



Beamwidth and Spacing

•I'm trying to get an idea of the spacing between individual beams for each frequency of the standard and long range DIDSON's. The specs for the standard DIDSON say 96 beams, 0.3 deg indiv beams, for a 29 deg field-of-view. Is the distance between the beams actually 0.302 deg or is the field-of-view closer to 28.8 deg?

The beams in HF mode are on the average 0.3 degrees at the 3-dB points two-way beam pattern. The field of view is ideally 28.8 degrees. We rounded to make it 29 degrees.

The beamwidths for LF average around 0.4 degrees and are spaced 0.6 degrees apart. So the field of view remains around 29 degrees.

•The long range HF says 0.5 and 48 beams, and the long range LF says 0.8 and 48 beams. What are the actual beam dimensions and overall field-of-view dimensions for these?

These are the average beamwidths taken at our measurement facility. The beams are spaced 0.6 degrees apart for LF and HF in the LR version, so the field of view remains around 29 degrees in each case.