

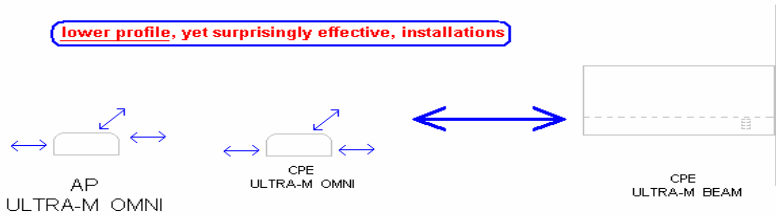


HUB			SUB						MILES  [some (trees/walls/etc.) obstructions] [up to...(+)]
OMNI	BEAM	Amp/Pre-Amp (1 Watt for OMNI; 250 mW for BEAM)	Stock antenna	OMNI	BEAM	Amp/Pre-Amp (1 Watt for OMNI; 250 mW for BEAM)	Indoor Antenna	Outdoor Antenna	
Yes			yes				Yes		(100'-250')
Yes				Yes			Yes		(200'-600')
Yes				Yes				YES	0.1-0.3
Yes					YES			YES	0.25-1
Yes		YES		Yes			Yes		0.1-0.3
Yes		YES		Yes		YES	Yes		0.25-1
Yes		YES		Yes				YES	0.25-1
Yes		YES		Yes		YES		YES	0.7-2
Yes		YES			YES			YES	0.7-2
Yes		YES			YES	YES		YES	2-5
	YES	YES		Yes			Yes		0.25-1
	YES	YES		Yes		YES	Yes		0.7-2
	YES	YES		Yes				YES	0.7-2
	YES	YES		Yes		YES		YES	2-5
	YES	YES			YES			YES	2-5
	YES	YES			YES	YES	Yes		2-5
	YES	YES			YES	YES		YES	5-15

*(P-MP scenarios) [Distances greater (than with portable site surveys) may be seen by optimizing antenna heights/positions.] (BEAM is 4" 12dBi model) (OMNI is 5dBi model)  
P-MP ranges with the new 12 dBi OMNI HUB are >= ranges with the 12 dBi Beam at the HUB.*

[Remember to down-tilt beams 15-20 degrees when tower-mounted/in a P-P scenario.]

**lower profile, yet surprisingly effective, installations**



**Higher Profile Installations**

**ULTRA-M P-MP and P-P Ranges with some Obstruction; Wattages**

