MA SERIES
OMNI-DIRECTIONAL
HIGH POWER SPEAKER ARRAYS

The HyperSpike® MA product line is a series of 360° high power mass notification systems that are battle-tested and battle-proven. Housed in an all-composite, waterproof, UV-resistant enclosure, the MA products can withstand any environmental condition. The lightweight, compact speaker seamlessly blends into most environments with minimal assembly, providing an aesthetic appearance. MA Series applications are endless. From military security to emergency notification on campuses, HyperSpike® has you covered.

With a powerful acoustical output, broad range of use, and industry leading intelligibility, your message is guaranteed to be heard and understood. When the message matters, HyperSpike® delivers.

UL 1480A LISTED
CLASS I, DIVISION 2, GROUPS A, B, C, AND D HAZARDOUS LOCATION CERTIFIED
WIDE FREQUENCY RANGE OF 100 Hz - 8 kHz
OPTIMIZED FOR HUMAN VOICE
ACOUSTIC BEAM OF 90-360°
1, 2, 3, AND 5 SIED OPTIONS
EXCELLENT VOICE INTELLIGIBILITY
LEADING THE INDUSTRY IN VOICE INTELLIGIBILITY, HYPERSPIKE® MA SERIES SPEAKER TECHNOLOGY ACHIEVES EXCEPTIONAL STI RATINGS, ENSURING COMMANDS ARE CLEARLY TRANSMITTED AND HEARD; EVEN IN HIGH NOISE ENVIRONMENTS.

MA-MICRO
The HyperSpike® MA-Micro is the small but mighty little brother to the MA-1. Ideal for high ambient indoor or outdoor environments, this 360° speaker array delivers an acoustic output of 134 dB and 0.5 square mile range of use. Common applications include arenas, manufacturing facilities, temporary alerting, and flight decks.

MA-1
Ideal for rapid field deployment or static mounting, the MA-1 is flexible and configurable for any situation, making it the "clear" choice for alerting and facilitating a response before, during, or after an event. With all five sides engaged, the MA-1 is capable of an acoustic output of 143 dB and broadcast range of up to 4 square miles.

MA-2
With the constant need to alert and inform, the HyperSpike® MA-2 is a battle-tested and battle-proven mass notification system. Ideal for rapid deployment, the MA-2 system can go from its road case to fully operational in under five minutes with minimal manpower.

The MA-2 delivers an acoustic output of 148 dB and broadcast range of 12 square miles, so you can be confident that voice commands and tones will save lives, mitigate casualties, and minimize chaos.

APPLICATIONS
- EMERGENCY NOTIFICATION
- FORCE PROTECTION
- DISASTER RELIEF ALERTING
- TEMPORARY ALERTING
- MILITARY SECURITY
- CAMPUS SECURITY
- FLIGHT DECKS
- MANUFACTURING FACILITIES
- ARENAS
- INDOOR FACILITIES
**RIGHT-SIZE YOUR MASS NOTIFICATION**

With the ever-increasing need for flexibility in mass notification, the HyperSpike® MA-1 and MA-2 allow customizable mass notification. One or multiple sides can be activated, providing right-sized sectored notification. With minimal influence on output, the MA-1 and MA-2 can be used where selective notification is necessary to minimize the effect on neighboring areas.

<table>
<thead>
<tr>
<th></th>
<th>MA-Micro</th>
<th>MA-1</th>
<th>MA-2</th>
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<tbody>
<tr>
<td><strong>Peak SPL</strong></td>
<td>134 dB</td>
<td>143 dB</td>
<td>148 dB</td>
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<tr>
<td><strong>Range of Use</strong></td>
<td>0.5 square mile</td>
<td>4 square miles</td>
<td>12 square miles</td>
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<tr>
<td><strong>Voice Intelligibility</strong></td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td><strong>Weight</strong></td>
<td>20 lbs</td>
<td>16-48 lbs</td>
<td>36-96 lbs</td>
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<tr>
<td><strong>Frequency Response</strong></td>
<td>125 Hz - 8 kHz</td>
<td>125 Hz - 8 kHz</td>
<td>100 Hz - 7 kHz</td>
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<tr>
<td><strong>Power</strong></td>
<td>50-650 W</td>
<td>1600 W</td>
<td>3200 W</td>
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<tr>
<td><strong>Acoustic Beam</strong></td>
<td>360°</td>
<td>90-360°</td>
<td>90-360°</td>
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<tr>
<td><strong>Environment</strong></td>
<td>Indoor/Outdoor</td>
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<td>Outdoor</td>
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<tr>
<td><strong>CSA C22.2 No. 205</strong></td>
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<td><strong>On-Site Demo Available</strong></td>
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<td><strong>EASE® / EASE® Evac .gll Files Available</strong></td>
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*Speech Transmission Index (STI Rating)*

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<tr>
<th>STI</th>
<th>BAD</th>
<th>POOR</th>
<th>FAIR</th>
<th>GOOD</th>
<th>EXCELLENT</th>
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<tr>
<td>0</td>
<td>0.3</td>
<td>0.45</td>
<td>0.6</td>
<td>0.75</td>
<td>1.0</td>
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visit [ultra-hyperspike.com](http://ultra-hyperspike.com)
MODELS AND CONFIGURATIONS

**CERTIFICATION:**
N/A — Uncertified versions
L — 1486A and Class I Division 2, Group A, B, C, and D certified
(Not available for 90162A or 90163A)

**COLOR CODE:**
02 — Tan
04 — Gray

**CONFIGURATION:**
- 801 — 5 sided
- 802 — 3 sided
- 803 — 2 sided
- 804 — 1 sided

**PRODUCT:**
- 90105A — MA-1 Single-Channel
- 90223A — MA-1 Multi-Channel
- 90162A — MA-1 Connectorized
- 90080A — MA-2 Single-Channel
- 90224A — MA-2 Multi-Channel
- 90163A — MA-2 Connectorized

Ultra Electronics reserves the right to vary these specifications without notice.
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