

OVERVIEW

Messenger Pro proudly introduces a new generation of steerable Line Arrays: The Orbit has omni-directional and steerable radiation pattern, which is fully redesigned to meet the highest architectural demands and equipped to handle current and upcoming requirements for the voice alarm industry, commercial audio and pro-sound.

Each ORBIT has a very tightly controlled beam which can be shaped as required for specific applications or environments requiring symmetrical or asymmetrical, single, dual or triple lobe designs where the ORBIT can be placed free-hanging from the middle of the venue. The ORBIT provides broadcast S/N ratio, music quality frequency respond and a pro-sound power handling with more advanced pre-processing abilities.

The availability of high power audio DSP's such as the analogue devices makes it possible to provide 24 channels of powerful processing that lead to precise beam control and even signal pattern that stays within 3 dB over a distance of 100 m radius in a 360 degrees wave!



ORBIT

M	3 rows of 12 loudspeakers - 1003 mm, 10 m@90 dB
L	3 rows of 18 loudspeakers - 1669 mm, 15 m@90 dB
Two-L	Orbit L x 2 pieces with head to head installation and two-L software configuration, 35m @ 90 dB

FEATURES

- Specially designed for high quality speech and background music applications in reverberant acoustic environments
- Equipped to meet voice evacuation applications
- 24 VDC input for battery backup, 20 kHz Input surveillance
- Internal HF carrier loudspeaker surveillance
- Tightly controlled beam from 25 up to 3 degrees
- Asymmetrical and Symmetrical arrangement by means of software controlled
- Integrated DSP control with 8 bands EQ, noise gate, delay rooms, peak limiter, VOX-control
- Ambient noise sensor/temperature sensor with frost protection
- Ethernet connectivity for remote access via WAN
- EASE DLL & CATT DLL, for advanced room acoustic simulations
- SPL stays within +/- 2 dB variation over a distance of at least 60 m
- TCP/IP remote link and RS485 data bus for full detailed status report and PC based remote setup(up to 32 x Orbits on the bus)

ARCHITECTS & ENGINEERS SPECIFICATIONS

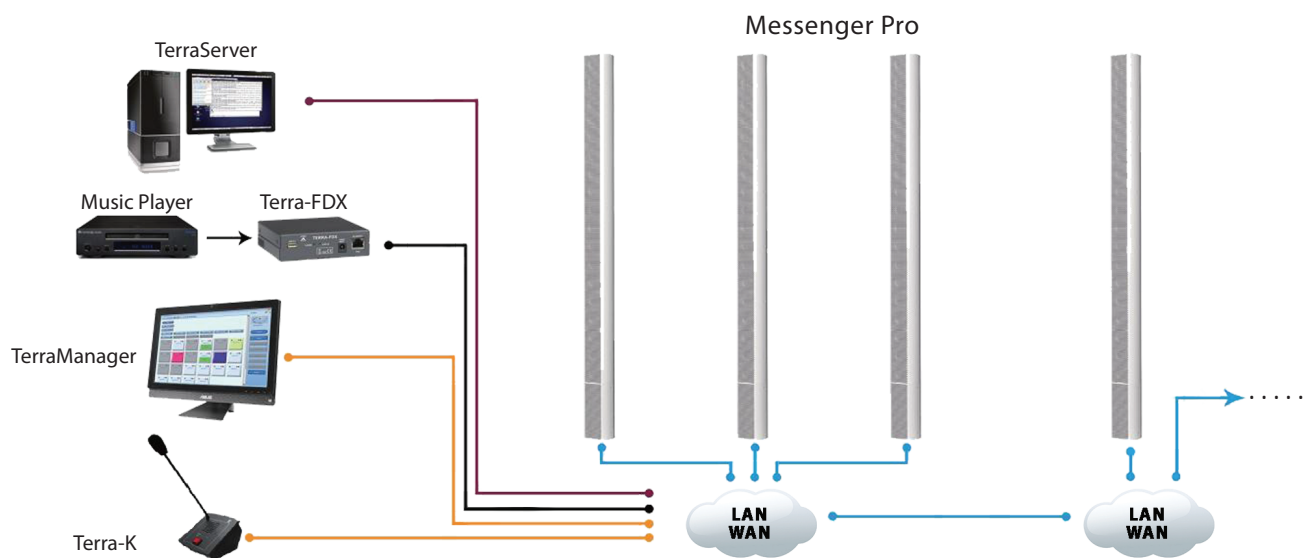
The ORBIT series offers tightly controlled lobe with smaller vertical opening angles up to 3 degrees, providing a precisely controlled listening field and high intelligibility with a maximum signal to reverb ratio. The ORBIT contains three 120 degrees beams to cover an area of 360 degrees. Therefore it is the perfect tool for a central mounting under the ceiling in large and reverberant environments.

Additional input cards can be provided to have a digital link between ORBITS or to interface through TCP/IP networking. Each ORBIT is equipped as standard with a 24 VDC battery backup input, amplifier and loudspeaker-element surveillance based on internal HF carrier detection and 20 kHz input signal surveillance on both audio inputs and slave output. The ORBIT series is specially designed for use in life-safety applications where special requirements are necessary to meet the modern standards for voice evacuation systems. The ORBIT nodes can be placed up to 100M away. A fiber-optic converter is also available for longer 100M.



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SPECIFICATIONS

CHARACTERISTICS

- 24 Class-D amplifier channels with 70 Watt
- SPL coverage stays within 1dB variation
- Variable acoustic centre
- Triple lobe control
- RS485 link
- Remote access by TCP/IP interface
- Dual mode power supply + battery backup (24 VDC)
- Frequency range: 90–18000 Hz
- Max. SPL: 93 dB +/- 1dB
- Dual audio input: Music 0dB - Alarm 0 dB with contact
- DSP module: ADSP21369-400 2.4 G flops 400 tabs/filter/ch 24-channels
- Speaker element: 4,25"-dual-cone with inverted surround - weatherproof - aluminum

PRE-PROCESSING

- Pre-delay: 1000 mS
- Equalizing: 8 bands parametric
- Peak limiter: Level adjustable
- Mute: Audio on/off
- Signal indicators: Clipping/Audio/Limiter/Noise-gate
- Surveillance: amps, input signal, router, processor watchdog, active feedback on drivers (optional), emergency backup
- Input line detection, 18 – 20kHz (Adjustable)
- Noise-sensing: on-board

POWER REQUIREMENTS

- Mains: 230 VAC
- Emergency supply: 16–27 VDC
- Power supply: EN 54-4 compliant charger

MOUNTING POSITION

- Flexible height: 1.5 - 4 m



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