

**TITAN**  
COMMUNICATION SYSTEMS

# The Reliable Choice



# The Titan Company

## About Us

Titan Communication Systems has 20 years of experience with customized audio solutions for critical communications. Our customers rely on our extensive technological know-how, and we focus on delivering the ideal solution every time, always striving for innovation and optimum performance. With equal amounts of precision, perfection and passion we take on any challenge to design or improve your critical communication solutions and accessories.

### A UNIQUE MIX OF TECHNOLOGY AND CRAFTSMANSHIP

Since 1996 Titan Communication Systems has been a leading developer of mobile audio solutions and products for critical communication. Close communication and cooperation with our customers is the cornerstone of our company ensuring that we understand your needs and requirements whether you are looking for a product or a solution. Excellence in technologies, expertise in engineering, and rigorous quality control throughout every process are principal lines in our business, making Titan the reliable choice.

Craftsmanship is a key factor when making tailor-made solutions. Our dedicated staff have extensive design and engineering capabilities and profound technical experience

in the assembly of all products. Quality control is managed by our office in Emerainville, just outside Paris, France. Advanced software capabilities are developed by specialists in Copenhagen, Denmark.

### CHALLENGES REQUIRE SOLUTIONS

Communication in challenging environments is a question of clarity, precision, and reliability. People work under constant pressure in a wide range of demanding situations.

That is why Titan mobile audio solutions are based on state of the art technology to meet your demands for reliability at the highest level.

Most of Titan Communication Systems' solutions and products are custom-made, specifically developed in close cooperation with our customers around the world.

Driving 200 km per hour on a Police motorcycle, working on an oil platform in the Atlantic Sea, or communicating in a helicopter require different solutions that standard products cannot solve with proper safety and reliability. That is why our solutions for critical communication are individually customized to meet the needs and specifications of your business.

### THE TITAN PRODUCTS

No matter the purpose or use, the environment or the situation, high-end audio quality is a must at all times.

Titan Communication Systems' solutions are always individualized and manufactured to provide the best audio quality.

Titan is in the business of mobile audio communication systems with emphasis on mobile products. We are committed to deliver safety, efficiency and security to our customers because we know that there must be no compromises with high-end quality solutions.

The range of our products contains:

- TITAN ATEX/IECEx
- TITAN Firefighter Helmet Solutions
- TITAN DECT Full Duplex Intercom
- TITAN Speaker Microphones
- TITAN Motorcycle Audio Systems
- Titan Covert Headsets
- Titan Tactical
- TITAN Wireless Audio AIRCRYPT™

### INDUSTRY SUGGESTION ICONS



Industrial



Police & Emergency



Tactical



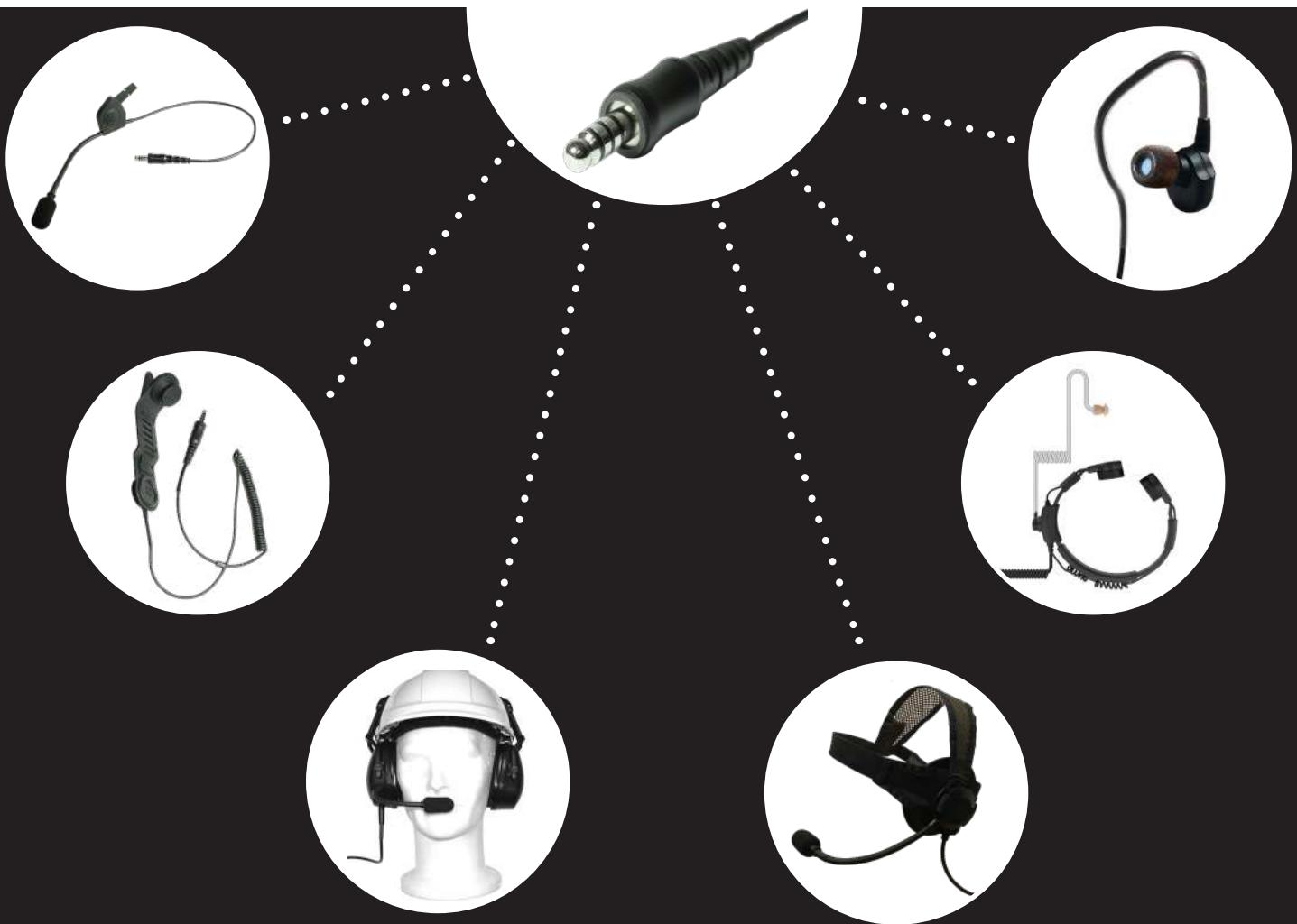
Fire & Rescue



ATEX/IECEx

# The Titan Modular Nexus Concept

## Push-To-Talk Base Units



# Push-To-Talk Base Units

## MM20 - Remote Speaker Microphone



### THE TITAN REMOTE SPEAKER MICROPHONE

The Titan Remote Speaker Microphone MM20 is a versatile accessory product with front and side PTT. The Nexus connector and 3.5mm jack socket enable users to combine the MM20 with a multitude of audio accessories, making it ideal for users needing to connect helmet audio systems.

The MM20 offers an optional volume control +/- and programmable button. Depending on the chosen radio, the MM20 also comes with an optional emergency button. The MM20 comes in a variety of colour options.

### INDUSTRIES



### OPTIONS



### Technical data

Microphone	Omni directional	Environmental specifications
Sensitivity	-36dB +/- 3dB	Operating temperature -25° C to +60° C
Speaker	40mm Ø Dynamic	Storage temperature -40° C to +85° C
Output power	1W Max 2W	Mechanical specifications
Output level	92dB +/- 3dB	Cable flex life 50,000 cycles
Frequency range	680Hz ~ 20KHz	Cable pull strength Axial 13 kgs
		PTT switch life 100,000 cycles
		Protection rating IP67

# Push-To-Talk Base Units

## MM50 - Remote Speaker Microphone



Volume control +/-  
and microphone mute or  
loudspeaker mute (optional)



Side PTT

3.5 mm audio jack



Emergency button (optional)

2 x programmable buttons (optional)



### THE TITAN REMOTE SPEAKER MICROPHONE

The Titan Remote Speaker Microphone MM50 is the ideal remote speaker microphone for smoke divers and rescue personnel that require large buttons and loud high quality audio. With two large Push-To-Talk buttons, enhanced control buttons, a high performance speaker and IP67 protection rating, the Titan MM50 is a must-have.

The Nexus connector and 3.5mm jack socket enable users to combine the MM50 with a multitude of audio accessories, making it ideal for users needing to connect helmet audio systems.

### INDUSTRIES



### OPTIONS



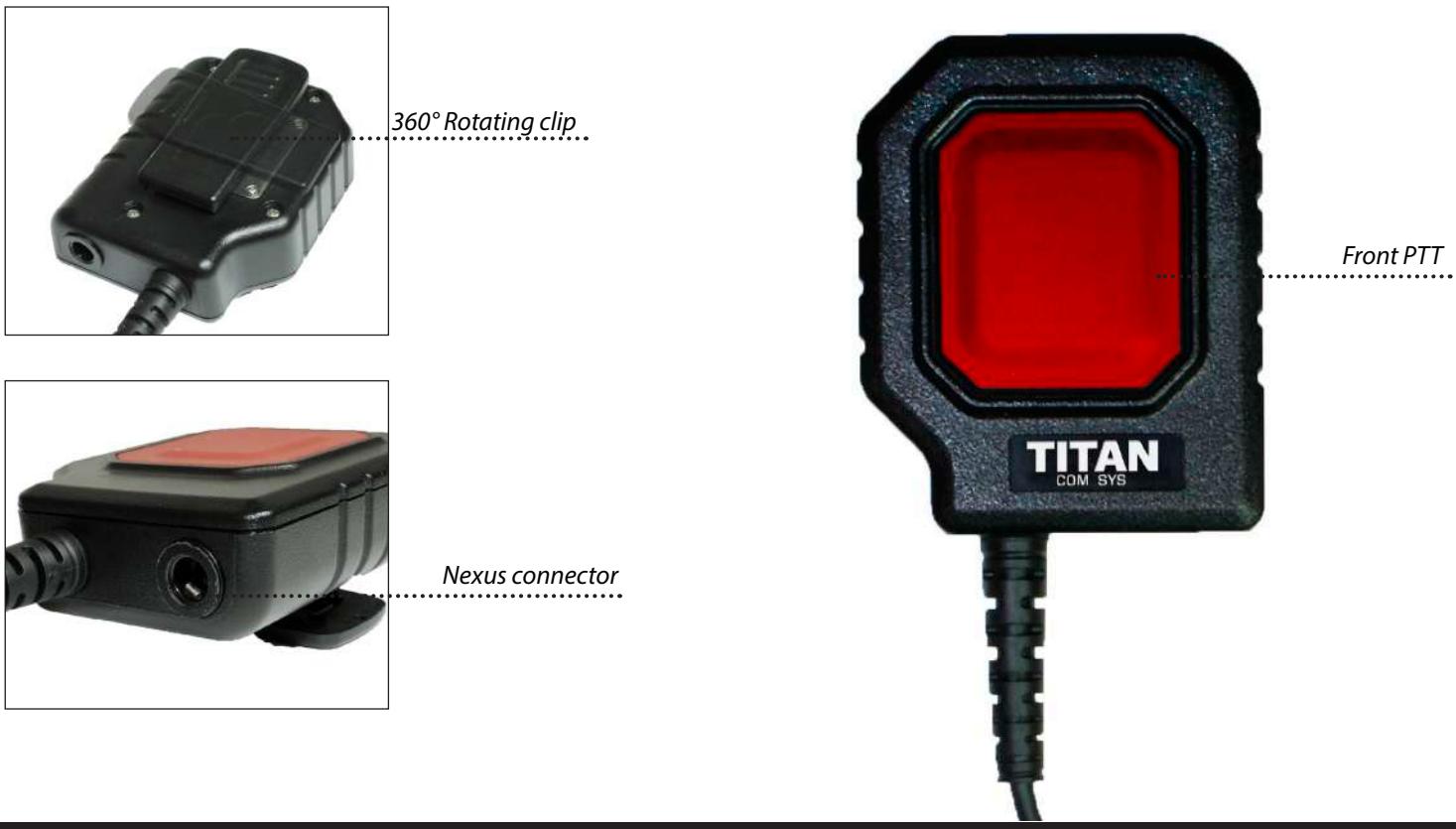
Wireless Finger PTT

### Technical data

Microphone	Omni directional	Environmental specifications
Sensitivity	-42dB +/- 3dB	Operating temperature
Speaker	36mm Ø Dynamic	Storage temperature
Output power	1W Max 1,5W	Mechanical specifications
Output level	91dB +/- 3dB	Cable flex life
Frequency range	580Hz ~ 5KHz	Cable pull strength
		PTT switch life
		Protection rating

# Push-To-Talk Base Units

## PTT20 - Large Body PTT



### THE TITAN LARGE BODY PTT

The Titan Large Body PTT, the PTT20, is a flexible and versatile communication accessory, specially designed for Fire & Rescue services.

The extra large Push to talk button on the front makes it easy to communicate, even underneath gear and protective clothing, while wearing gloves.

Thanks to the nexus connection, you can have a wide range of communication devices to combine with your PTT20.

### INDUSTRIES



### OPTIONS



Various PTT colors

### Technical data

Size	85x70mm	Environmental specifications
Weight	175 g	Operating temperature
Connector	Radio Specific	Storage temperature
Humidity	95% RH, 63°	Mechanical specifications
Supply Voltage	2,5 - 10 vdc	Cable flex life
PTT color options	Red and Black	Cable pull strength
		PTT switch life
		Protection rating



# Helmet Communication Units

## HUC2 - Skull Microphone Headset



Adapter for MSA F1XF Helmet



### The Titan Skull Microphone

The TITAN Skull Microphone provides clear communication in all environments. The Skull Microphone is an ideal accessory for users needing to communicate with co-workers while wearing structural fire helmets.

The Skull Microphone can easily be installed in most helmets with just the use of velcro tape. Both ATEX and NON-ATEX versions available.

The Skull Microphone comes as standard with mono loudspeaker, but stereo loudspeakers are also available.

### INDUSTRIES



### COMPATIBLE HELMETS



MSA Gallet F1XF



Rosenbauer Heros



Draeger HPS6200

### Technical data

Weight	85g	Speaker impedance:	32 Ohm
Size	40x160	Connectors:	4-pole quick-release connector
Cable:	Coiled flame retardant	Operating temperature:	-25 to +85°C (continuous)
Microphone:	Vibration-sensitive, impedance approx. 3500 Ohm @ 1 khz	Storage temperature:	-25 to +65°C
		Humidity:	95% RH, 63°C for 500 hours

# Helmet Communication Units

## HUC2-ST - Dual Speaker Skull Microphone Headset



Adapter for MSA F1XF Helmet



### The Titan Helmet Communication Insert

The Titan Firecomm HUC2-ST Dual Speaker Skull Microphone is a very user-friendly bone conduction headset developed especially for professionals working in harsh and noisy environments. The high quality speakers and advanced vibration sensitive microphone ensure clear and uninterrupted communication, even in settings with severe background noise factors.

The Titan HUC2-ST Skull Microphone provides a comfortable fit and is easily mounted inside most helmet types by means of velcro fasteners or Titan helmet adapters.

### INDUSTRIES



### COMPATIBLE HELMETS



MSA Gallet F1XF



Rosenbauer Heros



Draeger HPS6200

### Technical data

Weight:	110g	Speaker impedance:	16 Ohm
Cable:	Coiled flame retardant	Connectors:	4-pole quick-release connector
Color:	Black	Operating temperature:	-25 to +85°C (continuous)
Microphone:	Vibration-sensitive, impedance approx. 3500 Ohm @ 1 khz	Storage temperature:	-25 to +65°C
		Humidity:	95% RH, 63°C for 500 hours

# Helmet Communication Units

## HUC5 - Helmet Communication Insert



Coiled cable (Optional)



Left or right side (Optional)

### The Titan Helmet Communication Insert

The HUC5 should be a permanent item for your fire and rescue communication setup when wearing a MSA Gallet F1SF or F2 helmet.

This comprehensive communication device can be directly connected to a speaker microphone or a PTT using the Nexus connection.

The HUC5 comes in a stereo, single and listen only version for your helmet and critical communication needs.

### INDUSTRIES



### COMPATIBLE HELMETS



MSA Gallet F1XF



MSA Gallet F1SF



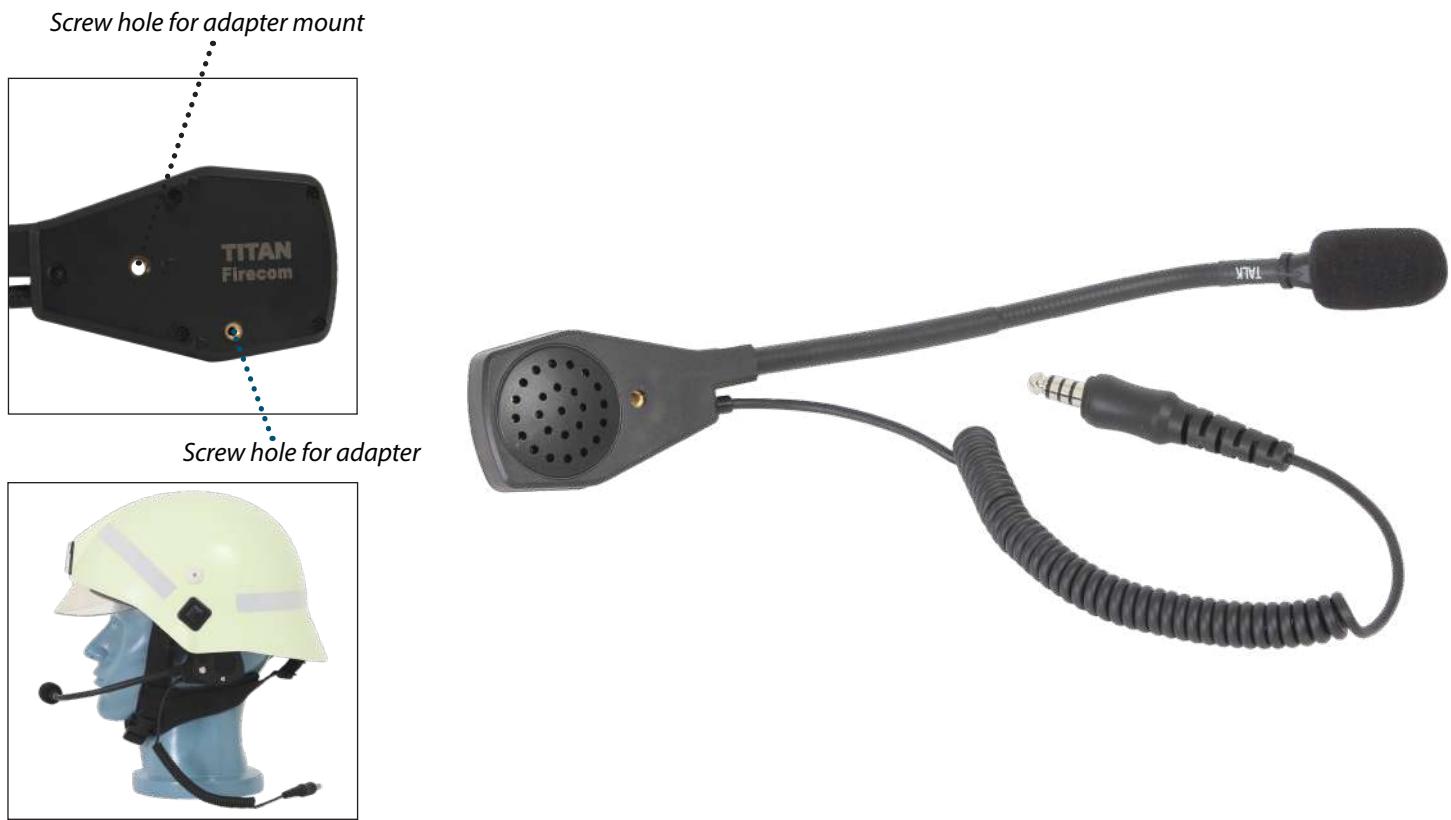
MSA Gallet F2 X-TREM

### Technical data

Loudspeaker specifications	Cable		
Normal size	40mm, 1,5 inch.	Cable length	55cm
Resonant frequency	530 Hz ± 150 Hz at 1 V	Type	Straight or coiled flame retardant ULV.0
Impedance	8 Ohm ± 15% at 1 KHz 1 V	Connector	Nexus TP120 connector
Sound pressure level	Microphone		
Response	Fo Hz ~ 6 KHz max 10 dB	Generating element	Electret condenser
Input power	Nominal 0.5 W - Handling capacity 1.0 W	Sensitivity	-33 to -25dB ref 1 Vms (1KHz and 1PA at 1/4)

# Helmet Communication Units

## HUC6 - Modular Helmet Communication Device



### The Titan Modular Helmet Communication Device

This modular-based communication device delivers clear communication in all environments. The HUC6's special 2-screw design makes it compatible with most protective helmet with just the use of an adapter. Titan offer a variety of adapters that are easily mounted onto the protective helmets and have an uncompromising fit.

This comprehensive communication device can be directly connected to a speaker microphone or a PTT using the Nexus connection.

### INDUSTRIES



### COMPATIBLE HELMETS



MSA Gallet F1SF



Rosenbauer Heros



Draeger HPS6200

### Technical data

Loudspeaker specifications		Cable	
Normal size	40mm, 1,5 inch.	Cable length	55cm
Resonant frequency	530 Hz ± 150 Hz at 1 V	Type	Straight or coiled flame retardant ULV.0
Impedance	8 Ohm ± 15% at 1 KHz 1 V	Connector	Nexus TP120 connector
Sound pressure level	90 dB/w ± 3 dB 0.5 w 50 cm ave at 0.8K, 1K, 1.2K, 1.5K Hz	Microphone	
Response	Fo Hz ~ 6 KHz max 10 dB	Generating element	Electret condenser

# Helmet Communication Units

## HUC7 - Short Boom Microphone Headset



### Short Boom Microphone Headset

The innovative microphone technology used with the Titan Fire-comm HUC7 headset lets users communicate clearly without needing to have the microphone in front of the mouth.

The microphone sensitivity has been adapted so users can transmit clear audio even when wearing masks and in noisy environments. The HUC7 also has a high-performing speaker, a flame retardant coiled cable and comes with a Nexus TP120 connector that fits Titan's portfolio of Remote Speaker Microphones and PTT-units.

### INDUSTRIES



### COMPATIBLE HELMETS



Rosenbauer Heros      Draeger HPS7000

### Technical data

Loudspeaker specifications		Cable	
Normal size	40mm, 1,5 inch.	Type	Coiled flame retardant
Resonant frequency	530 Hz ± 150 Hz at 1 V	Connector	Nexus TP120 connector
Impedance	8 Ohm ± 15% at 1 KHz 1 V	Microphone	
Sound pressure level	90 dB/w ± 3 dB	Type	Omni-directional
Response	Fo Hz ~ 6 KHz max 10 dB	IP-rating	IP67
Input power	Nominal 0.5 W - Handling capacity 1.0 W		

# Tactical Communication Units

## TM - Throat Microphone



### The Titan Throat Microphone

The TITAN Throat Microphone provides clear communication in all environments. The Throat Microphone is an ideal accessory when discretion is needed.

The Throat Microphone comes with an acoustic tube earphone and the throat band is adjustable for a comfortable feel. The solid Nexus connector enables endless communication options.

The Throat Microphone comes in both an ATEX and NON-ATEX version.

### INDUSTRIES



### OPTIONS



ATEX PTT  
Inline

### Technical data

Microphone	Electret Microphone	Headset type	Acoustic Tube Headset
Impedance	32 ohm	Connector	Nexus TP120
IP rating	IP56		
Weight	110 g	Color	Black
Speaker	Piezo		

# Tactical Communication Units

## IE1 - In-Ear Microphone Headset



Behind-the-ear hook and 2 different sizes eartips included



Custom Ear molds (optional)



### The Titan In-Ear Microphone Headset

The TITAN In-Ear Headset with Microphone is the perfect critical communication solution for users in challenging, loud environments that need clear communication 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 In-Ear Headset comes with various foam sizes to ensure optimal comfort when using the headset.

The solid Nexus connector enables endless communication options.

### INDUSTRIES



### OPTIONS



Compatible items

### Technical data

<b>Microphone</b>		<b>Connector</b>	Nexus TP120 / 2.5mm jack / 3.5mm jack
<b>Type</b>	Electret Condenser Microphone		
<b>Output impedance</b>	2.2kΩ	<b>Environmental</b>	
<b>Speaker</b>		<b>IP Rating</b>	Designed to meet IP67
<b>Impedance</b>	DCR: 16Ω ± 15% ACR: 16Ω ± 15% ohm	<b>MIL STD</b>	MIL-STD-810
<b>Max Input Power</b>	5mW	<b>Operating temperature</b>	-20 to +60 degrees C
<b>Passive NRR</b>	31 – 33 dB, ANSI S12.6-2008, Method A	<b>Storage temperature</b>	-33 to +71 degrees C

# Tactical Communication Units

## Waterproof Headband Headset



### The Titan Waterproof Headband Headset

The TITAN Waterproof Headband Headset has a fully sealed loudspeaker and an IP67 waterproof boom microphone making it the perfect choice for users needing to communicate in maritime environments.

The headset has a slick design and fits under most protection helmets or hard hats. Depending on the environment, we offer the Waterproof Headband Headset in combat green or desert tan color.

### INDUSTRIES



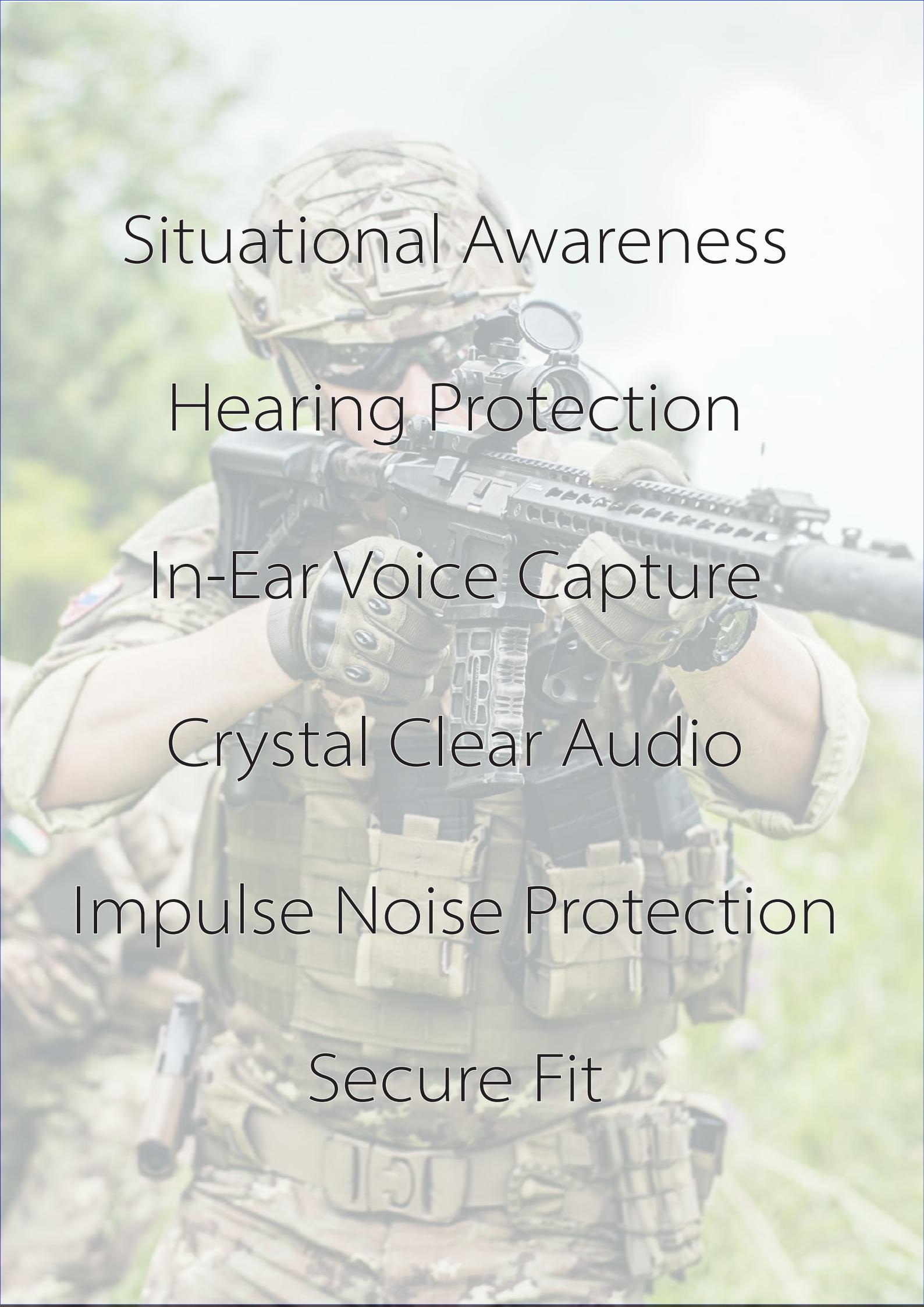
### OPTIONS



*Nexus connector  
(optional)*

### Technical data

Microphone	Omni directional	Environmental specifications
Sensitivity	- 44dB +/- 3dB	Operating temperature -20° C to +50° C
Speaker	45mm Ø Dynamic	Storage temperature -30° C to +60° C
Output power	1W Max 2W	Mechanical specifications
Output level	92dB +/- 3dB	Cable flex life 50,000 cycles
Frequency range	680Hz ~ 20KHz	Cable pull strength Axial 13 kgs
Protection rating	IP67	



Situational Awareness

Hearing Protection

In-Ear Voice Capture

Crystal Clear Audio

Impulse Noise Protection

Secure Fit

# Tactical Communication Units

## IE2-TAC Dual In-Ear Headset with Situational Awareness



Custom Ear molds (optional)



### The Titan Tactical In-Ear Headset

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.

### INDUSTRIES



Comes with 2 different sizes of Comply eartips (Small & Medium)

### Technical data

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

# Tactical Communication Units

## MM50-TAC Remote Speaker Microphone & Control Box



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



*Side PTT*  
*3.5 mm audio jack for earphone accessories*



### The MM50-TAC RSM & Control Box

The MM50-TAC is a state-of-the-art high-tech Remote Speaker Microphone. The MM50-TAC can work independently as an RSM with clear transmitting and receiving audio and added features such as emergency button, volume buttons and large push-to-talk buttons.

When the IE2-TAC headset is connected to the MM50-TAC, the MM50-TAC works as a control box, where you can PTT for transmission and use the mode button to adjust the situational awareness volume.

### INDUSTRIES



### OPTIONS



*Use with IE2-TAC Headset*

### 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

# Tactical Communication Units

## MM50-TAC2 Remote Speaker Microphone & Control Box for 2 radios



### The MM50-TAC2 DUAL RSM & Control Box

The MM50-TAC2 is a state-of-the-art high-tech Remote Speaker Microphone. The MM50-TAC2 can work independently as a RSM, but even better with the IE2-TAC, where situational awareness and hearing protection comes into play.

The MM50-TAC2 is made for users needing to communicate via 2 radios. The PTT buttons are split to handle each individual radio and when using the IE2-TAC headset the receiving audio is split up.

Main Radio = Right Ear

Secondary Radio = Left ear

### INDUSTRIES



### OPTIONS



Use with IE2-TAC Headset

### Technical data

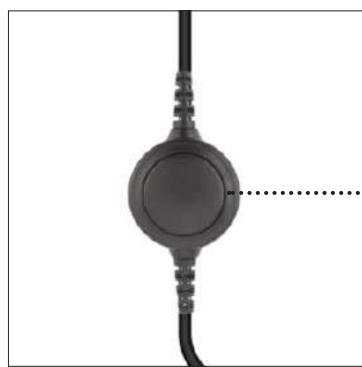
<b>Microphone</b>	Omni directional	<b>Environmental specifications</b>
<b>Sensitivity</b>	-42dB +/- 3dB	<b>Operating temperature</b> -25° C to +60° C
<b>Speaker</b>	36mm Ø Dynamic	<b>Storage temperature</b> -40° C to +85° C
<b>Output power</b>	1W Max 1,5W	<b>Mechanical specifications</b>
<b>Output level</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>Front PTT</b>	Main radio	<b>PTT switch life</b> 100,000 cycles
<b>Side PTT</b>	Secondary radio	<b>Protection rating</b> IP67

# Heavy Duty Communication Units

## HDC-HA - Helmet Attachment Headset



PTT on Shell (Optional)



PTT Inline (Optional)



### Heavy Duty Helmet Attachment Headset

The Titan Helmet Attachment Headset can be fitted onto most safety helmets, providing an ideal solution for people working in hazardous environments.

The Helmet Attachment Headset provides crystal clear communication through a waterproof state of the art noise cancelling microphone.

The very comfortable earmuffs provide an excellent noise reduction of 29,5dB and comes in both ATEX and NON-ATEX versions.

### INDUSTRIES



### OPTIONS



Nexus connector  
(optional)

### Technical data

Microphone	Electret Bidirectional Noise cancelling	Environmental specifications
Microphone protection rating	IP 67	Operating temperature -25° C to +60° C
Sensitivity	15 dB - 1 KHz	Storage temperature -40° C to +85° C
Filter	Internal RFI suppression	Mechanical specifications
Speaker sound pressure level	88 db= - 3 db a 1 mw - 1 khz - 15 cm	Cable flex life 50,000 cycles
SNR Rating	29,5 dB	Cable pull strength Axial 13 kgs
		PTT switch life 100,000 cycles

# Heavy Duty Communication Units

## HDC-HB - Headband Headset



PTT on Shell (Optional)



PTT Inline (Optional)



### Heavy Duty Headband Headset

The Titan Headband Headset is an ideal communication solution for people working in high noise environments such as construction, manufacturing and aviation industry.

The Headband Headset provides crystal clear communication through a waterproof state of the art noise cancelling microphone.

The very comfortable earmuff provide a very high noise reduction of 29,5 dB and comes in both ATEX and NON-ATEX versions.

### INDUSTRIES



### OPTIONS



Nexus connector (optional)

### Technical data

Microphone	Electret Bidirectional Noise cancelling	Environmental specifications
Microphone protection rating	IP 67	Operating temperature -25° C to +60° C
Sensitivity	15 dB - 1 KHz	Storage temperature -40° C to +85° C
Filter	Internal RFI suppression	Mechanical specifications
Speaker sound pressure level	88 db= - 3 db a 1 mw - 1 khz - 15 cm	Cable flex life 50,000 cycles
SNR Rating	29,5 dB	Cable pull strength Axial 13 kgs
		PTT switch life 100,000 cycles

# Heavy Duty Communication Units

## HDC-HV - Helicom Headset



Hi / Low Switch



### Dual Impedance Helicom Headset

The Titan Dual Impedance Helicom Headset provides an ideal solution for search and rescue officers needing to communicate on and off a helicopter.

The dual impedance switch makes sure that the microphone can be used on both helicopters and on the ground using a portable radio and a speaker microphone or PTT-button.

The Titan Helicom Headset comes in a variety of microphone and connector options to suit various environmental demands.

### INDUSTRIES



### OPTIONS



Nexus connector  
(optional)

### Technical data

Microphone	Dynamic Noise cancelling	Environmental specifications
Microphone Polar Pattern	Hypercardioid	Operating temperature
Sensitivity	0,72 mV/Pa = - 83 dBV @ 1μB - 1 kHz	Storage temperature
Filter	Internal RFI suppression	Mechanical specifications
Speaker	Electro dynamic	Cable flex life
Speaker output	88 dB +/- 3 dB @ 1mW/1kHz	Cable pull strength
Speaker Impedance	300 ohms +/- 15 % @ 1 kHz	SNR Rating

# Heavy Duty Communication Units

## MM13 - Heavy Duty Speaker Microphone



3.5mm accessory jack socket



### The Titan Industry Speaker Microphone

The Titan MM13 is our smallest and most slick designed remote speaker microphone for industry and emergency services. The MM13 comes in an ATEX and NON-ATEX version depending on the users' needs.

The MM13 comes with a 3.5mm jack socket, which makes it compatible with most listen-only headsets. Depending on the radio, the MM13 can also be produced with an emergency button on top.

### INDUSTRIES



### OPTIONS



Emergency button  
(optional)

### Technical data

<b>Microphone</b>	Omni directional	<b>Environmental specifications</b>
<b>Sensitivity</b>	- 44dB +/- 3dB	<b>Operating temperature</b> -25° C to +60° C
<b>Speaker</b>	45mm Ø Dynamic	<b>Storage temperature</b> -40° C to +85° C
<b>Output power</b>	1W Max 2W	<b>Mechanical specifications</b>
<b>Output level</b>	92dB +/- 3dB	<b>Cable flex life</b> 50,000 cycles
<b>Frequency range</b>	680Hz ~ 20KHz	<b>Cable pull strength</b> Axial 13 kgs
		<b>PTT switch life</b> 100,000 cycles
		<b>Protection rating</b> IP55

# Heavy Duty Communication Units

## MM15 - Heavy Duty Speaker Microphone



Clothing clip with 360 rotation



### The Titan Heavy Duty Speaker Microphone

The Titan intrinsically safe heavy duty remote speaker microphone MM15 is the ideal solution for users needing to communicate without having to remove their two-way radio from their belt.

The MM15 comes with an emergency button and a 3.5mm jack socket for connecting accessories such as the EX-E1 acoustic tube earphone.

The MM15 comes in both an ATEX and NON-ATEX versions.

### INDUSTRIES



### OPTIONS



Emergency button  
(optional)

### Technical data

Microphone	Omni directional	Environmental specifications
Sensitivity	-44dB +/- 3dB	Operating temperature
Speaker	45mm Ø Dynamic	Storage temperature
Output power	1W Max 2W	Mechanical specifications
Output level	92dB +/- 3dB	Cable flex life
Frequency range	680Hz ~ 20KHz	Cable pull strength
		PTT switch life
		Protection rating

# Heavy Duty Communication Units

## E1 - Acoustic Tube Earphone



### The Titan Listen-Only Acoustic Tube Earpiece

The E1 Acoustic Tube Earpiece is an absolute must-have communication product when discreet communication is required.

The E1 Acoustic Tube comes with a 3.5mm jack, which makes it compatible with all of our speaker microphones.

The E1 Acoustic Tube Earpiece can be supplied in ATEX or NON-ATEX versions. It also comes with a variety of ear tip options.

### INDUSTRIES



### OPTIONS



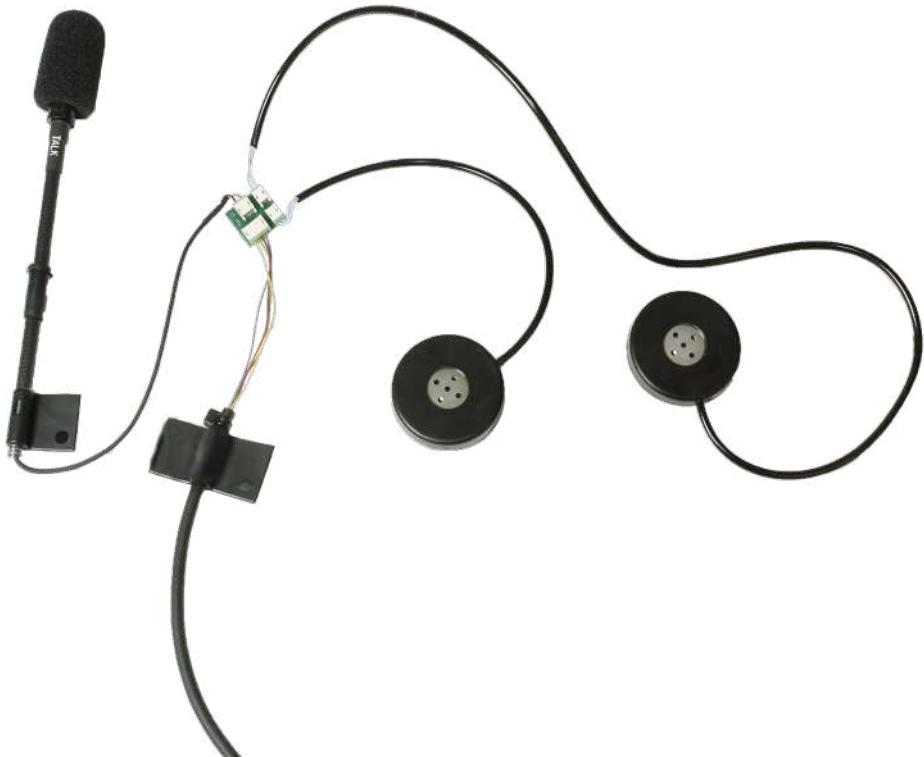
*Various earpiece colors and options*

### Technical data

<b>Acoustic Electret Speaker</b>		<b>Environmental specifications</b>	
<b>Sensitivity</b>	-124 dB	<b>Operating temperature</b>	-25° C to +60° C
<b>Response</b>	100-3000 Hz	<b>Storage temperature</b>	-40° C to +85° C
<b>Power</b>	30 mVA	<b>Mechanical specifications</b>	
<b>Connector</b>	3.5mm jack (standard)	<b>Cable flex life</b>	50,000 cycles
		<b>Cable pull strength</b>	Axial 5 kgs

# Motorcycle Solutions

## MK - Motorcycle Helmet Audio Kits



### Titan Helmet Audio Kits

The Titan helmet audio kits developed with use of high quality parts from speakers to our noise cancelling IP67 boom microphone.

Our modular helmet audio kits lets the customers choose between a variety of speakers to suit the specific need.

The helmet audio kits are compatible with most popular helmets and can be bought for own installation or we can perform the installation for you.

### INDUSTRIES



### COMPATIBLE HELMETS



SHOEI



NOLAN



Schuberth

### Technical data

<b>Microphone</b>	Electret Condenser - Noise Cancelling	<b>Environmental specifications</b>
<b>Sensitivity</b>	-34dB re 1V/Pa or 20mV/Pa (5 Vdc, 10K ohm RL)	<b>Operating temperature</b> -25° C to +55° C
<b>Frequency response:</b>	200 Hz to 10KHz	<b>Storage temperature</b> -40° C to +85° C
<b>Mic Water Protection</b>	IP67	<b>Mechanical specifications</b>
<b>Speaker Impedance</b>	32 ohm +/- 15% at 1V 1KHz	<b>Cable flex life</b> 50,000 cycles
<b>Speaker S.P.L.</b>	83dB +/- 3dB	<b>Cable pull strength</b> Axial 13 kgs
<b>Speaker Distortion</b>	Less than 5% at 1KHz, 0.1W	

# TITAN

COMMUNICATION SYSTEMS



# Motorcycle Solutions

## Wireless Handlebar PTT Communication System

### Titan Portable Wireless Motorcycle System

Our Wireless Push-To-Talk Motorcycle System for Portable radios is the optimum hands-free solution for professional users. With the combination of our MMW20 Remote Speaker Microphone, with an integrated wireless module, and our handlebar PTT connected to our wireless PTT box, the users can communicate easily when on their motorcycle or a foot.

The Handlebar PTT with the wireless PTT Box is fixed mounted to the Motorcycle's battery by wire ensuring instant transmission when the user is on his motorcycle and pressing the Handlebar PTT.

Pairing the Wireless PTT Box with the MMW20 Remote Speaker Microphone is easy and you only have to pair the devices once. Whenever you have been away from the bike, go back on it and the devices will pair automatically.



# Wireless Audio Accessories

## WAG - Wireless Audio Gateway



### The Titan Wireless Audio Gateway

The Titan Wireless Audio Gateway for mobile radios makes wireless communication easy in all environments. The state-of-the-art WAG has two AIRCRYPT modules built in. One module for wireless headset pairing and one module for wireless PTT pairing.

The Titan WAG has a side PTT button, volume control and 2 LED for easy pairing.

The Titan WAG can be paired with all Titan wireless headsets and most consumer headsets.

### INDUSTRIES



### OPTIONS



*Wired Handlebar PTT (Optional)*

### Technical data

Dimensions	94 x 61 x 26mm	Environmental specifications
Weight	90 g	Operating temperature -20° C to +45° C
		Storage temperature -40° C to +65° C
Wireless Module	Aircrypt Dual Module	Mechanical specifications
Module Frequency	2,4 GHz	Cable flex life 50,000 cycles
		Cable pull strength Axial 13 kgs
Protection rating	IP54	PTT switch life 100,000 cycles

# Wireless Audio Accessories

## WM20 - Wireless Speaker Microphone



*Clothing clip. 360° Rotation with positive detent stop every 45°*



*Volume +/- function and loudspeaker mute button when nexus accessories are used*



### The Titan Heavy Duty Speaker Microphone

The Titan WM20 Wireless Remote Speaker Microphone is a versatile audio accessory. The WM20 has a front and side PTT button, which is easy to operate even while wearing gloves. The WM20 also has volume +/- buttons on the side and a mute button. The WM20 features a rugged nexus female socket and a 3.5mm jack socket for headset accessories.

The WM20 is easily paired with the Titan Wireless Audio Gateway and is the ideal solution for users needing to communicate from a distance.

### INDUSTRIES



### OPTIONS

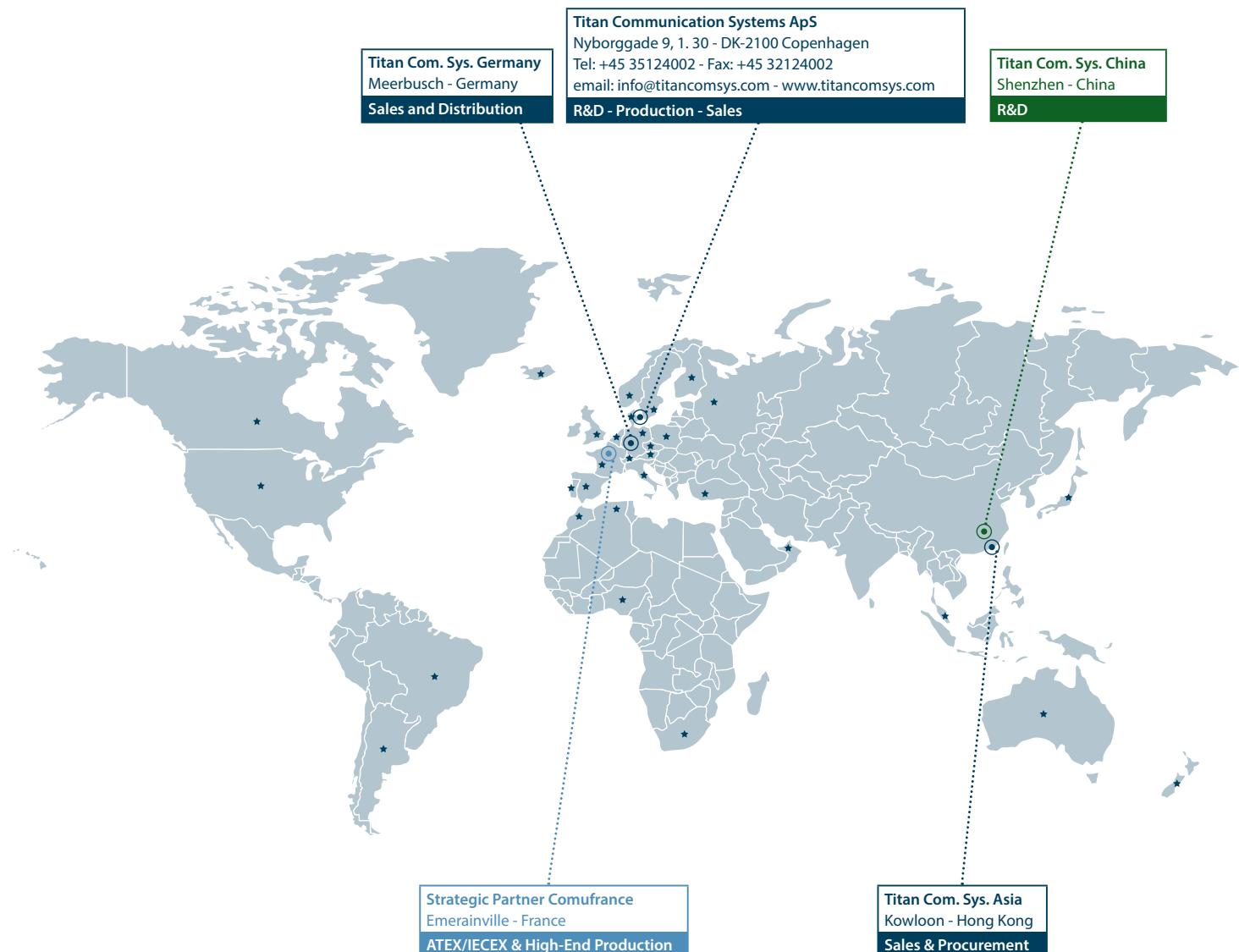


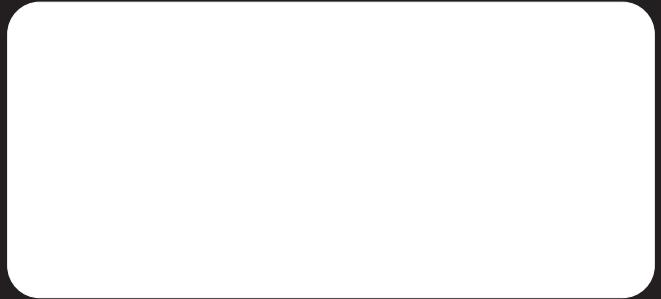
*Wireless PTT (optional)*

### Technical data

Microphone	Omni directional	Battery	Lithium Polymer
Sensitivity	-36dB +/- 3dB	Battery time	10 to 30 hours
Speaker	40mm Ø Dynamic	Module	Aircrypt Module 2.4 Ghz
Output power	1W Max 2W	Range	Up to 300 feet
Output level	92dB +/- 3dB	Mechanical specifications	
Frequency range	680Hz ~ 20KHz	Switch life	100,000+ cycles
Operating temperature	-25° C to +60° C	Protection rating	IP65
Storage temperature	-40° C to +85° C		

# The Titan Team





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**TITAN COMMUNICATION SYSTEMS**

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