

Comparison 1500MHz antennas (measured)

	De Belie Octenna1500	De Belie Yagi1500 18dBi	A. Helix	D. Corner	E LogPer
Gain @ 1520MHz	14dBi	18dBi	11dBi	14.5dBi	12.5dBi
Polarisation	H/V	H/V	Circulair (illegaal in be)	H/V	H/V
HPBW	30°	22°	25° (32° *)	25°	30°
Sidelobes max.	20dBr	20dBr	12dBr (20 *)	19dBr	?
Front/back	27dBr	25dBr	27dBr	27dBr	27dBr
Weight	0.9kg	1.25kg	5kg	2.75kg	0.7kg
Dimensions (mm)	315 ² x 38	110x10x1480	dia210x1000	630x300x 370	140x40x1050
Maximum loss in heavy rain	0.2dB	1.5dB	1.0dB	0.5dB	2-15dB?
Max loss during melting snow	1.0dB	8dB	8dB	4dB	8-15dB? (water sealing not OK)
Wind load	Low	Mid	High	Very high	Mid

*With regard to the helix sidelobe level it is possible to interpret the antenna as having a HPBW of 32°, in this case the sidelobes are -20dBr. This 32° is comparable to the Octenna1500.

The Octenna1500 is an excellent alternative for the A. Helix, the D. Corner and the E. LogPer:

* high gain

* much smaller and lighter

* excellent behaviour in rain, snow, ice, melting snow

* very clean patterns

* less wind load

* easily H or V polarisation mountable. Interesting to avoid crosstalk between two transmitters on one site.

The yagi1500 is a good choice if maximum gain is needed. Because two antennas are used for a link, the gain for the link will be 8dB more than for two Octennas.

In combination with the STAR1500 receiver, an Octenna1500 with build in bandfilter/LNA is delivered.

If the yagi1500 is used with the STAR1500, a separate small bandfilter/LNA is used.