Waves from two of more sources can interact to combine and create a wave of larger amplitude. Furthermore, the waves can be timed in such a way as to be steered in a specific direction at higher amplitude.

The steering effect of the main beam can also be purposed to focus. Phased array technology can hone in on a specific indication at a specific distance through wave interactions alone!

**Phased Array Ultrasonic Methodology**

- **FREQUENCY:** 1-5 MHz
- **ARRAY TYPE:** Single Array: Sectorial Scan (-30 to 30 degree max)
- **NUMBER OF ELEMENTS:** 24(2MHz) & 32(5MHz)
- **VELOCITY:** .232 inches/microsecond
- **MATERIAL:** nonannealed 1020 steel
- **GRAIN STRUCTURE:** Medium-Large

With PAUT we can calculate the depth and size of an indication from one scan on a 12x8 inch mobile device.