

TECHNICAL SPECIFICATIONS

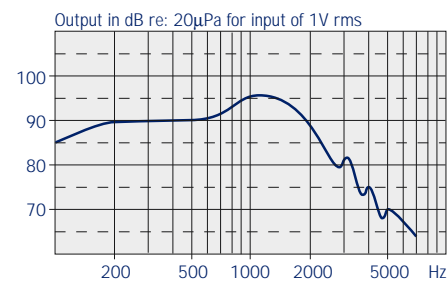
ELECTRO-ACOUSTIC DATA

Earphone and microphone measurements are made as described in publication no. 9022.

Earphones

Transducer type: dynamic rocking armature
Impedance at plug: 300ohms \pm 10% at 1kHz (two 600ohm wired in parallel)
Overload: 3dB max change in sensitivity relative to the original response curve after 8 hours with 100mW drive at 1kHz
Power rating: 100mW
Sensitivity (nominal): 94dB SPL/mW at 1kHz (measured on the headset earshell using a B&K4153 artificial ear with flat plate coupler).

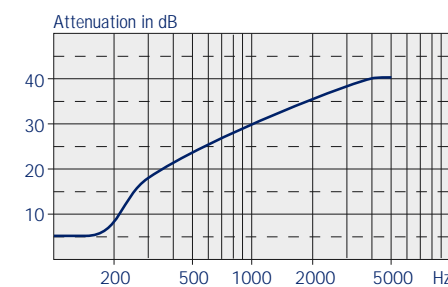
Frequency response (in the earshell):



Total harmonic distortion (THD): <5% at 1kHz (drive=1mW) Headset measured using a B&K4153 artificial ear with flat plate coupler
Intelligibility: speech transmission index STI>0.7

Earshells

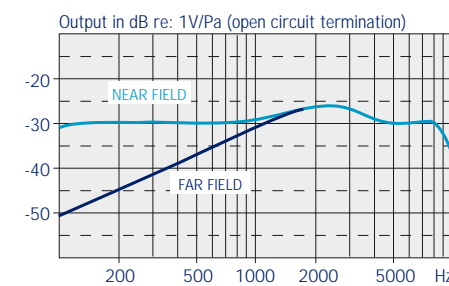
Semi-subjective attenuation of earshells: measured in accordance with MIL-STD-912



Microphone + Interface Amplifier

Transducer part no: RA1150/1002
Transducer type: noise cancelling electret
Impedance: 1k2ohms \pm 10%
Noise cancellation: 18dB at 100Hz, >8dB at 500Hz, 0dB at 1kHz
Sensitivity (nominal): -30dB re 1V/Pa at 1kHz (3V via 4k7ohms)
Sensitivity (with Interface Amp): -30dB re 1V/Pa at 1kHz (10V via 200ohms)
Current consumption: typically 22mA (10V via 200ohms)
Total harmonic distortion: <5% for an acoustic input of 104dB SPL, 200Hz to 3.5kHz
External field susceptibility: no adverse effect (HF and VHF)
Linearity: better than \pm 3dB from 74dB SPL to 114dB SPL at 1kHz
Intelligibility: speech transmission index STI>0.7

Frequency response:



PHYSICAL DATA

Environmental

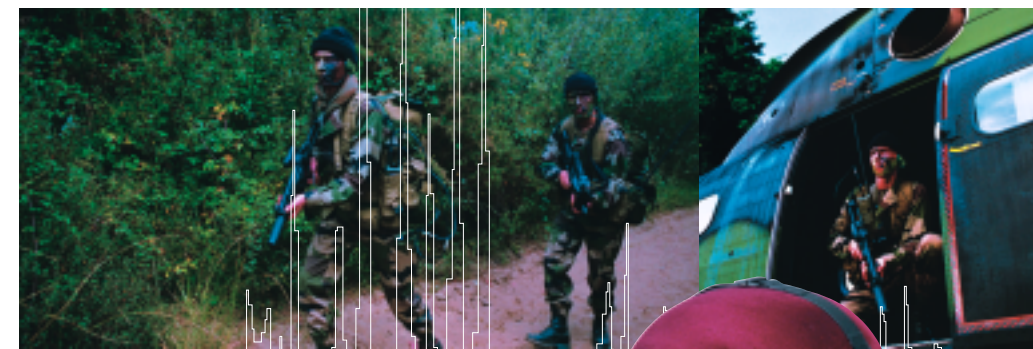
Designed to meet the requirements of Defence Specification DEF 133, Grade L3 ground equipment for ambient ranges of:-
Storage temperature: -40°C to +70°C
Usage temperature: -30°C to +55°C
Humidity range: Up to 95% RH

Materials & Colour

Material: ABS
Colour: drab olive green

Authorised Distributor

The Thales Acoustics policy is one of continuous development and consequently the equipment may vary from the description and specification in this publication.



SLIMGARD
 INFANTRY HEADSET (ETT110-ATA)

- > Compatible with infantry helmets
- > Compatible with shoulder fire weapons
- > Simple to maintain and use
- > Choice of configurations, VOX option
- > Suits all PR4G and System 3000 radios

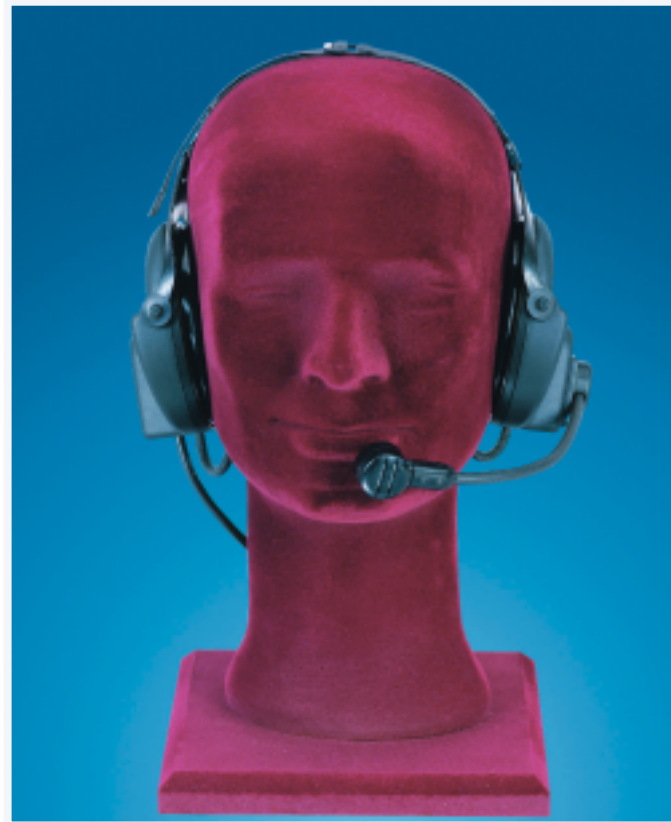
THALES

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ETT110-ATA SLIMGARD HEADSET



The Slimgard has been designed specifically for use by the infantry. These headsets provide clear speech and are compatible with a wide range of equipment and shoulder-fired weapons.

Applications

With the ever increasing emphasis on mobility and reliability for communications in the battlefield, an important requirement exists for a lightweight, noise-excluding headset, compatible with standard infantry helmets.

The ETT110-ATA Slimgard Headset is primarily designed to fulfill this requirement, giving the infantry radio operator a comfortable and reliable interface with the manpack or vehicle radio. The headset will not impede the use of most types of respirators, shoulder-fired weapons or optical devices. Slimgard has also found favour as a general purpose noise-excluding headset with industrial and aviation applications, where reliability and the user's comfort are prime considerations.



The Slimgard headset is suitable for use in armoured fighting vehicles and helicopters by both the crew and passengers, and provides moderate hearing protection in these noisy areas.



Slimgard is also suitable for use by dismounted infantry, using all types of manpack and pouch radios.

PRODUCT DESCRIPTION

Headset Description

The weight saving design of the ETT110-ATA Slimgard headset makes it very comfortable, while still providing protection from noise-induced hearing damage. This is achieved through the use of modern materials in a compact functional design.

Two slim, noise-attenuating earshells, moulded in high impact ABS, are mounted on an adjustable sprung neckband. The detail design of the earshells ensures compatibility with a wide range of close-fitting helmet types. The earshells are fitted with tough polyurethane covered earpads for maximum noise attenuation, and the neckband is provided with a comfortable cover which protects the neckband cable.

A soft, adjustable, overhead strap, which supports the headset in use, is normally worn under the helmet and

ensures stability on the head. In certain circumstances, (e.g. for infantry in personnel carriers), rapid fitting and removal of the headset is an important operational demand, and the headset may form part of the vehicle equipment. In these cases, an alternative over-helmet, quick release strap allows rapid dismounting from the vehicle, leaving the headset behind. This option can be available as required.

The fully adjustable, flexible boom arm is fitted with an electret differential microphone which allows clear speech, even in noisy environments. The switch box with clothing clip, mounted on the cable, contains the amplifier board. Transmission is performed by pressing a momentary PTT switch located on the box. For hands-free transmission (in addition to manual PTT) a **VOX version is also**

available, against reference ETT110-TA.

The modular design of the Slimgard permits reconfiguration of the headset in the workshop during its service life, and considerably simplifies maintenance. No routine maintenance is required, but essential repairs can be carried out quickly with minimum skills and without special tools.



ETT110-ATA Slimgard Headset with Manual PTT Switch