ENGLISH

EAD

Integrated Solutions
for Air Traffic Control
and Operations Rooms

The voice that guides you.
Always.®

EAD
Always Operational

EAD (Emergency Access Device) is a compact all-in-one, powerful and modular solution, designed in accordance with EUROCAE ED137 standard.

The concept behind EAD design is to serve Air Traffic Control Centres for contingency purposes as Last Resort System, but its performance perfectly fits the applications for small-sized airports or towers, transportable solutions and movable shelters.

EAD allows direct VoIP ED137 communications with any radio equipment. Whenever required, it can be also equipped with telephone connectivity, allowing ED137-based calls to other devices connected through the LAN/WAN and supporting the functionality.

EAD embeds a 7-inch touch-screen with headphone/microphone/PTT inputs that enable it to function as a complete Controller Working Position. It connects autonomously and redundantly to the LAN/WAN, in accordance with the network configuration.

EAD can manage up to 8 simultaneous VoIP connections to single channel radios using the EUROCAE ED137 standard and SIP/RTP protocol for voice traffic:

- SIP protocol for establishing the connection between EAD and the radios, through negotiation of the parameters to be used during the session;
- RTP packets for real-time audio stream, transfer of the PTT/SQUELCH signals and signal quality estimation.

In case not all the radio assets have ED137 interfacing capability, SITTI's Gateway Voice Systems (GVS) can perform the complementary service of handling the legacy radio stations and providing the conversion to ED137 standard.

A familiar user interface

The graphical interface, intuitive and easy to use, has a layout similar to the one used on the terminals of MULTIFONO® VCS system, thus allowing operators to quickly respond to operational emergency situations.

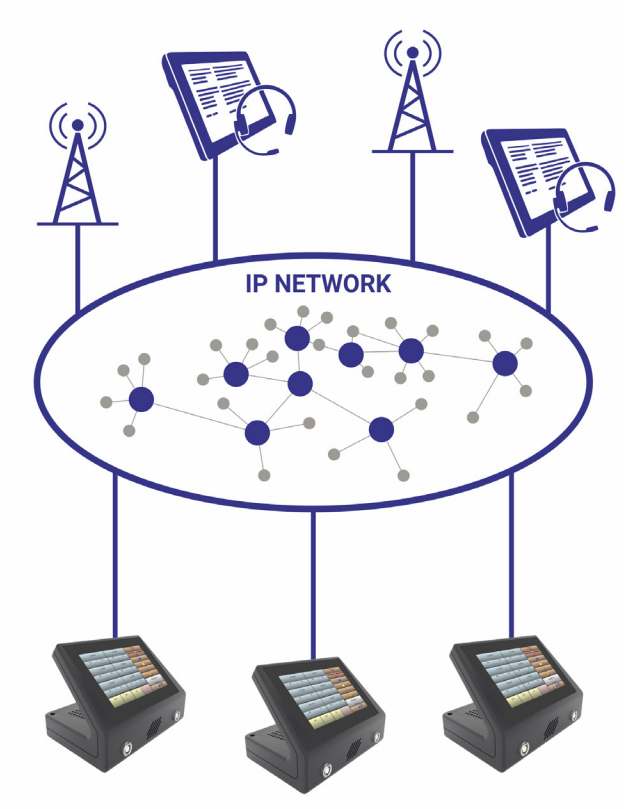
In addition to the buttons for connecting to radios and telephone lines, EAD is equipped with a set of keys for other management operations, such as audio levels setting, configuration information window, presence of electro-acoustic devices, PTT function, date and time, operator ID, etc.

EAD may also include the ED137 telephone facility among devices of the same or remote Centres.

Electro-acoustic compatibility

The EAD terminal integrates a speaker and two frontal connectors, where microphone, headset and PTT electro-acoustic devices can be connected to.

The connectors are compatible with the devices in use on MULTIFONO® VCS system. In case of an emergency, whereby a MULTIFONO® VCS is available in the same Centre, the operator can quickly transfer the operation to EAD.



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Easy to use and to configure

Thanks to its compact size, EAD can be installed very quickly and becomes operational in a very short time.

To allow maximum versatility even in critical situations, EAD can be easily configured through LAN ports by means of the EAD Management Application.

Alarm management is based on the SNMP protocol for constant and real-time monitoring of the status of the system.

// EAD Technical Information

Basic Characteristics	
Power supply:	24 VDC (dual)
Consumption:	15 W
Operative Temperature:	from 0°C to +50°C
Dimension:	235x162x156 mm
Display	
Type:	TFT, with anti glare and hard coating
Touchscreen technology:	Capacitive - Single touch
Resolution:	wide 800x480, 24bpp
Active display area:	7” diagonal
Colors:	16,7 millions
Backlight:	LED
Brightness:	1000 Cd/m2
Viewing angle:	Full-view
Radio Management	
Type:	VoIP single-channel
Protocol:	ED137
Manageable radio units:	max. 8 simultaneously
Audio Encoding:	G711 A-law
Operator Interface	
2 Microphone/headphone/PTT ports	

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ENVIRONMENTAL SYSTEM CERTIFICATION DNV·GL ISO 14001

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

INFORMATION SECURITY MANAGEMENT SYSTEM DNV·GL ISO/IEC 27001