

# **YUDU**

## **78298 HEARING PROTECTOR WITH DIGITAL DAB/FM RADIO ,Bluetooth and level-dependent**

Model 78298 is an ideal Hearing Protector built with a digital DAB+/FM stereo radio, Bluetooth and level depend.

The noise-cancellation radio sound is fascinating in noisy environments.

It is specifically designed to protect your hearing when working under noisy conditions and create a suitable working atmosphere by listening to the radio undisturbed.

### **COMPONENTS:**

1. Antenna with superb reception sensitivity
2. TPR ear cushion
3. Easy to read LCD display for precise tuning
4. Microphone receiving circumstance voice
5. Listen button(phone, level depend)
6. Speech microphone
7. Charge socket type C
8. On/off & volume control knob
9. DOWN-seek/scan turning button
10. UP-seek/scan turning button
11. Function button



### **INSTRUCTIONS FOR USE:**

1. Slide out the shells and place the headset over your ears with the head band upwards and push the shells evenly upwards until the headband lies on your head. Please make sure that the ear cushions cover the outer ear completely and have a tight fit
2. The headband should only rest gently onto the head, ensure that there is effective noise protection.
3. If replacing the cushions, by pulling it out from the inside to take off the cushions and then fit new cushions to the rim of the shells.  
The ear cushion (part No.78298-1) and Cup padding (part No. 78298-3) can be replaced for ear muff 78298
4. Equipped with 3.7V lithium battery, rechargeable.
5. Each time the function button is pressed for 3 seconds, DAB/FM/Bluetooth can be switched.

## 6. FM radio

Select the desired channel by pressing [UP/DOWN] buttons 3 seconds, it will automatically selected next or previous channel available.

FM from 87.5~108MHZ, short press [UP/DOWN] buttons, frequency will forward or back with 0.05 MHZ interval.

## 7. DAB and DAB+ radio

For the first use, short press DAB/FM button, text “full scan” will be shown on LCD. Then short press DAB/FM button again, it scan all DAB and DAB+ channels available automatically.

Press [UP/DOWN] buttons shortly, it will show the information of the channel which is broadcasting(Program Type, Ensemble Name, Ensemble Frequency, Audio Bit Rate, Signal Strength, Time/Date, DLS), short press again, it seek next or previous channels.

DAB and DAB+ from 174.928~239.200MHZ

## 8. Bluetooth

When “78298” shows on other equipment (mobile phone, MP3, etc.), touch it to get connection. When “ON” shows on LCD, they are connected. Then you can call and receive calls through this device. The music in mobile phone and MP3, etc. can be played on this device.

When you hear the phone ring, press Bluetooth button to receive and end call.

## 9. Level-dependent

Press Listen button(phone, level depend) twice quickly, level-dependent works.

Press Listen button(phone, level depend) 3 times quickly, voice reduced significant.

When FM or Music(Bluetooth) is playing, press Listen button(phone, level-dependent) twice quickly, level-dependent working and volume of voice of FM or Music(Bluetooth) reduced significant. Press twice quickly again, it quit level-dependent.

## 10. USB charging cable included.

## 11. External microphone is optional, this option could get more clear call quality.

## **RECOMMENDATIONS:**

1. The hearing protector must be put on, adjusted, cleaned and maintained in accordance with the manufacturer's instructions.
2. The hearing protector should be worn at all time in noisy surroundings for full protection.
3. The ear muffs are regularly inspected for serviceability
4. The ear muffs may be adversely affected by certain chemical substance. Contact the manufacturer for further information
5. The fitting of cushions to the shells may affect the acoustic performance of the hearing protector.
6. Method of checking, charging and changing battery:

When battery icon flash, use USB charging cable charging. After charging finished, the circuit will stop charging automatically. Only after the battery fails to open the battery box to replace the battery.

Ear Muffs complying with EN352-1 are of ‘medium size range’ or ‘small size range’ or ‘large size range’.

'Medium size range' ear-muff will fit the majority of wearers. 'small size range' or 'large size range' ear-muffs are designed to fit wearers for whom 'medium size range' ear-muffs are not suitable.

**Warning:** If users do not follow these recommendations, attenuation and other functions will be severely impaired.

The output of the electrical audio circuit of this hearing protector may exceed the daily limit sound level.  
Method of checking, charging and changing batteries:

The audibility of warning signal at specific workplace may be impaired while using the entertainment facility.

### **DISINFECTION/CLEANING:**

Clean the outside of the unit regularly by using a slightly damp cloth and warm soapy water. Let the ear muffs dry before reusing them. Do not use brushes or other material otherwise the noise absorption inserts or ear cushion could be damaged. Never immerse ear muffs in water. Use only detergents that are innocuous for the user.

### **MAINTENANCE:**

The hearing protector radio, and particularly the ear cushions, can degenerate over time and may deteriorate with regular use and should be examined at frequent intervals for cracking and leakage, for example.

The headband could not be bent or unnecessarily adjusted since the tension force is an important element to maintain the insulating properties.

### **STORAGE:**

Store the unit before and after each use inside its packaging box to keep it free from dust and dirt

### **TECHNICAL DATA**

Hereby, Hangzhou Demax Industry Co., Ltd. declares that Hearing Protector built with a digital DAB+/FM stereo radio, Bluetooth and level depend is in compliance with Regulation (EU) 2016/425. The full text of the EU Declaration of Conformity is available at the following internet address:

[https://yuduhardware.en.alibaba.com/product/60670936136-200489319/Hearing\\_Protector\\_with\\_DAB\\_FM\\_radio\\_Bluetooth.html?spm=a2700.icbuShop.41413.60.1e77356ceYkJpJ](https://yuduhardware.en.alibaba.com/product/60670936136-200489319/Hearing_Protector_with_DAB_FM_radio_Bluetooth.html?spm=a2700.icbuShop.41413.60.1e77356ceYkJpJ)

The attenuation values are tested and approved according to PPE directive 89/686/EEC and applicable sections of European Standard EN352-1:2020, EN352-4-2020 and EN352-8 -2020.

The earphone volume is measured at no more than 82dB (A) equivalent noise according to the PPE directive. The electronic circuit of the entertainment audio ear-muff meets the electrical safety and RED requirement appropriate to this class of equipment.

**Attenuation values:**

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation(dB)	20.9	22.0	28.3	31.4	36.2	42.6	37.7
Standard Deviation(dB)	3.4	2.5	2.9	2.0	2.5	3.6	4.6
APV (dB)	17.5	19.5	25.4	29.4	33.7	39.0	33.1

**H=34****M=28****L=22****SNR=31****Weight: 369g****Sound pressure level:**

Normal SPL (dB), approx	70	75	80	85	90
Electrical input signal level	mV	31.6	56.5	100.2	178.4
	dBV	-30.0	-25.0	-20.0	-15.0
Average(dBA)	69.5	74.5	78.5	84.5	89.5
Standard Deviation(dB)	0.98	0.98	0.97	0.96	0.96

**Criterion Level**

Interpolated external level for which the level at the ear is equal to 85dB	L-orientated noise dBA	M-noise dBA	H-orientated noise dBA
Mean	109.3	114.7	123.5
Standard Deviation	1.01	0.80	0.77
Mean – sta dev	108.3	113.9	122.7

**FCC Statement**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**RF warning for Portable device:**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.