



Controlling invisible highways in the sky

Way above our heads is a dynamic network of flights constantly in motion, all kept under meticulous control by ATC professionals. These invisible highways demand a quality of communication in a class of its own.

The dynamic working environment in control towers presents very real challenges. Air Traffic Controllers are in constant contact with a number of aircraft assigned to them and require highly tuned skill sets to ensure accurate navigation instructions 100% of the time. To facilitate these decisions and secure the safety of global air traffic, EPOS delivers a range of premium headsets designed to provide an outstanding communication experience on both sides of the call. With high-quality, noise-cancelling microphones that focus on the nuances of the human voice and filter out unwanted background noise, EPOS keeps ATC professionals performing to the best of their abilities every time.

Build your customized solution at: atc.eposaudio.com

Global Partnerships

ANSP Partners

NATS AirServices - Australia

irveva New Zeland

Airways - New Zeland

LFV
CANI
DSNA-DGAC
FABEC
EuroControl
ATNS
UAE

BULATSA

HungaroControl

IAA

CAD- Hong Kong

MATS LVN SMATSA SERCO

Fraport NAV Canada

ARINC

AVINOR

JCAA - Jamaica

NAV Portugal Skyguide Skeyes

GANS - UAE DHMI - Turkey AAI - India

NASA

VCCS OEM Partners

Indra

ROMATSA

Indra-NAVIA

Rohde & Schwarz/Topex Lockheed-Martin General Dynamics

SAAB

Thales

Northrop Grumman - Park Air

SITTI

Copperchase

Colling Agreema

Collins Aerospace ARINC Compunetix

Raytheon L3Harris

Selex- Leonardo
DRS Technologies

Orion MicroNAV

Entry Point North

e-Sigma UFA

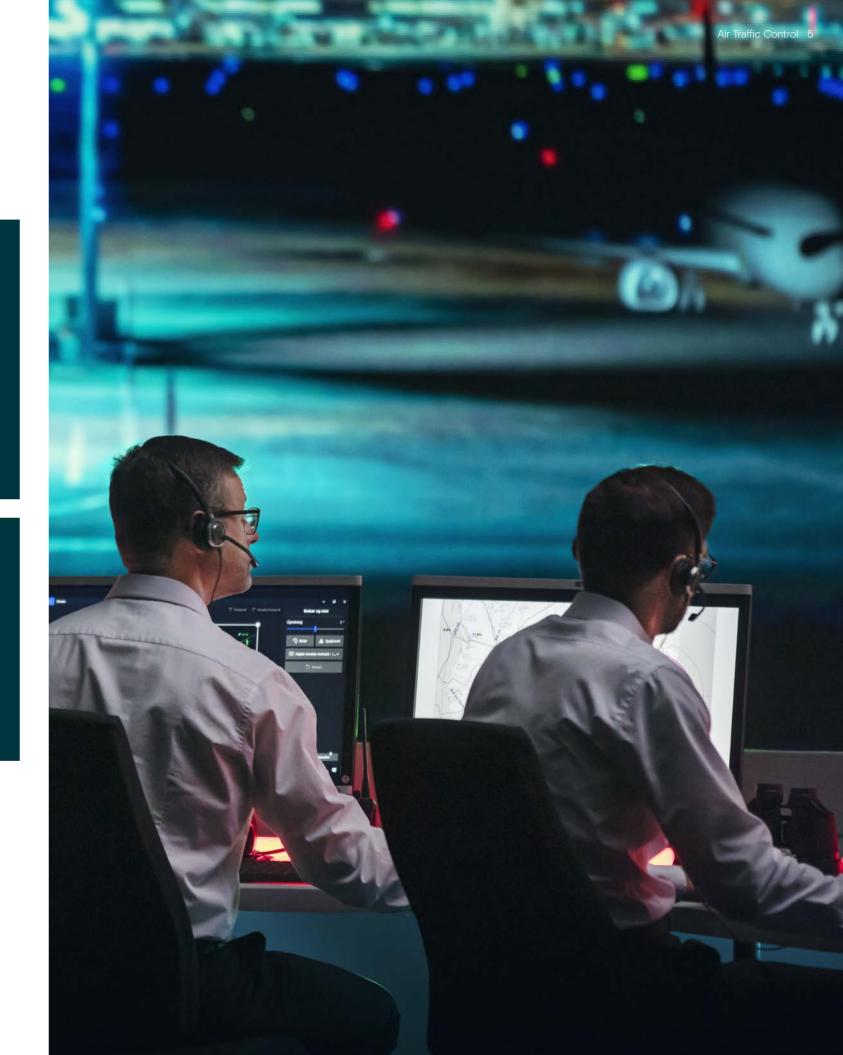
ST Engineering

Leidos

Professional performance

The International Air Traffic Control network is one of the most reliable, successful and safe organizations in the world. The people who are at the core of this system are highly trained professionals on duty in Airport Towers and Air Traffic Control (ATC) Centers every day, making flight safety something that can almost be taken for granted.

EPOS supports the safe performance of these professionals with state-of-the-art communication technology. Our line of COMMAND headsets is lighter than ever and offers a more comfortable fit even during long hours of operation.



COMMAND 46 Series

Focused and in control

Ensure consistent, reliable communication and all-day comfort with a lightweight headset designed to keep you in complete control in demanding sound environments. The noise-cancelling microphone filters out background noise and delivers optimal speech clarity perfect for ATC and C3 use.

Your comfort is prioritized with a patented design for a personalized fit. Stay aware of your surroundings with a flip away headphone for single-sided listening. Customize further with a flexible microphone boom that allows for left or right sided use. Protect your hearing from sudden sound bursts on the line with EPOS ActiveGard® – a unique technology that protects while preventing communication drop-out. With the possibility of multi-channel communication, this headset delivers consistent operational excellence and guarantees your optimal performance.

See more at eposaudio.com/command-hmx46

Key benefits & features

Consistent communication with EPOS Voice™ technology

Voice enhancing technology with a noisecancelling microphone delivers perfect voice transmission and reception for listeners

Exceptional all-day comfort

Extremely lightweight design consists of patented two-piece split headband and soft, acoustic foam ear pads

Supreme compatibility with all ATC and C3 applications

Works for every application with a choice of electret/dynamic microphone, and single-sided or double-sided ear cup model

Multitask with two channel stereo application

Enabling multi-channel communication so you can switch between different calls

Protect your hearing with EPOS ActiveGard®

Guards against acoustic injury caused by sudden tone bursts on the line without risk of communication drop-out





COMMAND 600 Series

Demand clarity and durability

Unleash your potential with a headset that stands up to the daily demands of ATC/C3 working environments. EPOS Voice™ ensures excellent communication with an ultra noise-cancelling microphone – guaranteeing commands come through loud and clear.

The series delivers extreme durability for your reliable performance; its premium quality build, with steel reinforcement at vulnerable speaker joints, ensures a robust solution and the adjustable headband and leatherette ear pads maximize comfort. EPOS ActiveGard® protects your hearing, with no risk of communication drop-out, and you can switch between air and land-based communications as your work requires. With excellent communication clarity and durability, this is an audio solution that lets you take control when it counts.

See more at eposaudio.com/command-sc600

Key benefits & features

Excellent communication with EPOS Voice™ technology

Voice enhancing technology with ultra noisecancelling microphone for excellent voice transmission and reception

Protect your hearing with EPOS ActiveGard®

Guards against acoustic injury without risk of communication drop-out

Benefit from multi-channel communication

With two channel application for air and land-based communication on SC 660 ATC/C3 AG

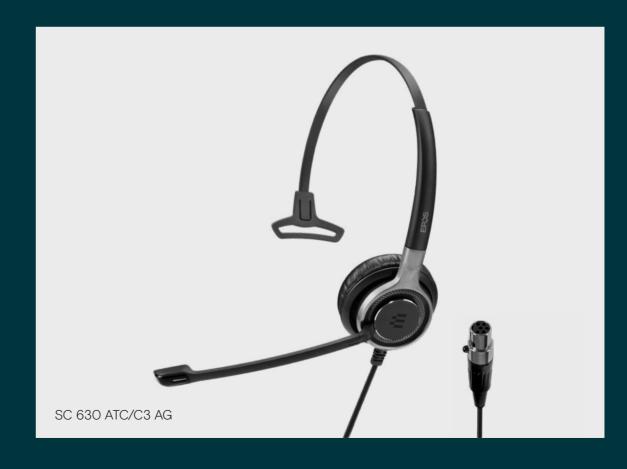
Extreme durability you can rely on

With stainless steel hinge on speaker joints which lasts for the long term

Exceptional comfort throughout your shift

With fully adjustable headband and generous leatherette ear pads made to maximize comfort





COMMAND 200 Series

In control and present

Ensure flawless communication and assertive decisions with absolute call clarity. Meet the challenges of ATC/C3 situations with robust, lightweight headsets – either single or double-sided – for all-day comfort and protection from acoustic injury.

Being heard clearly is guaranteed through EPOS Voice™ technology with a noise-cancelling microphone for perfect voice transmission. The truly premium audio experience of this headset means ATC and C3 operators can perform with reliable excellence. Choose a single-sided headset for situational awareness when surrounding conversations are essential to maintain control. A fully adjustable metal, reinforced headband and soft leatherette ear pads ensure a perfect fit – so you can stay focused on the task at hand.

See more at eposaudio.com/command-sc200

Key benefits & features

Consistent communication with EPOS Voice™ technology

Voice enhancing technology with noisecancelling microphone delivers clear voice transmission and reception for listeners

Protect your hearing with EPOS ActiveGard®

Guards against acoustic injury caused by sudden sound bursts on the line without risk of communication drop-out

Multitask with two channel stereo application

Enabling multi-channel communication when switching between air and land-based calls on SC 260 ATC/C3 AG

All-day comfort and robust build

Made from high-quality materials, the CircleFlex™ dual-hinge ear cup system and adjustable headband create a perfect fit

Choose your wearing style

With a flexible microphone boom arm worn on either the left or right side





COMMAND 27 Series

Take control

Boost concentration in the control room with a comfortable, premium headset that delivers uncompromising communication and situational awareness. The noise-cancelling microphone reduces ambient noise to improve speech intelligibility for your listener. Meaning you can be heard even in noisy, dynamic working environments.

Your focus is further optimized through soft overthe-ear ear cups providing high passive attenuation. Lasting comfort during your shift is guaranteed with a lightweight design and a split two-piece headband that alleviates pressure to the top of the head. Work your way and personalize your headset with a choice of left or right boom microphone positioning. With excellent audio capability, noise dampening and a flip away ear cup on double-sided headsets, you can stay in control of the demanding ATC and C3 environment.

See more at eposaudio.com/command-hmx27

Key benefits & features

Uncompromising communication with Voice Clarity

Voice enhancing technology with noise-canceling microphone delivers excellent voice transmission and reception for listeners

Two channel stereo mode

Makes it possible to use one channel for radio communications and one for telephone communications on dual sided headset

Protect your hearing with ActiveGard®

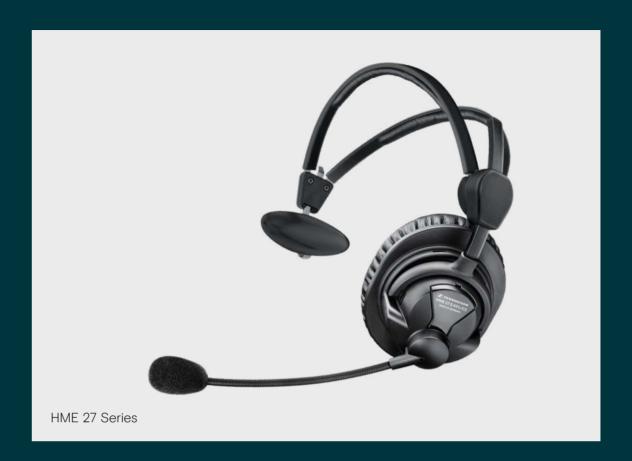
Guards against acoustic injury caused by sudden sound bursts on the line without risk of communication drop-out

Stay aware of your environment on calls

Enjoy single-sided listening with flip away ear cup on double-sided headset

All-day comfort and robust build

Superb wearing comfort with patented two-piece automatic headband and soft circumaural ear pads







COMMAND 110 Series

Stay focused

When the pressure is on in control tower and C3 environments, choose a noise reducing headset with great call clarity to guarantee your performance. Closed ear cups provide excellent passive attenuation in particularly noisy spaces.

A noise-cancelling microphone ensures excellent speech transmission and can be adjusted to fit the requirements of your workplace. The soft ear pads and cushioned headband deliver long-wearing comfort so you can focus on what you do best. For dual communication switch from mono to stereo and enjoy integrated volume control on the head cup. The microphone can easily be repositioned to the left or right side via a flexible boom arm and includes a quick-fix feature for accurate placement. During tough shift work when every command counts, this is a headset that helps you make consistently reliable decisions.

See more at eposaudio.com/command-hme110

Key benefits & features

Clear communication with Voice Clarity

Voice enhancing technology with ultra noise-canceling microphone for excellent voice transmission and reception on calls

Stay focused with noise reduction

Closed ear cups offer passive attenuation up to 40 dB

Control volume easily

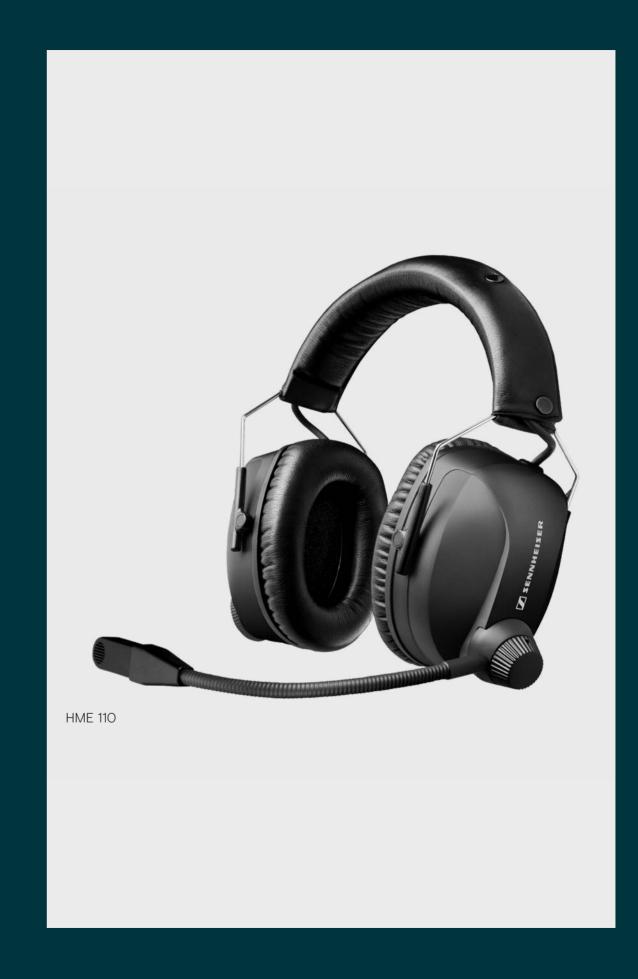
With built in volume control on ear cup that can be disabled if necessary

Choose your wearing style

With a flexible microphone boom arm worn on either the left or right

Dual communication sources

Choose mono or stereo with simple switching between two communication sources



EPOS Voice™ technology



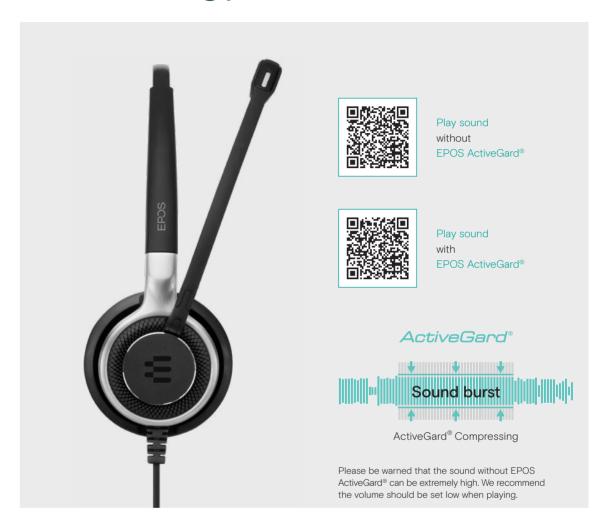
The natural listening experience

For the best possible communication between the Air Traffic controller and the Pilot Cockpit, EPOS Voice™ technology, uniquely enhances the most important frequencies and details of the human voice.

The sound for the Air Traffic controller is crisper and clearer, allowing them to hear the nuances contained in spoken conversation. For the pilot in the cockpit, the Air Traffic

Contoller using a COMMMAND headset with noise-cancelling microphone, hears the clearest voice signal, which maximizes speech intelligibility and significantly reduces "Call Back-Read Backs". In combination, this results in better, more natural sounding communications where no important details are lost and this adds to the safety factor.

EPOS ActiveGard® technology



Hearing protection

During the course of a day, Air Traffic Controllers may be exposed to seldom, but hazardous incoming noises that can be dangerous to hearing. Technically referred to as a sound burst, this can potentially cause long-lasting damage to the human ear. To safeguard users, all COMMAND headsets for Air Traffic Control (ATC) are equipped with innovative EPOS ActiveGard® technology.

Required by EC directive

As long as ATC operators continuously use headsets without EPOS ActiveGard®,

unexpected noise peaks can lead to irreversible consequences, from headaches and tinnitus problems to acoustic shocks or even total hearing loss. For that reason, the current EU directives regarding workplace security prescribe the protection of employees from acoustic shock.

Required by FAA

The Federal Aviation Administration (FAA) also requires using hearing protection for controllers if the noise level is reaches certain limits.

COMMAND PTTs







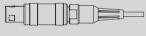


PTT Series	PTT 20 Series	PTT 30 Series	PTT 40 Series	PTT 50 Series
Analogue	•	•	•	•
Mic pre-amp	•	•	•	•
USB				
Mini-XLR socket		•	•	•
PTT lock				•

Connectors

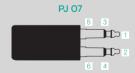
The following connector types are available as a standard configuration. EPOS is able to customize cable assemblies and connector types to customer specification.

7/8/10-pin round plug straight



7/8/10-pin round plug angled









Available on request on different wiring configurations.

For information about connector and cable configurations, see our separate "Cable Guide".

COMMAND

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Accessories

		Art. no.	SC 230 / SC 260 Series	SC 630 / SC 660 Series	HME / HMD 46 Series	HME /HMD 27 Series	HME 110 Series
	Carry Case 05	1000884					-
T T	Nylon carry pouch CB 01	1000786	[·]	[•]	-	-	-
*	Cable clip HZC 08 (for round cable)	1001117	-	-	[•]	[•]	[•]
•	Ear pads, 100 pairs	587972	-	-		-	-
•	HZP 31 SC 200 Leatherette Earpads for SC 200	1000791		-	-	-	-
0	HZP 34 Leather Earpad SC 600 L, 2pcs	1000792	-		-	-	-
	Windshield aussen-100 PCS-RD20 BKE 46 Windscreen 100 pcsw	578855	-	-	[•] / –	[•] / -	-
	Windscreen For HMD series HS	543656	-	-	-/[•]	-/[•]	-
	Spare Mic foam, DW2O/D3O	1000710	[•]	[•]	-	-	-
	MZW45	092804	-	-	-	-	[•]
0	HZH 200 - 50PCS Hygiene pads COMMAND 200/600	502194	-	-		-	-
=	HMS 26-2 Headband padding, 2pcs	550262	-	-			-
	Earpads (1 pair) For HME/D 27	573600	[•]	-	-		-

^[·] Included in the delivery

[·] Available as an accessory

⁻ Not suitable for this headset

Art. no.

Headphone

Transducer

Impedance

Distortion

Microphone Туре

Contact pressure

Transducer principle

Frequency response

Output voltage

Impedance

General

Supply voltage

Weight without cable

Operating temperature

Storage temperature

Connection cable

Length

Connectors

Remarks

Frequency response

Sound pressure evel (SPL)

Headsets overview



HMD 46-3-II 1000250

dynamic, open

supra-aural

20 - 14,000 Hz

300 Ω

95 dB @ 1 kHz, 1mW,

mono

86 dB @ 1 kHz, 1V

< 1 % at 95 dB SPL

(350 - 3,000 Hz)

2.7 N

BMD 46-413

Dynamic microphone,

noise-cancelling

100 - 12,000 Hz

0.5 mV / Pa

200 Ω

N/A

150 g/5.29 oz

-10 °C to +55 °C/

+14 ° F to +131 ° F

-55 °C to +70 °C/

-67° F to +158 °F

EPOS Activegard®



HMD 46-31-II

1000252

dynamic, open

supra-aural

20 - 14,000 Hz

300 Ω

95 dB @ 1 kHz, 1mW,

mono

103 dB @ 1 kHz, 1V

< 1 % at 110 dB SPL

(350 - 3,000 Hz)

2.7 N

BMD 46-413

Dynamic microphone,

noise-cancelling

100 - 12,000 Hz

0.5 mV / Pa

200 Ω

N/A

150 g/5.29 oz

-10 °C to +55 °C/

+14 ° F to +131 ° F

-55 °C to +70 °C/

-67° F to +158 °F



HME 46-3-II

1000249

dynamic, open

supra-aural

20 - 14,000 Hz

300 Ω

95 dB @ 1 kHz, 1mW,

mono

86 dB @ 1 kHz, 1V

< 1 % at 95 dB SPL

(350 - 3,000 Hz)

2.7 N

BKE 46

Electret microphone,

noise-cancelling

100 - 15,000 Hz

17 - 100 mV / Pa

adjustable, 80 mV / Pa,

-2 dB (factory preset),

equivalent to 800 mV

at 114 dB SPL

N/A

8-16 VDC

150 g/5.29 oz

-10 °C to +55 °C/

+14 ° F to +131 ° F

-55 °C to +70 °C/

-67° F to +158 °F

EPOS Activegard®



COMMAND

HME 46-31-II

1000251

dynamic, open

supra-aural

20 - 14,000 Hz

300 Ω

95 dB @ 1 kHz, 1mW,

mono

86 dB @ 1 kHz, 1V

< 1 % at 95 dB SPL

(350 - 3,000 Hz)

2.7 N

BKE 46

Electret microphone,

noise-cancelling

100 - 15,000 Hz

17 - 100 mV / Pa

adjustable, 80 mV / Pa,

-2 dB (factory preset),

equivalent to 800 mV

at 114 dB SPL

N/A

8-16 VDC

150 g/5.29 oz

-10 °C to +55 °C/

+14 ° F to +131 ° F

-55 °C to +70 °C/

-67° F to +158 °F







?	
	COMMAND HME 46-3S-II
	1000248
	dynamic, open

supra-aural

20 - 14,000 Hz

300 Ω

99 dB @ 1 kHz, 1mW,

mono

86 dB @ 1 kHz, 1V

< 1 % at 98 dB SPL

(350 - 3,000 Hz)

3.7 N

BKE 46

Electret microphone,

noise-cancelling

100 - 15,000 Hz

17 - 100 mV / Pa

adjustable, 80 mV / Pa,

-2 dB (factory preset),

equivalent to 800 mV

at 114 dB SPL

N/A

8-16 VDC

110 g/5.29 oz

-10 °C to +55 °C/

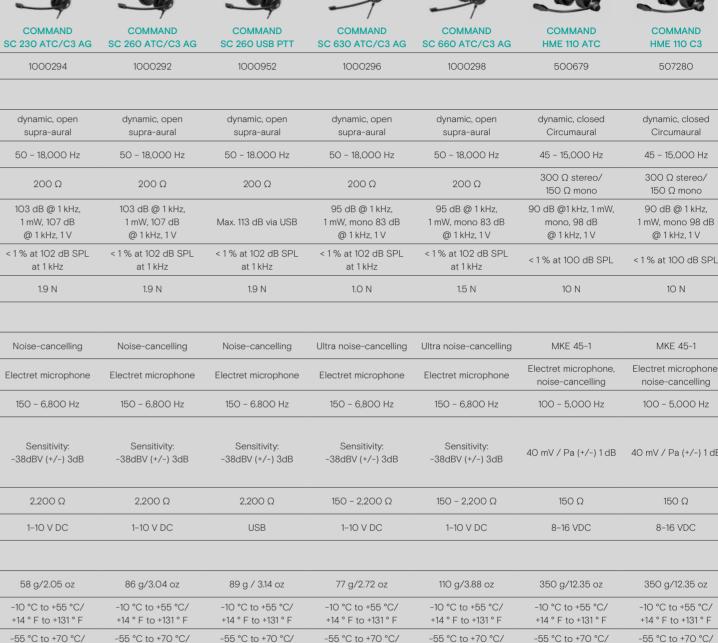
+14 ° F to +131 ° F

-55 °C to +70 °C/

-67° F to +158 °F

EPOS Activegard®





Noise-cancelling	Noise-cancelling	Noise-cancelling	Ultra noise-cancelling	Ultra noise-cancelling	MKE 45-1	MKE 45-1
Electret microphone	Electret microphone	Electret microphone	Electret microphone	Electret microphone	Electret microphone, noise-cancelling	Electret microphone, noise-cancelling
150 - 6,800 Hz	150 - 6,800 Hz	150 - 6.800 Hz	150 - 6,800 Hz	150 - 6,800 Hz	100 - 5,000 Hz	100 - 5,000 Hz
Sensitivity: -38dBV (+/-) 3dB	Sensitivity: -38dBV (+/-) 3dB	Sensitivity: -38dBV (+/-) 3dB	Sensitivity: -38dBV (+/-) 3dB	Sensitivity: -38dBV (+/-) 3dB	40 mV / Pa (+/-) 1 dB	40 mV / Pa (+/-) 1 dB
2,200 Ω	2,200 Ω	2,200 Ω	150 - 2,200 Ω	150 - 2,200 Ω	150 Ω	150 Ω
1-10 V DC	1-10 V DC	USB	1-10 V DC	1-10 V DC	8-16 VDC	8-16 VDC
58 g/2.05 oz	86 g/3.04 oz	89 g / 3.14 oz	77 g/2.72 oz	110 g/3.88 oz	350 g/12.35 oz	350 g/12.35 oz
-10 °C to +55 °C/ +14 ° F to +131 ° F	-10 °C to +55 °C/ +14 ° F to +131 ° F	-10 °C to +55 °C/ +14 ° F to +131 ° F	-10 °C to +55 °C/ +14 ° F to +131 ° F	-10 °C to +55 °C/ +14 ° F to +131 ° F	-10 °C to +55 °C/ +14 ° F to +131 ° F	-10 °C to +55 °C/ +14 ° F to +131 ° F
-55 °C to +70 °C/ -67° F to +158 °F	-55 °C to +70 °C/ -67° F to +158 °F	-55 °C to +70 °C/ -67° F to +158 °F	-55 °C to +70 °C/ -67° F to +158 °F	-55 °C to +70 °C/ -67° F to +158 °F	-55 °C to +70 °C/ -67° F to +158 °F	-55 °C to +70 °C/ -67° F to +158 °F
Straight cable, 2.6 mm with Mini-XLR plug	Straight cable, 2.6 mm with Mini-XLR plug	USB Cable	Straight cable, 2.6 mm with Mini-XLR plug	Straight cable, 2.6 mm with Mini-XLR plug	single-sided, round cable	single-sided, round cable
1.0 m/3.28 ft	1.0 m/3.28 ft	2.4 m/0.94 ft	1.0 m/3.28 ft	1.0 m/3.28 ft	1.5 m/4.92 ft	1.85 m/6.07 ft
Mini-XLR	Mini-XLR*	USB	Mini-XLR	Mini-XLR	5.25 mm jack plug microphone 6.35 mm jack plug headset	open ended
Art. no. 1000291 (without EPOS Activegard®)	Art. no. 1000293 (without EPOS Activegard®)	Certified for Microsoft Teams		Art. no. 1000297 (without EPOS Activegard®)		

^{*} SC 260 ATC/C3 UT with open ended connector available

COMMAND

Headsets overview





507277



508326





508325



507276

ND	187%	COM
C/C3		HMI
)		w. std.
		w. stu.

D 27 HMD 27 ATC/C3 w/o AG . boom

COMMAND HMD 27 ATC/C3 w. 5 ohm Mic

507278

HMD 27 ATC/C3 5 ohm w/o AG

HME 27 S ATC/C3

508327

Η	ea	ıd	p	h	on	e

Art. no.

Headphone						
Transducer	Electret, closed supra-aural	dynamic, closed supra-aural	dynamic, closed supra-aural	dynamic, closed supra-aural	dynamic, closed supra-aural	Electret, closed supra-aural
Frequency response	8 - 18,000 Hz					
Impedance	300 Ω					
Sound pressure evel (SPL)	100 ±3 dB,1V,1kHz 95 ±3 dB,1mW,1kHz	100 ±3 dB, 1V, 1kHz 95 ±3 dB, 1mW, 1kHz				
Distortion	< 1 % at 100 dB SPL					
Contact pressure	3.3 N					

Microphone

Туре	BKE 46	BMD 46-413	BMD 46-413	BMD 46-413	BMD 46-413	BKE 46
Transducer principle	Electret microphone, noise-cancelling	Dynamic microphone, noise-cancelling	Dynamic microphone, noise-cancelling	Dynamic microphone, noise-cancelling	Dynamic microphone, noise-cancelling	Electret microphone, noise-cancelling
Frequency response	100 - 6,000 Hz	100 - 12,000 Hz	100 - 12,000 Hz	100 - 12,000 Hz	100 - 12,000 Hz	100 - 6,000 Hz
Output voltage	adjustable from 17 - 100 mV/Pa	0.5 mV/Pa @ 1 kHz	0.5 mV/Pa @ 1 kHz	0.12 mV/Pa @ 1 kHz	0.12 mV/Pa @ 1 kHz	adjustable from 17 - 100 mV/Pa
Impedance	2.2 Κ Ω+	200 Ω	200 Ω	5 Ω	5 Ω	2.2 Κ Ω
Supply voltage	8-16 VDC	N/A	N/A	N/A	N/A	8-16 VDC

General

Weight without cable	240 g / 8.47 oz	170 g / 6.00 oz				
Operating temperature	-10 °C to +55 °C/ +14 °F to +131 °F	-10 °C to +55 °C/ +14 °F to +131 °F	-10 °C to +55 °C/ +14 °F to +131 °F	-10 °C to +55 °C/ +14 °F to +131 °F	-10 °C to +55 °C/ +14 °F to +131 °F	-10 °C to +55 °C/ +14 °F to +131 °F
Storage temperature	-55 °C to +70 °C/ -67 °F to +158 °F	-55 °C to +70 °C/ -67 °F to +158 °F	-55 °C to +70 °C/ -67 °F to +158 °F	-55 °C to +70 °C/ -67 °F to +158 °F	-55 °C to +70 °C/ -67 °F to +158 °F	-55 °C to +70 °C/ -67 °F to +158 °F
Connection cable	-	-	-		-	-
Length	-	-	-		-	-
Connectors	-	-	-		-	-

Cables and PTTs

overview

	Cable-III-6	Cable-H-6 with system plug	PTT 40 Straight	PTT 40 TCDM6BCH6	PTT 42 XLRTC6BCH6	PTT 30 L
Art. no.	1001068	502533	1000360	1000312	1000365	1000370
Connection cable	straight cable	coiled cable	straight cable	coiled cable	straight cable	straight cable
Length	1.85 m/6.07 ft	3.00 m/9.84 ft	customizable	1.80 m/6 ft	1 m /3 ft	1.80 m/6 ft
PTT	-	-	PTT 40 series	PTT 40	PTT 42	PTT 30 series
Connectors	open ended	open ended	open ended	10p straight round plug	open ended	10p straight round plug

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	CABLE-PTT-L	PTT 32 C6	PTT 22-N, 10ft
Art. no.	500845	1000373	1000403
Connection cable	straight cable	coiled cable	coiled cable
Length	1.85 m/ 6.07 ft	1.85 m/6.07 ft	3.00 m/9.84 ft
PTT	PTT 30 series	PTT 32	PTT 22
Connectors	10p straight round plug 3S.310.CLA 252A	open ended	open ended

	PTT 20-L, cable H10	PTT 22-N, 1.8m
Art. no.	1000396	1000405
Connection cable	coiled cable	round cable
Length	3.00 m/9.84 ft	1.80 m/5.91 ft
PTT	PTT 20	PTT 22
Connectors	open ended	open ended

In addition to our standard cable/PPT offerings, we can offer customised solutions to meet any system scenarios, with any type of connector, cable, PTT combination that is required for any type of VCCS or high performance VHF and UHF Radio system.



Service and Support

We've got you covered

Warranty/Repairs

All COMMAND headsets are covered by a standard two year international warranty. After the warranty period, we can offer flat rate repairs or an annual maintenance contract, or a combination of the two. Standard turnaround time is five working days on most repairs (this may vary by geographic location). All headset repairs include cleaning of the headset, refreshing of ear pads and a complete operational check before being returned to the customer.

Support

EPOS Support aims at providing a premium customer experience to all customers, throughout the world. Support is provided by phone, e-mail, ticket and live chat (UK only) and is available during European and UK normal working hours.

Special requirements

The EPOS COMMAND team offers specially made customer solutions such as customized connectors and cables. Furthermore, we continuously develop our products to meet the special requirements of air traffic control operations worldwide.

See more at eposaudio.com/command

THE POWER OF AUDIO



EPOS Group A/S Industriparken 27 2750 Ballerup, Denmark eposaudio.com