



The Reliable Choice

**TAC SYSTEM**

Situational Awareness  
& Hearing Protection

## TITAN In-Ear Microphone Headset with Ambient Microphones

### Situational Awareness and Hearing Protection

#### The Titan In-Ear Microphone Headset With Situational Awareness

The TITAN Tactical Headset with Ambient Mics is a communication device specially designed for users needing hearing protection, while maintaining situational awareness.

The ambient microphones ensure that the users' ears are protected from high noises, while ensuring situational awareness at all times.

The patented In-Ear Microphone captures speech patterns in the ear canal to deliver clear sound even when you are whispering.

The headset connects to Titan MM50-TAC Speaker Mic.



#### INCLUDING



*Comes with 2 different sizes of Comply Foam ear tips (Small & Medium)*

### Technical data

Microphone		Speaker	
Mic Max SPL	116dB SPL	DC Resistance	DC Resistance: 25Ω $\pm$ 10%
Output impedance	2.2kΩ	Impedance	@ 500Hz: 36.5Ω $\pm$ 15%
Environment		Impulse Noise Compression	Above 85dB
MIL STD	MIL-STD-810	Situational Awareness	External Mics with adjustable volume levels
Operating temperature	-20 to +60 degrees C	SNR / NRR Rating	30db SNR & 25dB NRR
Storage temperature	-30 to +70 degrees C	Approvals	EN352-2/7/9 and ANSI S3.19-1974

Titan Communication Systems ApS  
Rønnegade 9 | DK-2100 Copenhagen | Tel: +45 3212 4002 | Fax: +45 3212 4002  
[www.titancomsys.com](http://www.titancomsys.com) | [info@titancomsys.com](mailto:info@titancomsys.com)

*Customized audio solutions for critical communications: Titan Communication Systems has its head office in Copenhagen, Denmark. Here a dedicated staff design and develop high quality audio solutions for first responders. Further, Titan Communication Systems has a strategic partnership with Comufrance, Paris, France, where many products are being designed, engineered and assembled, including hands-on quality control throughout the production process.*

## TITAN In-Ear Microphone Headset with Ambient Microphones

### Situational Awareness and Hearing Protection

#### RIGHT SIDE EARPIECE

The right side earpiece offers situational awareness and also has a high-performance Knowles speaker, which provides crystal clear audio from receiving radio calls.

The impulse noise compression ensures that noise above 85dB will be compressed. Please be aware that sounds at high noise levels are conducted through your head into your ear, so these will be detected at very high ambient levels also.



#### LEFT SIDE EARPIECE

The IE2-TAC Left Side Earpiece is where the in-ear microphone for transmitting is placed. This means that if you take out the left side earpiece, while the IE2-TAC is connected to the MM50-TAC, you will not be able to transmit.

When transmitting through the IE2-TAC, the situational awareness on the left side earpiece will be off. As soon as transmission is over, the situational awareness is back on.



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**TITAN**  
COM SYS

Situational Awareness  
Hearing Protection  
In-Ear Voice Capture



A soldier in full combat gear, including a camouflage helmet, goggles, and tactical vest, is aiming a rifle. The background is a blurred outdoor setting with green foliage. A semi-transparent grey box is overlaid on the lower half of the image, containing white text.

Crystal Clear Audio  
Impulse Noise Protection  
Secure Fit

## TITAN Remote Speaker Microphone & Control Box MM50-TAC

### THE TITAN REMOTE SPEAKER MICROPHONE

The MM50-TAC is a state-of-the-art high-tech Remote Speaker Microphone. The MM50-TAC can work independently as a RSM, but even better with the IE2-TAC, where situational awareness and hearing protection comes into play.



*Volume +/- buttons  
and loudspeaker on/off  
switch when headset  
connected.*



*Side PTT*

*3.5 mm audio jack for  
earphone accessories*



Part number:  
MM50-TAC

### Technical data

<b>Microphone</b>	Omni directional	<b>Environmental specifications</b>	
<b>Sensitivity</b>	- 42dB +/- 3dB	<b>Operating temperature</b>	-25° C to +60° C
<b>Speaker</b>	36mm Ø Dynamic	<b>Storage temperature</b>	-40° C to +85° C
<b>Output power</b>	1W Max 1,5W	<b>Mechanical specifications</b>	
<b>Output level</b>	91dB +/- 3dB	<b>Cable flex life</b>	50,000 cycles
<b>Frequency range</b>	580Hz ~ 5KHz	<b>Cable pull strength</b>	Axial 13 kgs
		<b>PTT switch life</b>	100,000 cycles
		<b>Protection rating</b>	IP67

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