

DI Series

Industrial filters with extra high frequency protection

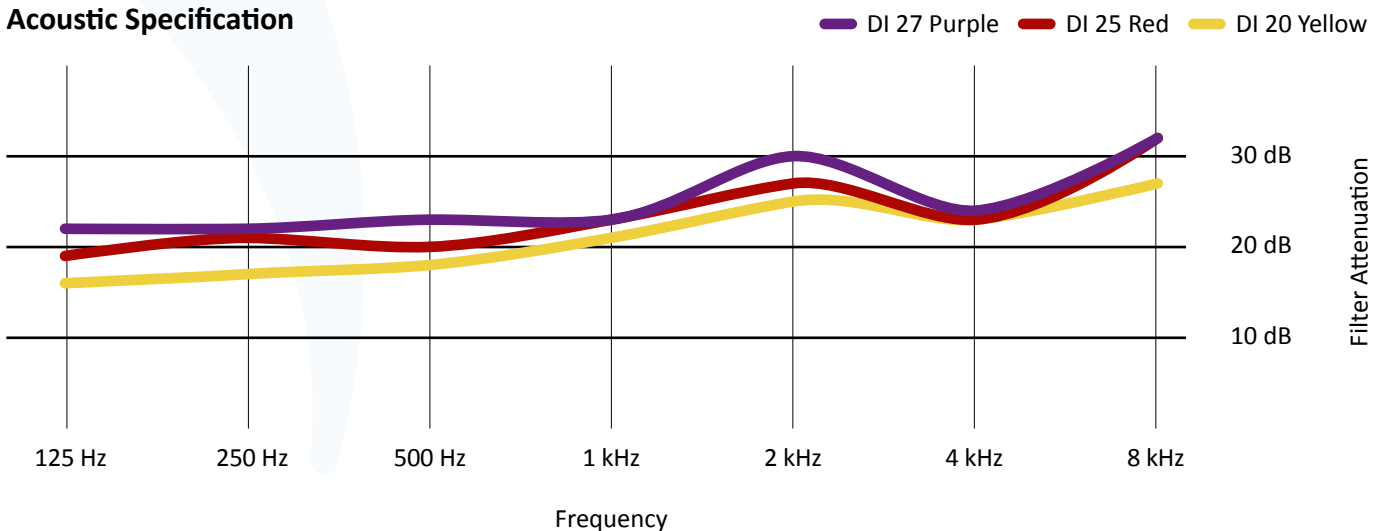
The DI filter series has been designed specifically for industrial applications. Commonly available industrial earplugs have a tendency to provide too much attenuation on where it's not required, this is due to the use of cheap materials and lack of acoustic design. The resulting response gives muffled speech and sounds.

Industrial noises have a tendency to be louder at higher frequencies; DEC's range of DI filters have been designed to provide relatively flat attenuation to remove low frequency noise and to aid communication, then a progressive attenuation increase at approximately 4kHz to remove damaging high frequency sounds. DI Filter ensures the user has air constantly flowing into the ear, this ventilation minimises the occlusion effect and avoids irritation within the ear canal, maximising the user's comfort.




DI filters are also available with the option of being metal detectable, X ray visible for use in environments such as food processing and pharmaceutical manufacturing where foreign object contamination is unacceptable.

The DI acoustic filter range has been developed for use in both custom earmoulds (soft or hard) and universal earplugs. The DI filter is fully interchangeable with the DM- and DR filter series and DS earphones from the Dynamic Ear Company.

Acoustic Specification



Acoustic specification

DI Series	H	M	L	SNR	NRR
 DI 27 Purple	26	23	23	26	17
 DI 25 Red	23	22	21	24	16
 DI 20 Yellow	22	20	18	22	14

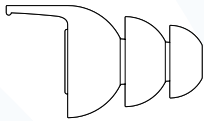
Attenuation is calculated according to CE norm EN-352-2 by ISO 4869.2 for high (H), medium (M), low (L) frequency level and as the single number rating (SNR). NRR is calculated according to standard ANSI S3.19-1974. Filters certified in custom earmoulds may achieve different attenuation values depending on the fit and/or the shape of the acoustic canal.

Ear tip colours

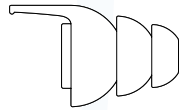


Black, White, Clear Transparent, Grey Transparent, Blue Transparent, Brown, Pink, Orange, Yellow, Green

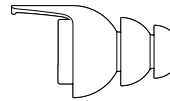
Ear tip dimensions



X-Large \varnothing 14,8 mm
scale 1:1



Large \varnothing 13,7 mm
scale 1:1



Medium \varnothing 12,2 mm
scale 1:1



Small \varnothing 10,7 mm
scale 1:1

Filter dimensions



\varnothing 6,5 x 3,5 mm
scale 3:1