## ケンツメディコ KENZMEDICO

The only domestic Japan-made stethoscope manufacturer
High quality Japan-made stethoscope
Approx. 40% share of the number of stethoscopes sold in Japan



The KENZMEDICO quality which diagnoses sound



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### Stéréophonette Premium No.175

### The highest grade model single-head type for Stereophonette



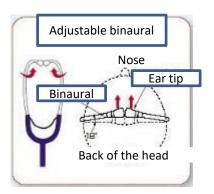
- ①Right and left independent sound from chest piece to ear tip makes users to figure out stereo information like expansion and direction of sound origin AS WELL AS strong/weak and quality of sound.
- ② Massive feeling because of stainless chest piece and binaural.

  Superior auscultation can be created by sound conduction coming from hard stainless material.
  - Good reputation from Respiratory Cardiology specialist.
- 3 High-class looking makes users to be comfortable for use.

## Stéréophonette No.171

### The highest grade model for Stereophonette



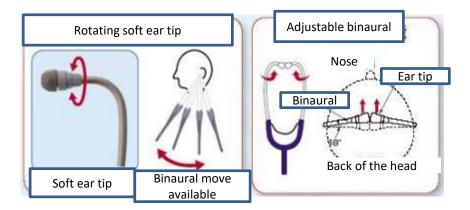


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- **③** High-class looking makes users to be comfortable for use.

## Stéréophonette No.178

### The standard type of Stereophonette



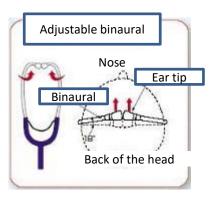


- 1 Right and left independent sound from chest piece to ear tip makes users to figure out stereo information like expansion and direction of sound origin AS WELL AS strong/weak and quality of sound.
- **2360 degree rotating soft ear tip** makes fitting to be comfortable and not to irritate the ears. Fitting to all users by adjustable binaural.
- **3**Non-chilling ring and cover ring DO NOT feel patients not to be chilled.
- 4 6 colors of tube selectable (Black · Navy-blue · Burgundy )

## Stéréophonette No.333

### **Single-head type of Stereophonette**





- (1) Right and left independent sound from chest piece to ear tip makes users to figure out stereo information like expansion and direction of sound origin AS WELL AS strong/weak and quality of sound.
- ②It is a single-head type, however it has superior sound conduction because of Zinc die-cast chest piece.

  High reputation from Respiratory specialist and executive nurses.

# **Specification of Stéréophonette**

Stereophonette				
Manufacturer	KENZMEDICO	KENZMEDICO	KENZMEDICO	KENZMEDICO
Model name	No.175	No.171	No.178	No.333 (single)
Material of chest piece	Stainless	Stainless	Zinc die-cast	Zinc die-cast
Material of binaural	Stainless	Stainless	Brass	Brass
Binaural angle adjust	0	0	0	0
Diaphragm (Adult)	0	0	0	0
Bell(Adult)	×	0	0	×
Tube	two-in-one	two-in-one	two-in-one	two-in-one
Rotating ear tip	0	0	0	0
Antibacterial treatment	×	×	×	×
Repairable spring equipped with binaural	0	0	0	0
Length	70cm	73 c m	68 c m	75 c m
Weight	250g	230 g	<b>2</b> 00 g	150 g
Number of color	2	1	6	6
		0		

## What is Stéréophonette?

The chest peace is divided into right and left by a central partition, and sound is conducted through two-in-one tube with two sound routes. In other words, it is high quality stethoscope which you can hear the independent sound from right and left ear.

By ordinary stethoscope, you hear the sound from right and left ear AS one sound. It is like to hear mono sound from radio.

By Stereophonette, you can hear the sound from right and left ear independently and auscultated information like direction, conduction and expansion of the sound will increase drastically.









### Stereo sound auscultation

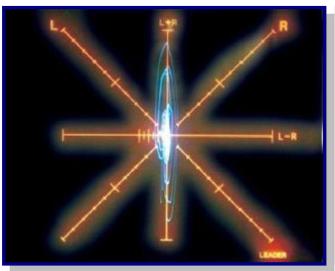
## The sound with expansion and direction

The diagnostic information(like direction of abnormal sound) can be easily recognized by direction and conduction of sound from the abnormal sound origin of cardiopulmonary.

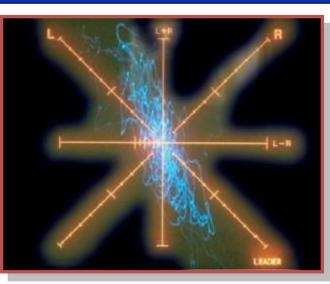
EX: Realistic adverse sound of aortic valve disease WITH direction Sound causing from intersitial pneumonia can be heard.

(It is difficult to hear by ordinary stethoscope.)

### **Expanded sound inspection by audio system monitor**







Stéréophonette



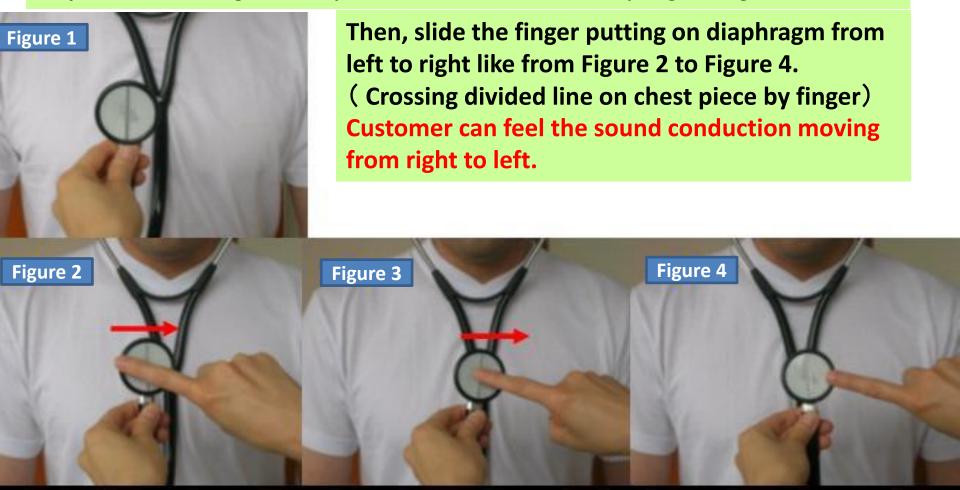


# How to use Stereophonette efficiently?

In order to know the superiority of Stereophonette, the best way is that you actually will try to use it.

There is a method to let you understand the superiority in 10 seconds.

Let your customer hang on Stereophonette to the ears and face diaphragm as Figure 1 below.



#### Tsunekazu Takashina MD.PhD.FACC.FAHA

Chairman, Japanese Educational Clinical Cardiology Society Visiting Professor, The University of Arizons College of Medicine Visiting Professor, Kink University, School of Medicine

#### Stereophonette SX178



A heart sound is "organ language" that a patient's organ speaks. Clinicians communicate with attents through "spoken language" that patients use to report their own symptoms. Furthermore, larves of taxal expression and pestures such as places the first on the chestique to chestipain are ndy language." The clinicians must understand these "3 tanguages in clinical practice".

Representative an increasing remain of directable are putting intro-large-base on trains highward re Caprostic dayless than on bedaide physical assumations. The nucessary basic skills that clinicans. should adquire are a series of physical examination procedures that start from interviewing the patient. while observing the facial body lenguage of the patient. This is followed by enthroposcopy, painst on, ands ausquiration procedures, it is important for clinicians to be configent in their own medical skills. You will discover the attractions of auscultation that you have never found in conventional stellhoscopes by using "Starbophorette SX 178", the stellhoscope developed by KENZVEDICO which ensoles you to papture heart accord as eterephonic frequency. The stathoscopes will never be replaced in clinical practice no matter now times will pharete.

### [Practice in Bedside Auscultation]

- 1. Choose a quiet room. The examiner as well as the patient should be relaxed. Stop preathing while the auscultation is going on. (By doing these, suscultation accuracy will be improved by 20 %.).
- Select a stethoscope which has a solid tube of proper length and carpieces that can be applied tightly into the cars.
- 3. Know the auscultation sites correctly. (See the figures below.)
- Confirm the side position of the chest piece.

(Wear the stathoscope and confirm stareo effects by softly rubbing the diaphragm surface "from right to left" or "from left to right".

- Know the timing of the heart murrours (in systole or diastole).
- 6. Know the point of maximum intensity of the heart number. (Any organic change occurs right there.)
- t it is a systolic murmur, identify the timing as early, mid, or late systolic. The same things also apply in diastolic murmurs.
- Know the intensity of the heart murrour. (Levine's Classification (/VI to V /VI.).

#### Levine's Classification

Grade 1 /VI: Very faint to recognize the murmur that beginners cannot detect.

Grade II/VI: Faint, but easy to recognize the murmur if you listen carefully.

Grade III/VI: Loud enough for beginners to detect the sound.

Grade IV/VI: Loud murmur with palpable thrill due to chest palpation.

Grade: V/VI: Very loud, and you can detect the sound even if the steffnscope is partially away from the chest wall.

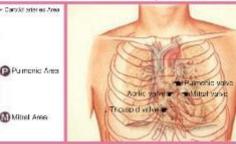
Grade VI/VI: Loudest murmur, and you can detect the sound even if the stethoscope is off the chest wall.

- Apply "breathing holding test" or "dranging of looly position heat" during asscullation.
- Touch the culse of radial or median artery with one hand during auscultation.
- (This custom should be acquired because the artery pulses are calpable curing mid-systole.)
- Always verbally reproduce the ausou tation—findings you detected using continghonetics and copy the heart sound as much as possible.
- Graphically represent mechanism of the heart sound/murnur.
- 13. Subtle changes caused by inspiration/expiration in the auscultation of the breath sound can be identified by using the stareophonetic.

A Aortic Area

Trauspid

Blustration by Tsunekazu Takashine



KENZMEDICO

### Considerations for auscultation in each site

### Auscultation of carotid artery

In carctid artery stenosis;

systolic bruits can be heard over the bilateral carotid arteries. If the stenosis is severe, sustained bruits can be heard

#### b.Auscultation of the aortic area (upper) (2nd interspace/right margin of sternum)

"Normally, S2 is louder than S1 in this area.

In aortic stenosis:

systolic ejection murmur over the acrtic area to the bilateral carotic arteries. can be heard. In this case, bruits can be detected from right to left or from left to right by pressing the diaphragm surface vertical to the direction of the abrita-

#### c.Auscultation of the aortic area (lower) (3rd interspace/mid to left margin of sternum)

#### In aortic regurgitation;

according to the blood flow, early systolic ejection murmur can be detected from right to left, and early diastolic regurgitant murnur can be detected from left to right as stereophonic frequency.

(The murriurs can also be heard in the tricusoid area.)

#### d.Auscultation of the pulmonic area (2nd interspace/left margin of sternum)

"SS is louder than Sit in this great.

"I no splitting of SB is particularly important in this area.

Normally (physiological splitting or respiratory splitting), on inspiration, the S2 splits approximately 0.02 sec.

If any disease is present, the splitting of \$2 is distinguishing.

In atrial septal defect, the fixed splitting of S2 pen be detected.

#### e.Auscultation of the tricuspid area (3rd interspace/left margin of sternum)

\*The loudness of ST and S2 are almost same in this area.

The splitting of ST and a click sound may be heard.

In mitral stancels, the opening snap can be heard.

In tricuspid insufficiency, the prominent Rivero Carvallo's sign can be detected.

(The panayatolic murmur increases on inspiration, and decreases on expiration.)

### f.Auscultation of the mitral area

(Cardiac apex = 5th interspace/midclavicular line)

In this area (8) is judge than (82) in contain 83 and 84 can be home. For suscidingtion of potient, it is recommended to use the left laters recomment position and bell surfaces of the aspect cooper.

#### In miteral stenosis,

the mid-diaetolic rumbling murmur can be heard from left to fight through augcultation by placing the left side of the bell surface upward and placing right side downward. In miteral regungitation,

S3 following the penegation murnur can also be detected. 6. so, partorn eusputation of altes such as back and inwer laft ecaptife backups, the frequency can be diffused into traces areas.

"You can download as vio I as reforms the Tull some first emission." Westering position association skills a stathbooster" by Dr. Trusteliaeu Towar no York RENZAEDIOOTIS website

Manufactured and districted by

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