

CERTIFICADO DE PARTNER OFICIAL

ATEİS

fabricante de sistemas de megafonía, evacuación por voz y soluciones de audio profesional.

CERTIFICA QUE,

TOTENCOM CATALUNYA S.L.

es Partner Oficial Instalador Autorizado de ATEİS.

TOTENCOM cuenta con la formación técnica, los conocimientos y la experiencia necesarios para la instalación, programación y puesta en marcha de los sistemas de megafonía y audio profesional de ATEİS.

Asimismo, dispone de personal cualificado y de un servicio técnico propio para la asistencia, mantenimiento y soporte postventa de las soluciones ATEİS, garantizando el cumplimiento de los estándares de calidad y fiabilidad establecidos por el fabricante.

Este certificado se emite a solicitud de la empresa interesada para los efectos que estime oportunos.

En Terrassa, 10 de Noviembre de 2025



OSCAR GORINA

Director General de Ateis Iberia S.L.



BOUTIQUE

**SISTEMA PA/VA COMPACTO Y
AUTOAMPLIFICADO**

EN54
Certified



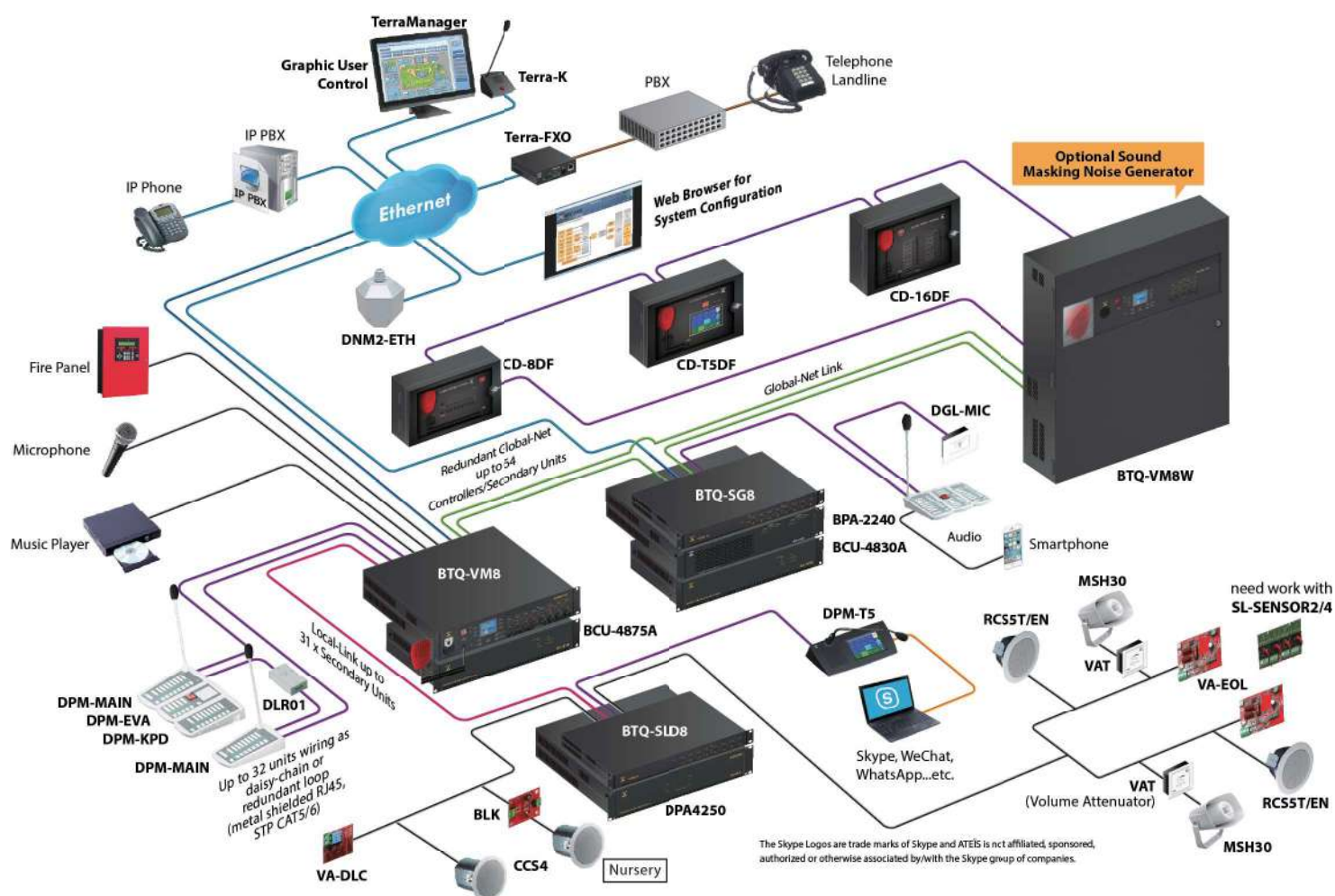
BOUTIQUE

EL MÁS SEGURO, FLEXIBLE Y CON UNA GRAN CANTIDAD DE FUNCIONES

EN 54-16
Certificado

Amplificador de clase D de alta
eficiencia integrado de 250 o 500 W

De 4 a
16 384 zonas





BOUTIQUE

UNA SOLUCIÓN INNOVADORA

El sistema BOUTIQUE es un sistema de PA/VA altamente flexible y autoamplificado dirigido a instalaciones pequeñas y grandes. El sistema se amplía desde un único controlador, con capacidad para tan sólo 4 zonas, hasta un gran sistema en red de 16.384 zonas, lo que hace que BOUTIQUE sea adecuado para una amplia variedad de aplicaciones. El controlador BTQ-VM4 de tamaño reducido ofrece 4 zonas supervisadas, mientras que el controlador BTQ-VM8 proporciona 8 zonas con mayor capacidad de ampliación mediante las unidades secundarias BTQ-SG8 o BTQ-SL8. El controlador BOUTIQUE viene totalmente integrado con un amplificador interno de clase D de alta eficiencia de 250 W o 500 W, y también está disponible en versión para montaje en bastidor y en pared.

BOUTIQUE ofrece una monitorización completa de las líneas de altavoces, micrófonos y amplificadores. Utilizando la tecnología de conmutación, un sistema BOUTIQUE es capaz de compartir amplificadores para múltiples zonas.

Añadiendo un amplificador de potencia externo secundario, puede aumentar la potencia en vatios, así como el amplificador de reserva. Cada BTQ-VM4/VM8/SG8 dispone de dos puertos remotos para micrófono de avisos, micrófono de detección de ruido ambiental, etc., mientras que el BTQ-SL8 tiene un puerto remoto. Se pueden conectar hasta 16 consolas de avisos al BTQ-SL8, y 32 al BTQ-VM4/VM8/SG8; el cableado puede ser en cadena o en bucle redundante.

CARACTERÍSTICAS

- Fácil configuración y sustitución desde el panel LCD de BTQ-VM4/8
- Navegador web para configuración avanzada, diagnóstico y registro
- Programador de eventos, incluida la gestión de timbres para colegios
- Soporta desde 4 zonas hasta 16.384 zonas utilizando la red global del BTQ-VM8/SG8
- Amplificador Clase D de 250 W o 500 W de alta eficiencia integrado
- Almacenamiento interno de mensajes de hasta 90 minutos
- Interfaz USB para la reproducción de archivos de audio y mensajes pregrabados
- Transmisión de música y avisos por IP a través de LAN/WAN
- Fácil integración con TERRACOM, TerraManager, teléfono IP mediante protocolo SIP
- Receptor de radio por Internet integrado
- Arquitectura de amplificador de conmutación de 2 canales de bajo coste
- Se pueden instalar atenuadores de volumen en las líneas de altavoces monitorizadas sin cable loopback
- Detección de ruido ambiente integrada para nivel de audio automático
- Consumo de energía extremadamente bajo en modo de espera
- Soporta una carga de altavoces de hasta 1000W por zona, 2000W máx. por unidad
- Control por terceros mediante RS232 o Ethernet
- Pantalla LCD en color de 2,2" para el estado del sistema y los ajustes de configuración
- Módulo de enmascaramiento de sonido opcional: reduce la inteligibilidad de la voz humana para proteger la privacidad de las conversaciones privadas

SYSTEM SOLUTIONS

RENTABILIDAD, FACILIDAD DE INSTALACIÓN Y CONFIGURACIÓN

Para la mayoría de las instalaciones PA/VA, sabemos cuánto trabajo se necesita para completar todos los trabajos, aquí presentamos la función "setup wizard" del sistema, el sistema puede ser fácilmente configurado y reemplazado desde el panel LCD del controlador. Esto puede ayudarle a ahorrar su tiempo, costes de mano de obra y coste de material así como la capacidad de aprender sin necesidad de formación.

SOLUCIONES DE PA/VA EN RED A GRAN ESCALA

BOUTIQUE se adapta a cualquier tamaño de instalación, tanto si se trata de un pequeño sistema local como de un gran sistema complejo multizona y multientrada. Puede ampliarse desde tan sólo 4 zonas hasta redes de ámbito nacional con hasta 16 384 zonas A/B a través de cable STP CAT5/6 (hasta 100 m entre unidades) o mediante fibra multimodo (2 km), fibra monomodo (20 km) o incluso a mayor distancia o cualquier combinación de ellas. Si la fibra o el cobre no son una opción, las unidades también pueden conectarse en red a través de IP. Este sencillo pero potente diseño confiere a BOUTIQUE una capacidad de ampliación sin igual.

CONTROL, GESTIÓN Y SUPERVISIÓN MEDIANTE NAVEGADOR WEB

El sistema se programa y controla a través del navegador web y el panel LCD del controlador. Los ajustes avanzados, como el volumen, los elementos DSP, el programador de eventos y timbres, la gestión de prioridades, el monitor, los diagnósticos, el registro, etc., se pueden configurar a través del navegador web.

BGM, TRANSMISIÓN DE AUDIO Y EVACUACIÓN POR VOZ

La música de fondo y los mensajes de voz se pueden distribuir a diferentes grupos de zonas utilizando el amplificador integrado o bien con un amplificador externo. La fuente de BGM incluye entrada de línea, streaming de red, almacenamiento interno de mensajes (90 minutos) o mediante unidad "flash USB".

ESTRUCTURA ABIERTA INTEGRADA

La interfaz VoIP con protocolo SIP estándar permite una fácil integración con IP-PBX y teléfono IP; o para la integración completa con TERRACOM para paginación de red, intercomunicación, control, monitorización del sistema y transmisión de audio en intranet, así como aplicaciones de Internet. Además, BOUTIQUE también permite la integración con el control de terceros a través de RS232 y Ethernet.

REDUNDANCIA DE RED

Basado en la tecnología de red redundante de ATEİS, BOUTIQUE lleva la fiabilidad al siguiente nivel con una arquitectura de redundancia de red que ofrece la mejor protección de red en caso de fallo del sistema. Si uno de los cables de red se desconecta inesperadamente, la red redundante recuperará la comunicación para que el sistema siga funcionando. Además, las consolas de avisos pueden conectarse en cadena o en bucle redundante para garantizar una aplicación segura.



COMPONENTES DE SISTEMA

BTQ-VM4

Controlador PA/VA, 4 Zonas

EN54
Certified



250 W/500 W Class-D amp built-in

BTQ-VM8

Controlador PA/VA, 8 Zonas

EN54
Certified



250 W/500 W Class-D amp built-in

BTQ-SG8

Unidad global secundaria PA/VA, 8 Zonas

EN54
Certified



BTQ-SL8

Unidad Local Secundaria PA/VA, 8 Zonas

EN54
Certified



BTQ-VM4W

Controlador mural PA/VA, 4 Zonas



Amplificador de 250 W/500 W de clase D
y cargador de batería integrados

BTQ-VM8W

Controlador mural PA/VA, 8 Zonas



Amplificador de 250 W/500 W de clase D
y cargador de batería integrados

AMPLIFICADORES Y CARGADORES DE BATERÍAS

BPA

Amplificador de potencia puente Clase AB



- BPA-1240: 240 W x 1
- BPA-1480: 480 W x 1
- BPA-2060: 60 W x 2
- BPA-2120: 120 W x 2
- BPA-2240: 240 W x 2
- BPA-2480: 480 W x 2
- BPA-1000: 1000 W x 1

DPA

Amplificador de potencia digital



EN54
Certified

- DPA8060: 60 W x 8
- DPA4125: 125 W x 4
- DPA4250: 250 W x 4
- DPA2500: 500 W x 2

BCU

Cargador de baterías con monitorización avanzada



EN54
Certified

- BCU-4830A: 3 amp/30 amp
- BCU-4875A: 6 amp/75 amp

CONSOLAS DE MEGAFONÍA DIGITALES



CD-8DF
Consola de micrófono para megafonía de montaje en pared 8 teclas, botón EVAC



CD-16DF
Consola de micrófono para megafonía de montaje en pared 16 teclas, botón EVAC



CD-T5DF
Consola de micrófono para megafonía de montaje en pared, con TouchPanel de 5", botón EVAC



ACCESORIOS

VAT-35E/120E/200E
Atenuador de volumen



DNM2-ETH
Micrófono digital con detección de ruido ambiental



Tipo de pendiente

DGL-MIC
Micrófono de montaje empotrado/de techo



Tipo de montaje empotrado

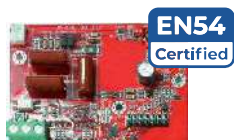
DLR-01
Repetidor de bucle digital



DLPJ
Inyector de potencia digital



VA-EOL
Módulo de fin de línea SP para multirramal/3 hilos



VA-DLC-1000
Módulo condensador de carga ficticia



BLKR-60/ BLKR-200
Bloqueador de señal 20 kHz



60 W/200 W

SL-SENSOR2/SL-SENSOR4
Sensor de cortocircuito de línea de altavoces de 3 hilos



2 /4 canales

INFORMACIÓN DE PEDIDO

NU. MODELO	PASO 1	PASO 2	PASO 3	PASO 4	PASO 5	PASO 6	DESCRIPCIÓN DEL MODELO
BTQ-VM	EOL Driver	Número de zona	250W/500W	Montaje en pared/en rack	Global Net Card	Región	Controlador PA/VA
BTQ-SG		8	N/A	N/A	N/A	N/A	Unidad Global Secundaria PA/VA
BTQ-SL							Unidad Local Secundaria PA/VA

EOL DRIVER				
BTQ-VM	BTQ-SG	BTQ-SL		
✓	✓	✓		Ninguno
✓	✓	✓	D	EOL Driver
NÚMERO DE ZONAS				
✓	—	—	4	4 Zonas
✓	✓	✓	8	8 Zonas
250W/500W				
✓	—	—	25	250 W
✓	—	—	50	500 W
MONTAJE EN PARED O EN RACK				
✓	—	—	Ninguno	Montaje en rack
✓	—	—	W1	Montaje en pared (Amp x 1)
✓	—	—	W2	Montaje en pared (Amp x 2)
GLOBAL NET CARD				
✓	✓	—		Ninguno
✓	✓	—	RR	RJ45(A)-(B)
✓	✓	—	MR	Fibra Multimodo(A)-RJ45(B)
✓	✓	—	SR	Fibra Monomodo(A)-RJ45(B)
✓	✓	—	RM	RJ45(A)-Fibra Multimodo(B)
✓	✓	—	RS	RJ45(A)-Fibra Monomodo(B)
✓	✓	—	MM	Fibra Multimodo(A)-(B)
✓	✓	—	SS	Fibra Monomodo(A)-(B)
REGIÓN				
✓	—	—		220~240 VCA, +48 VCC Alimentación, Salida Amp 100 V
✓	—	—	D	Sólo alimentación -48 VCC, Salida Amp 100 V (sólo para BTQ-VM 250 W, N/A para BTQ-VMW1/VMW2)
✓	—	—	U	100~120 VCA, +48 VCC Alimentación, Salida Amp 70 V
✓	—	—	T	100~120 VCA, +48 VCC Alimentación, Salida Amp 100 V

NETWORK CARD	
NET2-RR	Netcard, RJ45(A)-(B)
NET2-MR	Netcard, Fibra Multi(A)-RJ45(B)
NET2-SR	Netcard, Fibra Mono(A)-RJ45(B)
NET2-RM	Netcard, RJ45(A)-Fibra Multi(B)
NET2-RS	Netcard, RJ45(A)-Fibra Mono(B)
NET2-MM	Netcard, Fibra Multi(A)-(B)
NET2-SS	Netcard, Fibra Mono(A)-(B)

PILAR DE COBRE	
CP-PILLAR 15	Pilar de cobre 15 mm x 50
CP-PILLAR 30	Pilar de cobre 35 mm x 50



ESCUELAS



TIENDAS



CENTROS COMERCIALES



HOTELES



ESTACIONES DE TREN



UNIVERSIDADES



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MAGELLAN COMPACT

Full-Duplex Digital Counter Intercom System with Induction Loop

MAGELLAN Compact is a full-duplex, digital counter intercom system. Thanks to its integrated AEC and FBX functions, the MAGELLAN Compact provides crystal clear voice without any feedback or echo. It is programmable using any web browser on PC/Laptop. Some intelligent extra features include an extra 0dB output for external sound distribution, logic I/O and relays for external control. The optional **BME** induction loop frame can be connected directly to the **PMUC** console to make sure that people with hearing aids can clearly understand the voice of the person behind the counter. This option follows the norm EN 60118-4 of March 2009.

DSP-FEATURES

- Feedback Suppression
- 6 dB Push-Button for Higher Gain
- Adjustable Standby/Activation Time
- High-Pass Filter for Microphones
- Induction Loop Amplifier
- 0dB Output for Remote Announcements
- 1 x Relay/Contact Closure Out
- Contact Input for „Calling Function“



MAGELLAN COMPACT is the perfect solution if you need easy and quick installation, excellent speech intelligibility and no feedback!

COMPLETE SYSTEM SOLUTION !

PAX ProAV Group

Inspiring, dedicated Audio-Visual technology
www.paxproavgroup.com

www.ateis.com



MAGELLAN COMPACT

Full-Duplex Digital Counter Intercom System with Induction Loop



PMUC

Compact central unit with integrated electronics for digital speech processing (DSP). It contains a fixed mounted Gooseneck Mic, a loudspeaker and contains all functional buttons to start the intercom call.



MC

Vandal-proofed unidirectional microphone, to be mounted on the customers side.



HPU

Loudspeaker unit to be mounted on customer side.



BME

Optional induction loop to be mounted in the ceiling.



SPECIFICATIONS

- Power Supply: 230VAC/50 Hz (0,2A)
- Max. Amplifier Power: 4W
- Max. Input Gain: -18dBu
- Signal to Noise Ratio: >0,4% / 1W
- Bandwidth: 50-7000Hz (-3dB)
- Dynamic: > 58dB
- PMUC Environmental Temperature: -10°C to +40°C
- Relative Humidity: 99%
- IP Rating: IP23
- Configuration by USB interface and dedicated software (all Windows versions)



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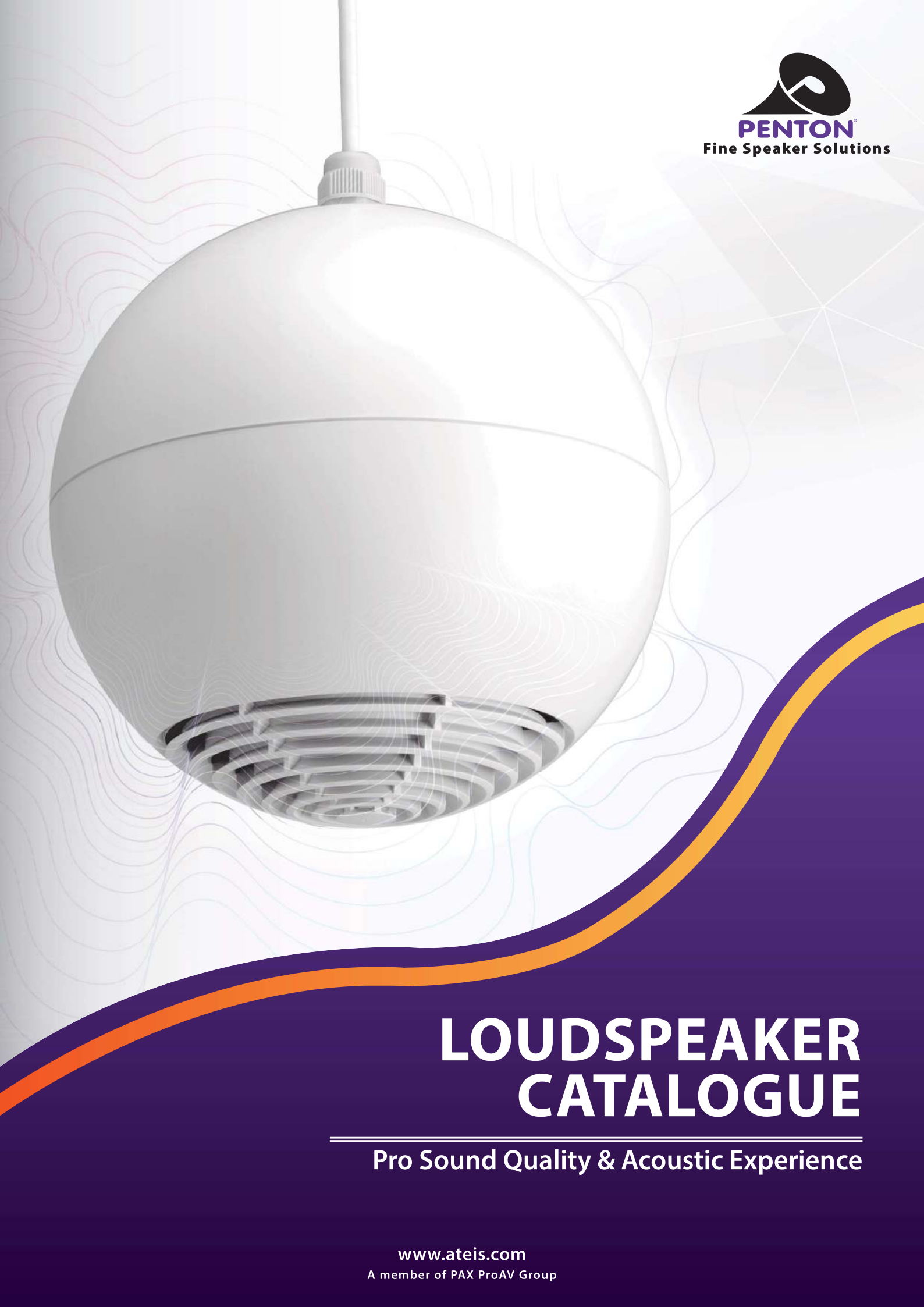


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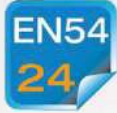


LOUDSPEAKER CATALOGUE

Pro Sound Quality & Acoustic Experience

www.ateis.com

A member of PAX ProAV Group

**APC Series****GB Series****CELL Series****CAD Series**

Loudspeakers from PENTON are registered ISO9001 quality approved and have more EN 54-24 certified speakers than any other manufacturers. With over 35 years' experience in the design and production of high quality Public Address and Voice Evacuation (PA/VA) and Audio over IP Products. Supplying well-known companies, for major projects throughout the world, PENTON have a proven track record for designing products that are visually harmonized combined with maximum performance.

LOUDSPEAKERS

Ceiling Speakers	4
Projector Speakers	17
Horn Speakers	20
Column Speakers	25
Wallmount Speakers	26
Spherical Speakers	36
Cabinet Speakers	37

RCS Series

Round Metal Ceiling Loudspeakers

FEATURES

- Excellent reproduction of speech and music
- High acoustical performance
- Elegant and discreet design
- Simple installation

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	RCS 3/T	RCS 4/T	RCS 5/T	RCS 6/T	RCS 8/T
Tapping 100 volts line, watts	6/4/2	4/2/1/0.5/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	100 - 20,000	130 - 18,000	70 - 17,500	65 - 18,500	65 - 17,000
SPL @ 1 m, 1 watt, dB	87	84	94	95	94
SPL @ 1 m, full power, dB	94	90	102	103	104
Dispersion at 1k/2k Hz, degrees	180/180	180/180	180/180	180/110	180/110
Dimensions, mm	104,5 x 85	132 x 93	189 x 110	239 x 110	280 x 110
Cut-out, mm	85	119	160	190	238
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel	Steel	Steel
IP-rating	21	21	21	21	21
EN 54-24 compliance	No	No	No	No	No
Back cover	No	No	No	No	No

RCS Series



Round Coaxial Metal Ceiling Loudspeakers

FEATURES

- Excellent reproduction of speech and music
- High acoustical performance
- Elegant and discreet design
- Two way speaker
- Simple installation
- Back cover

APPLICATIONS

- Hotels
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- Administrations



TECHNICAL CHARACTERISTICS

	RCS 5/TCOAX	RCS5FTCX/EN	RCS 6/TCOAX	RCS6FTCX/EN	RCS 8/TCOAX	RCS8FTCX/EN
Tapping 100 volts line, watts	10/5/2.5/1.25	10/5/2.5/1.25	10/5/2.5/1.25	10/5/2.5/1.25	20/10/5/2.5	20/10/5/2.5
Effective frequency range, Hz	70 - 18,500	130 - 18,500	65 - 20,000	130 - 18,500	60 - 20,000	100 - 20,000
SPL @ 1 m, 1 watt, dB	91	91	91	92	91	94
SPL @ 1 m, full power, dB	101	101	101	102	104	107
Dispersion at 1k/2k Hz, degrees	180/180	175/136 Horizontal 175/97 Vertical	180/180	180/180 Horizontal 180/180 Vertical	180/100	180/180 Horizontal 180/180 Vertical
Dimensions, mm	189 x 110	189 x 110	239 x 110	239 x 110	280 x 110	280 x 112
Cut-out, mm	160	164	190	200	238	246
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel	Steel	Steel	Steel
IP-rating	21	21	21	21	21	21
EN 54-24 compliance	No	Yes	No	Yes	No	Yes
Back cover	Yes	Yes	Yes	Yes	Yes	Yes

RCS Series

Round Metal Ceiling Loudspeakers

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APPLICATIONS

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TECHNICAL CHARACTERISTICS

	RCS4FT/EN	RCS5FT/EN	RCS6FT/EN	RCS8FT/EN
Tapping 100 volts line, watts	4/2/1/0.5/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	10/5/2.5/1.25
Effective frequency range, Hz	200 - 18,000	150 - 18,000	180 - 18,000	150 - 17,000
SPL @ 1 m, 1 watt, dB	83	94	95	93
SPL @ 1 m, full power, dB	89	102	102	103
Dispersion at 1k/2k Hz, degrees	180/180 Horizontal 180/180 Vertical	177/93 Horizontal 176/118 Vertical	172/79 Horizontal 173/80 Vertical	159/79 Horizontal 159/81 Vertical
Dimensions, mm	132 x 97	189 x 110	239 x 110	280 x 112
Cut-out, mm	119	200	200	246
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel	Steel
IP-rating	21	21	21	21
EN 54-24 compliance	Yes	Yes	Yes	Yes
Back cover	Yes	Yes	Yes	Yes

RCS Series



Round Metal Ceiling Loudspeakers with Capacitor

FEATURES

- Excellent reproduction of speech and music
- High acoustical performance
- Elegant and discreet design
- Simple installation
- Back cover
- Capacitor for DC line monitoring

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	RCS4FT/ENC	RCS5FT/ENC	RCS6FT/ENC	RCS8FT/ENC
Tapping 100 volts line, watts	4/2/1/0.5/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	10/5/2.5/1.25
Effective frequency range, Hz	200 - 18,000	150 - 18,000	150 - 18,000	150 - 17,000
SPL @ 1 m, 1 watt, dB	83	94	95	93
SPL @ 1 m, full power, dB	89	102	102	103
Dispersion at 1k/2k Hz, degrees	180/180 Horizontal 180/180 Vertical	177/93 Horizontal 176/118 Vertical	172/79 Horizontal 173/80 Vertical	159/79 Horizontal 159/81 Vertical
Dimensions, mm	132 x 97	189 x 110	239 x 110	280 x 112
Cut-out, mm	119	164	200	246
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel	Steel
IP-rating	21	21	21	21
EN 54-24 compliance	Yes	Yes	Yes	Yes
Back cover	Yes	Yes	Yes	Yes



RCS Series

Round Coaxial Metal Ceiling Loudspeakers with Capacitor

FEATURES

- Excellent reproduction of speech and music
- High acoustical performance
- Elegant and discreet design
- Two way speaker
- Simple installation
- Back cover
- Capacitor for DC line monitoring

APPLICATIONS

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- Administrations



TECHNICAL CHARACTERISTICS

	RCS5FTCX/ENC	RCS6FTCX/ENC	RCS8FTCX/ENC
Tapping 100 volts line, watts	10/5/2.5/1.25	10/5/2.5/1.25	20/10/5/2.5
Effective frequency range, Hz	130 - 18,500	130 - 18,500	100 - 20,000
SPL @ 1 m, 1 watt, dB	91	91	94
SPL @ 1 m, full power, dB	101	101	107
Dispersion at 1k/2k Hz, degrees	175/136 Horizontal 175/97 Vertical	180/180 Horizontal 180/180 Vertical	180/80 Horizontal 180/80 Vertical
Dimensions, mm	189 x 110	239 x 110	280 x 112
Cut-out, mm	164	200	246
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel
IP-rating	21	21	21
EN 54-24 compliance	Yes	Yes	Yes
Back cover	Yes	Yes	Yes

RGS Series

Round Ceiling Loudspeakers



FEATURES

- Simple installation
- Bayonet system
- Back cover
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	RGS 5/T	RGS5FT/EN	RGS5FT/ENC	RGS 6/T	RGS6FT/EN	RGS6FT/ENC
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	100 - 17,500	100 - 17,500	100 - 17,500	100 - 17,500	100 - 17,500	100 - 17,500
SPL @ 1 m, 1 watt, dB	87	87	87	92	92	92
SPL @ 1 m, full power, dB	95	95	95	100	100	100
Dispersion at 1k/2k Hz, degrees	180/160	169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical	180/180	169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical
Dimensions, mm	190 x 73	190 x 94	190 x 94	215 x 73	215 x 106	215 x 106
Cut-out, mm	172	172	172	195	195	195
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel	Steel	Steel	Steel
IP-rating	21	21	21	21	21	21
EN 54-24 compliance	No	Yes	Yes	No	Yes	Yes
Back cover	No	Yes	Yes	No	Yes	Yes



RGS Series

Round A/B Ceiling Loudspeakers

FEATURES

- A/B line mode
- Simple installation
- Bayonet system
- Back cover
- Capacitor for DC line monitoring (ENC version)
- Plastic terminal and without fuse (X version)

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	RGS8FTAB/EN	RGS8FTAB/ENC	RGS8FTABX/EN
Tapping 100 volts line, watts	2 x (6/3/1.5/0.75/0.25)	2 x (6/3/1.5/0.75/0.25)	2 x (6/3/1.5/0.75/0.25)
Effective frequency range, Hz	300 - 17,500	300 - 17,500	300 - 17,500
SPL @ 1 m, 1 watt, dB	94	94	94
SPL @ 1 m, full power, dB	102	102	102
Dispersion at 1k/2k Hz, degrees	169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical
Dimensions, mm	265 x 107	265 x 107	265 x 107
Cut-out, mm	238	238	238
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel
IP-rating	21	21	21
EN 54-24 compliance	Yes	Yes	Yes
Back cover	Yes	Yes	Yes

RLS Series

Round Budget Ceiling Loudspeakers



FEATURES

- Excellent reproduction of speech and music
- Economical
- Simple installation

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	RLS 5/T	RLS 5/FTS	RLS5T/EN	RLS5FTS/EN
Tapping 100 volts line, watts	6/3/1.5	6/3/1.5	6/3/1.5	6/3/1.5
Effective frequency range, Hz	100 - 12,000	100 - 12,000	100 - 16,000	150 - 18,500
SPL @ 1 m, 1 watt, dB	90	90	93	93
SPL @ 1 m, full power, dB	98	98	101	101
Dispersion at 1k/2k Hz, degrees			173/139 Horizontal 184/114 Vertical	167/151 Horizontal 173/146 Vertical
Dimensions, mm	174 x 64	174 x 64	186 x 60	186 x 146
Cut-out, mm	155	155	157	162
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel	Steel
IP-rating		21	21	21
EN 54-24 compliance	No	No	Yes	Yes
Back cover	No	Yes	Yes	Yes

RNS Series

Round Budget Metal Ceiling Loudspeakers

FEATURES

- Excellent reproduction of speech and music
- Economical
- Simple installation

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	RNS 5/T	RNS 6/T	RNS 8/T
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	120 - 17,500	110 - 18,500	80 - 18,500
SPL @ 1 m, 1 watt, dB	90	92	92
SPL @ 1 m, full power, dB	97	99	99
Dispersion at 1k/2k Hz, degrees	180	160	130
Dimensions, mm	180 x 59	227 x 59	280 x 72
Cut-out, mm	155	198	244
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel
IP-rating			
EN 54-24 compliance	No	No	No
Back cover	No	No	No

PCL Series

Round Plastic Ceiling Loudspeakers

FEATURES

- Economical
- Simple installation

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	PCL 5/T	PCL 6/T
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	100 - 17,500	85 - 18,500
SPL @ 1 m, 1 watt, dB	83	82
SPL @ 1 m, full power, dB	91	90
Dispersion at 1k/2k Hz, degrees	180/150	180/120
Dimensions, mm	203 x 80	234 x 80
Cut-out, mm	168	194
Colour	White RAL9016	White RAL9016
Material	ABS	ABS
IP-rating	21	21
EN 54-24 compliance	No	No
Back cover	No	No

CCS Series

Round Pro-Sound Ceiling Loudspeakers

FEATURES

- Very good acoustic quality
- Bass reflex
- Two versions are available: 16 ohms (CCS 4 & CCS 6) and 100 volts (CCS 4/T & CCS 6/T)

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	CCS 4	CCS 6	CCS 4/T	CCS 6/T
Tapping 100 volts line, watts	30	60	30/15/7.5/3.75	60/30/15/7.5
Effective frequency range, Hz	65 - 19,500	70 - 20,000	65 - 19,500	70 - 20,000
SPL @ 1 m, 1 watt, dB	86	88	86	88
SPL @ 1 m, full power, dB	101	104	101	104
Dispersion at 1k/2k Hz, degrees	180/160	180/160	180/160	180/160
Dimensions, mm	195.5 x 206.74	263 x 214	195.5 x 206.74	263 x 214
Cut-out, mm	168	230	168	230
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	ABS	ABS	ABS	ABS
IP-rating				
EN 54-24 compliance	No	No	No	No
Back cover	Yes	Yes	Yes	Yes

SCS Series

Square Metal Ceiling Loudspeakers

FEATURES

- Excellent reproduction of speech and music
- High sound pressure
- Square form

APPLICATIONS

- Hotels
- Restaurants
- Offices
- Train stations
- Bars
- Retails
- Administrations



TECHNICAL CHARACTERISTICS

	SCS 5/T	SCS 6/T
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	85 - 17,000	85 - 18,500
SPL @ 1 m, 1 watt, dB	92	92
SPL @ 1 m, full power, dB	100	100
Dispersion at 1k/2k Hz, degrees	180	160
Dimensions, mm	184 x 184 x 57	220 x 220 x 59
Cut-out, mm	160	182
Colour	White RAL9016	White RAL9016
Material	Steel	Steel
IP-rating	21	21
EN 54-24 compliance	No	No
Back cover	Yes	Yes

BCL Series

Round Bathroom Waterproof Ceiling Loudspeaker

FEATURES

- Compact design
- Economical
- Specifically designed for use in humid and saline environment
- Water and dust resistant, IP56

APPLICATIONS

- Saunas
- SPA
- Aquatic centers
- Showers
- Cloakrooms



TECHNICAL CHARACTERISTICS

	BCL 3/T
Tapping 100 volts line, watts	6/3/1.5
Effective frequency range, Hz	220 - 18,500
SPL @ 1 m, 1 watt, dB	89
SPL @ 1 m, full power, dB	96
Dispersion at 1k/2k Hz, degrees	140
Dimensions, mm	139 x 117.5
Cut-out, mm	115
Colour	White RAL9016
Material	Plastic
IP-rating	55
EN 54-24 compliance	No
Back cover	Yes

CAD Series

Plastic Sound Projectors



FEATURES

- Excellent reproduction of speech and music
- Performance hard to match
- Elegant and modern design
- Simple installation
- Made of a UV-resistant reinforced ABS plastic
- Water and dust resistant, IP66

APPLICATIONS

- Train stations
- Streets
- Aquatic centers
- Schools
- Car parks
- Administrations



TECHNICAL CHARACTERISTICS

	CAD 10/T	CAD10T/EN	CAD10T/ENC	CAD 20/T	CAD 20T/EN	CAD 20T/ENC
Tapping 100 volts line, watts	10/5/2.5/1.25	10/5/2.5/1.25	10/5/2.5/1.25	20/10/5/2.5	20/10/5/2.5	20/10/5/2.5
Effective frequency range, Hz	120 - 18,000	110 - 18,000	110 - 18,000	110 - 18,000	110 - 18,000	110 - 18,000
SPL @ 1 m, 1 watt, dB	90	90	90	91	91	91
SPL @ 1 m, full power, dB	100	100	100	104	104	104
Dispersion at 1k/2k Hz, degrees	180/120	206/111 Horizontal 219/115 Vertical	206/111 Horizontal 219/115 Vertical	180/120	189/126 Horizontal 196/120 Vertical	189/126 Horizontal 196/120 Vertical
Dimensions, front and depth, mm	138 x 204	138 x 204	138 x 204	138 x 204	138 x 204	138 x 204
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	ABS	ABS	ABS	ABS	ABS	ABS
IP-rating	66	66	66	66	66	66
EN 54-24 compliance	No	Yes	Yes	No	Yes	Yes

CELL Series

Metal Sound Projectors



FEATURES

- Simple installation
- Anti-vandal protected metal housing
- Water and dust resistant
- Capacitor for DC line monitoring

APPLICATIONS

- Train stations
- Streets
- Aquatic centers
- Schools
- Car parks
- Administrations



TECHNICAL CHARACTERISTICS

	CELL 10/T	CELL10T/EN	CELL10T/ENC	CELL 20/T	CELL20T/EN	CELL20T/ENC
Tapping 100 volts line, watts	10/5/2.5/1.25	10/5/2.5/1.25	10/5/2.5/1.25	20/10/5/2.5	20/10/5/2.5	20/10/5/2.5
Effective frequency range, Hz	120 - 18,000	120 - 18,000	120 - 18,000	110 - 16,000	110 - 16,000	110 - 16,000
SPL @ 1 m, 1 watt, dB	91	91	91	88	88	88
SPL @ 1 m, full power, dB	101	101	101	101	101	101
Dispersion at 1k/2k Hz, degrees	180/120	203/116 Horizontal 199/118 Vertical	203/116 Horizontal 199/118 Vertical	180/120	208/123 Horizontal 210/121 Vertical	208/123 Horizontal 210/121 Vertical
Dimensions, front and depth, mm	140 x 191	140 x 191	140 x 191	140 x 191	140 x 191	140 x 191
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
IP-rating	55	66	66	55	66	66
EN 54-24 compliance	No	Yes	Yes	No	Yes	Yes

CELL Series

Metal Bi-Directional Sound Projectors



FEATURES

- Excellent reproduction of speech and music
- 2 built-in speakers
- Simple installation, ceiling or wall
- Anti-vandal protected metal housing
- Water and dust resistant, IP55
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Train stations
- Streets
- Aquatic centers
- Schools
- Car parks
- Administrations



TECHNICAL CHARACTERISTICS

	CELL 10/BDT	CELL10BT/EN	CELL10BT/ENC	CELL 20/BDT
Tapping 100 volts line, watts	20/10/5/2.5	20/10/5/2.5	20/10/5/2.5	40/20/10/5
Effective frequency range, Hz	120 - 18,000	120 - 18,000	120 - 18,000	120 - 18,000
SPL @ 1 m, 1 watt, dB	88	88	88	87
SPL @ 1 m, full power, dB	101	101	101	103
Dispersion at 1k/2k Hz, degrees	160/120	158/222 Horizontal 130/211 Vertical	158/222 Horizontal 130/211 Vertical	160/120
Dimensions, front and depth, mm	140 x 196	230 x 192 x 174	230 x 192 x 174	140 x 196
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Aluminium	Aluminium	Aluminium	Aluminium
IP-rating	55	55	55	55
EN 54-24 compliance	No	Yes	Yes	No

APH Series

Weatherproof Horn Loudspeakers



FEATURES

- High acoustical performance
- Made of a UV-resistant reinforced ABS plastic
- Specifically designed for use in humid and saline environment
- Water and dust resistant, IP56

APPLICATIONS

- Trains stations
- Streets
- Small stadiums
- Industrial sites



TECHNICAL CHARACTERISTICS

	APH10T/ENC	APH20T/ENC	APH30T/ENC
Tapping 100 volts line, watts	10/5/2.5/1.25	20/10/5/2.5	30/15/7.5/3.75
Effective frequency range, Hz	340 - 16,000	310 - 16,000	260 - 16,000
SPL @ 1 m, 1 watt, dB	105	107	108
SPL @ 1 m, full power, dB	115	120	122
Dispersion at 1k/2k Hz, degrees	139/74 Horizontal 173/96 Vertical	111/62 Horizontal 148/84 Vertical	105/49 Horizontal 142/68 Vertical
Dimensions, front and depth, mm	172 x 131 x 227	219 x 157 x 259	258 x 180 x 280
Colour	Grey RAL7035	Grey RAL7035	Grey RAL7035
Material	Plastic	Plastic	Plastic
IP-rating	66	66	66
EN 54-24 compliance	Yes	Yes	Yes

PH Series

Weatherproof Horn Loudspeakers

FEATURES

- Simple installation
- Made of a UV-resistant reinforced ABS plastic
- Specifically designed for use in humid and saline environment
- Water and dust resistant, IP56

APPLICATIONS

- Trains stations
- Streets
- Small stadiums
- Industrial sites



TECHNICAL CHARACTERISTICS

	PH 10/T	PH 20/T	PH 30/T
Tapping 100 volts line, watts	10/5/2.5/1.25	20/10/5/2.5	30/15/7.5/3.75
Effective frequency range, Hz	400 - 8,000	250 - 8,000	330 - 8,000
SPL @ 1 m, 1 watt, dB	97	101	103
SPL @ 1 m, full power, dB	107	114	118
Dispersion at 1k/2k Hz, degrees	180/110	130/70	110/70
Dimensions, front and depth, mm	138 x 200	203 x 254	238 x 287
Colour	Grey RAL7035	Grey RAL7035	Grey RAL7035
Material	Plastic	Plastic	Plastic
IP-rating	56	56	56
EN 54-24 compliance	No	No	No

MHS Series

Weatherproof Metal Horn Loudspeakers

FEATURES

- Metal housing
- Water and dust resistant, IP66
- Capacitor for DC line monitoring

APPLICATIONS

- Trains stations
- Streets
- Small stadiums
- Industrial sites



TECHNICAL CHARACTERISTICS

	MHS20T/ENC
Tapping 100 volts line, watts	20/10/5/2.5/1.25
Effective frequency range, Hz	300 - 16,500
SPL @ 1 m, 1 watt, dB	101
SPL @ 1 m, full power, dB	114
Dispersion at 1k/2k Hz, degrees	143/66 Horizontal 143/66 Vertical
Dimensions, front and depth, mm	217 x 297
Colour	Grey RAL7035
Material	Aluminium
IP-rating	66
EN 54-24 compliance	Yes

MSH Series

Weatherproof Music Horn Loudspeakers



FEATURES

- Excellent reproduction of music
- Excellent audio quality
- Simple installation
- Made of a UV-resistant reinforced ABS plastic
- Specifically designed for use in humid and saline environment
- Water and dust resistant, IP66
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Trains stations
- Streets
- Small stadiums
- Industrial sites



TECHNICAL CHARACTERISTICS

	MSH 30/T	MSH30T/EN	MSH30T/ENC	MSH 60/T
Tapping 100 volts line, watts	30/15/7.5/3.75	30/15/7.5/3.75	30/15/7.5/3.75	60/30/15/7.5
Effective frequency range, Hz	70 - 16,500	70 - 16,500	70 - 16,500	60 - 16,500
SPL @ 1 m, 1 watt, dB	99	99	99	99
SPL @ 1 m, full power, dB	114	114	114	117
Dispersion at 1k/2k Hz, degrees	70/120 Horizontal 110/110 Vertical	56/98 Horizontal 96/52 Vertical	56/98 Horizontal 96/52 Vertical	100/120 Horizontal 60/120 Vertical
Dimensions, front and depth, mm	442 x 260 x 287.5	442 x 260 x 287.5	442 x 260 x 287.5	440 x 270 x 290
Colour	Grey RAL7035	Grey RAL7035	Grey RAL7035	Grey RAL7035
Material	Plastic	Plastic	Plastic	Plastic
IP-rating	66	66	66	65
EN 54-24 compliance	No	Yes	Yes	No

MPS Series

Music Horn Loudspeakers

FEATURES

- Excellent reproduction of music
- Excellent audio quality
- Compact design
- Simple installation
- Made of a UV-resistant reinforced ABS plastic
- Specifically designed for use in humid and saline environment
- Water and dust resistant, IP66
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Trains stations
- Streets
- Small stadiums
- Industrial sites



TECHNICAL CHARACTERISTICS

	MPS 15/T	MPS15T/ENC	MPS 30/T
Tapping 100 volts line, watts	15/7.5/3.75/1.875	15/7.5/3.75/1.875	30/15/7.5/3.75
Effective frequency range, Hz	70 - 16,500	70 - 16,500	70 - 16,500
SPL @ 1 m, 1 watt, dB	97	97	99
SPL @ 1 m, full power, dB	109	109	112
Dispersion at 1k/2k Hz, degrees	50/30 Horizontal 90/90 Vertical	91/52 Horizontal 151/102 Vertical	50/30 Horizontal 90/90 Vertical
Dimensions, LxHxP, mm	329 x 181 x 297	334 x 181 x 295	329 x 181 x 297
Colour	Grey RAL7035	Grey RAL7035	Grey RAL7035
Material	Plastic	Plastic	Plastic
IP-rating	33	33	33
EN 54-24 compliance	No	Yes	No

MCS Series

2-Way Metal Column Loudspeaker



FEATURES

- Excellent reproduction of speech and music
- High acoustical performance
- Elegant and modern design
- Specifically designed for use in areas with complex acoustics
- Water and dust resistant, IP55

APPLICATIONS

- Train stations
- Subway stations
- Airports
- Houses of worship
- Administrations



TECHNICAL CHARACTERISTICS

	MCS20T/EN	MCS20T/ENC	MCS40T/EN	MCS40T/ENC	MCS80T/EN	MCS80T/ENC
Tapping 100 volts line, watts	20/10/5/2.5	20/10/5/2.5	40/20/10/5	40/20/10/5	80/40/20/10	80/40/20/10
Effective frequency range, Hz	170 - 17,000	170 - 17,000	170 - 18,000	170 - 18,000	180 - 18,000	180 - 18,000
SPL @ 1 m, 1 watt, dB	92	92	92	92	96	96
SPL @ 1 m, full power, dB	105	105	108	108	115	115
Dispersion at 1k/2k Hz, degrees	179/140 Horizontal 100/28 Vertical	179/140 Horizontal 100/28 Vertical	231/156 Horizontal 45/20 Vertical	231/156 Horizontal 45/20 Vertical	175/131 Horizontal 35/14 Vertical	175/131 Horizontal 35/14 Vertical
Dimensions, L x H x P, mm	98 x 368 x 90	98 x 368 x 90	98 x 615 x 90	98 x 615 x 90	98 x 970 x 90	98 x 970 x 90
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
IP-rating	55	55	55	55	55	55
EN 54-24 compliance	Yes	Yes	Yes	Yes	Yes	Yes

PBC Series

Moulded Cabinet Loudspeakers

FEATURES

- Excellent reproduction of speech and music
- High efficiency (6W versions)
- Exceptional acoustic quality (10W versions)
- Two way speaker (COAX and CX versions)
- Elegant and modern design
- Simple installation
- Made of a UV-resistant reinforced ABS plastic
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Schools
- Restaurants
- Reception rooms
- Museums
- Hotels
- Administrations
- Medical offices



TECHNICAL CHARACTERISTICS

	PBC 6/T	PBC6T/EN	PBC6T/ENC	PBC 10/TCOAX	PBC10TCX/EN	PBC10TCX/ENC
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	10/5/2.5/1.25	10/5/2.5/1.25	10/5/2.5/1.25
Effective frequency range, Hz	160 - 18,000	160 - 18,000	160 - 18,000	80 - 20,000	80 - 20,000	80 - 20,000
SPL @ 1 m, 1 watt, dB	96	96	96	89	89	89
SPL @ 1 m, full power, dB	104	104	104	99	99	99
Dispersion at 1k/2k Hz, degrees	180/120	119/100 Horizontal 77/99 Vertical	119/100 Horizontal 77/99 Vertical	180/120	132/96 Horizontal 169/96 Vertical	132/96 Horizontal 169/96 Vertical
Dimensions, L x H x P, mm	330 x 240 x 90	330 x 240 x 90	330 x 240 x 90	330 x 240 x 90	330 x 240 x 90	330 x 240 x 90
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
IP-rating	21	21	21	21	21	21
EN 54-24 compliance	No	Yes	Yes	No	Yes	Yes

PWC Series

Moulded Cabinet Loudspeakers

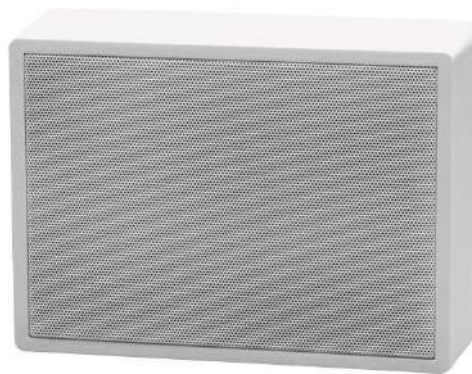


FEATURES

- Compact design
- Economical
- Simple installation
- Made of a UV-resistant reinforced ABS plastic
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Schools
- Restaurants
- Reception rooms
- Museums
- Hotels
- Administrations
- Medical offices



TECHNICAL CHARACTERISTICS

	PWC 6/T	PWC6T/EN	PWC6T/ENC
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	200 - 18,500	220 - 18,500	220 - 18,500
SPL @ 1 m, 1 watt, dB	93	92	92
SPL @ 1 m, full power, dB	100	100	100
Dispersion at 1k/2k Hz, degrees	180/110	167/89 Horizontal 115/104 Vertical	167/89 Horizontal 115/104 Vertical
Dimensions, LxHxP, mm	233 x 171 x 75	233 x 168 x 75	233 x 168 x 75
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Plastic	Plastic	Plastic
IP-rating	21	21	21
EN 54-24 compliance	No	Yes	Yes

WWC Series



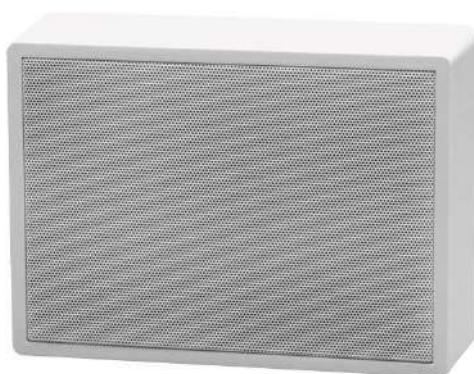
Wallmount Speakers with Wooden Housing (MDF)

FEATURES

- Exceptional acoustic quality
- High efficiency
- Compact design
- Economical
- Simple installation
- Wooden Housing (MDF)
- Capacitor for DC line monitoring (ENC version)
- Plastic terminal and without fuse (X version)
- Built-in attenuator (WWC6/TRV)

APPLICATIONS

- Schools
- Restaurants
- Reception rooms
- Museums
- Hotels
- Administrations
- Medical offices



TECHNICAL CHARACTERISTICS

	WWC 6/T	WWC 6/TRV	WWC6T/EN	WWC6T/ENC	WWC6TX/EN
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/OFF	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	85 - 18,500	85 - 18,500	180 - 18,500	180 - 18,500	180 - 18,500
SPL @ 1 m, 1 watt, dB	95	90	94	94	94
SPL @ 1 m, full power, dB	103	97	102	102	102
Dispersion at 1k/2k Hz, degrees	180/180		169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical
Dimensions, L x H x P, mm	254 x 195 x 82	254 x 195 x 82	255 x 196 x 82	255 x 196 x 82	255 x 196 x 82
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Wood	Wood	Wood	Wood	Wood
IP-rating	21	21	21	21	21
EN 54-24 compliance	No	No	Yes	Yes	Yes

WWC Series



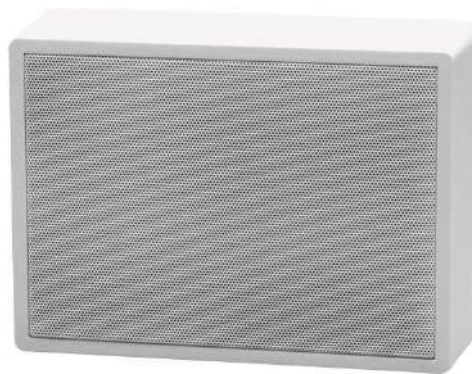
A/B Wallmount Speakers with Wooden Housing (MDF)

FEATURES

- Exceptional acoustic quality
- High efficiency
- Compact design
- Economical
- Simple installation
- Wooden Housing (MDF)
- Capacitor for DC line monitoring (ENC version)
- Plastic terminal and without fuse (X version)
- A/B line mode

APPLICATIONS

- Schools
- Restaurants
- Reception rooms
- Museums
- Hotels
- Administrations
- Medical offices



TECHNICAL CHARACTERISTICS

	WWC6TAB/EN	WWC6TABX/EN	WWC6TAB/ENC
Tapping 100 volts line, watts	2 x (6/3/1.5/0.75/0.25)	2 x (6/3/1.5/0.75/0.25)	2 x (6/3/1.5/0.75/0.25)
Effective frequency range, Hz	200 - 20,000	200 - 20,000	200 - 20,000
SPL @ 1 m, 1 watt, dB	95	95	95
SPL @ 1 m, full power, dB	103	103	103
Dispersion at 1k/2k Hz, degrees	169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical	169/95 Horizontal 170/96 Vertical
Dimensions, L x H x P, mm	255 x 196 x 82	255 x 196 x 82	255 x 196 x 82
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Wood	Wood	Wood
IP-rating	21	21	21
EN 54-24 compliance	Yes	Yes	Yes

MWC Series

Round Wallmount Loudspeakers

FEATURES

- Excellent reproduction of speech and music
- High efficiency
- Compact design
- Economical
- Ceiling or wall installation
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Schools
- Restaurants
- Reception rooms
- Museums
- Hotels
- Administrations
- Medical offices



TECHNICAL CHARACTERISTICS

	MWC 6/T	MWC6T/EN	MWC6T/ENC
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	85 - 18,500	85 - 18,500	85 - 18,500
SPL @ 1 m, 1 watt, dB	94	94	94
SPL @ 1 m, full power, dB	102	101	101
Dispersion at 1k/2k Hz, degrees	180/180	166/103 Horizontal 167/101 Vertical	166/103 Horizontal 167/101 Vertical
Dimensions, L x H x P, mm	170 x 75	170 x 75	170 x 75
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel
IP-rating	21	21	21
EN 54-24 compliance	No	Yes	Yes

APC Series

Moulded Cabinet Loudspeakers



FEATURES

- Elegant and sober design
- Ceiling or wall installation
- Made of a UV-resistant reinforced ABS plastic
- Capacitor for DC line monitoring (ENC version)
- Water and dust resistant, IP44

APPLICATIONS

- Train stations
- Schools
- Retails
- Offices



TECHNICAL CHARACTERISTICS

	APC4T/EN	APC4T/ENC
Tapping 100 volts line, watts	4/2/1/0.5	4/2/1/0.5
Effective frequency range, Hz	120 - 18,000	120 - 18,000
SPL @ 1 m, 1 watt, dB	85	85
SPL @ 1 m, full power, dB	91	91
Dispersion at 1k/2k Hz, degrees	181/105 Horizontal 197/115 Vertical	205/161 Horizontal 221/199 Vertical
Dimensions, L x H x P, mm	168 x 116 x 100	168 x 116 x 100
Colour	White RAL9016	White RAL9016
Material	Plastic	Plastic
IP-rating	44	44
EN 54-24 compliance	Yes	Yes

APC Series

Bi-Directional Moulded Cabinet Loudspeakers

FEATURES

- Elegant and sober design
- 2 built-in speakers
- Ceiling or wall installation
- Made of a UV-resistant reinforced ABS plastic
- Capacitor for DC line monitoring (ENC version)
- Water and dust resistant, IP44

APPLICATIONS

- Train stations
- Schools
- Retails
- Offices



TECHNICAL CHARACTERISTICS

	APC6BT/EN	APC6BT/ENC
Tapping 100 volts line, watts	6/3/1.5/0.75	6/3/1.5/0.75
Effective frequency range, Hz	110 - 18,000	120 - 18,000
SPL @ 1 m, 1 watt, dB	88	85
SPL @ 1 m, full power, dB	96	91
Dispersion at 1k/2k Hz, degrees	290/260 Horizontal 290/260 Vertical	290/260 Horizontal 290/260 Vertical
Dimensions, L x H x P, mm	246 x 116 x 100	246 x 116 x 100
Colour	White RAL9016	White RAL9016
Material	Plastic	Plastic
IP-rating	44	44
EN 54-24 compliance	Yes	Yes

PMC Series

Moulded Cabinet Loudspeakers



FEATURES

- Specifically designed for use in humid and corrosive rooms
- Made of a UV-resistant reinforced ABS plastic
- Water and dust resistant, IP56

APPLICATIONS

- Saunas
- SPA
- Aquatic centers
- Boats
- Cloakrooms



TECHNICAL CHARACTERISTICS

	PMC 4/T	PMC4T/EN	PMC4T/ENC
Tapping 100 volts line, watts	4/2/1/0.5	4/2/1/0.5	4/2/1/0.5
Effective frequency range, Hz	220 - 11,000	220 - 11,000	220 - 11,000
SPL @ 1 m, 1 watt, dB	91	91	91
SPL @ 1 m, full power, dB	97	97	97
Dispersion at 1k/2k Hz, degrees	180/110	181/115 Horizontal 197/115 Vertical	181/115 Horizontal 197/115 Vertical
Dimensions, L x H x P, mm	119 x 119 x 84	119 x 119 x 84	119 x 119 x 84
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Plastic	Plastic	Plastic
IP-rating	56	56	56
EN 54-24 compliance	No	Yes	Yes

SENTRY Series

Vandalproof Metal Cabinet Loudspeakers

FEATURES

- Anti-vandal protected metal housing
- Square form
- Ceiling or wall installation
- Water and dust resistant, IP52
- Capacitor for DC line monitoring (ENC version)
- A/B line (AB version)

APPLICATIONS

- Train stations
- Car parks
- Subway stations



TECHNICAL CHARACTERISTICS

	SENTRY 6/STC	SENTRY6ST/EN	SENTRY6ST/ENC	SENTRY 6STC/AB	SENTRY6STAB/EN
Tapping 100 volts line, watts	6/3/1.5/0.75	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	2 x (6/3/1.5/0.75/0.25)	2 x (6/3/1.5/0.75/0.25)
Effective frequency range, Hz	180 - 18,000	180 - 18,000	180 - 18,000	220 - 16,500	200 - 20,000
SPL @ 1 m, 1 watt, dB	93	93	93	86	95
SPL @ 1 m, full power, dB	99	99	99	92	103
Dispersion at 1k/2k Hz, degrees	170/120	81/101 Horizontal 108/108 Vertical	81/101 Horizontal 108/108 Vertical		81/101 Horizontal 108/108 Vertical
Dimensions, L x H x P, mm	190 x 190 x 75	190 x 190 x 75	190 x 190 x 75	190 x 190 x 75	190 x 190 x 75
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel	Steel	Steel
IP-rating		52	52		
EN 54-24 compliance	No	Yes	Yes	No	Yes

SENTRY Series



Vandalproof Metal Cabinet Loudspeakers

FEATURES

- Anti-vandal protected metal housing
- Round form
- Ceiling or wall installation
- Water and dust resistant, IP52
- Capacitor for DC line monitoring (ENC version)

APPLICATIONS

- Train stations
- Car parks
- Subway stations



TECHNICAL CHARACTERISTICS

	SENTRY 6/RTC	SENTRY6RT/EN	SENTRY6RT/ENC
Tapping 100 volts line, watts	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25	6/3/1.5/0.75/0.25
Effective frequency range, Hz	250 - 18,000	250 - 18,000	250 - 18,000
SPL @ 1 m, 1 watt, dB	90	90	90
SPL @ 1 m, full power, dB	97	97	97
Dispersion at 1k/2k Hz, degrees	140/110	119/100 Horizontal 77/99 Vertical	119/100 Horizontal 77/99 Vertical
Dimensions, front and depth, mm	194 x 75	194 x 75	194 x 75
Colour	White RAL9016	White RAL9016	White RAL9016
Material	Steel	Steel	Steel
IP-rating		52	52
EN 54-24 compliance	No	Yes	Yes

GB Series

Metal and Plastic Spherical Loudspeakers

FEATURES

- Excellent reproduction of speech and music
- Wide sound coverage
- Elegant and sober design
- Economical
- Made of a UV-resistant reinforced ABS plastic (plastic version)
- Capacitor for DC line monitoring (ENC version)
- 5 strand braided cable provided with the GB10/T and GB20/T (no cable provided with other models)

APPLICATIONS

- Airports
- Shopping malls
- Sales areas
- Warehouses
- Factories



GB 10/T



GB15T/EN



GB20T/EN

TECHNICAL CHARACTERISTICS

	GB 10/T	GB15T/EN	GB15T/ENC	GB 20/T	GB20T/EN	GB20T/ENC
Tapping 100 volts line, watts	10/5/2.5/1.25	15/7.5/3.75/1.875	15/7.5/3.75/1.875	20/10/5/2.5	20/10/5/2.5	20/10/5/2.5
Effective frequency range, Hz	220 - 18,000	180 - 20,000	180 - 20,000	80 - 18,000	80 - 18,000	80 - 18,000
SPL @ 1 m, 1 watt, dB	92	92	92	94	94	97
SPL @ 1 m, full power, dB	98	103	103	107	107	110
Dispersion at 1k/2k Hz, degrees	360/360 Horizontal 180/160 Vertical	83/38 Horizontal 82/39 Vertical	83/38 Horizontal 82/39 Vertical	360/360 Horizontal 160/140 Vertical	82/37 Horizontal 90/35 Vertical	82/37 Horizontal 90/35 Vertical
Dimensions, mm	181	182	182	254	254	254
Colour	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016	White RAL9016
Material	Metal	Plastic	Plastic	Plastic	Plastic	Plastic
IP-rating		33	33		33	33
EN 54-24 compliance	No	Yes	Yes	No	Yes	Yes

JD Series

Music Cabinet Loudspeakers

FEATURES

- Excellent reproduction of music
- Compact design
- Available for 2 kinds of colour (black and white)
- Die-cast aluminium swivel bracket

APPLICATIONS

- Retails
- Hotels
- Waiting rooms
- Administrations
- Bars
- Leisure centers



TECHNICAL CHARACTERISTICS

	JD 20/TB	JD 20/TW
Tapping 100 volts line, watts	20/10/5/2.5	20/10/5/2.5
Effective frequency range, Hz	63 - 20,000	63 - 20,000
SPL @ 1 m, 1 watt, dB	84	84
SPL @ 1 m, full power, dB	97	97
Dispersion at 1k/2k Hz, degrees	180/100	180/100
Dimensions, front and depth, mm	146 x 229 x 150	146 x 229 x 150
Colour	Black	White
Material	Plastic	Plastic
IP-rating		
EN 54-24 compliance	No	No



TERRACOM™



Audio and Control over IP CATALOGUE



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ATEIS Europe B.V.



Audio and Control over IP Solutions

An Audio over IP solution has become more commonly used nowadays, therefore by introducing such features as contact closures, relays, event management, scheduler, priority management, TerraManager integrated GUI control software and TerraServer management software, the TERRACOM family of products will have the solutions you require. We hope to deliver you the most suitable products and the most flexible solutions to meet the need of your projects.



APPLICATIONS

Medium-Sized Systems

- Stores (Restaurant, Shopping Malls)
- Office/Industrial Buildings
- University Campus
- Education Institution

Fully Integrated Large-Scale Systems

- Transportation (Railways, Subways, Airport)
- Hotels/Churches/Arenas
- Museums/ Theme Parks
- High-Rise Buildings

CONTENTS

TERRACOM SYSTEM

4	OVERVIEW - Which TERRACOM Device Fits Your Project Best?
---	---

TERRACOM is our audio over IP terminal range, with a wide variety of devices that offer a solution to multiple markets. We offer a cost effective solution which utilises a standard network or the Internet for live audio paging, intercom, music streaming, routing, background music playing, control input/output trigger, and monitoring.

TERRACOM FAMILY

6	TERRA-EX Cost-Effective IP Audio Decoder TERRA-EXA Cost-Effective Amplified IP Audio Decoder (20W x 2)
7	TERRA-IEX Full Duplex IP Audio Encoder/Decoder TERRA-AMP Amplified IP Terminal (15W x 2)
8	TERRA-K IP Based Intercom Microphone
9	TERRA-FDX Full Duplex IP Terminal for Intercom TERRA-DS1 Flush-Mount SIP/IP Door Station TERRA-FXO Full Duplex IP Terminal to Telecom Gateway

AUTOMATION

10	TERRA-IO Contact I/O Terminal over IP
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TERRA-IO is a programmable network I/O device with serial port (RS232/RS485), adapted to automation and monitoring applications.

APPLICATION SOFTWARE FOR PA/VA & BGM

11-12	TERRAMANAGER Integrated GUI Control Software
13-14	TERRASERVER Integrated Management Software

The intuitive and powerful audio distribution software TerraManager and TerraServer is capable of handling the announcement, background music, zone paging, audio routing, bell scheduler, priority management, monitoring and so on.

CONSOLES AND ACCESSORIES

15	PPM-IT5 Programmable Paging Microphone RAC 5 / RAC 8 5/8 Steps Level and Source Selector URC-200 Ethernet Universal Programmable Remote Controller
16-17	APPLICATIONS PA-BGM / PA/VA-Transport / PA-BGM & Intercom / PA-BGM & In-Store
18	ORDERING INFORMATION

TERRACOM SYSTEM



FEATURES

- Power supplied via PoE and/or 24VDC power adaptor
- Paging with unicast, multicast and broadcast
- Protocols TCP, UDP, SIP, RTP, IGMP, DHCP, ICECAST, HTTP, NTP and SNMP management
- G.711, G.722, G.726, G.727, G.729, MP3 audio codec and AAC+ decoder
- Acoustic Echo Cancellation and Noise Reduction
- Integrated graphic user software-TerraManager for monitoring and fault reporting of all system components
- TerraServer management software for site redundant
- Event scheduler for audio program, messages and controls
- "Integration Automation with Home & Office Appliances" can be integrated with logic control for light, curtain, TV or air conditioning on/off via RS232, RS485 or Ethernet
- Web browser interface for device control and monitoring
- Logic input
 - Pre-defined call, a contact output activation
 - RS232 serial string generation, an alarm



The TERRACOM Audio over IP system is a range of products designed to transmit live audio paging, stored messaging, background music, 2-way intercommunications, control input/output triggers, and audio monitoring over TCP/IP. The TERRACOM supports PoE (Power over Ethernet), and/or can be powered locally with external 24VDC power supply. TERRACOM also communicates with traditional phone and IP phone systems over a network.

A built-in web browser interface allows simplified control and configuration of the TERRACOM devices, with the option of using TerraManager or TerraServer for more complex applications.

Why IP?

Nowadays, almost all buildings are equipped with a network infrastructure, therefore audio over IP technology has the huge advantage of utilising existing networks and crossing routers for ease of integration.

Where to use it?

From the standard applications like shopping malls, hotels, museums, theme parks, hospitals and schools, to more bespoke and specialised projects, IP networks exist nearly everywhere and thus IP offers such integration flexibility.

Benefits

The TERRACOM is a competitive pricing solution for your application needs. By using the standard network and PoE technology, installation and maintenance is simplified.

Powerful Platform

The TERRACOM devices have a powerful processor which provides a list of remarkable features, including priority management, event management, bell scheduling, local channel and volume control, paging, Acoustic Echo Cancellation and Noise Reduction.

Professional Audio

Instead of non-professional connectors, the TERRACOM have balanced audio on terminal block connectors for the Pro Audio market.

Audio Streaming

The TERRACOM offers the possibility for audio streaming using standard RTP protocol in unicast, multicast or broadcast. For In-Store applications, The TERRACOM streams using shoutcast/icecast protocols.

SIP Benefits

All TERRACOM devices use SIP technology, which gives you the benefit of having a standard session protocol with inherent simplicity. Therefore, it is compatible with IP PBX and softphone which helps with the complex management of the IP address world.

PoE Benefits

Most TERRACOM devices support PoE (Power Over Ethernet), therefore the constraint of having AC power outlets is eliminated. This provides flexibility in placing the TERRACOM devices in various locations. Optimal placement leads to more efficient network designs and superior application performance. The network installation can be accomplished easier, faster and for less cost. It is also safer because you can centralise the power management and protect it with a UPS (Uninterruptible Power Supply). Lastly, by using a manageable PoE network switch via web browser or SNMP allows the networking devices to be reset or shut down remotely, which saves time and expense of an on-site technician.

Management

All TERRACOM devices embed a web browser interface that enables you to control the TERRACOM through your favourite internet browser. For larger systems, you can use SNMP protocol. For more complex systems, the TerraServer will be your supervisor and management solution of your installation (Firefox web browser is suggested).



TERRACOM FAMILY

WHICH TERRACOM DEVICE FITS YOUR PROJECT BEST?

										
Audio Interface										
Gooseneck mic (unidirectional)	✓									✓
Mic-Line in/stereo line in				2/1	2/1	2/1	1/0			1/0
Headphone out (mono/stereo)		2/1		2/1						
Mono/or stereo line out		2/1		2/1	2/1	2/1				
Amplifier			20W x 2 8 ohm			15W x 2 8 ohm				
Internal loudspeaker (5 W)	1									
Internal loudspeaker (2.5 W)							1			1
Telephone line (TERRA-FXO)								2		
Telephone set interface								2		
Other Interface										
RS232/RS485		1*		1	1	1		1	1	
Contact input		3	3	3	3	3	4	3	4 In x 4 Out (TERRA-4IO) 8 In x 8 Out (TERRA-8IO)	
Contact output		1	1	1	2	2	2			
USB 2.0		1*		1*	1	1				
Push button	3						1/2/3/4			1
Power Supply										
24 VDC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PoE	✓	✓		✓	✓	✓**	✓	✓	✓	✓
Software										
Embedded web browser interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
G.711/G.722/G.726/G.727/G.729 codec	✓	Decoding only	Decoding only	✓	✓	✓	✓	✓		✓
AAC+ decoder	✓	✓	✓	✓	✓	✓	✓	✓		✓
MP3 codec	✓	Decoding only	Decoding only	✓	✓	✓	✓	✓		✓
Icecast - shoutcast		✓	✓	✓	✓	✓		✓		
SIP/IGMP/DHCP/NTP/SNMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DTMF								✓		
Acoustic Echo Cancellation	✓					✓	✓	✓		
Built-in scheduler	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Noise Reduction	✓						✓			✓
Matrix with priority management		✓	✓	✓	✓	✓		✓		
1 to group paging	✓	Receiving	Receiving	✓	✓	✓	✓	✓		✓
1 to 1 intercom	✓	Receiving	Receiving	✓	✓	✓	✓	✓		✓

*= Optional, see Ordering Information chapter for details.

**= Maximum 6W x 2 when locating by the PoE switch.

TERRA-EX

IP AUDIO DECODER



TERRA-EX

Cost-Effective IP Audio Decoder

TERRA-EX is an IP audio decoder, and is equipped with an optional USB flash interface for playlist backup or prerecorded announcements.

The TERRA-EX device is proposed as the most cost-effective output device which comes with 2 independent balanced line outputs, 1 contact output, 3 contact inputs.

The TERRA-EX will be your ideal IP solution for any application where you need a simple balanced audio output with I/O contacts & replays.

Thanks to the scheduler and the music/message management via optional USB interface, the TERRA-EX is also the perfect solution for in-store applications. The volume and channel can be modified by connecting to RAC remote source selector.



TERRA-EXA

Cost-Effective IP Audio Decoder with Amplifier Built-In

The TERRA-EXA comes with 20W x 2 amplifier outputs for the IP terminal, 8 ohm speakers, 3 contact outputs and 1 contact input.

TERRA-EX CHARACTERISTICS

2 balanced line outputs (1 stereo or 2 mono)

1 stereo line input (3.5 mm mini-jack) for headphone

Frequency response: 20 Hz ~ 20 kHz

Maximum input/output level: 5 dBu

Single STP CAT5/6 cable connectivity for audio and control

PoE or 24 VDC power supply (if PoE is not available)

Web browser interface for device management and monitor

SNMP (Simple Network Management Protocol) for device management on IP networks

Optional USB 2.0 interface for music/message storage, playback and recording (TERRA-EXU, TERRA-EXU2 and TERRA-EXU4)

Power LED and Status LED

3 contact inputs and 1 contact output

Optional RS232 or RS485 for 3rd party control

Power consumption: 2W

Weight: 0.95 lbs (433g)

Dimensions (D x H x W): 4" x 1-1/4" x 4-3/10" (104 x 32 x 109 mm)

TERRA-EXA CHARACTERISTICS

20W x 2 (8 ohm) amplifier outputs

Frequency response: 20 Hz ~ 20 kHz

Single STP CAT5/6 cable connectivity for audio and control

Power supply via 24VDC power input (max. 2A), PoE not available

Web browser interface for device management and monitor

SNMP (Simple Network Management Protocol) for device management on IP networks

Power LED and Status LED

3 contact inputs and 1 contact output

Power consumption: 48W

Weight: 1 lb (453g)

Dimensions (D x H x W): 4" x 1-1/2" x 2-3/4" (103 x 37 x 70 mm)

SUPPORTED AUDIO CODEC (TERRA-EX & TERRA-EXA)

SIP	G.711 ulaw, G.711 alaw, G.722, G.726-32, G.727-32, G.729, PCM16K
SHOUTcast / icecast	MP3, AAC+
Stream	G.711 ulaw, G.711 alaw, G.722, WAVE, MP3, PCM16K
Record	G.711 ulaw, G.711 alaw, G.722, WAV, MP3



TERRA-IEX / TERRA-AMP

IP ENCODER / DECODER



TERRA-IEX CHARACTERISTICS

2 Mic/line balanced input
2 balanced line outputs (1 stereo or 2 mono)
1 stereo line input (3.5 mm mini-jack) for headphone
Frequency response: 20 Hz ~ 20 kHz
PoE or 24 VDC power supply (if PoE is not available)
Web browser interface for device management and monitor
SNMP (Simple Network Management Protocol) for device management on IP networks
Optional USB 2.0 interface for music/message storage, playback and recording (TERRA-IEXU and TERRA-IEXU4)
Power LED and Status LED
3 contact inputs and 1 contact output
RS232 or RS485 for 3rd party control
Power consumption: 3W
Weight: 0.95 lbs (433g)
Dimensions (D x H x W): 4" x 1-1/4" x 4-3/10" (104 x 32 x 109 mm)

TERRA-AMP CHARACTERISTICS

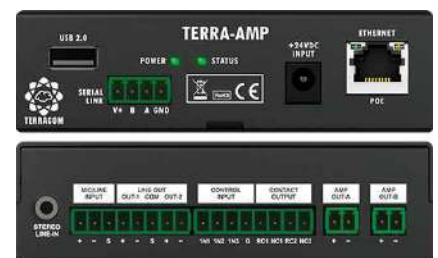
1 mic/line balanced input
2 balanced line outputs (1 stereo or 2 mono)
15W x 2 (8 ohm) amplifier outputs (6W x 2 by PoE)
1 stereo line input (3.5 mm mini-jack) for headphone
Frequency response: 20 Hz ~ 20 kHz
Maximum input/output level: 5 dBu
Single STP CAT5/6 cable connectivity for audio and control
PoE or 24 VDC power supply (if PoE is not available)
Full duplex intercom with AEC (Acoustic Echo Cancellation) and NR (Noise Reduction)
Web browser interface for device management and monitor
SNMP (Simple Network Management Protocol) for device management on IP networks
One USB 2.0 interface for recording, message and music files
Power LED and Status LED indicators
3 contact inputs and 2 contact outputs
RS232 or RS485 for 3rd party control
Power consumption: 30W
Weight: 1 lb (460g)
Dimensions (D x H x W): 4" x 1-1/4" x 4-3/10" (104 x 32 x 109 mm)

TERRA-IEX

Full Duplex IP Audio Encoder/Decoder

The TERRA-IEX is a 2 channel audio over IP encoder/decoder which operates as an audio source for an IP network. It comes with 2 independent balanced line outputs for full duplex communication for paging and broadcasting.

By using the optional USB interface, the playlists shall be used as a backup of the decoded stream or as a source for the IP streaming.



TERRA-AMP

Amplified IP Terminal (15W x 2)

TERRA-AMP is an IP audio terminal which delivers 15 watts/channel into 8 ohm. Each device comes with 2 channels and 15W independent outputs with external power.

TERRA-AMP model features mic/line inputs that can be played locally as a source for network streaming. Playlist backups or prerecorded announcement are achieved via USB flash memory interface, which offers an ideal solution for commercial audio & also public address systems.

SUPPORTED AUDIO CODEC (TERRA-IEX & TERRA-AMP)

SIP	G.711 ulaw, G.711 alaw, G.722, G.726-32, G.727-32, G.729, PCM16K
SHOUTcast / icecast	MP3, AAC+
Stream	G.711 ulaw, G.711 alaw, G.722, WAVE, MP3, PCM16K
Record	G.711 ulaw, G.711 alaw, G.722, WAV, MP3

TERRA-K

IP BASED INTERCOM MICROPHONE



A new level of inter-company security and communication systems.

TERRA-K CHARACTERISTICS

High quality gooseneck microphone and built-in loudspeaker (2.5W)

Web browser interface for device management and monitor

PoE or 24 VDC power supply (if PoE is not available)

Automatic gain control on microphone input

Paging to pre-defined zones

Pre-recorded announcement and dynamic zone paging via TerraManager

Full duplex intercom

Push-to-talk button, Talk LED and Power LED

Power consumption: 3.12W

Weight: 1.76 lbs (800g)

Dimensions (D x H x W): 5" x 13-4/5" x 5-3/10"
(125 x 350 x 135 mm)

TERRA-K

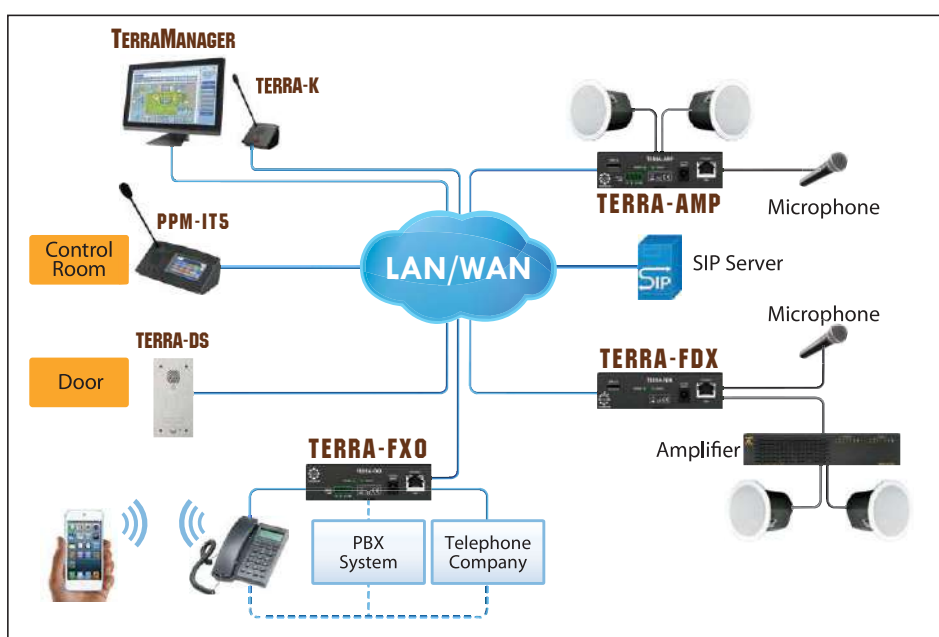
IP Based Intercom Microphone

The TERRA-K is a multi-function IP based microphone which is designed for full-duplex intercom and paging (Unicast/Multicast/Broadcast) over LAN/WAN. The TERRA-K can also be used with TerraManager to perform a recording function. Its pre-chime and post-chime can be configured via the web browser interface. It also has 2 LED indications and one button on the front panel, which displays device status and triggers certain functions.

By using the TerraManager integrated control software, paging (Unicast/Multicast/Broadcast), full-duplex intercom, music streaming, audio routing, message playing, Scheduler functions, TTS SVE (Text To Speech - Synthetic Voice Engine), device I/O monitoring and volume control (3rd party) can be achieved. Remote Intercom with a PPM-IT5 through a SIP Server can be achieved via TERRA-FXO and web browsers, which increases its flexibility and integration with other TERRACOM products in adapting to various situations.

SUPPORTED AUDIO CODEC

SIP	G.711 ulaw, G.711 alaw, G.722, G.726-32, G.727-32, G.729, PCM16K
SHOUTcast icecast	MP3, AAC+
Stream	G.711 ulaw, G.711 alaw, G.722, WAVE, MP3, PCM16K
Record	G.711 ulaw, G.711 alaw, G.722, WAV, MP3



TERRA-FDX / TERRA-DS1 / TERRA-FXO

TERRACOM INTERCOM FAMILY



TERRA-FDX

Full Duplex IP Terminal for Intercom

The TERRA-FDX is designed for paging and full duplex intercom, and it offers the possibility to create bidirectional IP links for high audio quality and data transmission. Thanks to the standard SIP protocol, calls can be done by IP phones (AVAYA, CISCO, 3COM...).

TERRA-FDX CHARACTERISTICS

2 Mic/line balanced inputs
2 balanced line outputs (1 stereo or 2 mono)
Frequency response: 20 Hz ~ 20 kHz
Maximum input/output level: 5 dBu
Single STP CAT5/6 cable connectivity for audio and control
PoE or 24 VDC power supply (if PoE is not available)
Web browser interface for device management and monitor
SNMP (Simple Network Management Protocol) for device management on IP networks
Message storage for playback and recording
USB 2.0 interface for music, message storage and recording
Power LED and Status LED indicators
3 contact inputs and 2 contact outputs
RS232 or RS485 for 3rd party control
Power consumption: 2.66W
Weight: 0.95 lbs (430g)
Dimensions (D x H x W): 4" x 1-1/4" x 4-3/10" (104 x 32 x 109 mm)

TERRA-DS1

Flush-Mount SIP/IP Door Station

The TERRA-DS1 vandal-proof SIP/IP door station is an indispensable device for intercom solutions, featuring high quality hands-free SIP/IP communication. Additionally, the contact inputs/outputs on TERRA-DS1 allows for electronic door/gates lock down.

TERRA-DS1 CHARACTERISTICS

Full duplex intercom with Noise Reduction
Web browser interface for device management and monitor
SNMP (Simple Network Management Protocol) for device management on IP networks
Stainless steel front panel
Built-in condenser microphone
Built-in loudspeaker (2.5W)
Support SIP based call
4 contact inputs and 2 contact outputs
PoE or 24 VDC power supply (if PoE is not available)
Power consumption: 3.12W
Weight: 1.77 lbs (808g)
Dimensions (D x H x W): 1-3/8" x 8-3/5" x 4-3/10" (35 x 220 x 110 mm)

TERRA-FXO

Full Duplex IP Terminal to Telecom Gateway

The TERRA-FXO offers full duplex communication for IP intercom and telephone, it comes with 2 sets of telephone interfaces and DTMF management for receiving calls or broadcasting.

TERRA-FXO CHARACTERISTICS

SNMP (Simple Network Management Protocol) for device management on IP Networks
PoE or 24 VDC power supply (if PoE is not available)
2 sets of telephone lines interface
Full duplex with Acoustic Echo Cancellation and Noise Reduction
Web browser interface for device management and monitor
Internal 80MB storage for recoding, message storage
RS232 or RS485 for 3rd party control
Power LED and Status LED indicators
Power consumption: 2.66W
Weight: 0.95 lbs (430g)
Dimensions (D x H x W): 4" x 1-1/4" x 4-3/10" (104 x 32 x 109 mm)

SUPPORTED AUDIO CODEC (TERRA-FDX & TERRA-DS1)

SIP	G.711 ulaw, G.711 alaw, G.722, G.726-32, G.727-32, G.729, PCM16K
SHOUTcast / icecast	MP3, AAC+
Stream	G.711 ulaw, G.711 alaw, G.722, WAVE, MP3, PCM16K
Record	G.711 ulaw, G.711 alaw, G.722, WAV, MP3

SUPPORTED AUDIO CODEC (TERRA-FXO)

SIP	G.711 ulaw, G.711 alaw, G.722, G.726-32, G.727-32, G.729, SIP PCM16K
Record	G.711 ulaw, G.711 alaw, G.722, WAV, MP3

TERRA-IO

AUTOMATION



Application of Alarm Automation

In this example schematic, the TERRA-IO is used as an access controller to detect intruders and to trigger alarms. The temperature sensor is connected to RS232 on the TERRA-IO and will send its status to a server which allows the control centre to activate procedures when errors occur. The serial link can be used for IP tunneling between a PC and a device like a sensor for tele-monitoring. With the contact I/Os and serial link, the TERRA-IO is the ideal platform for monitoring contact closures and integration with home and office appliances.

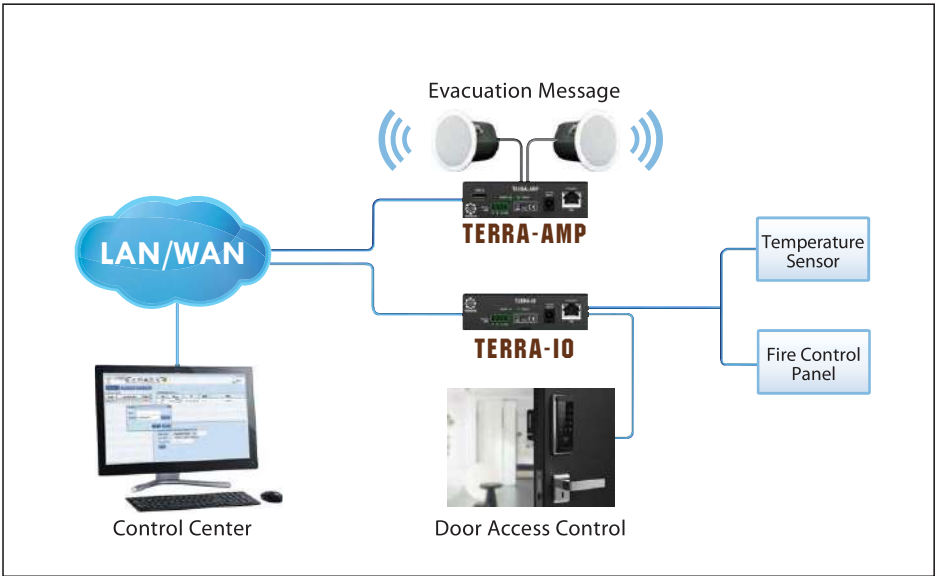
TERRA-IO

Contact I/O Terminal over IP

The TERRA-IO is a TERRACOM device without the audio inputs & outputs. It comes with either 8 contact inputs and 8 contact outputs or 4 contact inputs and 4 contact outputs which shall be used in audio applications which require lots of analogue I/O such as industrial & home automation applications or monitoring contact closures. The RS232 and RS485 interface shall be used for IP tunneling between a PC and a device such a sensor for tele-monitoring.

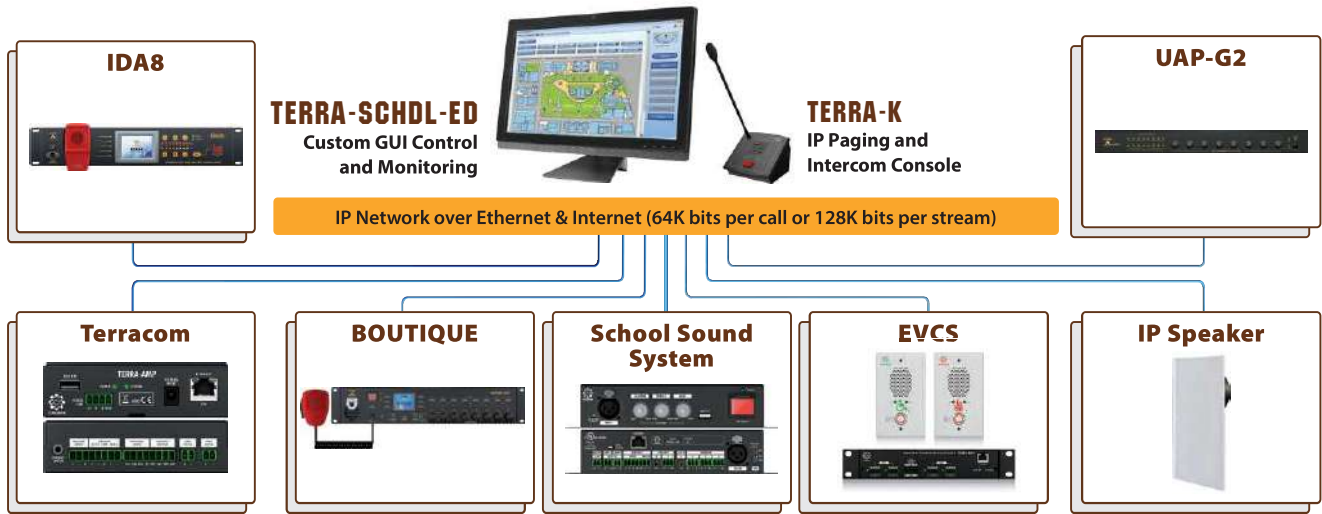
TERRA-IO CHARACTERISTICS

Available for two options
• TERRA-4IO: Contact In x 4 and Contact Out x 4
• TERRA-8IO: Contact In x 8 and Contact Out x 8
Web browser interface for device management and monitor
SNMP (Simple Network Management Protocol) for device management on IP networks
RS232 or RS485 for 3rd party control
PoE or 24 VDC power supply (if PoE is not available)
Power LED and Status LED
Power consumption: 2W
Weight: 0.92 lbs (420g)
Dimensions (D x H x W): 4" x 1-1/4" x 4-3/10" (104 x 32 x 109 mm)



TERRAMANAGER

INTEGRATED GUI CONTROL SOFTWARE



The easy-to-use TerraManager software is an integrated and flexible Windows-based GUI platform, providing GUI components and buttons to control and monitor the products from ATEIS and TERRACOM such as IDA8, BOUTIQUE, EVCS, TERRACOM system and other ATEIS processors etc..

TerraManager can perform network paging (Unicast/Multicast/Broadcast), IPS (Internet Paging Service), full duplex intercom, music streaming, background music routing, message playing, recording, event, bell scheduling, device I/O monitoring, TTS SVE (Text To Speech - Synthetic Voice Engine), volume control and other numerous control functions. Meanwhile, the TerraManager can monitor all zones, list the logs/faults/evac and display the status of the current paging sources.

Logical Model Description

TerraManager is an independent application program which operates on any PC/Laptop that support Java Virtual Machine (JVM).



TerraManager provides user interface switching between "Edit Mode" for function adding or parameter adjustments, and "User Mode" for operating. The system defines "zone" as an area or region which is used as an audio output. The zone can be an output from an IDA8, BOUTIQUE, Terracom or other ATEIS processor/device. A "source" means an audio source. The audio source is similar to the output, which comes from one of the inputs from an ATEIS product.

TerraManager supports a configurable control panel layout, priority and parameters preset, protocol selections and remote device management including volume, threshold and network interfacing. Highly secured system design features include a password login/logout setting, auto data storage and back up for devices/users. Support Multi-language, including English, Chinese, German and French etc..

FEATURES

- Support TCP, UDP, SIP, RTP and IGMP protocols
- Various zone buttons selections, including single zone, group zones or message broadcasting
- Support paging (Unicast/Multicast/Broadcast) and full-duplex intercom
- Support adjustable pre-chime/post-chime and panel layout configuration
- Monitoring device status, such as online/offline
- Configurable prerecorded audio sources for zone broadcasting and bell scheduler arrangement
- 3rd party control via UDP, TCP and Modbus protocols for real-time remote control
- Parameters preset, storage or backup for each device
- Support Text to Speech-Synthetic Voice Engine broadcasting
- Support remote device management in volume, threshold, network interface, etc.
- Four kinds of license version on TerraManager, Basic (Free), BGM, Paging and Intercom

SYSTEM REQUIREMENTS

CPU: > 2.5 GHz, Dual Core	
Memory: > at least 4GB RAM * reserve at least 2GB for TerraManager application	
Hard-Disk: > 500GB * reserve 100GB for TerraManager application and log	
Java Runtime: Java 8 update 191	
64-Bit OS: Windows 7 SP1/8.1/10	
VGA Card	NVIDIA: GeForce100 series or higher
	ATI: Radeon HD 4000 or higher
	Intel: GMA 4500 or higher
Others	Network Card
	Network bandwidth: > 100Mbps

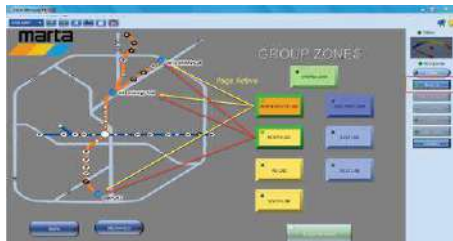
SUPPORTED AUDIO CODEC

SIP	G.722, MP3, PCM16K
Record	G.722, MP3, PCM16K
Message	G.722, MP3, PCM16K
Route	G.722, PCM16K, G.711ulaw
Music stream	G.722, MP3, PCM16K
Music SHOUTcast	MP3

TERRAMANAGER

INTEGRATED GUI CONTROL SOFTWARE

The easy-to-use TerraManager software is a flexible Windows-based GUI platform that can configure as a matrix programmable and customizable soft buttons on the screen – or dynamic buttons can be actual graphic images of imported map layout of the physical building, campus, or geographical area – overlaid on image to coincide with the actual page/intercom zones for easy identification and activation. Virtually unlimited panels or screens can be created and navigation is via drop-down menu, “Quick-Link” function buttons and/or programmable Panel Link buttons that can be placed and customized anywhere within the design.

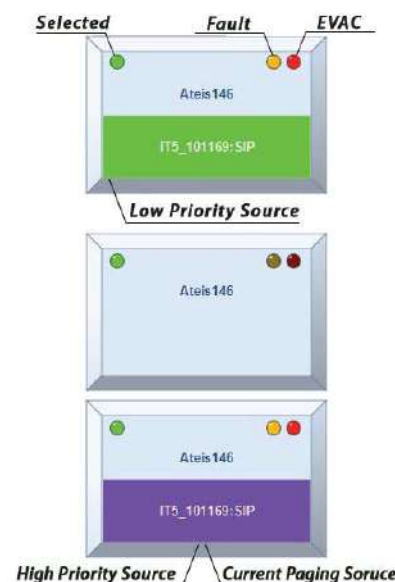


GUI Buttons

The highly customized and flexible button can be configured as various functions including zone selection, message/music playing, background music routing, source selection, 3rd party command string, device logic I/O control and monitor. The zone button displays the status of the fault and evacuation, multiple buttons on one page represents a global view of an area such as a building or a terminal of the airport. If a zone has been occupying a source, its name will be displayed on the graphic of the button even the user can identify if it is a higher priority source or lower priority source of its color. Furthermore, the text and color of device I/O button LEDs can be customized.

Paging (Unicast/Multicast/Broadcast)

TerraManager performs live paging and recording functions in the control panel page. Users can easily select the desired paging locations with a mouse click. With the system, background music playing and pre-chime/postchime functions are supported when performing unicast/multicast paging or broadcasting over LAN/WAN.



FIRE PANEL (Logic In)		
Channel	Value	Information
IN 1	0	ALARM
IN 2	0	TROUBLE
IN 3	0	SUPERVISORY
IN 4	0	
OUT 1	1	FAULT
OUT 2	1	

Intercom

Full duplex intercom can be achieved among TERRACOM devices over LAN/WAN. For larger applications, zone buttons provide quick access for users in selecting desired locations.

Device I/O Monitoring & Control

The system enables users to monitor or manage device status with a mouse click. When having considerable quantities of devices, the TerraManager displays all the device information on a table view such as online/offline, line occupied/line-available and parameter adjustments, as well as providing central control including preset scheduler, group paging, real-time 3rd party control capabilities for users.

Preset Scheduler

Advanced scheduler management in the system enables users to run multiple sources in different timing/zones without interrupting each other. Month, week, day, hour, repeat times and starting time are adjustable depending on users' needs.

Background Music and Audio Routing

The TerraManager allows you to perform message/background music routing to other channels/devices with a few mouse clicks. The input sources can either be music/radio that come from other devices, or pre-recorded messages based on the users requirements. Routing offers users with real-time notification ability or alerts for certain events/situations.



TERRASERVER

INTEGRATED MANAGEMENT SOFTWARE

FEATURES

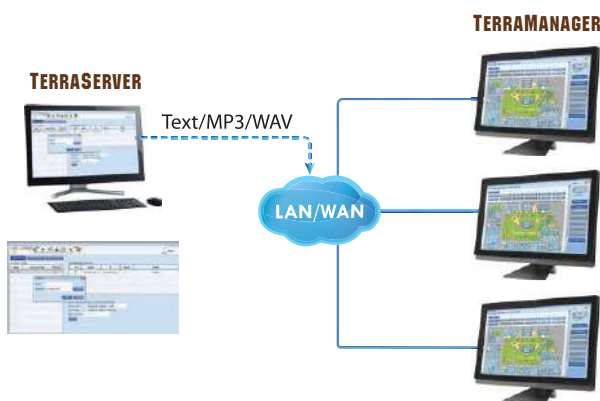
- Music streaming
- Recording streams from IDA8, BOUTIQUE, TERRACOM devices etc.. or other streams via RTP protocol
- Scheduler management for BGM and pre-recorded messages
- File synchronization including text, MP3, WAV etc. with TerraManager
- Multiple devices management & monitoring for TERRACOM, TerraManager, TerraServer and ATEIS products, including IDA8, BOUTIQUE, ECS, UAP
- Support to upload the audio files into the IDA8 processor, and download the files from IDA8 processor to your PC remotely
- Record logs for the whole system
- Ethernet, TCP/IP, VLAN compliant
- Up to 49 priority level on Scheduler



TerraServer is a Windows-based integrated and operation management software, it can handle multi-channel music streaming, record streaming, manage numerous audio files, playlists and devices, device firmware update, monitoring, file synchronization with TerraManager etc.. TerraServer also has an advanced scheduler for playing pre-recorded messages and message priority announcements.

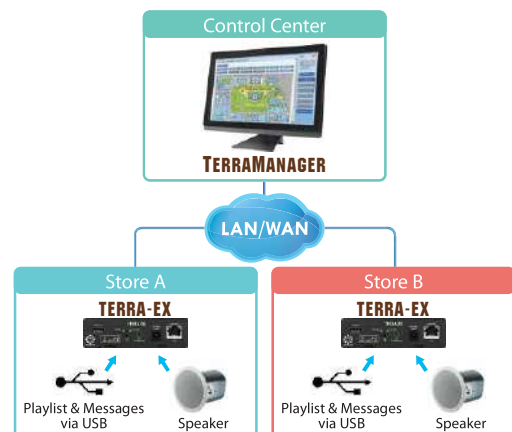
Sync File

Support the files stored in TerraManager to be synchronized with the files in TerraServer.



Sync Store

Support to upload the audio files from IDA8 processor and download them to your PC remotely.



Steaming

Music streaming to TERRACOM devices through the Internet.



Scheduler

Support to schedule the events such as messages playing in different timing/zones without interrupting each other. Month, week, day, hour, repeat times and starting time are adjustable depending on users' needs.



TERRASERVER

INTEGRATED MANAGEMENT SOFTWARE

CONFIGURATION & USER INTERFACE

The software can also be installed on multiple computers on the clients side at the same time, associating with TERRA-K/PPM-IT5 paging console, IDA8/BOUTIQUE processor and TERRACOM audio IP terminal. This PC server is also used for system configuration settings and logging which can be linked to a back-up server system.

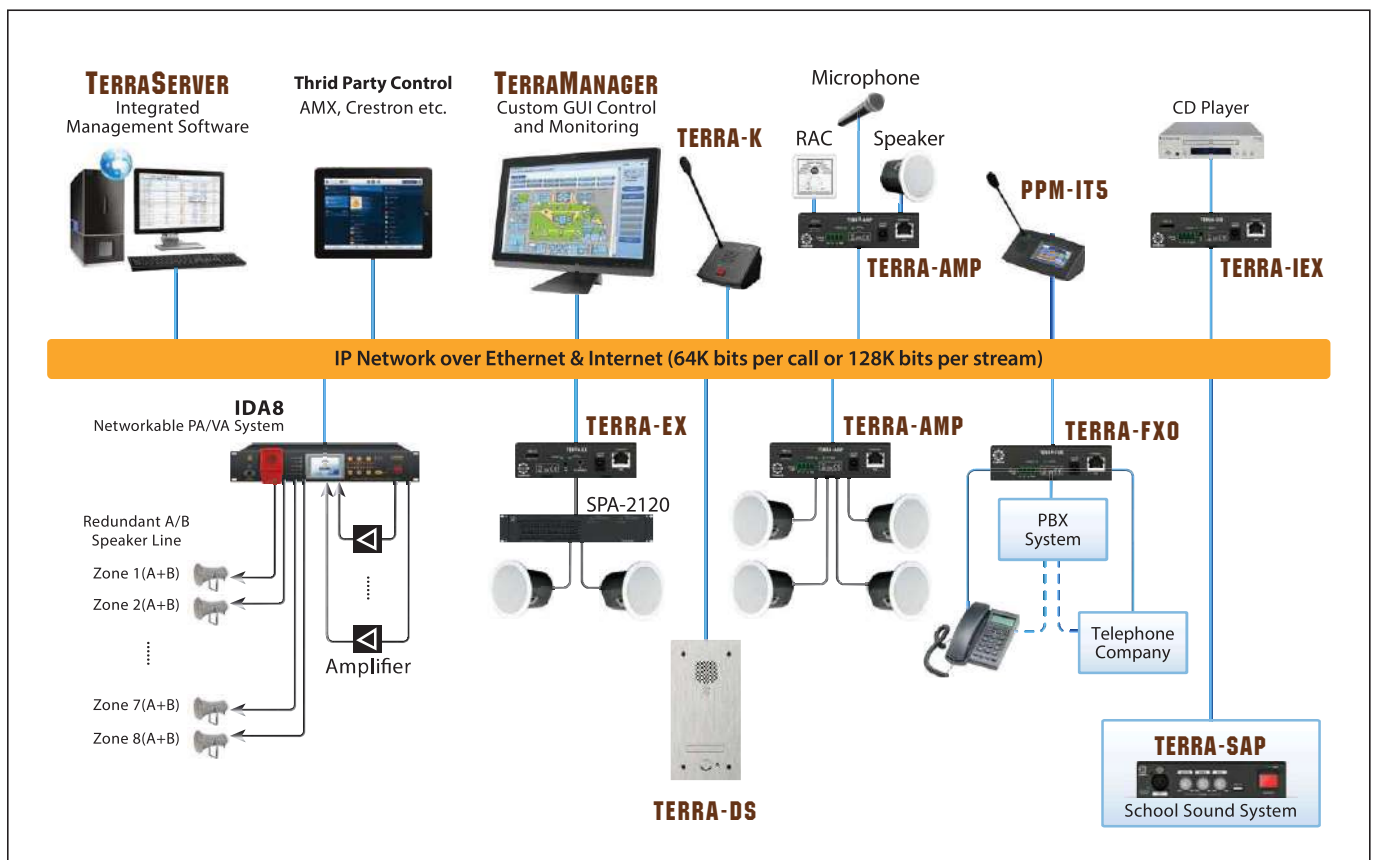
DEVICE MANAGEMENT

The BOUTIQUE, IDA8 and TERRACOM device can be easily integrated with TerraServer via LAN/WAN for control and monitor. Any device on the network can be discovered and be listed in the device management window automatically. The table-structured layout provides the user a clear view of the whole system and monitor the status of each device efficiently.



Node License	Name	Function	IP	Status	Priority	Product	MAC
PAGING	176		102.168.101.176	ONLINE	10	TERRA-FDX	00-22-19-00-22-19
PAGING	177		110.103.210.10	ONLINE	10	TERRA-FDX	00-22-13-00-22-2F
PAGING	IDA8SW1		192.168.102.218	ONLINE	-	IDA8C	08-58-15-50-81-00
PAGING	TerraManager		102.168.100.20	ONLINE	10	TerraManager	08-60-6E-1A-2D...

PA/VA COFIGURATION



PPM-IT5 / RAC 5 / RAC 8 / URC-200

PROGRAMMABLE PAGING CONSOLE, REMOTE CONTROLLER

RAC 5 / RAC 8

5/8 Steps Level and Source Selector



The RAC 5/RAC 8 can be used to adjust audio level or switch audio channel remotely. The 5/8 steps knobs on RAC 5/RAC 8 can be programmed via TERRACOM web browser. The RAC 5/RAC 8 is available for US and EU type, and is powered by 24VDC.

MECHANICAL

Weight: 0.22 lbs (100g)

Dimension (W x L x H): 2" x 3-3/10" x 3-3/10"
(52 x 84 x 84 mm)

URC-200

Ethernet Universal
Programmable Remote Controller



The URC-200 is a programmable remote controller (TCP/IP) which is powered over IP and can be easily integrated with room control such as light turn on/off, curtain, audio control to create smart homes and offices.

The full colour display is easy to read and has a low-power consumption, it features a scalable knob, 2 buttons for "enter" and "back".

MECHANICAL

Weight: 0.77 lbs (350g)

Dimension (W x L x H): 5-1/2" x 4-1/4" x 1-3/10"
(140 x 108 x 34 mm)



Programmable IP Paging Console
with Colour Touch Screen
& Gooseneck Microphone

PPM-IT5

Programmable Paging Microphone

The PPM-IT5 console comes with a 5" TFT touch screen interface which allows for intercom with the entire TERRACOM range, as well as call-paging, messages broadcasting and DSP matrix parameter control. Its back-lit touch screen is designed for simple and user-friendly operation. Thanks to powerful echo cancellation, the PPM-IT5 delivers clear sound for full duplex communication. The 3 hardware keys can be freely assigned within the system control software. The PPM-IT5 is a versatile device that fits well in a commercial shopping centre where paging over IP networking brings flexibility and easy access.

Programmable Functions

All the paging parameters needed for site operation can be programmed within the PPM-IT5, such as assigning zones to the various buttons, naming of zones, groups of zones, messages triggering or event control. There are a total of 168 keys over 14 pages for zone or group of zones selections. The pre-recorded messages and chime can be stored within the PPM-IT5 console. A built-in web browser interface allows simplified control and configuration of the PPM-IT5. The device can also be used to control other 3rd party devices over IP.

PPM-IT5 CHARACTERISTICS

5" TFT LCD full colour touch panel
Zone selection, paging and control
Ethernet interface including PoE (Power Over Ethernet)
Half or full duplex intercom with AEC (Acoustic Echo Cancellation) and NR (Noise Reduction)
High quality gooseneck microphone and built-in loudspeaker (5W)
Web browser interface for management and monitor
PoE or 24 VDC power supply (if PoE is not available)
Automatic gain control on microphone input
SNMP (Simple Network Management Protocol) for device management on IP networks
3 user-defined hardware keys on front panel (Power/Fault/EVAC)
RJ9 for telephone headset and 2 mini-jack plugs for headset
Dimensions (D x H x W): 9-7/8" x 3-1/5" x 5-1/2" (250 x 80 x 140 mm)
Microphone flex length: 11" (280 mm)
Weight: 2.4 lbs (1098g)
Colour: RAL7016

SUPPORTED AUDIO CODEC

SIP	G.711 ulaw, G.711 alaw, G.722, G.726-32, G.727-32, G.729, PCM16K
SHOUTcast / icecast	MP3, AAC+
Stream	G.711 ulaw, G.711 alaw, G.722, WAVE, MP3, PCM16K
Record	G.711 ulaw, G.711 alaw, G.722, WAV, MP3

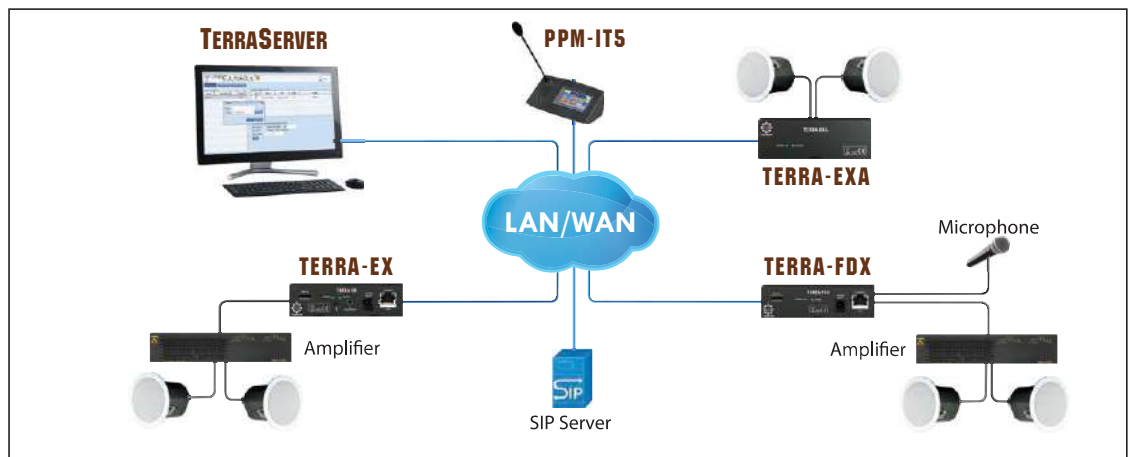
APPLICATIONS

PUBLIC ADDRESS-BACKGROUND MUSIC



The live announcements will be broadcast with a dedicated PPM-IT5 IP paging console, or microphone plugged into the TERRACOM device, such as TERRA-IEX, TERRA-AMP or TERRA-FDX. The selection of the announcement destination is done directly on the touch screen of PPM-IT5 console, or on a PC with a TerraServer client management software. The background music is stored on the TerraServer, or alternatively on another source such as a CD player connected to a TERRA-IEX.

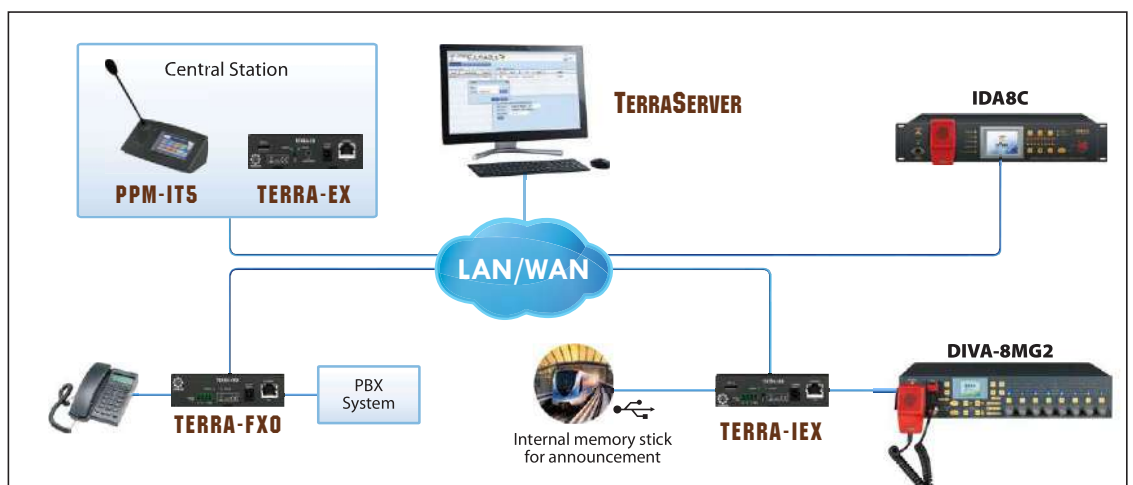
For the output, the TERRA-EX shall be used as a terminal, or use the TERRA-EXA if you need amplified outputs. Additionally, you could use the outputs of the TERRA-IEX & TERRA-FDX if you need outputs at the same place as the inputs. The priority management is controlled by the TerraServer. The priority management is controlled by the TERRACOM devices themselves, if you are not using the TerraServer solution.



PUBLIC ADDRESS-VOICE ALARM FOR TRANSPORTATION



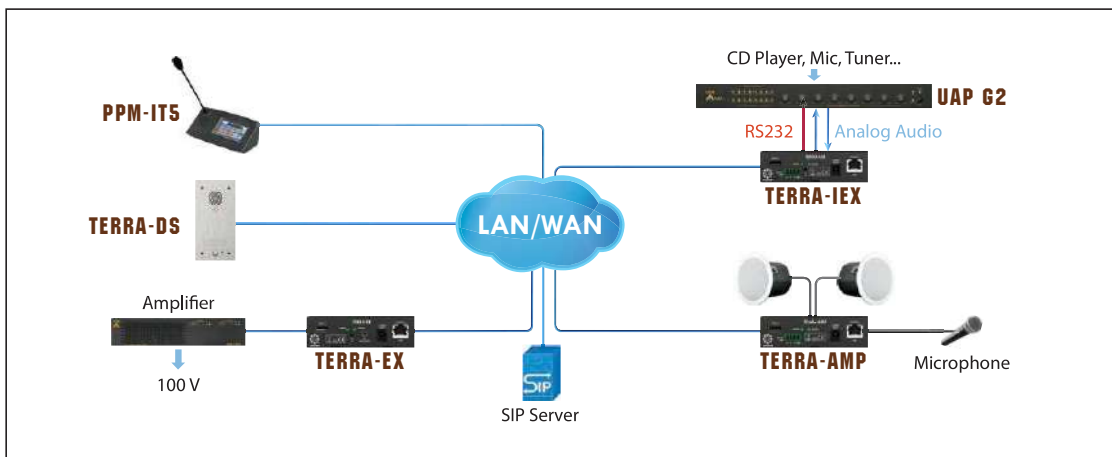
The TERRACOM range interfaces with the ATEIS Public Address & Voice Alarm systems such as the IDA8, offering a powerful solution for transport applications such as subways and tramways. In each station, the IP matrix of the IDA8 would handle the streaming. The TERRA-EX can also deliver a decoded audio stream, plus a serial link (RS232 or RS485) to control another standard matrix. The TERRA-FXO is capable of linking to a traditional telephone system with the IP system.



APPLICATIONS

INTERCOM-BACKGROUND MUSIC

Nowadays, there is no real limitations between intercom & PA BGM. You can decide whether to use TerraServer management software depending on the complexity of the system needs. The background music shall come from a hardware device like an audio processor such as a UAPG2, then connected to a TERRA-IX. The the priority management is done by the TERRACOM devices themselves.



BACKGROUND MUSIC IN RETAIL SHOPS

The TERRACOM software provides pre-recorded messages and background music playing over a standard Internet connection in advance to shops, shopping malls or any desired locations around the world. Its messages and audio sources can be programmed before hand and be stored in any Terra devices with a USB port.

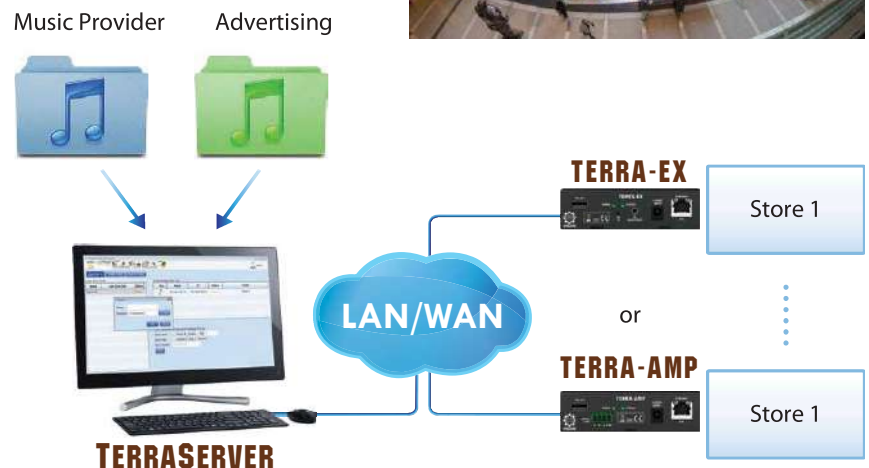
With the TERRACOM architecture, a user-friendly interface requires fewer people in operation which makes it a cost effective solution to customers.

Promotion Message Management

Users are encouraged to upload the desired messages or music on TerraServer, and have them scheduled in the desired sequences under priority setting, playing dates, repeating times, etc..

Later, users can upload the desired promotion schedules to the selected TERRACOM devices in any targeted locations worldwide over the internet, and store the setting in advance on any TERRACOM device which has a USB port. The pre-stored USB lists will be broadcast according to the schedules in certain areas. Users are welcome to browse through or refresh all device status to get the firsthand information.

Uploading status is visible to users under history tab, as well as preset schedule modifications that can be achieved via the TerraServer. This then provides customers the ability to handle worldwide advertising management by overcoming the geographical restrictions and time zones concerns.



ORDERING INFORMATION

TERRA-EX	IP Audio Decoder (stereo line-OUT x 1 or mono x 2, input contact x 3 & relay output contact (NO/NC) each x 1)
TERRA-EX2	IP Audio Decoder (including all interfaces on TERRA-EX, plus RS232 x 1)
TERRA-EX4	IP Audio Decoder (including all interfaces on TERRA-EX, plus RS485 x 1)
TERRA-EXU	IP Audio Decoder (including all interfaces on TERRA-EX, plus USB2.0 x 1)
TERRA-EXU2	IP Audio Decoder (including all interfaces on TERRA-EX, plus RS232 x 1, USB2.0 x 1)
TERRA-EXU4	IP Audio Decoder (including all interfaces on TERRA-EX, plus RS485 x 1, USB2.0 x 1)
TERRA-EXA	2 x 20W (8 ohm) Amplified IP Audio Decoder (stereo OUT x 1 or mono x 2, input contact x 3, relay output contact (NO/NC) x 1)
TERRA-IEX	IP Audio Encoder/Decoder (mic/line-IN x 2, stereo line-OUT x 1 or mono x 2, input contact x 3, relay output contact (NO/NC) each x 1, RS232 x 1)
TERRA-IEXU	IP Audio Encoder/Decoder (including all interfaces on TERRA-IEX, plus USB2.0 x 1)
TERRA-IEXU4	IP Audio Encoder/Decoder (including all interfaces on TERRA-IEX except change the RS232 x 1 to RS485 x 1, plus USB2.0 x 1)
TERRA-AMP	2 x 15W (8 ohm) Amplified IP Terminal (3.5 mm stereo in x 1, mic/line x 1, stereo OUT x 1 or mono x 2, stereo line-OUT x 1 or mono x 2, input contact x 3, relay output contact x 2, RS232 x 1)
TERRA-AMP4	2 x 15W (8 ohm) Amplified IP Terminal (3.5 mm stereo in x 1, mic/line x 1, stereo OUT x 1 or mono x 2, stereo line-OUT x 1 or mono x 2, input contact x 3, relay output contact x 2, RS485 x 1)
TERRA-K	IP Based Intercom Microphone
TERRA-FDX	Full Duplex IP Terminal (mic/line x 2, stereo line-OUT x 1 or mono x 2, input contact x 3, relay output contact x 2, USB2.0 x 1, RS232 x 1)
TERRA-FDX4	Full Duplex IP Terminal (mic/line x 2, stereo line-OUT x 1 or mono x 2, input contact x 3, relay output contact x 2, USB2.0 x 1, RS485 x 1)
TERRA-DS1	Flush-Mount IP Door Station Intercom Unit (mic/line-IN x 1, speaker-OUT x 1 & button x 1, button ext. port x 1, relay output contact x 2)
TERRA-FXO	Full Duplex IP Terminal to Telecom Gateway (analog phone interface x 2, RS232 x 1)
TERRA-FXO4	Full Duplex IP Terminal to Telecom Gateway (analog phone interface x 2, RS485 x 1)
TERRA-4IO	IP Contact Input & Output Terminal (contact IN x 4, relay contact OUT x 4, RS232 x 1)
TERRA-8IO	IP Contact Input & Output Terminal (contact IN x 8, relay contact OUT x 8, RS232 x 1)
TERRA-4IO4	IP Contact Input & Output Terminal (contact IN x 4, relay contact OUT x 4, RS485 x 1)
TERRA-8IO4	IP Contact Input & Output Terminal (contact IN x 8, relay contact OUT x 8, RS485 x 1)
PPM-ITS	Programmable Paging Microphone InTerCom (5" panel)
TERRA-RD	IP-Media Console / IP Radio Receiver
RAC 5	Remote Analog Source / Volume 5 Position
RAC 8	Remote Analog Source / Volume 8 Position
URC-200	Wall-mount with 2" TFT LCD and IR receiver





AUDIO AND CONTROL OVER IP