



# DIRECTION FINDING AND TRACKING ARRAY

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Patent-pending Direction Finding and Tracking Array (DFTA™) technology utilizes an array of microphones and a unique algorithm to detect the presence of a user's voice, determine the direction of the voice and follow and track it when it moves. In a videoconferencing setting, this unique technology can provide direction to a videoconferencing camera and allow the system to steer and concentrate on the speaker, thus providing a "video-follow-audio" capability.

*Some of the unique DFTA features include:*

- Ability to tailor a configuration to utilize any number of microphones ranging from 2 to 8 elements.
- Structure which can be adapted to accommodate placement limitations or constraints, as well as the specific software application's accuracy requirements.
- Technology capable of providing both direction and elevation.
- Ability to handle a multi-speaker situation by providing several directions simultaneously.
- An algorithm highly immune to background noise, which can also accept a reference signal, such as the conferencing loudspeaker, and ignore its direction as a non-legitimate source.
- An ability to locate a speaker in both constrained and unconstrained situations, such as a driver and passenger in pre-defined locations or people speaking from varying or undefined locations.



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