MDT - DANTE TOUCHSCREEN MICROPHONE

FEATURES

- 32-bit DSP audio processor
- Redundant transmission path
- Up to 8 simultaneous paging microphone
- Up to 32 paging microphones in network
- Up to 2 × 2 simultaneous AoIP network streams
- PoE powered
- Gooseneck or handheld microphone
- High-performance microphone capsule
- Reliable mechanical buttons for emergency use
- 7” touchscreen
- 2 status LED indicators per programmable button
- Advanced control of IVO PAVA system
- Aluminum housing
- Built-in audio input
- Built-in loudspeaker
- Intercom functionality
- Wall-mounting option
- Adjustable microphone sensitivity
- Maximum connection distance: 100 m (without additional Ethernet switches)



OVERVIEW

The MDT (Microphone Dante Touch) is the next-generation console that builds upon and extends the functionality of the existing MAI series. Equipped with a touchscreen and an integrated interface, the MDT console offers all features of current MAI units, along with enhanced control and configuration capabilities.

The unit allows secure configuration directly via the network, with password protection and user-defined password management ensuring safe and controlled access. A factory reset function, available through the onboard button, makes it possible to restore default settings and passwords when needed. The microphone sensitivity can be precisely adjusted, and users can broadcast live voice announcements with the option of adding a gong tone before transmission.

The MDT further enhances system flexibility by supporting full audio routing with source and message selection, as well as scenario control through bit activation from the controller. Output card volume can be adjusted directly from the console, while real-time monitoring provides immediate feedback on alarms, faults, and system events.

For operators, the MDT offers intuitive visual feedback, including a level indicator for voice announcements, quick-access icons for triggering pre-recorded automatic messages, and even monitoring of the microphone capsule to ensure full reliability in mission-critical situations.

Communication with IVO systems is provided via the Dante network using the KSD card, enabling high-quality audio transmission and seamless networking between IVO PAVA systems.

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TECHNICAL SPECIFICATION

GENERAL	
Power supply	24 V DC ± 20 % 48 V DC ± 15 %
Idle consumption	< 5 W
Standards	EN54, CE
Mechanical	290 x 185 x 60 mm
Operating temperature	-5 .. +50 °C
Relative humidity	25 % .. 90 %
Indicators	Power, alarm, fault, bypass, 2x LED each button, 1Gbps or 100Mbps Ethernet active (each DANTE port) *
Connectors	2x DANTE (primary and secondary), 0 dB symmetrical audio input, 0 dB symmetrical audio output
Display resolution	800 x 480 px

AUDIO SPECIFICATION	
Frequency response	Microphone: 150 Hz - 16 kHz (- 3 dB) Audio input and output: 10 Hz - 30 kHz (- 3 dB)
Distortion (THD + N) (1 kHz)	< 0,1 %
Signal-to-noise ratio	Microphone: > 75 dB Audio input and output: > 95 dB
Digital audio format	Up to PCM 24-bit / 96 kHz

OTHERS	
Audio throughput delay	< 1 ms

* KSD and MDT devices support scalable Dante network configurations. The number of devices and simultaneous audio streams depends on the bandwidth, topology, configuration and overall traffic load of the Ethernet infrastructure.

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