MESSENGER™

LYRA & ORISYS

SIDE LOBE FREE STEERABLE DIGITAL LINE ARRAY

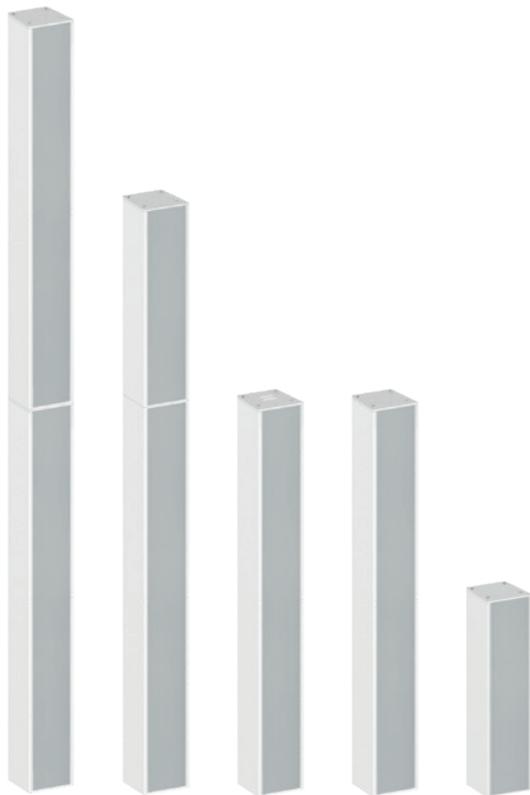| SPEECH & BACKGROUND MUSIC REINFORCEMENT	PATENTED ALGORITHM FOR SIDE LOBE SUPPRESSION	MULTIPLE VERTICAL SOUND LOBES	MODULAR ASSEMBLY BEAM-STEERING

LYRA

For Vocal Clarity
and Refined BGM Playback

ORISYS

Where Design Meets Function
Engineered for Speech Excellence

LYRA-XL (M+EX12)
Height: 2756 mm

LYRA-L (M+EX6)
Height: 2051 mm

LYRA-M
Height: 1378 mm

LYRA-EX12
Height: 1378 mm

LYRA-EX6
Height: 673 mm
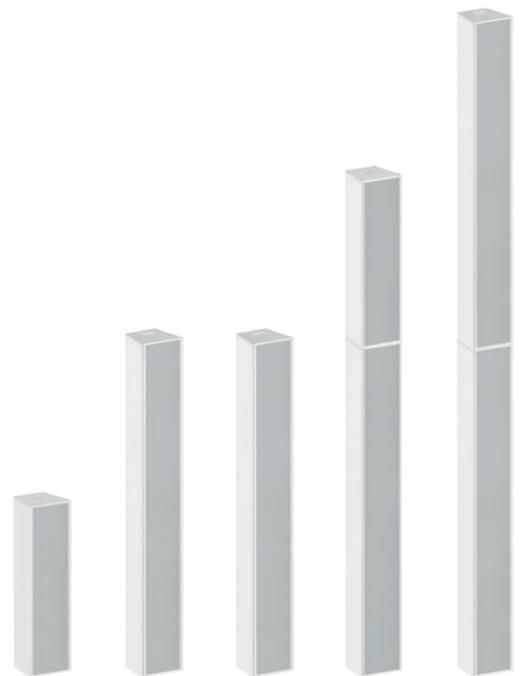
ORISYS-EX6
Height: 525.5 mm

ORISYS-EX12
Height: 1033 mm

ORISYS-M
Height: 1033 mm

ORISYS-L
Height: 1558.5 mm

ORISYS-XL
Height: 2066 mm

MESSENGER PRO

The MESSENGER PRO is a compact, self-powered, digitally steerable Line Array, engineered with advanced beam shaping technology to deliver crystal-clear speech and rich music in large, acoustically challenging spaces.

The MESSENGER PRO Line Arrays feature an exceptionally controlled beam pattern technology, maintaining a consistent signal variation of just ±3 dB from 5 to an impressive 100 meters. With a modular design setup for 12 to 48 Class-D amplifier channels, each system allows precise beam shaping—from symmetrical to asymmetrical patterns—and can generate up to three independently controlled audio lobes.

Advanced Connectivity, Processing & Future-Ready Design

The MESSENGER PRO is equipped with a versatile analog audio interface, ideal for straightforward stand-alone applications. It supports mic/line input, 70V/100V connections, 0 dB outputs, and includes remote control I/O along with a serial link for setup and configuration.

Designed with future standards in mind, the MESSENGER PRO is prepared for EN54-24 compliance and can be fitted with an ATEÏS digital network card. This enables a secure ring-topology over copper and fiber-optic infrastructure. Integrated LAN/WAN connectivity allows for remote access, diagnostics, and full-service control of up to 256 nodes.

For life-safety installations, an optional battery charger interface supports direct connection to a local 40Ah backup supply. A hardware bypass option allows for direct 70V/100V amplifier integration, ensuring continued operation in emergency conditions.

Built around the ATEÏS Designer Suite, MESSENGER PRO includes an extensive range of pre- and post-processing tools such as EQ, delay, limiter, compressor, priority functions, message playback, and more.

Fully compatible with TerraManager, the system supports remote audio streaming, source control, speech paging, and background music management. Enhanced modes optimize low-frequency performance, dynamically adapting vocals, music, and beam steering for rich and balanced reproduction.

At its core, the powerful DSP chip operates at a 48kHz sampling rate, delivering a wide frequency response up to 22kHz with extended low-end capability. Combined with patented side lobe suppression algorithms, the MESSENGER PRO offers outstanding speech intelligibility and high-fidelity sound—making it the go-to solution for modern pro-audio and voice evacuation applications.

Visual Beam Design with ATEÏS Designer Suite

The MESSENGER PRO is fully integrated with the ATEÏS Designer Suite, a powerful visual configuration platform. Users can intuitively create and simulate beam lobes within a 2D layout of the venue, complete with SPL mapping and decay visualization across seating areas. The software supports advanced setups with single, dual, or triple lobe configurations, including predefined balcony presets—ensuring optimal coverage and clarity in even the most complex acoustic environments.

FEATURES

ATEÏS DESIGNER SUITE INTEGRATION – KEY FEATURES:

- Comes standard with the ATEÏS Designer Suite for intuitive system configuration

- Visual 2D interface allows quick venue layout with seating and SPL mapping

- Design and simulate beam lobes directly onto your venue image

- Supports single, dual, or triple lobe configurations for flexible coverage

- Real-time visualization of SPL decay and beam shape across the audience area

- Optimized for both speech intelligibility and musical performance in complex spaces

- Includes preset balcony zones for multi-tiered environments

KEY FEATURES OF THE MESSENGER PRO:

- Minimal signal decay over distance ensures consistent SPL up to 100m

- Modular design allows for easy transport, handling, and flexible installation

- Adjustable acoustic center enables symmetrical or asymmetrical lobe shaping

- Variable vertical dispersion precisely controllable between 5° and 45°

- Beam steering up to ±45° with fine 0.1° resolution for pinpoint accuracy

- Triple-lobe capability allows complex coverage with maximum intelligibility

- Optimized for high STI– perfect for reverberant or acoustically challenging spaces

- Background Music (BGM) modes includes 3 bass-enhancement presets for rich low-end performance

ADVANCED CAPABILITIES AND INTEGRATION:

- Asymmetrical lobe design maintains sound deviation within ±3 dB from 5m to 100m

- Symmetrical lobes ideal for targeting elevated areas such as balconies

- Direct 100V/70V line input for seamless integration with conventional audio systems

- 24VDC power input with optional battery charger for backup power up to 40Ah

- Supports EASE GLL format for advanced room acoustic simulations

- TERRA interface over Ethernet for audio and control streaming

- Full compatibility with ATEÏS-NET devices for unified system integration

- 20kHz monitoring tone for mic/line and 70V/100V input supervision

- Hardware bypass input for redundant 100V amplifier connection in fail-safe setups
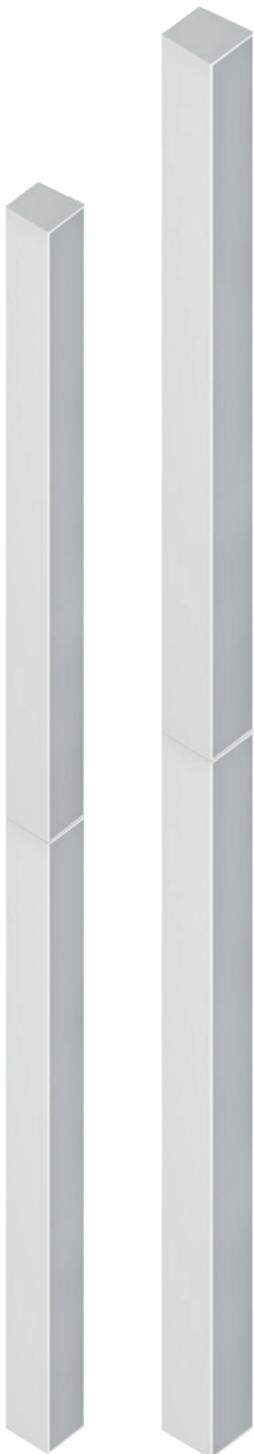
LYRA & ORISYS

HOUSE OF WORSHIP

SHOPPING CENTER

TRANSPORT

HIGH-PERFORMANCE COMPONENTS FOR SUPERIOR COVERAGE

The MESSENGER PRO is built around precision-engineered 4.25" (for LYRA) and 3.25" (for ORISYS) high-quality drivers, paired with an advanced DSP module and up to 8 Class-D amplifier boards, each offering 6 channels at 80W/RMS per channel.

For example, a single LYRA-2XL unit—with its 48 individually controlled channels—can deliver uniform coverage across a listening area of up to 70 meters, maintaining an SPL of 93dB and a signal-to-noise ratio exceeding 10dB. The result: outstanding speech intelligibility and virtually constant sound pressure across the entire audience area.

SMART DESIGN, POWERFUL PERFORMANCES

Combining high efficiency with advanced protection, the MESSENGER PRO ensures outstanding speech intelligibility and rich music reproduction—even in acoustically complex environments. Its sleek, unobtrusive design integrates seamlessly into any setting, while remote monitoring and dual audio inputs offer flexibility and full control.

APPLICATIONS

- CHURCHES
- MOSQUES
- MUSEUMS
- LIVE PA

- TRAIN STATIONS
- AIRPORTS
- SPORTS FACILITIES
- LEGISLATIVE BUILDINGS

- CONFERENCE ROOMS
- LECTURE HALLS
- SHOPPING CENTRES
- A/V PRESENTATION ROOMS

EVACUATION (VACIE) SYSTEMS

The MESSENGER PRO series of digitally steerable Line Arrays is fully prepared for the upcoming revision of the EN54-24 standard for active loudspeakers.

MESSENGER PRO is standard equipped with:
- Battery input
- Input audio monitoring
- Loudspeaker surveillance
- Redundant Ring network topology
- Optional battery charger
- Optional 100 Volt direct-drive Hardware by-pass

Illustration of a MESSENGER PRO segmented setup.
ORISYS-XL at the left
*LYRA-XL at the right*

DSP CONTROL WITH ATEÏS DESIGNER SUITE
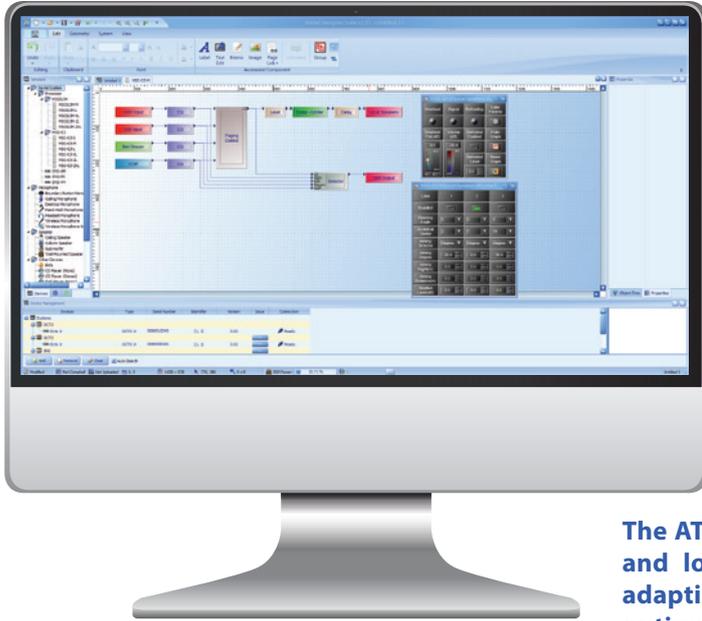
- Components: Input, Output, PEQ, Ethernet IGMP, Audio Stream, VoIP, Receive, Compressor/Limiter, Selector, Delay, Level Control
- Delay: 1 ~ 1,000 ms
- Equalizing: 8 bands PEQ
- Compressor /Limiter: Level adjustable
- Mute: audio ON/OFF
- Audio Indicators: Signal/Overload/Surveilling
- Input signal surveillance
- Input line detection: 20kHz, 18kHz and 20kHz standard on-board surveillance
- The Deforesting function avoids the icing of the drum paper and makes the output abnormal

The ATEÏS Designer Suite for system setup, pre and post processing and lobe shaping with precise steering and power tapering by adapting the acoustic center position along the Array ensuring optimal alignment and compensation for any installation scenario.

LOBE SHAPING BY ATEÏS DESIGNER SUITE

The acoustic center of the Array can be precisely adjusted to meet the specific requirements of the installation, including mounting height and environmental conditions. Each driver in the Array is individually powered and processed, allowing seamless transitions between symmetrical and asymmetrical lobe configurations. All adjustments are easily made via a simple selections within the ATEÏS Designer Suite.
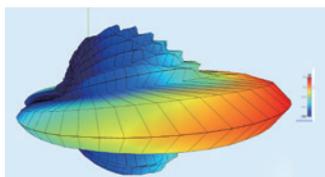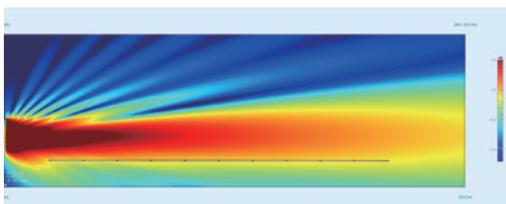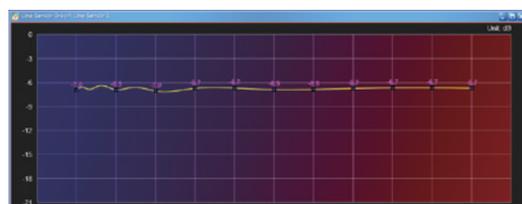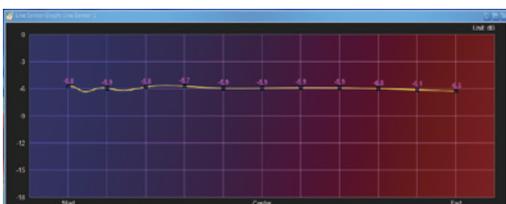

3D Dispersion Model
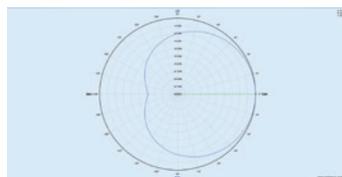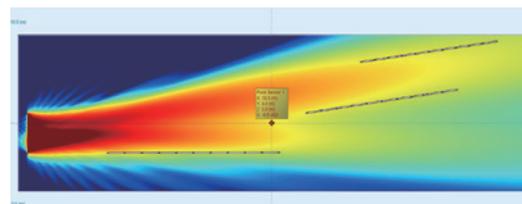

Horizontal Dispersion
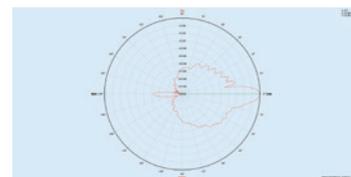
Vertical Dispersion

SPL decay from 3m ~ 25m @ 1.28 kHz

Multi point SPL decay metering planes @ 'X' Frequency

SYSTEM DIAGRAM PAVA APPROACH

ATEÏS Local and Global Networked Solutions: Scalable for Any Installation

ATEÏS networked equipment is designed to suit installations of any size — from compact local systems to large-scale, complex multi-zone and multi-input configurations. The system can start with as few as 4 zones and scale seamlessly to a global network of up to **16,384 A/B zones**.

Communication between units is supported over multiple media:

• **CAT5/6 cable** (up to 100m between units)

• **Multi-mode fiber** (up to 2km)

• **Single-mode fiber** (up to 20km or more)

This flexible architecture offers exceptional scalability and reliability, making ATEÏS systems uniquely capable of meeting the demands of any project — now and in the future.

SYSTEM DIAGRAM PAVA APPROACH

ADJUSTABLE ACOUSTIC CENTER

Another feature is that the acoustic center can be moved along the whole length of the line. This is especially useful if there's something like a lectern with a microphone in front of the system raising the acoustic center can help **prevent feedback**.
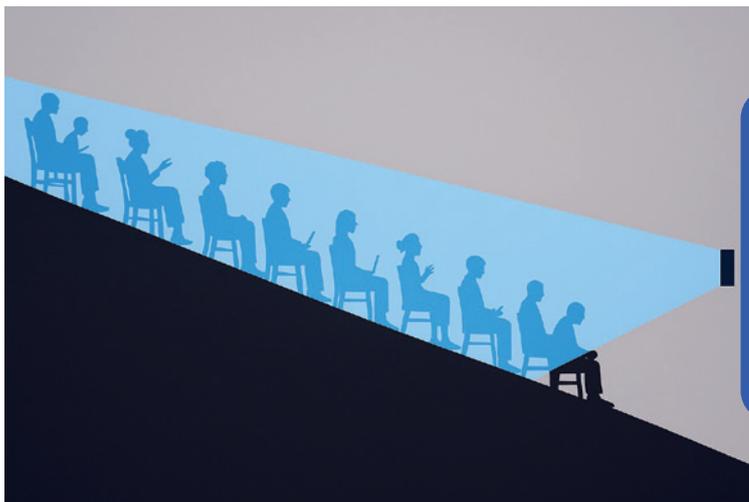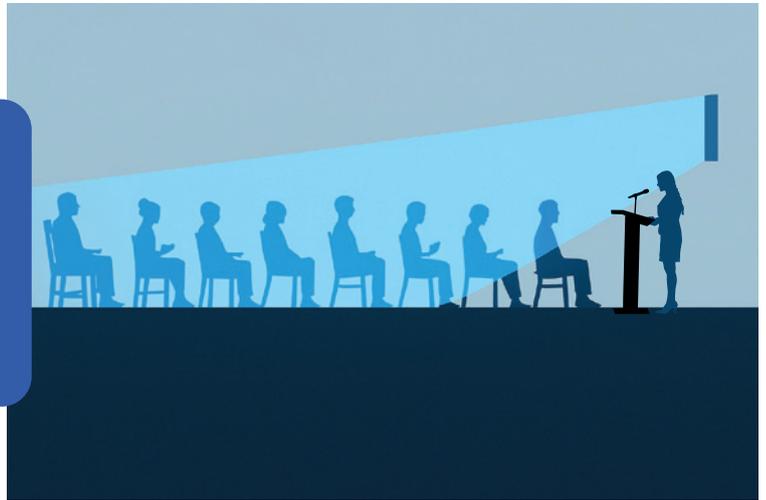

POWER SHADING

Symmetrical lobes are often used for far field coverage in combination with an asymmetrical lobe for the near field area.
This combination allows for individual level control for both near and far field generating an even coverage and same audio experience for all seat in the house.

MULTI BEAM STRATEGY

Need sound for a balcony or gallery too?
MESSENGER, MULTI-Beam Steering lets you add a second, independently controlled beam without affecting the first beam's coverage.
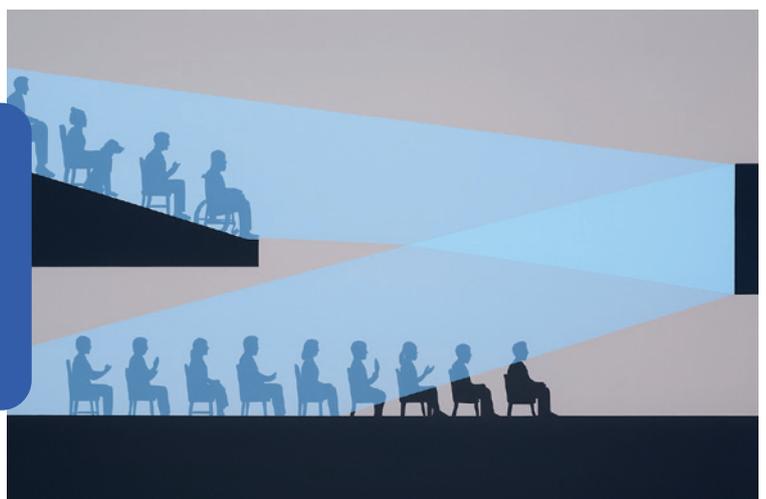
TECHNICAL SPECIFICATIONS

LYRA

Power consumption	AC power		DC power		No. of Channels
	Max	Standby mode	Max	Standby mode	
LYRA-S	170W	33W	145W	22W	8
LYRA-M	254W	38W	210W	25W	12
LYRA-L	373W	50W	310W	35W	18
LYRA-XL	500W	60W	415W	45W	24
LYRA-2XL	1000W	120W	830W	90W	48

ORISYS

Power consumption	AC power		DC power		No. of Channels
	Max	Standby mode	Max	Standby mode	
ORISYS-M	113W	26W	93W	17W	12
ORISYS-L	160W	34W	135W	24W	18
ORISYS-XL	210W	40W	175W	28W	24
ORISYS-2XL	420W	80W	350W	56W	48

CONNECTION PANEL

MOUNTING BRACKET

LYRA

ORISYS

COMBINE EXTENSION UNIT

TOP & BOTTOM VIEWS
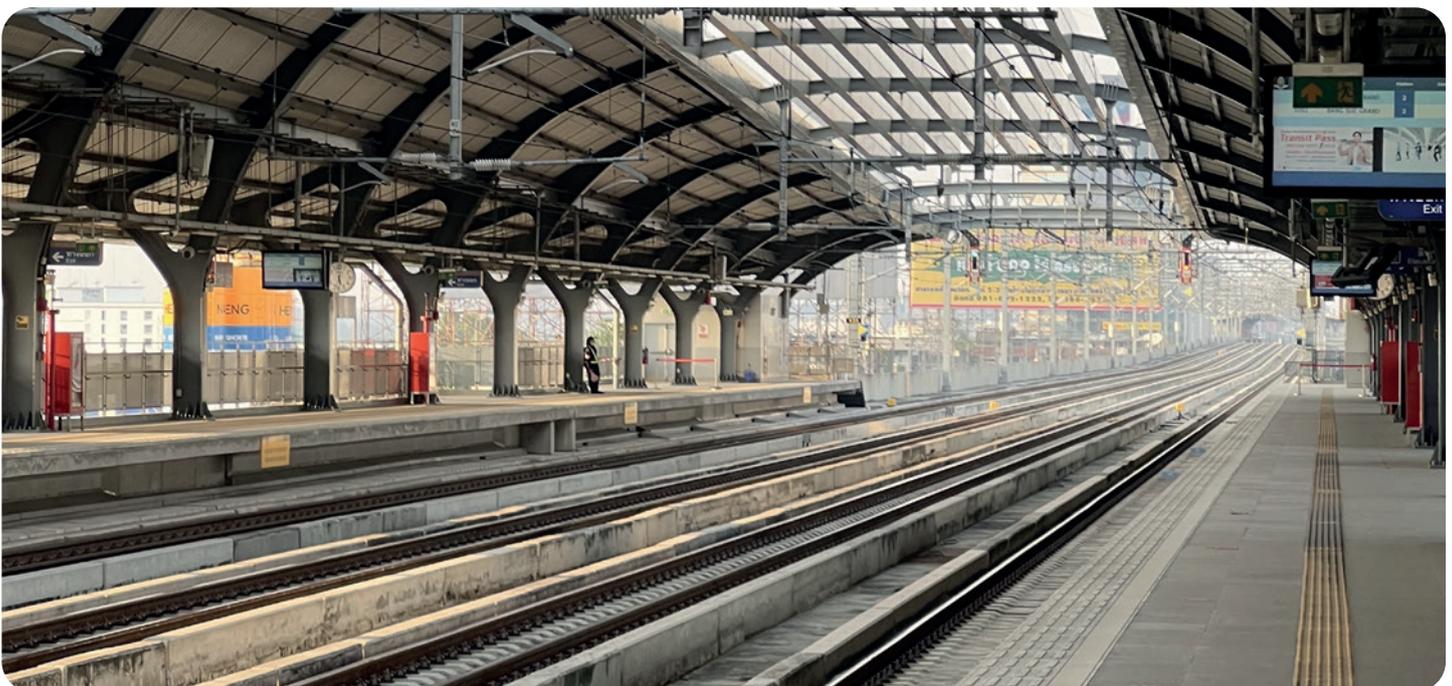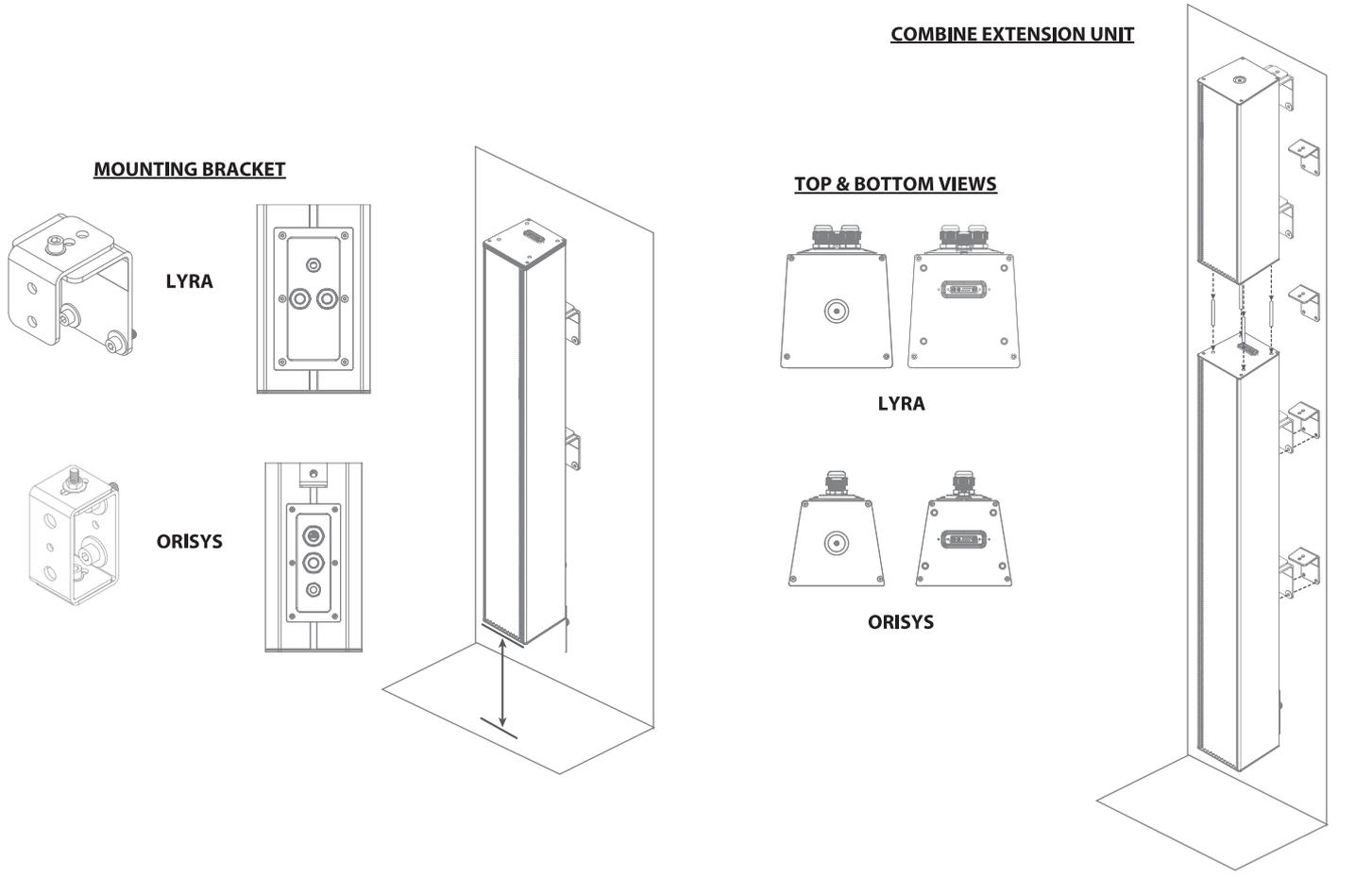
LYRA

ORISYS

Model	Dimensions (W x D x H)
LYRA-S	167 x 170 x 906 mm
LYRA-M	167 x 178 x 1378 mm
LYRA-L	167 x 178 x 2051 mm, EX6
LYRA-XL	167 x 178 x 2756 mm, EX12
LYRA-2XL	167 x 178 x 5512 mm, (EX12) x 2
LYRA-EX6	167 x 178 x 673 mm
LYRA-EX12	167 x 178 x 1378 mm

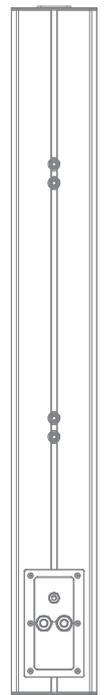| Model	Dimensions (W x D x H)
ORISYS-M	128 x 139 x 1033 mm
ORISYS-L	128 x 139 x 1558.5 mm, EX6
ORISYS-XL	128 x 139 x 2066 mm, EX12
ORISYS-2XL	128 x 139 x 4132 mm, (EX12) x 2
ORISYS-EX6	128 x 139 x 525.5 mm
ORISYS-EX12	128 x 139 x 1033 mm

FRONT VIEW   SIDE VIEW   REAR VIEW
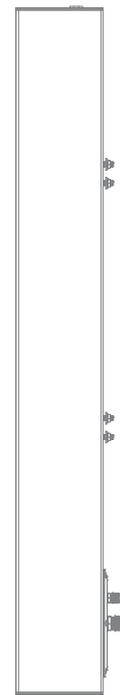
TECHNICAL SPECIFICATIONS

General Specifications	LYRA	ORISYS
Frequency response	100Hz – 20kHz (-3dB)	200Hz – 20kHz (-3dB)
Max. SPL	90dB @ 30m	90dB @ 30m
Effective range	-3dB from 5 to 35m	-3dB from 5 to 35m
Beam Steering, Azimut	+/- 45 degrees in steps of 0,1 degree	
Opening angle	5, 7, 10, 15, 20, 25, 30, 35, 40, 45 degree	
Lobe configurations	Single, Dual and Triple	
Lobe shape	Symmetrical & A-symmetrical lobe shape	
Acoustic center on driver	1, 4, 6, 9, 13, 16, 19, 24 (Typical for version XL)	
Remote control	Control up to 256 nodes via LAN/WAN	

Amplification & DSP	LYRA	ORISYS
Up to 48 full range drivers	4,25 inch	3,25 inch
	(dual-cone with inverted surround, weatherproof, aluminum)	
Class-D amplifiers (6-ch board)	100W/RMS per channel	30W/RMS per channel
Power supply	450W/RMS	170W/RMS
	A/D-D/A bit resolution: 24 bit	
Sampling rate	48kHz	
Internal processing	32 bit (floating points)	
Frequency response	100 ~ 22kHz	
Max. input/output level	6dB	
Input impedance (balanced)	10kΩ	
Output impedance (balanced)	90Ω	

Inputs & Interfaces	LYRA	ORISYS
Analog IN	Mic/Line, HV-70/100V	
Analog OUT	Line – 0dB	
Digital	Ethernet TCP/IP – Ateïs NET	
Serial	RS232	
Software	ATEÏS Designer Suite	
Control	2x trigger input & 1x general fault	
Monitor	Analog 20kHz pilot-tone	

ATEÏS-NET Cards	LYRA	ORISYS
RJ45(A)-(B)	RR	
Fiber Multi Mode(A)-RJ45(B)	MR	
Fiber Single Mode(A)-RJ45(B)	SR	
RJ45(A)-Fiber Multi Mode(B)	RM	
RJ45(A)-Fiber Single Mode(B)	RS	
Fiber Multi Mode(A)-(B)	MM	
Fiber Single Mode(A)-(B)	SS	

Mechanical and Power	LYRA	ORISYS
Enclosure	Powder-coated steel	
Mounting	Wall brackets included	
Mains	110 - 240VAC	
DC	24VDC backup input	
Emergency Bypass	Optional 100Volt driver for all speakers in column	
Weight and Dimensions	See weight and dimension table	

CONNECTION PANEL

1 70V/100V Amp IN:
 Connect to the 100V/70V HV line IN
 LED lights up in red with Input signal

2 Audio Mic/Line IN:
 Connect to Mic/Line IN
 LED lights up in red with input signal

3 Audio Line OUT: LED lights up in orange with Line OUT (output signal)

4 Power LED: Lights up in red when the power is OFF

5 Sys-Act LED: Lights up in yellow if the DSP communicates correctly

6 M-Net LED: Lights up in green when the MESSENGER units communicate correctly. The flashing speed of the light represents the communication status of the MESSENGER units
 High speed (blink/0.25s): MESSENGER units update
 Low speed (blink/1s): Error
 Always ON: Normal status

7 2 sets of Relay connectors: LED light up in red if fault is detected

8 1 set of Logic: LED lights off when circuit open; light up when short circuit

9 RS232 port to connecting the PC or 3rd party. LED lights up in green and flashing when transmitting or receiving

10 2 ports for ATEÏS-NET Loop for redundancy. LED lights up in green if network is connected

11 Ethernet RJ45 port for TCP/IP networking. LED Lights up when communication with MESSENGER control

12 Battery temperature sensor

13 24VDC back-up power input

14 70V/100V line transformer
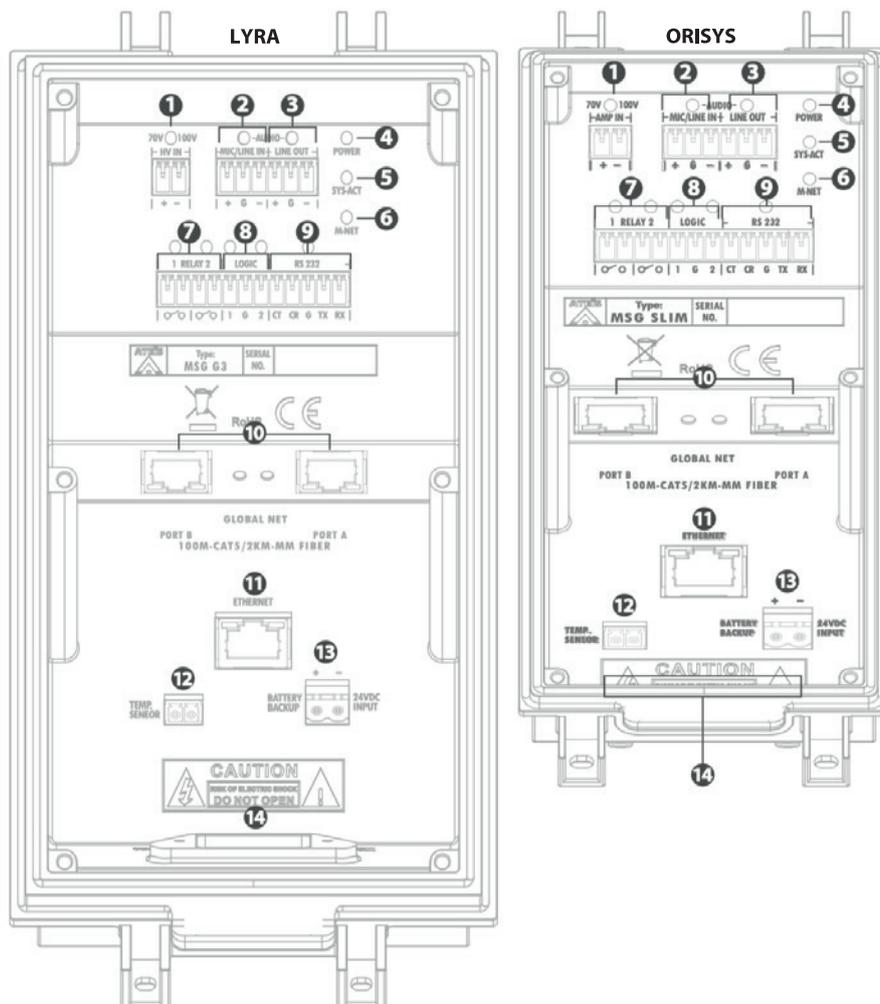
AUDIO OVER IP COMPATIBLE

LYRA & ORISYS

TerraServer

TERRA-FDX

Music Player

TerraManager   TERRA-K

LAN/WAN
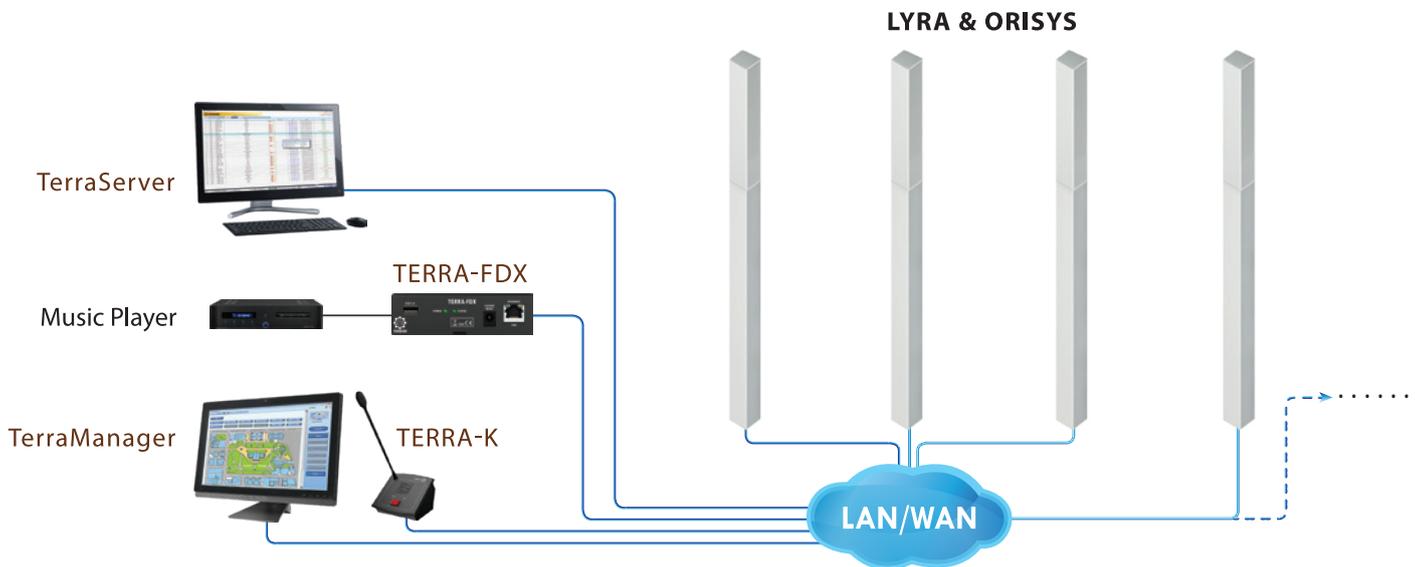
ARCHITECTURAL FEATURES OF MESSENGER PRO

- Designed for high quality speech and Background Music applications in reverberant acoustic environments

- Asymmetrical lobe design maintains sound deviation within ±3dB from 5m to 100m

- Symmetrical lobes ideal for targeting elevated areas such as balconies

- Minimal signal decay over distance – ensures consistent SPL up to 100m

- Modular design – allows for easy transport, handling, and flexible installation

- Adjustable acoustic center – enables symmetrical or asymmetrical lobe shaping

- Variable vertical dispersion – precisely controllable between 5° and 45°

- Beam steering up to ±45° – with fine 0.1° resolution for pinpoint accuracy

- Triple-lobe capability allows complex coverage with maximum intelligibility

- Optimized for high STI, perfect for reverberant or acoustically challenging spaces

- Background Music (BGM) modes includes 3 bass-enhancement presets for rich low-end performance

- Comes standard with the ATEÏS Designer Suite for intuitive system configuration

- Visual 2D interface allows quick venue layout with seating and SPL mapping

- Design and simulate beam lobes directly onto your venue image

- Supports single, dual, or triple lobe configurations for flexible coverage. Includes preset balcony zones for multi-tiered environments

- Real-time visualization of SPL decay and beam shape across the audience area

- Optimized for both speech intelligibility and musical performance in complex spaces
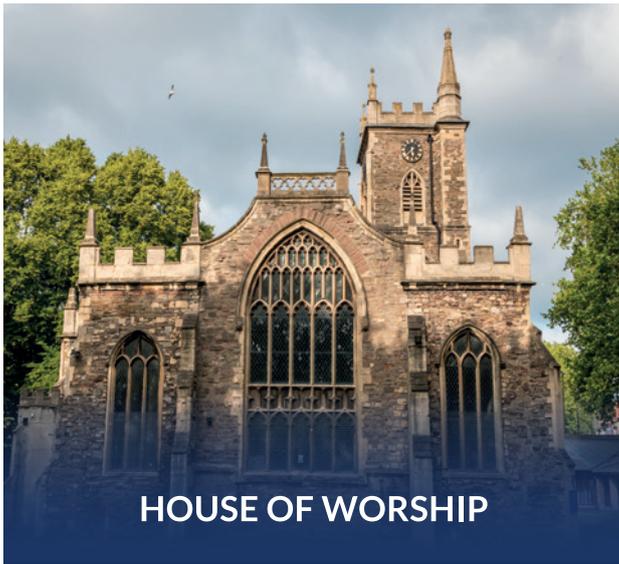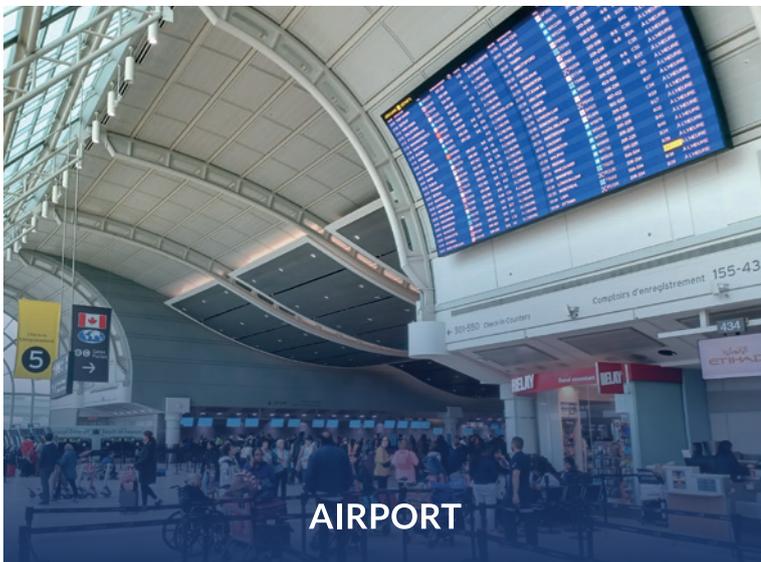
INSTALLATION ENVIRONMENTS

SHOPPING CENTER

STADIUM

HOUSE OF WORSHIP

TRAIN STATION

AIRPORT

UNIVERSITY

ATEÏS®

Where Audio Meets Safety

ATEÏS is a global leader in innovative audio safety solutions.

With over 40 years of expertise, our mission is to ensure safety and clear communication in public spaces. We specialize in designing and manufacturing advanced audio systems, including high-quality Voice Alarm, Public Address, Audio over IP solutions, Loudspeakers and Windows Intercom solutions. Renowned for our technological innovation, reliability and ability, we meet the demands of the most challenging markets.

Our audio systems are designed to comply with the highest regulatory and safety standards, including EN54 certification and other regional regulations, serving sector such as transportation, healthcare, industrial, corporate, retail, recreation, among others.

In environments where safety, reliability and intelligibility are critical, ATEÏS ensures clear, latency-free audio transmission, even in the most complex emergency situations.

ATEÏS is synonymous with high-quality manufacturing in Europe and worldwide, where we oversee the excellence of every component in our audio and safety systems.

We are very close to our customers by being present in most countries throughout the world, directly with our own ATEÏS companies or with our many local added-value partners.
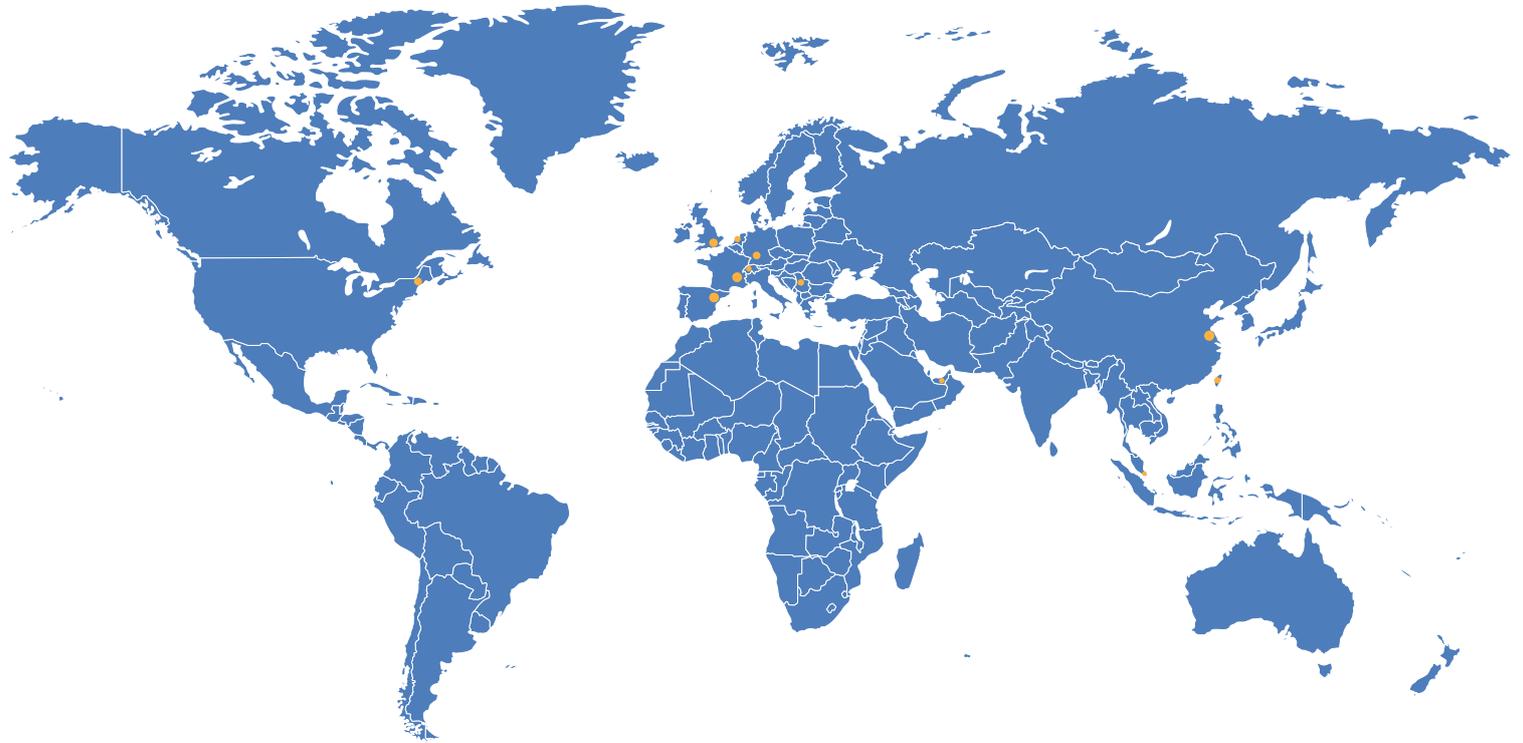
ATEÏS also proposes the best technical support for your teams and projects, possibly from the design to its realization and during its life time.

Discover how ATEÏS can elevate safety and communication in your projects.

Developpment	Manufacturing	Projects	Sales

Logistic	Technical Support	Quality Service
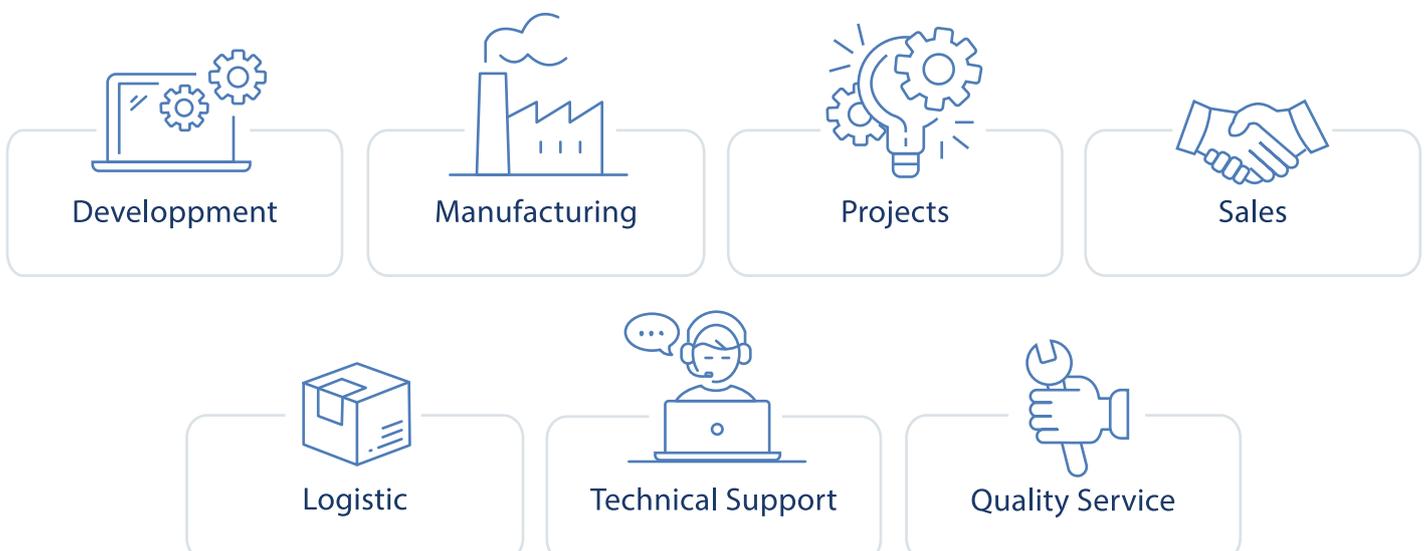
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LYRA & ORISYS

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