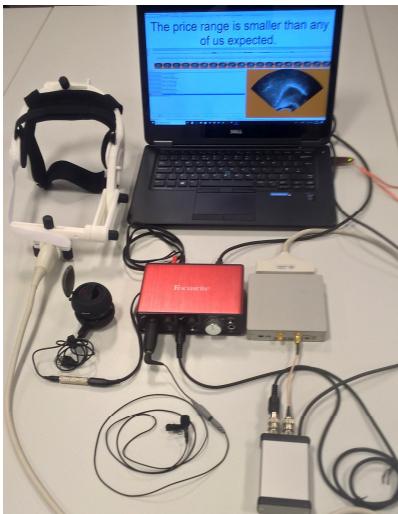


SPEECH RESEARCH ULTRASOUND

Complete system incl. scanner, probe, headset, audio bundle and AAA software



Micro unit with probe (Laptop PC not included; AAA software sold separately)



B Radius 10mm; Frequency 5-10MHz; Max FOV 136°



C Radius 20mm; Frequency 2-4MHz; Max FOV 101°



A / E / G

A Scanner unit

E Pulse stretch unit

G Audio bundle with USB powered preamp and lapel mic

Designed for research into articulatory dynamics of typical and disordered speech. It is compact and silent with precise automatic audio synchronisation and high frame rates. Suitable for field work as it can be powered from a laptop battery but equally suited to laboratory work. Long record times and automatic edge detection.

Key Features:

- **Portable:** Scanner 106x105x21mm; 0.26kg. Can run off laptop battery for fieldwork..
- **Hardware sync signal:** TTL pulse on completion of every frame allowing fully automated, accurate audio sync.
- **Speech capture software:** AAA s/w provides extensive tools for image analysis
- **Raw scan data capture:** Records raw ultrasound scanline data rather than interpolated image data which saves disk space and allows more accurate analysis
- **High frame rate:** Frame rate up to 140 Hz (more typically 119Hz for 70mm depth; 110° FOV for 10mm probe and 81Hz for 80mm depth; 101.2° FOV for 20mm probe)
- **Low Cost**
- **Quiet:** No fan noise, unlike many other systems
- **Microconvex probe:** Short 10mm radius probe suitable for children and small adults.
- **Convex low frequency probe:** For better penetration in large adult speakers
- **Speech Therapy Visual feedback Tools** Graphical overlay on live image to highlight palate position and target constrictions
- **Long capture times for conversational analysis**

Computer recommended specification:

- Windows® based Desktop/Laptop/Tablet PC
- Screen resolution 1024x768 or more
- CPU i5/i7 1.8 GHz or faster
- 8 Gb of RAM or more
- Two or more USB 3.x/USB-C ports (Hub may be required)
- Windows® 7, 8, 10,11 (all versions 32/64-bit)

Email: awrench@articulateinstruments.com - www.articulateinstruments.com - Tel. +44 131 474 0000

Address: Articulate Instruments Ltd, Queen Margaret Campus, Queen Margaret University Drive, Musselburgh, East Lothian EH21 6UU UK [Demonstration software available at www.articulateinstruments.com/downloads](http://www.articulateinstruments.com/downloads)

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Software and accessories

Recommended system:



F

A Micro system (£2200*)

C Convex 2-4MHz, 20mm radius probe (£1250*)

D AAA software for synchronous recording and analysis of ultrasound and video (£1125*)

E Pulse Stretch unit [for conditioning the EchoB sync pulse for audio capture] (£125*)

F Ultrafit probe stabilization headset (£850*)

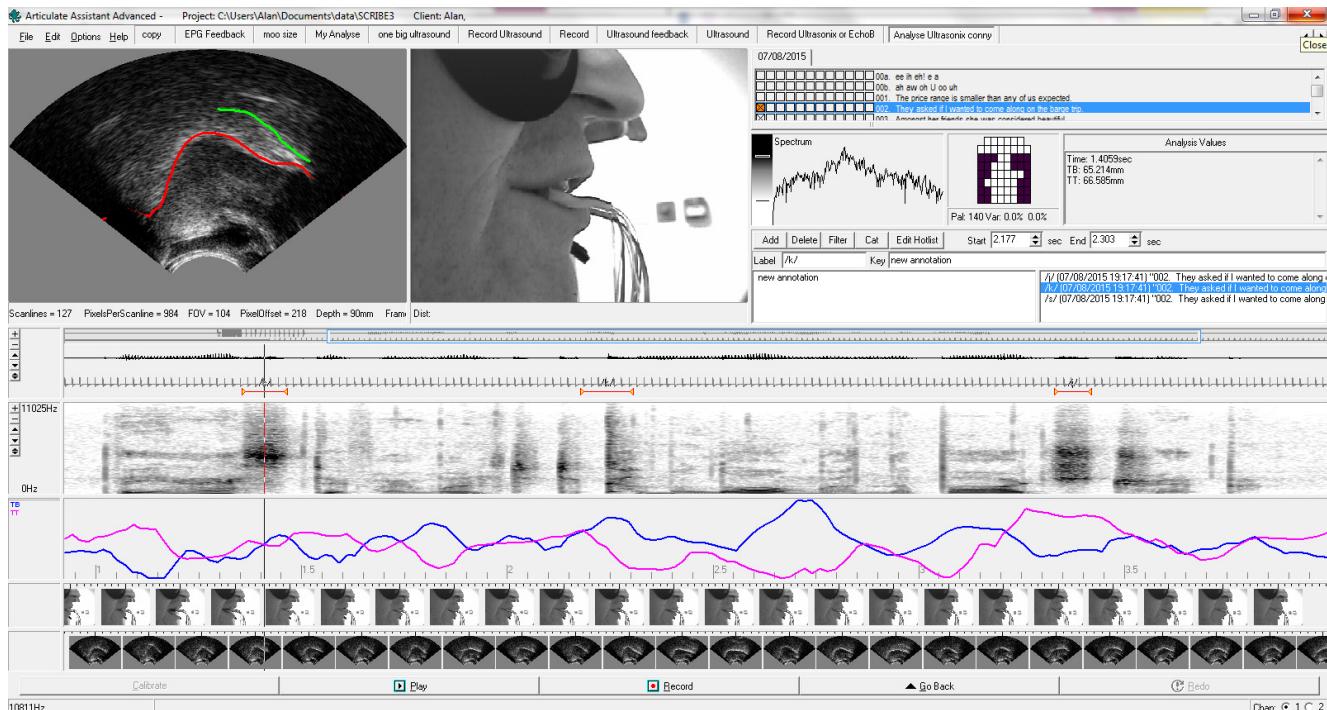
G Audio Bundle (£250*)

Optional microconvex 5-10MHz 10mm radius probe (Add £1250*)

convex 4-8MHz 20mm radius probe (Add £1250*)

convex 2-4MHz 60mm radius probe (Add £1090*)

Without hardware sync (Subtract -£250*)

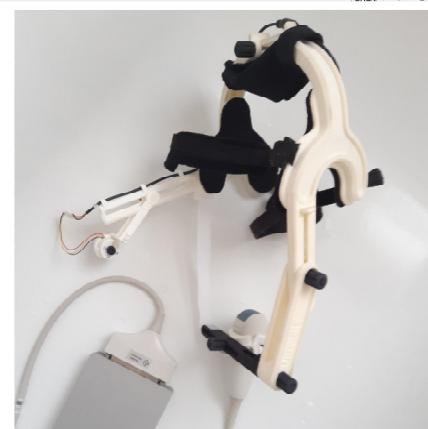


Optional associated lip camera with UltraFit headset

i Headset camera bracket (front or side facing) with NTSC camera (£249*)

ii Video capture card (USB2) (£295*)

iii Video/audio synchronisation unit (£386*)



*Prices exclude carriage duty, VAT, and/or import tax and are subject to exchange rate variance

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