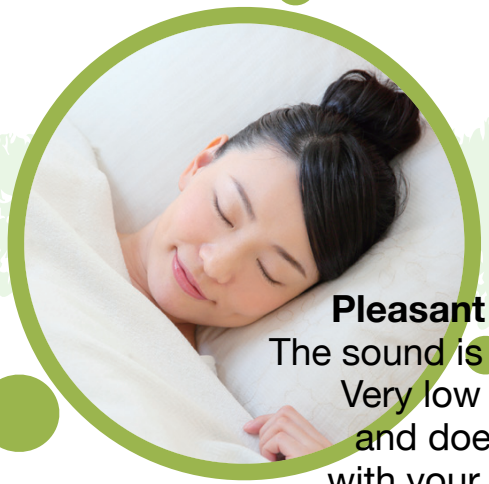
pillowspeaker

ピロースピーカー

Updated
July 2020
More advanced speaker drivers

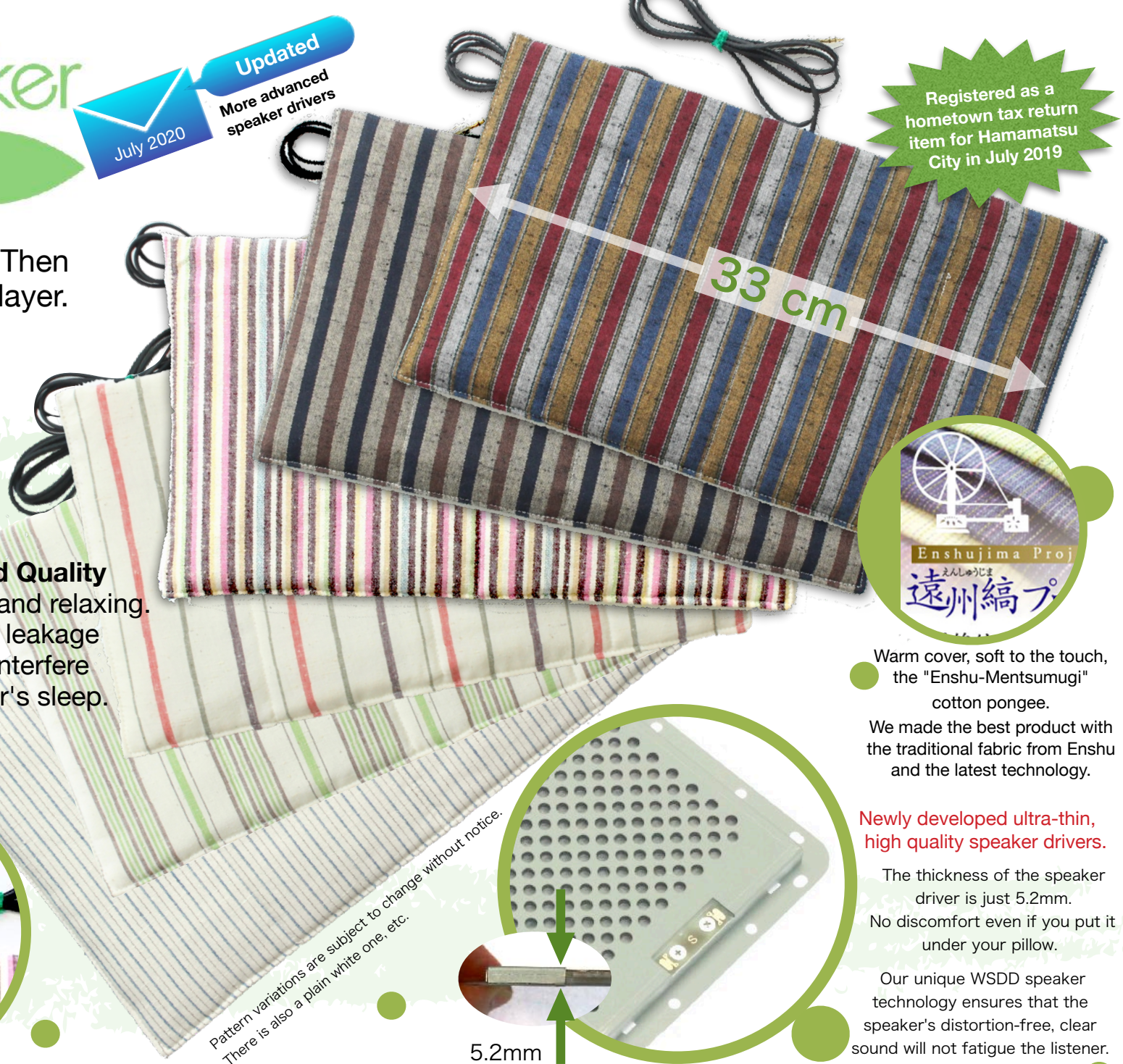
Registered as a hometown tax return item for Hamamatsu City in July 2019

Place it under your pillow. Then connect it to your music player.



Pleasant Sound Quality

The sound is clean and relaxing.
Very low sound leakage
and does not interfere
with your partner's sleep.



Warm cover, soft to the touch, the "Enshu-Mentsumugi" cotton pongee.
We made the best product with the traditional fabric from Enshu and the latest technology.

Just connect it to your music player or Bluetooth receiver.

No batteries or AC adapter is needed. Just plug it in instead of earphones.

Pattern variations are subject to change without notice.
There is also a plain white one, etc.

Newly developed ultra-thin, high quality speaker drivers.

The thickness of the speaker driver is just 5.2mm.
No discomfort even if you put it under your pillow.

Our unique WSDD speaker technology ensures that the speaker's distortion-free, clear sound will not fatigue the listener.

Right-EAR

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Two choices of specifications

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1) PS-21-E (high-efficiency version using a neodymium rubber magnet)

We recommend this one for CD players, some music players and some smart phones with low output.It uses a neodymium magnet with strong magnetic force.

2) PS-21-L (using a ferrite rubber magnet)

The sound is a bit quieter than the PS-21-E, but it's loud enough for iOS devices and Bluetooth receivers to get you to sleep.

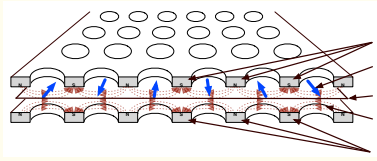
A CRISP SOUND WITH GOOD RISE IS ACHIEVED.

Driven by a desire to rethink the concept of speakers, our persistence in this area led us to develop a unique technology called the "ultra-thin, Whole Surface Direct Drive (WSDD) Speaker Driver" for high quality sound.

In contrast to popular cone speakers, which convert voice coil vibrations into air vibrations via cone paper, the WSDD system uses a structure that converts vibrations directly from the circuit pattern that generates them into air vibrations, without using cone paper, which causes distortion.As a result, distortion is minimal and transient audio signals are faithfully responded to.

The WSDD speaker drivers are specially constructed to achieve direct air vibration.
The magnet is a multi-pole magnetization system with N and S poles arranged at fine intervals.
In addition, the magnet itself has holes in it to allow sound to pass through.

PROTRO's patented technology

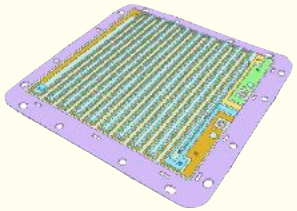


In the figure, the diaphragm vibrates up and down as a result of the vertical force generated by Fleming's left-hand rule when a current flows back and forth through the circuit attached to the diaphragm in the horizontal magnetic flux generated by the magnets above and below.

Typical cone speaker driver

It is difficult to faithfully transmit the vibrations of the central voice coil to the edges of the cone paper.

WSDD speaker driver



Vibrate air directly from the entire pattern distributed throughout the diaphragm.

The circuit is integrated with the diaphragm.
In order to make it lighter, we use aluminum, which has the smallest product of electrical resistance and specific gravity. As a result, a clear and crisp sound can be reproduced without habits. The base material of the diaphragm itself is also required to be light and rigid.
In order to solve this problem, we have manufactured and used a unique diaphragm material made by laminating aluminum foil to the plastic film of the base material. In particular, the distribution of driving points throughout the diaphragm is the reason for the excellent sound quality in the high frequency range.
The DR-7070 drives at 3mm intervals, a level of fineness not found in any other system.

Newly developed ultra-thin, high-quality sounding speaker drivers are used.

WSDD Speaker Driver
DR-7070-2

Main specifications

Code	PS-21-L	PS-21-E
Driver	DR-70702-2 D5212F	DR-7070-2 D5210N
Magnet	Ferrite 1.2mm	Neodymium 1.0mm
Dimensions	33 cm (w) x 19 cm (h) x approx. 1 cm (thickness)	
Material	Cotton (cover), Polyester (inner cotton), Linen (inner bag)	
Cord	1.2m (length), 3.5mm stereo mini (plug)	
Impedance	16 ohms	
Maximum power input	1W (continuous)	

How to buy

It is only available for sale directly and can be purchased from Amazon Japan.

Pillowspeaker's webpage
Check it out now!

https://right-ear.com/ps/buy.html

Top page : https://right-ear.com/

Recomended Bluetooth receiver

http://amzn.asia/d/dDIhs32

If you find the sound too quiet, this portable amplifier is a great choice. You can also buy it from Amazon.

http://amzn.asia/d/9j6Nae1

Users' reviews

Users' reviews on Amazon

http://amzn.asia/d/8DbRtxK

This is a listening session with pillow speakers set up on a chair. (Language is Japanese)

https://www.youtube.com/watch?v=_oo-Lq2fAf0