaker - Gray
90223A-803-02-L	MA-1 Encompass, UL, 2-sided loudspeaker-Tan
90223A-803-04-L	MA-1 Encompass, UL, 2-sided loudspeaker-Gray
90223A-802-02-L	MA-1 Encompass, UL, 3-sided loudspeaker-Tan
90223A-802-04-L	MA-1 Encompass, UL, 3-sided loudspeaker-Gray
90223A-801-02-L	MA-1 Encompass, UL, 5-sided loudspeaker-Tan
90223A-801-04-L	MA-1 Encompass, UL, 5-sided loudspeaker-Gray
90224A-804-02-L	MA-2 Encompass, UL, 1-sided loudspeaker-Tan
90224A-804-04-L	MA-2 Encompass, UL, 1-sided loudspeaker-Gray
90224A-803-02-L	MA-2 Encompass, UL, 2-sided loudspeaker-Tan
90224A-803-04-L	MA-2 Encompass, UL, 2-sided loudspeaker-Gray
90224A-802-02-L	MA-2 Encompass, UL, 3-sided loudspeaker-Tan
90224A-802-04-L	MA-2 Encompass, UL, 3-sided loudspeaker-Gray
90224A-801-02-L	MA-2 Encompass, UL, 5-sided loudspeaker-Tan
90224A-801-04-L	MA-2 Encompass, UL, 5-sided loudspeaker-Gray



LIFE SAFETY & INCIDENT MANAGEMENT

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Accessories

Demo, Portable & Specialty

MN-HS16DFDEMO1	Gray Hyperspike Series demo unit, 1600 watt with 120 VAC amplifier, microphone, MP3 player. Order tripods & accessories separately.
MN-HS16DFPORT1	Gray Hyperspike Series portable 1600 watt 120 VAC system, with 120 VAC amplifier, laptop computer & case, microphone & software. Order tripods and accessories separately.
MN-HS16G5PAC	EDWARDS System-based 1600 Watt Omni-directional HPSA Assembly (5 of 5 Active Panels) with lockable NEMA 4 amplifier and electronics enclosure. 110V/60Hz operation only. Enclosure equipped with tamper switch. EDWARDS hard-wire interface included. Accessories are ordered separately. Gray colored speaker head.
MN-HS32DFDEMO1	Gray Hyperspike Series demo unit, 3200 watt with 120 VAC amplifier, microphone, MP3 player. Order tripods & accessories separately.
MN-HS32G5PAC	EDWARDS System-based 3200 Watt Omni-directional HPSA Assembly (5 of 5 Active Panels) with lockable NEMA 4 amplifier and electronics enclosure. 110V/60Hz operation only. Enclosure equipped with tamper switch. EDWARDS hard-wire interface included. Accessories are ordered separately. Gray colored speaker head.

Mounting Accessories

90209A-801	MA Series Wall Mount Kit to mount an MA speaker mounted on a pole to a wall. Compatible with all MA-series speakers.
90209A-802	MA Series Pole Mount Kit, Easily Bolts a pole mounted MA-Series Speaker to a larger steel or wooden pole. Additional Support and guy wires may be necessary.
90209A-803	MA-1 and MA-2 Emitter head wall-mount bracket & installation kit. To be used with 1,2,3 Sided MA.
90209A-804	MA Series tripod mounting system. 10' tripod with 14' mast. Additional support and guy wires may be necessary.
74014A -SK15	MA-Micro or MA-1 emitter head ceiling mount.

Power Amplifiers & Components

M6-SK01	MA-1 Speaker (Transducer Replacement)
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Speaker Accessories

42155A-801	50 Ft Speaker Cable Assembly (connectorized version only)
42155A-802	75 Ft Speaker Cable Assembly (connectorized version only)
92028A-1-02	MA-1 Speaker Cover-Tan
92028A-1-04	MA-1 Speaker Cover-Gray
92028A-2-02	MA-2 Speaker Cover-Tan
92028A-2-04	MA-2 Speaker Cover-Gray