



# DUET Executive speakerphone

by Phoenix Audio Technologies

## Boardroom Conference Quality at Your Desk, & on the Road.

### Benefits

**Performance** - Full duplex audio with echo cancellation & noise suppression

**Mobility** – Lightweight, slim-line design.  
Travels well with laptops

**Connectivity** – Laptop, IP Phone, standard Phones & cellphones

**Easy-To-Use** – USB interface for PC and Laptop users (no software)

**Flexibility** - Choice between speakerphone or headset mode

Phoenix Audio's Duet is a best-in-class speakerphone for the desktop voip user and roadwarrior. It is the primary audio interface for the mobile work force, dependent on voip for communication.

The Duet generates clear communication through proprietary Acoustic Echo Cancellation, Line Echo Cancellation, Noise Suppression, and equalizer algorithms embedded within the product. The Duet provides 360° room coverage so more than one person can participate in an online conference, Headset-Free and Handset-Free. Loudspeaker output (always a problem with laptops) is sufficient for larger offices and even medium sized conference rooms.

The DUET can be utilized in a number of configurations. In its most simple, a USB interface to the PC powers the speakerphone. More sophisticated options include connecting the Duet to IP Phones, POTS and even cellphones through available headset connections. Duet connectivity to any to these phones & the PC gives users the advantage of conferencing voip callers together with standard callers. Last, users have the option of connecting their headset to the Duet for private communication, such as required in IP Call Centers, or public spaces.

The DUET enhances the user experience with many PC applications: VOIP, softphone, webconferencing, distance learning, instant messaging, sound recording, telemedicine, etc. Furthermore, the Duet can improve your telephone's or cellphone's speakerphone performance as well.

Lightweight and sleek design, the Duet has redefined the standard in speakerphones for the desktop and revolutionized audio performance for laptops on the road.



Echo Free  
Headset-Free

MOBILITY  
COMMUNICATION

Voice Audio Speakerphones  
softphone WEBconferencing

**Size:** 3.75 in x 1.25 in x 4.5 in  
(W x H x D)

**Weight:** Carrying with USB cable  
0.55 lbs

**Power:**

- USB power for PC and Laptop (LED will illuminate)
- External power supply included for phone only configurations (when Duet is not plugged into the PC)

**Audio:**

- 100% Full Duplex Performance – No attenuation (either way) during full duplex
- Acoustic Echo Cancellation >40 dB  
High-end Performance: Conforms to ITU-T G.167 Standard
- Line Echo Cancellation
- Noise Cancellation >10dB
- Residual Echo is Suppressed to the Environment Noise Level to Prevent Artificial Ducking of Signal
- Voice Level Equalization
- Convergence speed 40 dB/sec
- Tail length (200ms)
- Convergence during full duplex (no recovery time after full duplex)
- Low delay (10 msec)
- Bandwidth 20 – 7500 kHz for Speech Processing Maintains the Soundcard bandwidth
- Integrated Loudspeaker
- Mute Button and loudspeaker volume control buttons (LED will blink in mute mode)

**Performance:**

- Speech processing and echo suppression at 16KHz sampling rate
- Maintains Audio Performance of the PC for HiFi audio applications when external speakers are connected.
- Plugging in a headset will automatically turn off the speakerphone.

**Configurations:**

USB	√	PC or Laptop Connectivity
2.5mm	√	Headset Connection
RJ11	√	Connect to IP Phones, POTS phones and cellphones through the telephone's headset
3.5mm	√	External Loudspeakers (full bandwidth) or headphone
DC	√	For telephone/ cellphone only configurations

Phoenix Audio Technologies, 98 Cutter Mill Road, Suite 386 Great Neck, NY 11021  
Office: 516-829-2920 Fax: 516-829-2923 www.phnxaudio.com

