NOTIFIER® by Honeywell

Purchase HyperSpike® Speaker Systems Directly from NOTIFIER

October 2018

As the emergency communication and mass notification market continues to grow, customers today are looking for simpler, smaller, straightforward giant voice systems that easily integrate to their life safety systems. With revolutionary sound quality and innovative designs that meet the highest military and mass notification market standards, NOTIFIER is pleased to announce the availability of the HyperSpike indoor/outdoor high and medium power speaker array offering.



HPSA - TCPA-4, UL1480A Listed CID2 Certified MA-1 & MA-2
HyperSpike High Power Speaker systems have a major advantage with size, weight and power. With it's compact size, these products are approximately 1/5th the weight and size of comparable systems in the market. They have significantly less structural requirements, lowering installation costs and can be easily relocated.

MPSA - UL1480A Listed CID2 Certified MA-Micro,
UL1480 Listed CID2 Certified TCPA-10*,UL1480 Listed TCPA Omni*
HyperSpike Medium Power Speakers are light weight and designed for lower power consumption. With this package, less speakers are required for installation as compared to standard 15w, 60w or 4 horn clusters.
**NOTE: TCPA Omni, TCPA-10 will be available to order at a later date pending NOTIFIER Fire Panel Device Compatibility Document update completion*

To learn more, please use the link for a self-paced HyperSpike product presentation that takes only 20 minutes to review: https://prezi.com/view/T MH6eEgYTCUR4BYe6nsk/

ORDERING INFORMATION:

- All items on the HyperSpike price list attached are available to order through your NOTIFIER Customer Service Representative.
  - TCPA Omni, TCPA-10 will be available to order at a later date, pending NOTIFIER Fire Panel Device Compatibility Document update completion
- Sales of HyperSpike products are represented in your NOTIFIER sales account.
- Product is drop-shipped from HyperSpike direct to authorized NOTIFIER distributors.
- Delivery lead times for orders is 6-8 weeks.
- Standard Terms and Conditions as published in the 2018 NOTIFIER price list apply.
- NOTIFIER does not warranty these products, but assigns to the purchaser any warranty extended by the manufacturer of such products. Current HyperSpike warranty: 1 year

The HyperSpike team will also provide FREE sound modeling and is also available to do a live demo of products to meet any indoor or outdoor MNS needs. Please contact your NOTIFIER Regional Sales Manager to request this support for any project.

Enclosed are copies of the HyperSpike product datasheets, and will soon be posted on our website. You may contact Customer Service for ordering information.

Thank you for business!

© 2018 by NOTIFIER by Honeywell Inc. All rights reserved

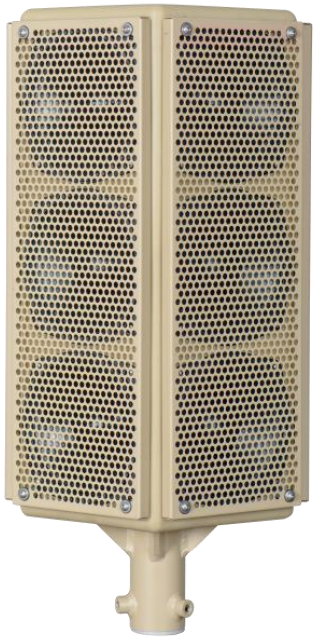
MA-1

1600W Omni Directional Loudspeaker

High Power Speaker Array

Features:

- 143 dB SPL peak acoustic output
- 1.13-mile radius
- STI 0.91 out of 1.0
- UL1480A listed
- Hazardous Location Certified: Class I Division 2 (CID2), Groups A, B, C, and D outdoor wet listed
- 5-, 3-, 2-, and 1-sided configurations available



Description:
The HyperSpike® MA-1 is a customizable, omni-directional high power speaker array that broadcasts live and pre-recorded voice commands and tones over a 4 square mile area. Leading the industry in voice intelligibility, the MA-1 speaker design achieves an exceptional STI of 0.91/1.0, ensuring commands are clearly heard, even in high noise environments. The battle tested MA-1 comes with a waterproof, rugged, and UV-resistant enclosure; ensuring durability in harsh environments.

Input Voltage	41 VRMS Multi Channel 90 VRMS Single Channel
Input Power	320 W, max per side, continuous alert tone
Frequency Response	125 Hz – 8 kHz
Beam Width	120° – 360°
Dimensions	12.8” DIA x 26.2” H
Weight	5S – 50 lbs (21.8 kg) 3S – 31 lbs (14.1 kg) 2S – 24 lbs (10.1 kg) 1S – 16 lbs (7.3 kg)
Certifications	CID2 – Groups A, B, C, and D UL1480A Listed CSA C22.2 No. 205 CAN/CSA C22.2 No. 213-15 ANSI/ISA 12.12.01-2015
Environmental	-20°C to 60°C

Impedance/Power Rating:

MA-1 90105A 90162A	Impedance (Ω per channel)	Power (Watts)	Directionality
-801	5	1600	360°
-802	8	960	230°
-803	12	640	185°
-804	24	320	120°
MA-1 Multi Channel 90223A	**Impedance (Ω per channel)**	**Power (Watts)**	**Directionality**
-801	6	1600	360°
-802	6	960	230°
-803	6	640	185°
-804	6	320	120°

Architect and Engineer Specifications:
The High Power Speaker Array shall be a HyperSpike® model 90_____-80__-__, providing alarm tone, pre-recorded or live voice announcements at ___ dB, measured at 1 meter from the source. The emitter shall be a ___ sided unit weighing no more than 50 lbs (21.8 kg) with one (1) 2” outside diameter (OD) pipe and pedestal, pole, or wall mounting hardware. The emitter shall be able to transmit an 80 dB (LAeq) audible signal up to 1,969 feet and operate at a power of 320 W to 1600 W. Equipment shall be suitable for indoor or outdoor wet locations and approvals shall include UL1480A listing with Class I Division 2, Groups A, B, C, and D Hazardous Location Certification; or Non-Hazardous locations only.

Models:

90XXXA-80X-0X-L

CERTIFICATION:
N/A – Not certified *(90162A only)*
L – 1480A and Class I Division 2 certified

COLOR CODE:
02 – Tan
04 – Gray

CONFIGURATION:
801 – 5 sided
802 – 3 sided
803 – 2 sided
804 – 1 sided

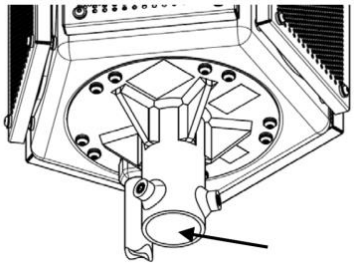
PRODUCT:
90105A – MA-1 Single-Channel
90223A – MA-1 Multi-Channel
90162A – MA-1 Connectorized

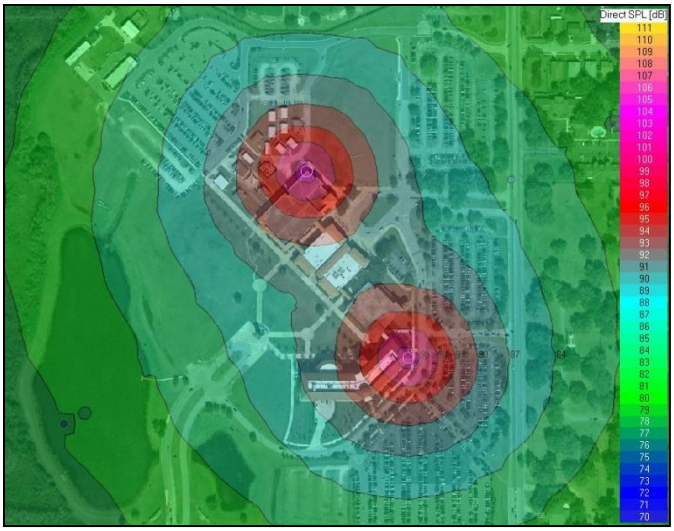
Accessories:

- 92010A-801 Tripod, Heavy Duty, with bag
- 90209A-802 Mounting Kit, HS-Series Emitter Pole Mount
- 90209A-803 Mounting Kit, Emitter Wall Mount
- 90209A-804 Mounting Kit, 10 Foot Roof Mount
- 74014A-SK15 Mounting Kit, Emitter Ceiling Mount, ECC
- 90171A-801 Standalone Amplifier Crown 4002 Xti
- 90202A-801 Amplification Pod
- 90100A-801 Audio Optimizer Software
- 90078A-SK06 MA-Series individual replacement loudspeaker service kit
- 42155A-XXX Connectorized Cable – length and gauge vary
- 74009A-ACC-804-02 MA-1 Tan Speaker Cover
- 74009A-ACC-804-04 MA-1 Gray Speaker Cover

Mounting:

The MA-1 comes standard with a mounting adaptor that accepts a 2” diameter pole and has 2 – 3/8” screws to lock the unit in place.

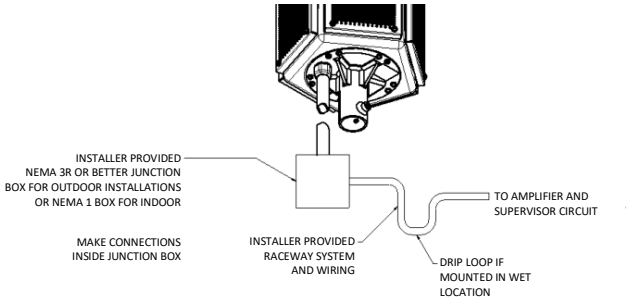




College campus overlay using two MA-1 5-sided emitters.

Cable Routing Single- and Multi-Channel Systems:

All single- and multi-channel MA-1 systems come with a 10-foot long ¾” flexible conduit and 11-foot 14 AWG leads. The connection at the end of the conduit requires an installer-supplied junction box with a rating suitable for the installation environment of the box.

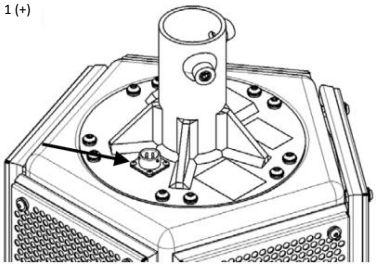


Cable Routing Connectorized Systems:

The connectorized MA-1 systems have a four-pin connector that provides audio to the speaker from the amplifier. Included with the unit is a speaker cable used to connect the unit to a customer-supplied amplifier or an optional HyperSpike® amplifier.

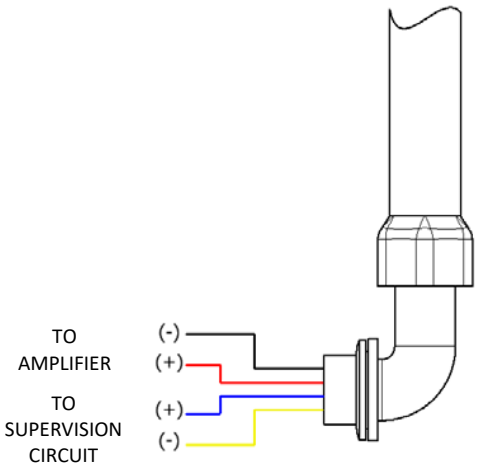


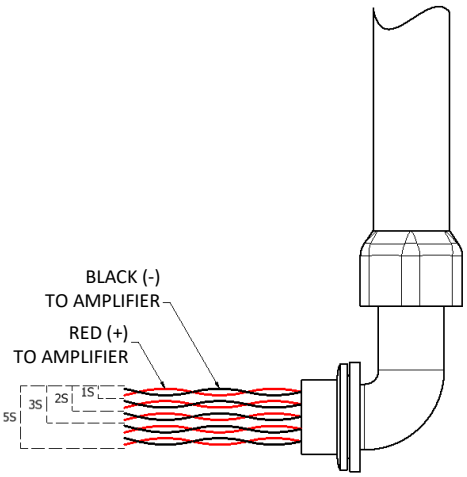
Pin A – Channel 1 (-)
Pin B – Channel 1 (+)
Pin C – N/A
Pin D – N/A



Wiring Single- and Multi-Channel Systems:
The single-channel MA-1 has 14 AWG leads coming out of the speaker as depicted below. The red/black pair is used for attaching to the customer-supplied amplifier or the optional HyperSpike® amplifier kit, and the blue/yellow pair is used for a supervision circuit.

The multi-channel MA-1 has a red and black twisted pair of 18 AWG wires coming from each face of the speaker. The total number of pairs coming out of the speaker will depend on the number of faces populated. Each pair has an impedance of 6 ohms and a power rating of up to 320 watts. These leads may be attached to a customer-supplied amplifier or the optional HyperSpike® amplifier kit.





MA-2

3200W Omni Directional Loudspeaker

High Power Speaker Array

Features:

- 148 dB SPL peak acoustic output
- 2-mile radius
- STI 0.91 out of 1.0
- UL1480A listed
- Hazardous Location Certified: Class I Division 2 (CID2), Groups A, B, C, and D outdoor wet listed
- 5-, 3-, 2-, and 1-sided configurations available



Description:
The HyperSpike® MA-2 is a customizable, omni-directional high power speaker array that broadcasts live and pre-recorded voice commands and tones over a 12 square mile area. Leading the industry in voice intelligibility, the MA-2 speaker design achieves an exceptional STI of 0.91/1.0, ensuring commands are clearly heard, even in high noise environments. The battle tested MA-2 comes with a waterproof, rugged, and UV-resistant enclosure; ensuring durability in harsh environments.

Input Voltage	41 VRMS Multi Channel 90 VRMS Single Channel
Input Power	640 W, max per side, continuous alert tone
Frequency Response	100 Hz – 7 kHz
Beam Width	120° – 360°
Dimensions	12.8” DIA x 45.5” H
Weight	36 – 100 lbs (16.33 – 45.36 kg)
Certifications	CID2 – Groups A, B, C, and D UL1480A Listed CSA C22.2 No. 205 CAN/CSA C22.2 No. 213-15 ANSI/ISA 12.12.01-2015
Environmental	-20°C to 60°C

Impedance/Power Rating:

MA-2 90080A 90163A	Impedance (Ω per channel)	Power (Watts)	Directionality
-801	5	3200	360°
-802	8	1920	230°
-803	12	1280	185°
-804	24	640	120°
MA-2 Multi Channel 90224A	**Impedance (Ω per channel)**	**Power (Watts)**	**Directionality**
-801	6	3200	360°
-802	6	1920	230°
-803	6	1280	185°
-804	6	640	120°

Architect and Engineer Specifications:
The High Power Speaker Array shall be a HyperSpike® MA-2 model 90_____-80__-__, providing alarm tone, pre-recorded or live voice announcements at ___ dB, measured at 1 meter from the source. The emitter shall be a ___ sided unit weighing no more than 100 lbs (45.36 kg) with one (1) 2” outside diameter (OD) pipe and pedestal, pole, or wall mounting hardware. The emitter shall be able to transmit an 80 dB (LAeq) audible signal up to 3,280 feet and operate at a power of 640 W to 3200 W. Equipment shall be suitable for indoor or outdoor wet locations and approvals shall include UL1480A listing with Class I Division 2, Groups A, B, C, and D Hazardous Location Certification; or Non-Hazardous locations only.

Models:

90XXXA-80X-0X-L

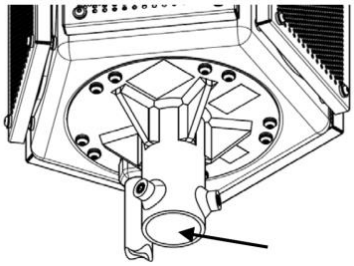
- **CERTIFICATION:**
  - N/A – Not certified *(90163A only)*
  - L – 1480A and Class I Division 2 certified
- **COLOR CODE:**
  - 02 – Tan
  - 04 – Gray
- **CONFIGURATION:**
  - 801 – 5 sided
  - 802 – 3 sided
  - 803 – 2 sided
  - 804 – 1 sided
- **PRODUCT:**
  - 90080A – MA-2 Single-Channel
  - 90224A – MA-2 Multi-Channel
  - 90163A – MA-2 Connectorized

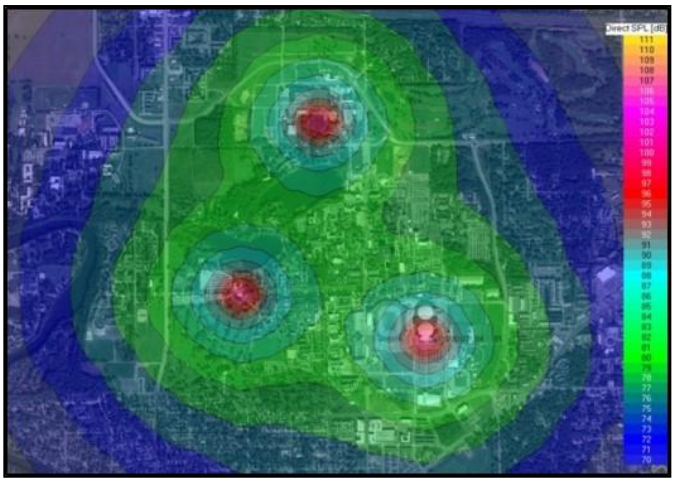
Accessories:

- 92055A-801 Tripod, Super Heavy Duty, with bag
- 90209A-802 Mounting Kit, HS-Series Emitter Pole Mount
- 90209A-803 Mounting Kit, Emitter Wall Mount
- 90209A-804 Mounting Kit, 10 Foot Roof Mount
- 74014A-SK15 Mounting Kit, Emitter Ceiling Mount, ECC
- 90171A-802 Standalone Amplifier Crown 6002 Xti
- 90202A-802 Amplification Pod
- 90100A-801 Audio Optimizer Software
- 90078A-SK06 MA-Series individual replacement loudspeaker service kit
- 42155A-XXX Connectorized Cable – length and gauge vary
- 74010A-ACC-804-02 MA-2 Tan Speaker Cover
- 74010A-ACC-804-04 MA-2 Gray Speaker Cover

Mounting:

The MA-2 comes standard with a mounting adaptor that accepts a 2” diameter pole and has 2 – 3/8” screws to lock the unit in place.

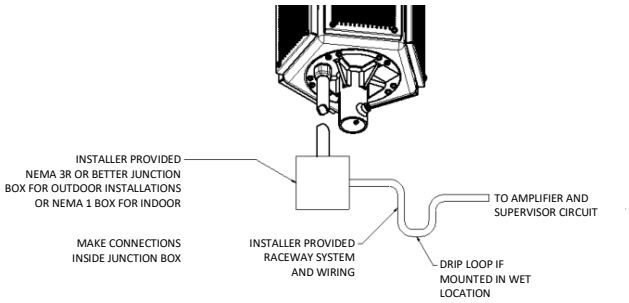




College campus overlay using three MA-2 5-sided emitters.

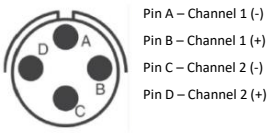
Cable Routing Single- and Multi-Channel Systems:

All single- and multi-channel MA-2 systems come with a 10-foot long ¾” flexible conduit and 11-foot 14 AWG leads. The connection at the end of the conduit requires an installer-supplied junction box with a rating suitable for the installation environment of the box.

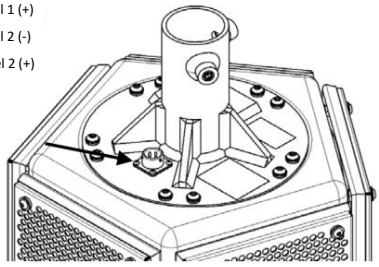


Cable Routing Connectorized Systems:

The connectorized MA-2 systems have a four-pin connector that provides audio to the speaker from the amplifier. Included with the unit is a speaker cable used to connect the unit to a customer-supplied amplifier or an optional HyperSpike® amplifier.

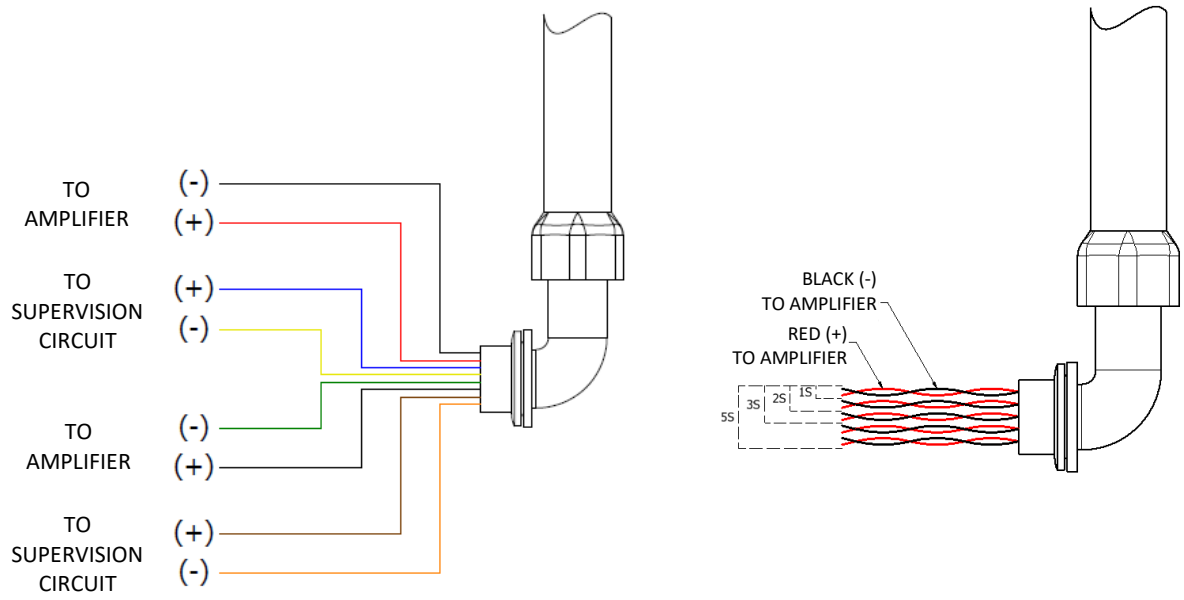


Pin A – Channel 1 (-)
Pin B – Channel 1 (+)
Pin C – Channel 2 (-)
Pin D – Channel 2 (+)



Wiring Single- and Multi-Channel Systems:
The double-channel MA-2 has 14 AWG leads coming out of the speaker as depicted below. The red/black and white/green pairs are used for attaching to the customer-supplied amplifier or the optional HyperSpike® amplifier kit, and the blue/yellow and orange/brown pairs are used for a supervision circuit.

The multi-channel MA-2 has a red and black twisted pair of 18 AWG wires coming from each face of the speaker. The total number of pairs coming out of the speaker will depend on the number of faces populated. Each pair has an impedance of 6 ohms and a power rating of up to 320 watts. These leads may be attached to a customer-supplied amplifier or the optional HyperSpike® amplifier kit.



MA-Micro

500W Omni Directional Loudspeaker

Indoor/Outdoor Medium Power Speaker Array

Features:

- Suitable for indoor or outdoor applications
- 134 dB SPL peak acoustic output
- STI 0.84/1.0
- 0.4-mile radius
- UL1480A listed
- Hazardous Location Certified: Class I Division 2 (CID2), Groups A, B, C, and D outdoor wet listed





Description:
The HyperSpike® MA-Micro is a lightweight, 360° medium power speaker array that broadcasts live and pre-recorded voice commands and tones over a half mile radius. Leading the industry in voice intelligibility, the MA-Micro speaker design achieves an exceptional STI of 0.84/1.0, ensuring commands are clearly transmitted and heard, even in high noise environments. The battle tested MA-Micro comes with a waterproof UV-resistant enclosure ensuring durability in harsh environments.

Input Voltage	41 VRMS
Power Rating	Up to 500 W continuous
Impedance	4 ohms
Frequency Response	125 Hz – 8 kHz
Beam Width	360° omni directional
Weight	20 lbs (9.1 kg)
Dimensions	12.8” DIA x 8.0” H
Certifications	CID2 – Groups A, B, C, and D UL1480A Listed CSA C22.2 No. 205 CAN/CSA C22.2 No. 213-15 ANSI/ISA 12.12.01-2015
Environmental	-20°C to 60°C

Models:

UL1480A & CID2 MA-Micro

- 90145A-801-02-L Tan (10’ Leads)
- 90145A-801-04-L Gray (10’ Leads)

Uncertified MA-Micro

- 90145A-801-02 Tan (10’ Leads)
- 90145A-801-04 Gray (10’ Leads)
- 90145A-802-02 Tan (Connector)
- 90145A-802-04 Gray (Connector)

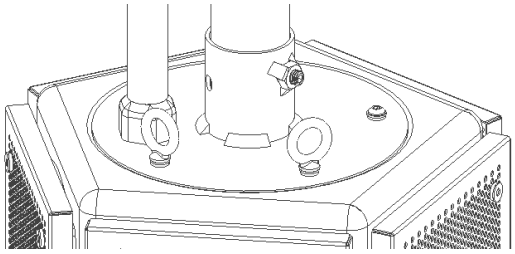
Accessories:

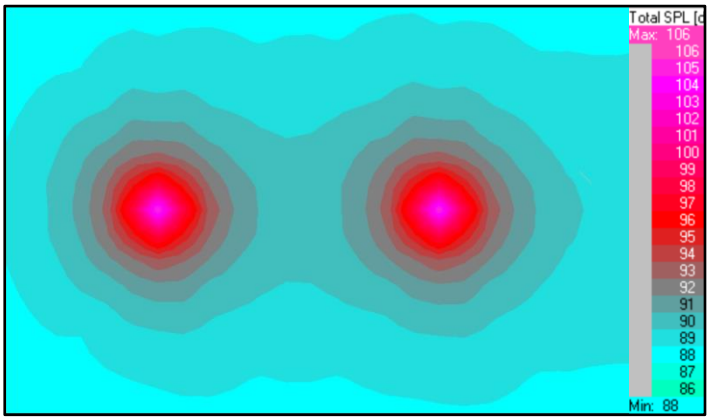
- 92010A-801 Tripod, Heavy Duty, with bag
- 90209A-802 Mounting Kit, HS-Series Emitter Pole Mount
- 90209A-804 Mounting Kit, 10 Foot Roof Mount
- 74014A-SK15 Mounting Kit, Emitter Ceiling Mount, ECC
- 90172A-805 Standalone Amplifier Crown 4002 Xti
- 90202A-803 Amplification Pod
- 90100A-801 Audio Optimizer Software
- 42155A-XXX Connectorized Cable – length and gauge vary
- 90179A-801 70V Constant-Voltage Transformer

Architect and Engineer Specifications:
The Medium Power Speaker Array shall be a HyperSpike® model 90145A-80__-__, providing alarm tone, pre-recorded or live voice announcements at ___ dB, measured at 1 meter from the source. The emitter shall be a 5 sided unit weighing no more than 20 lbs (9.1 kg) with one (1) 2” outside diameter (OD) pipe and pedestal, pole, or wall mounting hardware. The emitter shall be able to transmit a 360° omnidirectional audible signal up to 0.5 square mile and operate at a power of 500 W. Equipment shall be suitable for indoor or outdoor wet locations and approvals shall include UL1480A listing with Class I Division 2, Groups A, B, C, and D Hazardous Location Certification; or Non-Hazardous locations only.

Mounting:

The MA-Micro comes standard with a mast mount and is intended to be pole mounted or suspended from this mount. The unit can be rigidly mounted or hung.



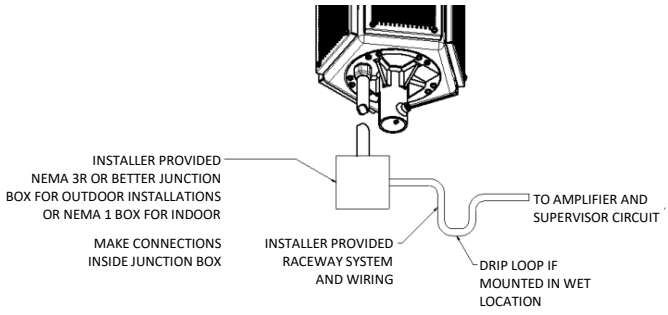


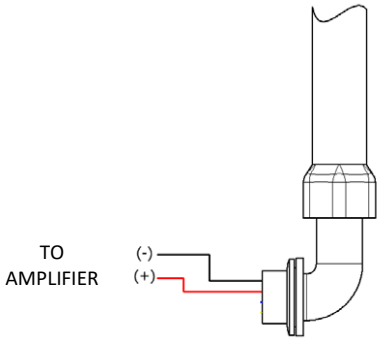
Free sound modeling services and EASE® / EASE® Evac .gll files are available.

Wiring Leaded Systems:

The MA-Micro system comes with a 10-foot long ¾" flexible conduit and 11-foot 14 AWG lead. The connection at the end of the conduit requires an installer-supplied junction box with a rating suitable for the installation environment of the box.

The MA-Micro has 14 AWG leads coming out of the speaker as depicted below. The red/black pair is used for attaching to the customer-supplied amplifier or an optional HyperSpike® amplifier.

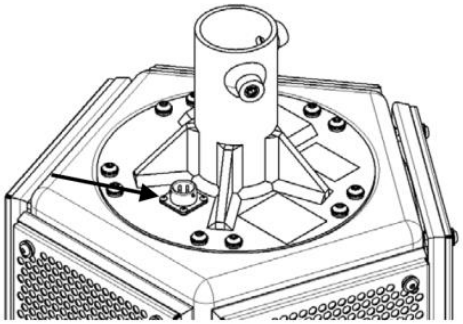




Wiring Connectorized Systems:

The connectorized MA-Micro system has a four-pin connector that provides audio to the speaker from the amplifier.

The connectorized MA-Micro has a four-pin connector. Included with the unit is a speaker cable used to connect the unit to a customer-supplied amplifier or an optional HyperSpike® amplifier.



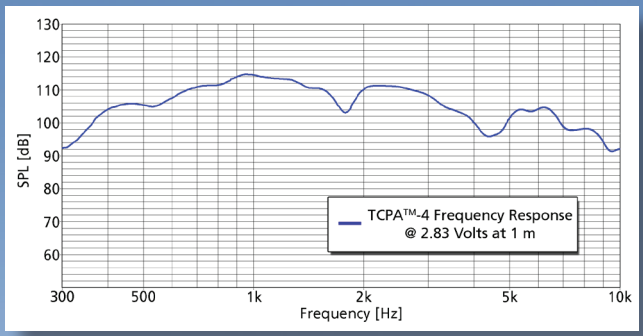


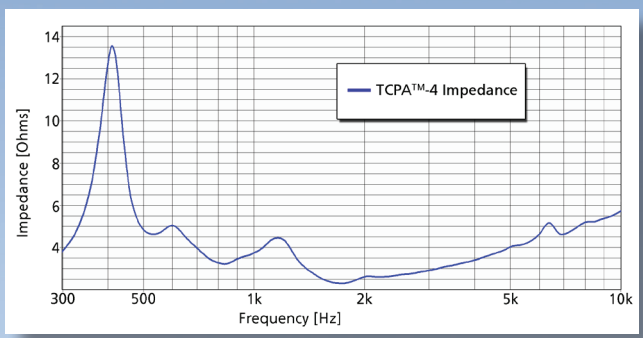
Pin A – Channel 1 (-)

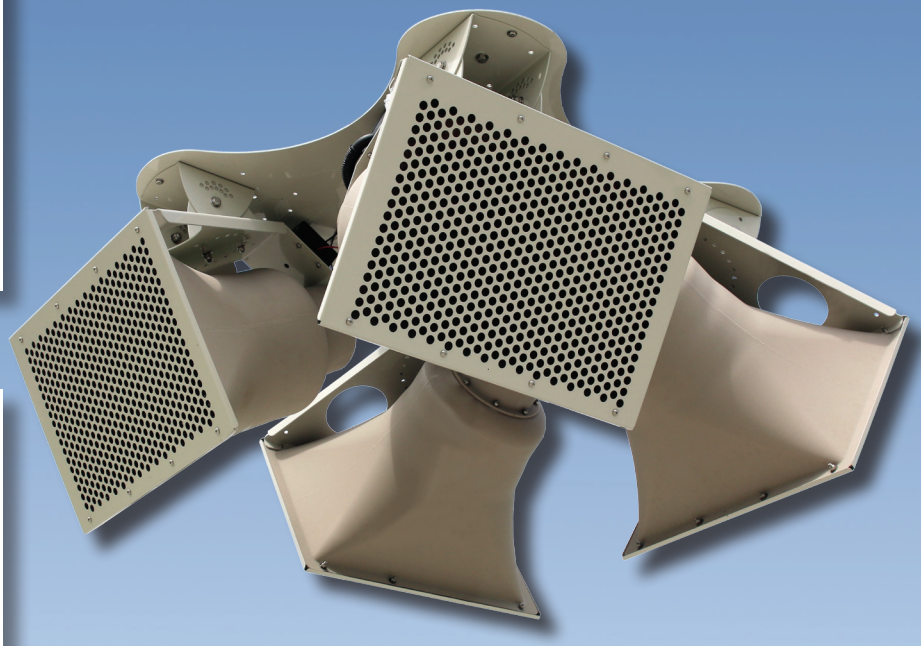
Pin B – Channel 1 (+)

Pin C – N/A

Pin D – N/A







TCPA™-4 Omnidirectional

Public Address Speaker

Features

- 138 dB SPL acoustic output
- Long range: 8202 ft
- Dispersion: 360° x 90°
- Wide frequency range: 425 Hz - 7 kHz
- Lightweight at 150 lbs
- Rugged composite material

The TCPA™-4 is an omnidirectional speaker system that is comprised of four TCPA™ directional speakers that utilize patented Hyperspike technology to project intelligible voice and penetrating alert tones. The result is an industry leading speaker that provides unmatched clarity and intelligibility.

The TCPA™-4 is constructed using durable powder coated aluminum and composite materials that make the unit ideal for both indoor and outdoor applications.

Unlike most omnidirectional speaker systems, the TCPA™-4 speakers can articulate to vary the dispersion of the speakers in a manner that is most beneficial to the end user.

Applications

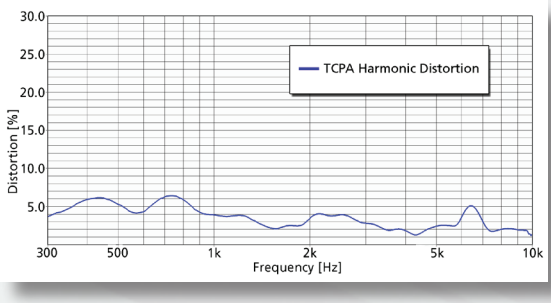
- Crowd Control
- First Responders
- Emergency & Event Control
- Border & Port Protection
- Indoor/Outdoor PA

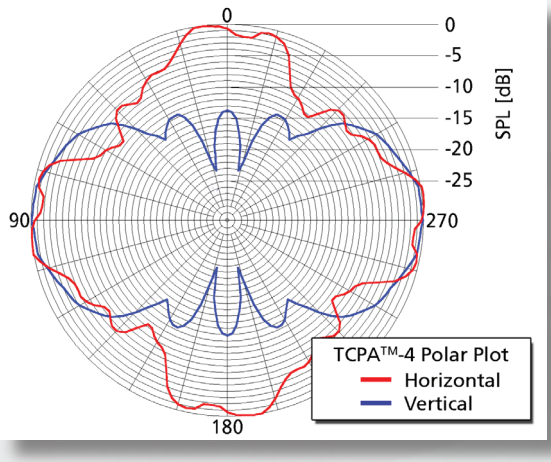
Follow us:

HYPERSPIKE
Sound that Moves

Ultra ELECTRONICS

TCPA™-4 Directional Specifications





Acoustic specifications:

Sound pressure level (Max @ 1 KHz)	138 dB @ 1 m
Sound Pressure Level (Max @ 1KHz)	108 dB @ 100 ft
Usable range[A]	8202 ft @ 70 dB
Dispersion	360° Horizontal x 90° Vertical (1 kHz @ -10 dB)
Frequency response	425 Hz - 7 kHz (-10 dB) (See graph)

Power requirements:

Average Power	800 Watts
Nominal Impedance	2.5 Ohms
Input Voltage (Max @ 1 kHz)	45 VRMS

Physical specifications:

Dimensions	26.5 H × 47.9" W × 47.9" D (67.3 cm H × cm 121.7 W × 121.7 cm D)
Weight	150 lbs (68 kg)
Housing material	Composite
Housing color	Taupe

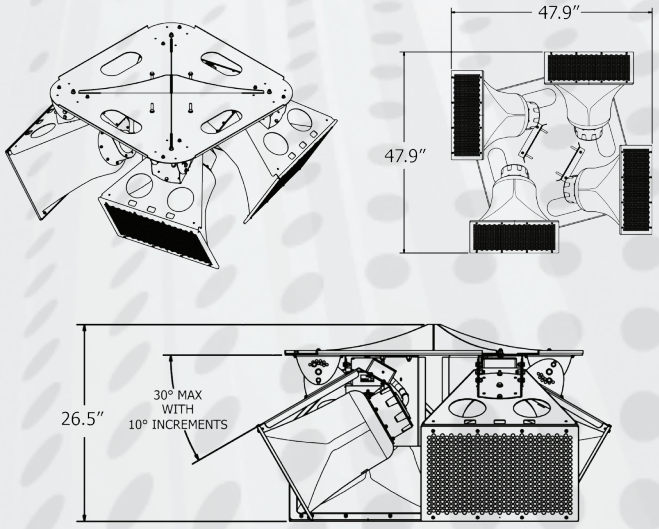
Environmental[B]:

High/low operating temperature	-20° C to 60° C
Operating humidity	0-95% Non-Condensing
Ingress Protection	IP54

Ordering Information:

Model No.	90136A-TCPA-4

A Ambient environmental conditions



Ultra ELECTRONICS | HYPERSPIKE *Sound that Moves*

Ultra Electronics
USSI
4868 East Park 30 Drive
Columbia City
Indiana, 46725-8869
USA
Tel: +1 260.248.3666
Email: sales@ultra-ussi.com
www.ultra-hyperspike.com
www.ultra-electronics.com

Ultra Electronics reserves the right to vary these specifications without notice.
© Ultra Electronics Inc
PN 90136A-PDS-TCPA4 REV A

TCPA-10

UL1480, Class I Division 2 Medium Power Speaker

Audio Signaling & Notification Speaker

Features:

- Industry Leading Voice Intelligibility (STI PA = Excellent)
- 139dB Max SPL @ 1 Meter
- Rated for Indoor or Outdoor Applications
- Universal Mounting Interface
- Built-In Transformer (25V, 70V, & 100V) or 4/8 Ohm Configurable
- Durable Environmental Resistant Construction



Specifications:

Certifications	UL1480, ULC, CSFM, Class I Division 2
Power Rating	Up to 90W continuous (4 ohm model)
Frequency Response	375Hz – 15kHz (nominal) 400Hz – 4kHz (general signaling)
Sensitivity	112dB @ 1W/1m (Avg 400-4,000Hz)
Dispersion Angle	60° (-3dB), 90° (-6dB)
Weight	9lbs
Dimensions	10.1”H x 10.1”W x 11.3” D
Temperature Range	-40°C - 60°C

Models:

90XXXA-80X-0X-L

CERTIFICATION:
N/A – Not certified
L – 1480 and Class I Division 2 certified

COLOR CODE:
01 – Black
04 – Gray
05 – Red
06 - White

CONFIGURATION:
-801 – 8 ohm
-802 – 4 ohm (90219A only)

PRODUCT:
90215A – Distributed Audio
90219A – Direct Drive

Description:

The HyperSpike® TCPA-10 is intended for indoor and outdoor audio signaling and notification. The five power settings have been designed to interface with industry standard amplification. Its 90° wide acoustic beam makes it an ideal notification tool for indoor and outdoor areas. The optional dual mount system creates a 180° wide beam that is ideal for outdoor perimeter use. Its best-in-class acoustic coverage allows for fewer units to be installed in large indoor and outdoor areas, lowering installation and long-term maintenance costs while also improving intelligibility and esthetics. Best-in-industry voice quality and intelligibility, combined with sharp and high impact tone capability, make it the right choice for ensuring messages are heard and understood.

Accessories:

- 72377B-801 Wall Mount Bracket
- 72378B-801 Dual Unit Mounting Adapter
- 72379B-801 Pole Mount Adapter

Architect and Engineer Specifications:

Voice paging and tone signaling loudspeaker shall be Ultra Electronics Model _____ (see Model numbers above). Unit shall be UL1480 Listed and Class I Division 2 certified, weather resistant and constructed of rugged 5VA rated, UV resistant ABS plastic. The loudspeaker shall be able to operate within any ambient temperature environment ranging from -40°C to 60°C. The speaker shall have a sensitivity of 112dB when measured at 1m (AVG 400-4,000Hz) and a beamwidth of 90° (-6dB at 1kHz). Model shall be a non-re-entrant compression loaded transducer with a 3” polyimide diaphragm and power handling of 45W continuous. The coil shall be a nominal 8 ohm impedance and ferro-fluid shall surround the coil to optimize heat dissipation. When applicable, transformer power settings shall be selectable and include 100V: 45W, 32W, 24W, 16W, 8W; 70V: 24W, 16W, 12W, 8W, 4W; 25V: 3W, 2W, 1.5W, 1W, 0.5W. Speaker shall contain in-line capacitor to allow DC supervision of wiring and be supplied with three feet of conduit with flying leads. Frequency response shall be 375Hz – 15kHz. Dimensions shall be 10.1”H x 10.1”W x 11.3”D.

Sound Output Ratings:

Input Voltage	Watts	dB SPL (Peak @ 1m)	dB SPL (Max @ 1m)	* dB SPL (Reverb @ 10ft)	Usable Range (Feet @ 80dB)
25	0.5	119	114	90	160
25	1	122	117	96	230
25	1.5	124	119	98	290
25	2	126	121	99	360
25	3	128	123	100	460
70	4	129	124	102	520
70/100	8	131	126	104	650
70	12	133	128	107	820
70/100	16	134	129	107	920
70/100	24	136	131	109	1,160
100	32	137	132	110	1,300
100	45	139	134	112	1,640

(90215A) Distributed Audio Tone dB SPL (Max RMS @ 1 meter)			
Tone	**25V**	**70V**	**100V**
Temporal 3	119	128	131
Broadband Fast Siren	121	130	133
Slow Sweep Tone	122	131	134

Tap	Impedance (Ω)	Watts @ 25V	Watts @ 70V	Watts @ 100V
1	1,250	0.5	4	8
2	625	1	8	16
3	416	1.5	12	24
4	312	2	16	32
5	208	3	24	45

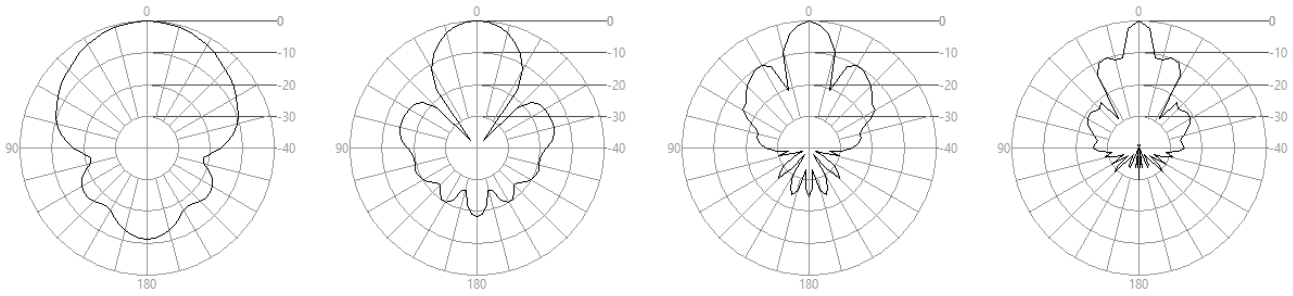
Input Voltage	Impedance	dB SPL (Peak @ 1m)	dB SPL (Max @ 1m)	* dB SPL (Reverb @ 10ft)	Usable Range (Feet @ 80dB)
22	8 Ohm	139	134	112	1,640
22	4 Ohm	142	137	114	2,320

(90219A) Direct Drive Tone dB SPL (Max RMS @ 1 meter)		
Tone	**4 Ohm (-802)**	**8 Ohm (-801)**
Temporal 3	134	131
Broadband Fast Siren	136	133
Slow Sweep Tone	137	134

* UL Standard SPL Measurement

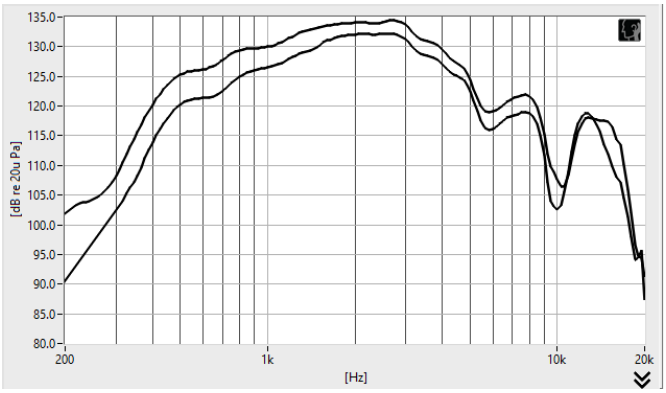
Environmental Specifications:

Ingress Protection	Performs to NEMA 3R standards
Operating Temperature	-40°C - 60°C
Humidity Range	0-75% non-condensing

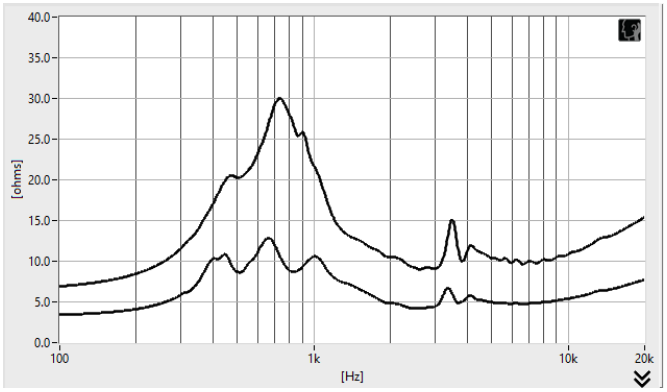


1kHz 2kHz 4kHz 8kHz

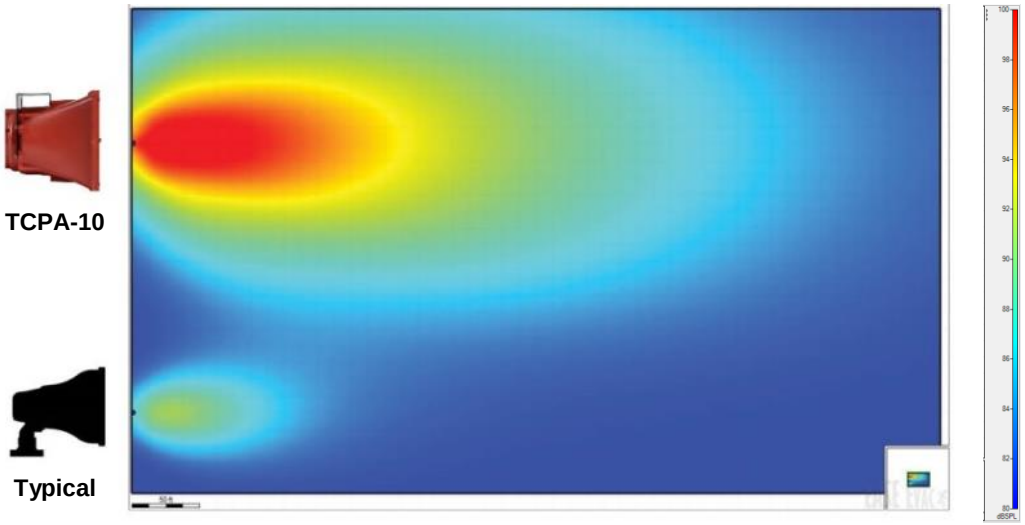
Polar Patterns



Frequency Response 4Ω and 8Ω @ 1M



Impedance 4Ω and 8Ω



TCPA-10

Typical

EASE Comparison Plot

Wiring Reference:

The TCPA-10 has a three-foot long ¼ Trade Size* flexible conduit with 20 AWG wires exiting the end. The power tap selection switch is located on the front of the unit (see Figure 2 in Interface and Mounting Reference).

** ¼ Trade Size Conduit has a nominal Ø.39" ID / Ø.57" OD*

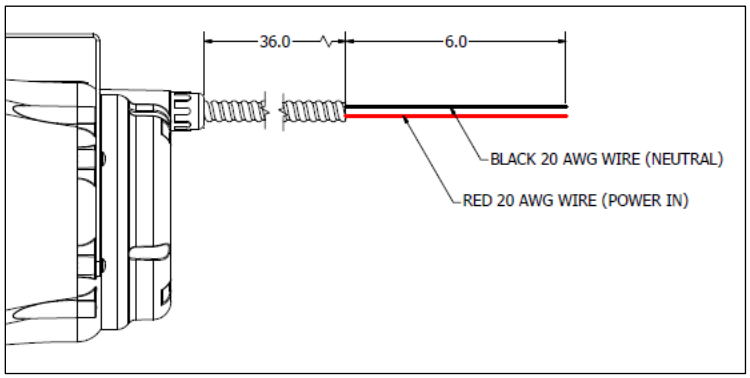


Figure 1

Interface and Mounting Reference:

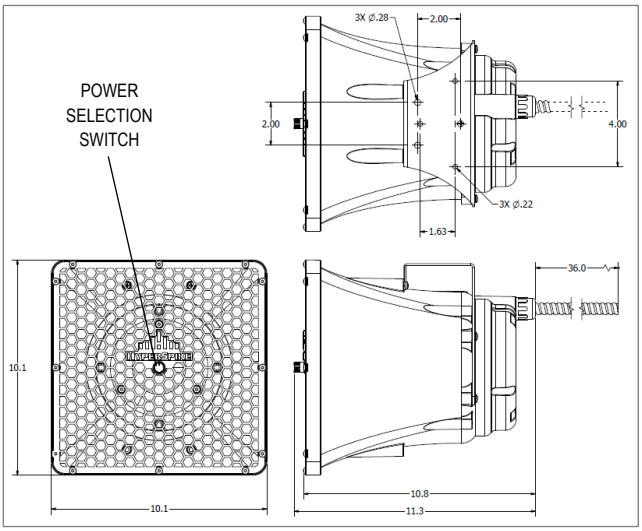


Figure 2

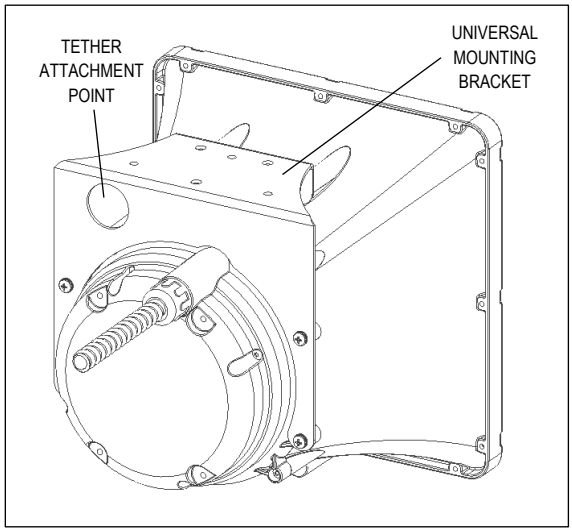


Figure 3

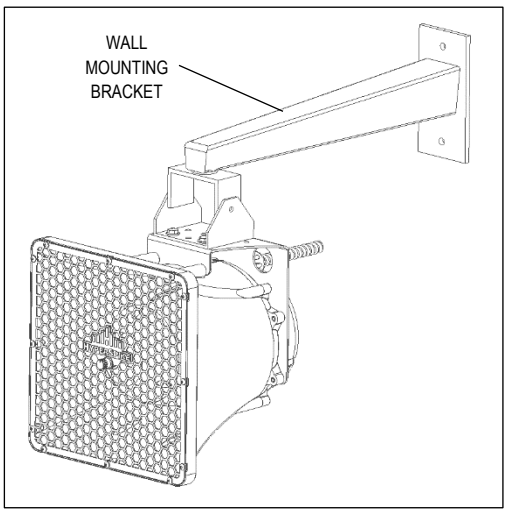


Figure 4
(single unit)

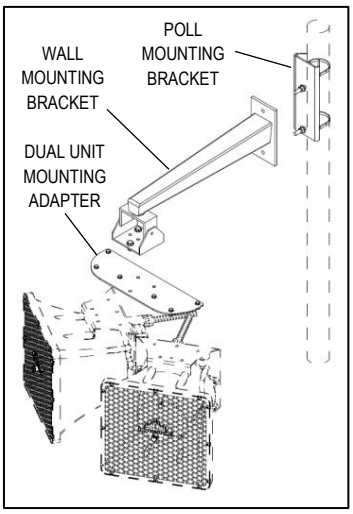


Figure 5
(double unit)

TCPA-OMNI
MEDIUM POWER
SPEAKER ARRAY



FEATURES

- UL 1480 & ULC S541 LISTED
- 129dB SPL
- 1/4 MILE RADIUS COMMUNICATION RANGE
- WIDE FREQUENCY RANGE: 350Hz - 5kHz, OPTIMIZED FOR HUMAN VOICE
- 50-200 WATTS
- 70V DRIVE
- INTELLIGIBLE VOICE ANNOUNCEMENTS & SHARP WARNING TONES

HYPERSPIKE
Sound that Moves

TCPA-OMNI

The TCPA-Omni is the perfect solution for both indoor and outdoor mass notification needs. It is UL 1480 and ULC S541 listed for General Notification and Fire and Emergency Signaling. The TCPA-Omni provides both crystal-clear voice and high impact tones, making it possible for one speaker to service all of your acoustic needs.

The TCPA-Omni is the class leader in intelligibility and acoustic power density. At a mere 18 inches in diameter and weighing only 19 pounds, the TCPA-Omni will be heard more than it is seen. Its acoustic punch allows for fewer units to be installed in large industrial complexes, increasing intelligibility while reducing installation and maintenance costs.

The TCPA-Omni can be powered directly from a fire alarm control panel, giving the customer a fully UL listed solution. It has three power taps (50W, 100W, and 200W), which are configured during installation.

The unit is corrosion resistant, allowing it to withstand the industry's harshest environmental conditions. The rugged housing is UV stable and will maintain a quality appearance over time.

APPLICATIONS

- Emergency Notifications
- Campus Communications
- Manufacturing Facilities
- Fire & Life Safety
- Warehouses
- Corporate Campuses
- Airports/Airport Hangars
- Arenas/Stadiums
- Parking Structures



ADDITIONAL COLORS AVAILABLE

SIGNALING c UL us

USSI | Ultra ELECTRONICS

ACOUSTIC SPECIFICATIONS:	50W	100W	200W
Sound Pressure Level (Peak @ 1 m)	123dB	126dB	129dB
Sound Pressure Level (Max RMS Broadband @ 1 m)	116dB	119dB	122dB
Sound Pressure Level (Max RMS Broadband @ 100 ft)	86dB	89dB	92dB
Sound Pressure Level (Max RMS 1 kHz @ 1 m)	113dB	116dB	119dB
Usable Range @ 70 dB	656ft	925ft	1,312ft
Dispersion	360° Horizontal		
Usable Frequency Response	350Hz - 5kHz		
UL Frequency Response	500Hz - 5kHz		

POWER REQUIREMENTS:	
Power	50, 100, 200 Watts
Input Voltage	70VRMS

PHYSICAL SPECIFICATIONS:	
Dimensions	18.38" DIA x 10.50" H (46.67cm DIA x 26.67cm H)
Weight	19lbs (8.62kg)
Housing Material	Composite
Housing Color	Gray, Red, or White

ENVIRONMENTAL:	
Operating Temperature Range	-20°C to 60°C
Operating Humidity Range	0-95% Non-Condensing
Ingress Protection	NEMA3R, UL (Dry, Damp, Wet)

CERTIFICATION:	
UL 1480	Fire Alarm, Emergency, & Commercial Use
ULC S541	Fire Alarm & Equipment
CSFM	California State Fire Marshal Listed



ADDITIONAL COLORS AVAILABLE

ORDERING INFORMATION:

90185A-801-XX-X	TCPA-Omni, 50W/100W/200W, 70 volt drive
04-A	Gray with red alert label
04-F	Gray with red fire label
04-N	Gray with no label
05-A	Red with white alert label
05-F	Red with white fire label
05-N	Red with no label
06-A	White with red alert label
06-F	White with red fire label
06-N	White with no label

Ultra ELECTRONICS

making a difference

Ultra Electronics
USSI
4868 East Park 30 Drive
Columbia City
Indiana, 46725-8861
USA
Tel: +1 260-248-3666
Email: sales@ultra-ussi.com
www.ultra-hyperspike.com
www.ultra-electronics.com

Ultra Electronics reserves the right to vary these specifications without notice.
© Ultra Electronics Limited 2015.
Printed in USA
P/N 90185A-PDS-OMNI Rev C