

Your speech can be defined by **Tone + Intonation + Pitch**

What is Tone?

Tone represents the quality of sound of a voice. The 'tone' of someone's voice may indicate their actual emotions.

What is Intonation?

Intonation refers to the music of a voice; this basically means how a person's voice falls and rises when speaking.

What is pitch?

The pitch of a voice is the degree of lowness or highness that someone speaks with. Pitch is an integral part of the human voice and the pitch of a voice is defined as the "rate of vibration of the vocal folds". The sound of the voice changes as the rate of vibrations varies. As the number of vibrations per second increases, so does the pitch, meaning the voice will sound higher.

Pitch is measured in Hertz (Hz) and ranges from 65 to 525Hz depending whether man, woman, or child.

This voice amplifier features a pitch modulator.

This feature gives you an option to alter the sound of your voice to sound a little higher or lower. This can help a very soft voice or whisper become more defined and audible.

Technical Specifications

Product code: JF105A

Voice Aid portable 18W RMS
Digital Voice Amplifier

Battery charger: 9V DC - 0.65A

Battery operating time:
12 hours of continuous use

Maximum power output: 18 watts RMS

Output impedance: 4W

Pitch Modulator range: 63 to 630Hz

Frequency response: 100Hz – 20KHz

Operation voltage: 9V DC - 0.65A

Recharge time: 3-5 hours

Weight: 209 grams

Dimensions:

88mm (W) x 40mm (D) x 98mm (H)

CE marked

Also available



**Clip-on Neck Band
Throat Microphone**
Code TM9630
£15 +VAT



**Adhesive Pad Throat
Microphone**
Code TM9631
£18 +VAT



**Ultra Slim Headset
Microphone (black)**
Code HP9632
£15 +VAT



**Ultra Slim Headset
Microphone (neutral)**
Code HP9633
£15 +VAT

**Replacement Foam Mouth Pieces
(10 Pack) Code HS4067 £7 +VAT**

**Replacement Sensor Pads
(30 Pack) Code AP9631 £9 +VAT**

**Replacement Charger 9V DC - 0.65A
Code RC105A £12 +VAT**

**Replacement Headset Microphone
Code HM105A £15 +VAT**

**Replacement Clip-on Lapel
Microphone Code LM105A £15 +VAT**

Look after your voice

- Keep your vocal cords well hydrated: try drinking two litres of water a day. Avoid alcohol and caffeine. Always have a bottle of water to hand and take a sip whenever you feel the urge.
- Encourage others to come closer to you so that they can hear you.
- Take regular breaths to avoid straining at the end of sentences.
- Avoid talking against background noise.
- Do not shout or whisper and avoid long telephone calls.
- If you feel sore from using your voice, give it a rest for 30 minutes to an hour.
- Avoid throat clearing as it can irritate your throat further.
- If you suffer from heartburn, indigestion, or reflux, seek medical advice.
- Keep your home humidified by opening windows when you return home. (Avoid hot, dry environments).
- If you use an inhaler, rinse your mouth after use.
- Chewing a non-mint based gum often (particularly gum containing bicarbonate of soda) may help generate saliva and relax the muscles around the throat through repetitious movement. It may also help with reflux (flow of stomach acid/contents) into the larynx.
- Steam inhalations can be soothing. Use them regularly. Aim for five minutes twice a day.

Helpful voice-related website links

PARKINSON'SSM
CHANGE ATTITUDES.
FIND A CURE.
JOIN US.

www.parkinsons.org.uk

BVA
THE BRITISH VOICE ASSOCIATION

www.britishvoiceassociation.org.uk

THE LARY PROJECT
Supporting people with voice disorders

www.lary.org.uk

NHS

<http://www.royalberkshire.nhs.uk/patient-information-leaflets/ENT%20Voice%20care.htm>

NHS approved and available through NHS or direct from us

Customer Support t: 01803 612772

e: info@voiceaid.net **w:** www.voiceaid.net

Voice Aid Unex Designs Ltd, Torquay, Devon, UK, TQ2 7AT



Voice Aid

Voice Amplifier Kit



Instructions

CE
JF105A

Instructions for Use

1 Before use, you will need to charge the voice amplifier. To do this simply plug the charger into the top socket **DC 9V** **4** on the side of the voice amplifier unit for 3 to 5 hours

When the voice amplifier is charging, you will see a flashing red light **1**. When fully charged the red light will stop flashing and remain constant until you disconnect the charger.

2 Select the microphone you wish to use - headset or clip on lapel, (or optional throat microphone - not included in this pack), and plug into **Microphone Socket** **6** on the side of voice amplifier unit.

Before plugging in a microphone ensure the unit is switched off.

Your voice amplifier is now ready to use for up to 12 hours.

3 To switch **on** push down the on/off button **8** and hold for 3 seconds. When using the voice amplifier, a blue light **2** will appear and when you plug in a microphone an orange light **3** will appear to tell you the microphone is connected and your voice amplifier is ready to use.

Avoid the microphone being too close to the voice amplifier speaker as this can trigger feedback interference (a screeching sound) from your speaker (see explanation about feedback opposite)

When in use, always make sure the voice amplifier speaker (front of unit) is facing away from you and maintain as much distance from microphone as possible.

Always start with low volume by pressing down on the **V- volume decrease** button **10**

To increase volume, press down on the **V+ volume increase** button **9**

4 To switch **off** push down the **on/off** button **8** and hold for 3 seconds.



When using the pitch modulator

Make sure the pitch modulator control **7** is on **low** before setting required volume, and only then, and if required, adjust the pitch modulator control to vary the sound of your voice.

Voice Amplifier Controls



- | | |
|-------------------------------------|---------------------------------------|
| 1 Charging indicator light | 7 Pitch Modulator (Low - High) |
| 2 Voice amplifier light | 8 ON/OFF button |
| 3 Mic indicator light | 9 Volume + HIGH |
| 4 9V DC Charger input | 10 Volume - LOW |
| 5 AUX socket for mobile / PC | 11 Mute |
| 6 Microphone socket | |

Understanding your Voice Amplifier

Our voice amplifier is **18 watts** which is far more powerful than most small portable voice amplifiers which are normally around 10 watts and consequently have to operate constantly at full volume.

The advantage of 18 watts is you do not need to set the volume high. Always start with lowest volume and gradually increase to the required volume. This also helps avoid feedback (that screeching sound!)

When using lapel/clip-on microphone

Do not hold the microphone any closer than 2.5cm (1") from your mouth.

The clip on microphone can be clipped onto your lapel, collar, or clothing.

You can also use as a hand held microphone.

You can even clip the microphone onto your cuff (cable can be hidden by running it inside clothing) then simply raise your hand to the proximity of your mouth when you wish to speak.

The clip-on microphone is now uni-directional which means the mic is directed towards your mouth and will not pick up other sounds around you.

When using mobile phone or PC

Use the Aux socket **5** on the side of your voice amplifier.

Simply plug one end of the auxiliary cable provided into the Aux socket **5** and the other end into your mobile phone or PC speaker / audio socket.

This will amplify the sound of your voice to the listener and the listener's voice will also be amplified through the voice amplifier speaker for you.

Avoiding Feedback

This voice amplifier features an inbuilt noise and feedback interference reduction function.

Feedback is caused by the microphone being too close to the speaker.

The microphone then picks up the output sound from the speaker which it then re-amplifies causing a loop.

The loop is created by the microphone picking up the original amplified sound and amplifying it again and again until the sound can't be amplified anymore and that is when you get the screeching sound.