



# Spider

USB and SIP/IP Telephone

MT505



## Enhanced audio conferencing, *simplified.*

Change the way you conference with the Spider. Featuring state of the art acoustics, noise and echo cancellation technologies and a proprietary portfolio of algorithms, the Spider is the most powerful and advanced conference phone on the market. The four powerful microphones, true HD Audio, full duplex, and exceptional broadcasting range ensure crystal-clear, seamless conversations.

The Spider addresses all your audio needs in the conference room.

Designed with both telephone connectivity and a PC soft interface for video conferencing, the Spider eliminates the need for two separate conferencing devices to be placed in your conference room or office. Use the Spider alone or connected to up to 14 daisy chain units to cover any size conference room design.

### FEATURES

- Bridging between USB and VoIP/SIP/IP
- Daisy Chainable up to 14 slave units
- Interactive dial pad
- Four microphone beamforming array with directional LED lighting
- Full duplex communication
- DSP based algorithms
  - Echo canceling
  - Noise reduction
  - De-reverb
  - Automatic gain control
- Supports PoE (Power over Ethernet)



## SPECIFICATIONS

### Connections

SIP/IP with USB Interface (mini B connector)  
3.5mm DIN, 4 pole for external microphone  
and speaker connection  
Ethernet daisy chain expandability of up to  
14 units  
Power Consumption: 150 mA from 48V  
ac/dc adaptor or via POE supply.

### Audio

Frequency Response 50Hz – 16KHz  
Low latency (10ms)  
Broadcast level (peak): 92dB SPL  
@1m (5 watts RMS)  
Three-way bridging capability  
Noise cancellation > 10dB (without pumping  
noise)  
100% full duplex – no attenuation (in either  
direction) during full duplex  
High-end performance confirms to ITU-T  
G.167  
Acoustic echo cancellation > 40dB/sec  
Residual echo is suppressed to the  
environment noise level, preventing artificial  
ducking of signal  
4 high-quality directional microphones  
Beam-forming algorithm (forms and directs  
audio beams towards a defined direction)  
Automatic voice-level adjustment (AGC)

### Dimensions

Dimension: 7" diameter, 1-7/8" height  
Weight: 2 lbs  
Metal case and metal grill mesh for high RFI  
immunity and product durability  
High RFI immunity and product durability

### VoIP and Signaling

SIP – RFC 3261, SDP – RFC 2327 SIP over  
TCP/UDP, Redundancy, Digest  
Authentication, PRACK, Early Media

### Data Protocols

IPv4, TCP, UDP, ICMP, ARP, RTP, SRTP,  
Static IP/DHCP IP Assignment, IEEE  
802.1p/Q,  
HTTP/HTTPS/DHCP, NTP, FTP/TFTP

### Software

Plug-and-Play - No installation or additional  
drivers required  
Audio Setup Utility is available for  
Windows.  
Recording utility is available for Windows.  
Recording utility allows you to record con-  
versations to your computer via the device.  
Operating systems: Windows 98 and  
up / Linux / MacOS.

### Accessories

USB cable  
48V power supply International AC adapter  
Daisy chain cable (Ethernet)  
Telephone cable

### Warranty

Limited warranty – for more information  
visit <http://www.phnxaudio.com/warranty/limitedwarranty.pdf>

### Provisioning and Management

Web Server for Configuration and  
Management, Configuration update via  
FTP, TFTP, HTTP, HTTPS, DHCP Options  
(66, 67, 160, 12, 77, 42)

### The Ideal Audio Conference Solution For:

- Conference rooms of any size
- Training Rooms and Classrooms
- Huddle and Breakout Rooms
- Executive Offices

**Performance:** A state-of-the-art acoustic design that delivers a pick up range and speaker clarity like no other conference phone on the market. The Spider's powerful DSP accompanied by Phoenix Audio Technologies' proprietary algorithms provides best in class echo-cancellation, noise suppression and a true HD audio experience.

**Intuitive User Interface:** The Spider is the first conference phone that you can see what your audio device is doing during the conference call. With discreetly placed LED lights and an interactive dial pad that both come to life when the Spider is in action.

**Expand:** The Spider supports power daisy chaining of up to 14 slave units to cover any size conference room. The cable connectivity is conveniently placed under the unit for a sleek look in your conference room.

**Connect:** The Spider is designed to fulfill your every conference room audio need. With the capability to connect to your telephony line and video codec simultaneously and perform a three way call bridge. With the Spider there is no more need for multiple audio solutions for one conference room.



PHOENIX AUDIO TECHNOLOGIES

