

# Custom and Generic Nanocomm Earmoulds

## EzeFit and Custom Ear-moulds for Nanocomm

### Nanocomm Headsets: Comfortable, Secure, and Customizable

Nanocomm headsets are designed for comfort and ease of use. Instead of using bulky headbands or clips like many traditional headsets, Nanocomm units "plug" directly into your ears using either **Ezefit generic moulds** or **Custom earmoulds**.

Both types of moulds—Ezefit and Custom—feature an attachment clip that connects to the Nanocomm transducers (speakers).

By default, your headset comes with **Ezefit moulds**, allowing you to start using it right away. However, for **optimal comfort, best fit, and superior noise isolation**, we strongly recommend upgrading to **Custom earmoulds**.

### Custom Earmould Options:

#### 1. **Standard Custom Moulds**

- Provide hearing protection from external noise.
- *Note:* They do **not** limit sound levels from the Nanocomm speakers themselves.

#### 2. **Protect Hear Moulds**

- Offer protection from both external noise and high volume output from connected electronics or intercom systems.
- Can also be used independently as an alternative to ear-defenders in noisy environments.

Both types are made from **hypo-allergenic, medical-grade soft silicone** (shore hardness 25), ensuring long-lasting comfort and safety.

## Terminology Guide

### Custom Earmoulds

Individually moulded to fit your unique ear shape, these offer:

- Maximum comfort
- Superior noise isolation
- The most secure attachment for transducers and boom microphones

### Generic Earmoulds – Ezefit Moulds

A cost-effective alternative to custom earmoulds.

- Supplied in a kit with multiple sizes to fit a range of ear shapes
- Ideal for short-term use and product evaluation
- Not intended for extended wear or noisy environments

### Hearing Protection Options

Certain custom earmoulds can be manufactured to comply with BS EN 352-2:1993, providing certified protection against external noise.

However, when using communications equipment, it's also essential to protect against excessive sound from connected electronics (e.g., intercoms or headsets). This is where ProtecHear technology comes in.

### Standard Custom Earmoulds

- Provide passive hearing protection from external noise
- Do not limit sound levels from the headset or connected devices
- Not compliant with BS EN 352-2:1993

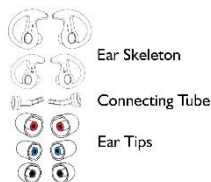
### Protect Hear Earmoulds

- Incorporate ProtecHear technology, which limits audio output from connected electronics to safe levels
- Provide protection from both external noise and device-generated sound
- Passive design – no batteries or charging required
- Fully compliant with BS EN 352-2:1993
- *See page 4 for more details*

## Fitting the EzeFit Moulds

### Sizing & Setup Guide

Getting the right fit for your **EzeFit parts** is a **one-time process** that takes about **15 minutes**. Once you've found the correct combination, your headset will be **comfortable, quick, and easy to use every time**.



### Sizing: Everyone's Ears Are Different

You'll be surprised how much ear shapes can vary — not just between people, but even between your **left and right ears**. Both **outer ear shape** and **ear canal size** differ widely. To help accommodate this, your **EzeFit Kit includes**:

- **2 sizes of Ear Skeletons** (fit the outer ear)
- **3 sizes of Ear Tips** (fit the ear canal)

Need a different size? **Even smaller and larger parts** are available — just contact us at **sales@wildtalk.com**.



### Fitting Instructions

#### 1. Fit the Ear Skeleton

- Identify **left and right** versions.
- Using a **mirror or assistance**, try each to find the best match for each ear.
- *Tip:* Your left and right ears may need different sizes.

#### 2. Attach the Connecting Tube

- Insert the **angled tube** into the Ear Skeleton.
- Angle it so it lines up with your **ear canal direction**.

#### 3. Choose and Fit the Ear Tip

- Start with one of the **smaller ear tips**.
- Slide it onto the connecting tube.
- Insert the full assembly into your ear.

A proper fit will:

- Sit comfortably **without pressure**
  - **Block out external noise** effectively
- If it doesn't, try the **next larger tip size**.

### Need Help?

If you're unable to get a good fit, we're here to help.

✉ Email us at: **sales@wildtalk.com**

## Why Choose Custom Ear-Moulds?

**Custom ear-moulds** provide the **highest levels of comfort and hearing protection** available. Individually moulded to the unique shape of your ear canal, they ensure a **perfect, secure fit** every time.

Unlike Ezefit kits, custom moulds also **hold the Nanocomm boom mic more securely and rigidly**, ensuring consistent mic positioning—even during active use.



### Comfort Meets Protection

Made from **soft medical-grade silicone**, custom moulds sit **inside the ear canal**, blocking harmful noise while remaining comfortable for long periods of use. They're designed to:

- Fit snugly and securely
- Allow natural airflow in the outer ear for **cooling**, making them ideal in **hot environments**
- Deliver **excellent isolation** from ambient noise

### Dual Protection: External & Electronic Noise

Custom moulds don't just protect against external noise. With modern communication systems (radios, intercoms, etc.), you're also exposed to **potentially high audio levels** from connected devices.

For complete protection, custom moulds can be fitted with **ProtectHear technology**, which:

- **Limits sound levels** from your communication equipment to safe thresholds
- Provides **passive protection**—no batteries or charging required
- Ensures compliance with **BS EN 352-2:1993** safety standards



## ProtectHear™ Custom Earmoulds – Advanced Hearing Protection

ProtectHear™ earmoulds offer high-performance hearing protection for use with or without Nanocomm headsets. They are ideal for environments where both external noise and sound from connected devices (e.g. headsets, radios, intercoms) need to be safely managed.



### Key Benefits

- 29 dB SNR reduction of external ambient noise
- Integrated ProtectHear™ insert to limit sound from headset monitors/transducers
- Provides 29 dB SNR attenuation of headset (transducer) output
- Complies with EN 352-2:1993 hearing protection standards
- Can be used independently from Nanocomm as industrial hearing protection

### What Is ProtectHear™?

ProtectHear™ is a passive acoustic noise limiter built into custom earmoulds.

- A precisely engineered acoustic filter (inverted cone shape) sits inside a vented channel in the earmould
- This filter allows safe sound levels (e.g. speech, alarms, radios) to pass through, while attenuating hazardous industrial noise
- Vented rating: 29 dB SNR

### Dual Use

- Easily detached from Nanocomm systems
- Can be used in place of foam earplugs or traditional ear-defenders

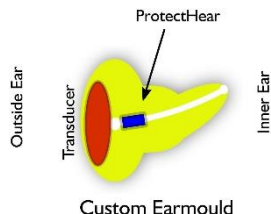
*Note: ProtectHear™ earmoulds are not suitable for music applications, as they modify the noise bandwidth. For music clarity, standard earmoulds are recommended.*

### ProtectHear™ Advantages

- 5-year lifespan for long-term value
- Do not overprotect – still allows clear perception of speech, warnings, alarms, and vehicles
- Easy to clean and maintain

### Features

- Made from hypo-allergenic, medical-grade silicone
- Toxicologically inert – safe for extended use
- CE-marked and tested to EN 352-2:1993
- Metal-detectable option available for food or cleanroom industries



## The Ordering Process

1. Buy the Nanocomm of your choice. This will be supplied with the Ezefit kit so you can start using the Nanocomm immediately. (If you don't want the Ezefit kit please get in touch before ordering).
2. Take yourself to have some Impressions made.
3. Post or email the Impressions to Wildtalk - [sales@wildtalk.com](mailto:sales@wildtalk.com) or 35 Hospital Fields Rd, York YO10 4DZ. UK
4. We will let you know we have received them and get in touch for payment for the Custom moulds.
5. We then send the impressions to the Mould factory to be made into a set of custom moulds.
6. Once made (up to 14 days) and we will ship them to you.

## Ordering Custom Moulds

Having custom ear-moulds made is a two-step process;

### Step 1. Impressions.

Contact your local hearing aid supplier and ask for an appointment for them to make a pair of ear Impressions. Often large chemists and opticians may provide this service as well.

Impressions are taken of your ears using a silicon material which is gently injected into your outer ears. When you have them taken be sure to mention that they are for a boom Mic earpiece so that they are taken to a sufficient depth to be secure.

It is important you tell the impression technician that the moulds are used to fix a boom mic to your ear, because of this they need to ensure the impressions are made reasonably deep into your ear canal.

After the Impressions have been taken you will be given the physical copies. **Some suppliers will be able to give you a digital copy which is preferable.** Once taken, get in touch with wildtalk and we will tell you where to send them to have them made into custom moulds.

### Step 2. Custom Moulds.

Once we have received the Impressions we will then send them to a specialist audiology company for manufacture into soft silicone ear-moulds to fit your Nanocomm. The factory will also then digitise the Impressions so more moulds can be made in future.

This part of the process can take a couple of weeks. Once manufactured we will then ship the Custom Moulds back to you so you can just clip them on to your Nanocomm headset.

There are three custom earmould options.

1. Solid Earmoulds for hearing protection only. Not for use with Nanocomm.
2. Nanocomm ProtectHear Moulds certified, CE Marked and Tested to EN 352-2: 1993.
3. Nanocomm Moulds without ProtectHear. Also ideal for music monitors.
4. Aviation Earmould kit for Nanocomm which is a pair of each 2 and 3. This is the standard kit we supply for aviation applications as it allows the headset to be used in a wide variety of aircraft.