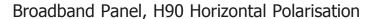
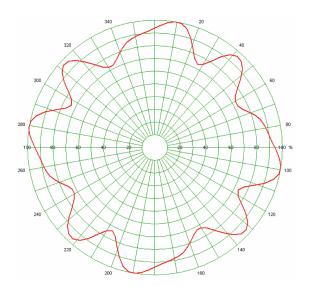
## Antenna UHF TV 470-860MHz





## **Product Description**

This antenna is designed to produce an omnidirectional Horizontal Radiation Pattern (HRP) when four panels are mounted around a square structure with a face width of 640mm, refer to the pattern below. The antenna is broadband over the whole UHF band 470-860MHz and suited to the transmission of several high power Digital or analogue channels. The panel is used as a basic building block to construct high gain antenna arrays.



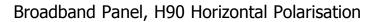


Panel Specification			
Frequency Range		(MHz)	470-860
Polarisation			Horizontal
Power Rating - according to input of			
1	5/8" IEC		5kW @ 860MHz
	7/8" IEC		1.8W @ 860MHz
Electrical Length			2 wavelengths @ 565MHz
Input Impedance		(ohms)	50
Input VSWR			1.1:1
Gain (relative to halfwave dipole)			10.9dB @ 470MHz
			12.0dB @ 630MHz
Lightning Protection			DC Grounded
Construction			Passivated Aluminium screen
			Brass Radiating elements, copper inner
Ice Protection			GRP Radome
Weight		(kg)	12
Aerodynamic Area	Front	(m sq.)	0.55
	Side	(m sq.)	0.24
Dimensions		(mm)	1070 x 510 x 226

In pursuance of continual product improvement, AlanDick reserve the right to change specifications without prior notice

Edition No: 1-03

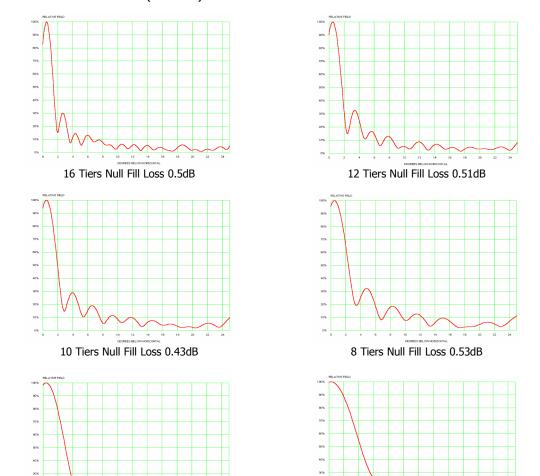
## Antenna UHF TV 470-860MHz





General Array Data									
No of	Aperture	Intrinsic (v	Intrinsic (vertical) gain dB			Aerodynamic			
Tiers	m	470MHz	630MHz	860MHz	Kg	Area sq. m			
1	1.1	3.0	4.6	4.4		2.0			
2	2.2	5.9	7.4	7.4		4.0			
4	4.4	8.9	10.4	10.4	1,450	7.5			
6	6.6	10.6	12.1	12.2	2,200	11.5			
8	8.8	11.9	13.4	13.4	2,325	15			
10	11	12.8	14.3	14.4	2,910	18.5			
12	13.2	13.6	15.1	15.2	3,500	22.5			
16	17.6	14.9	16.4	16.4	4,700	30			

## Typical Vertical Radiation Patterns (630MHz)



In pursuance of continual product improvement, AlanDick reserve the right to change specifications without prior notice

6 Tiers Null Fill Loss 0.37dB

Edition No: 1-03

4 Tiers Null Fill Loss 0.58dB