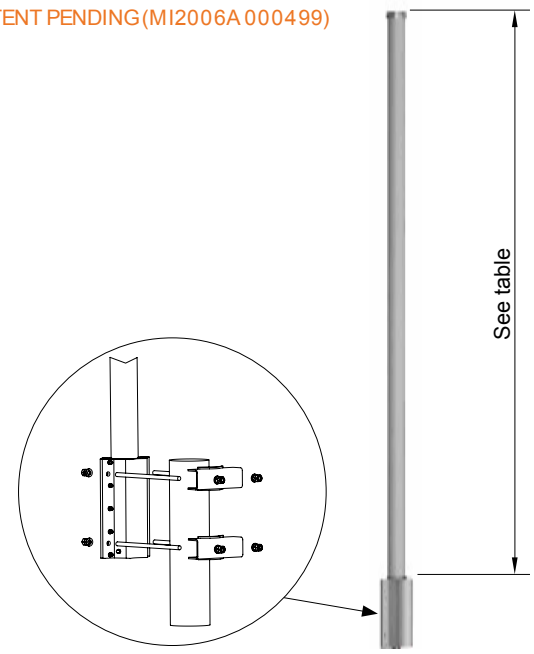
# ut V-14

## UHF (DVB-H) OMNI ANTENNA

PATENT PENDING (MI2006A 000499)




## FeAt uRes

- vertical polarization
- broadband
- 7 dB gain
- omnidirectional pattern

## ELECTRICAL DATA

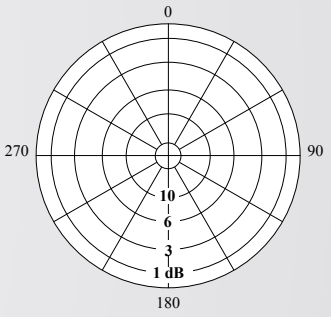
| ANTENNA TYPE | UTV-14/A | UTV-14/B | UTV-14/C | UTV-14/D | UTV-14/CD |
|---|---|---|---|---|---|
| FREQUENCY RANGE (MHz) | 470 ÷ 550 | 550 ÷ 638 | 638 ÷ 742 | 742 ÷ 862 (a) | 678 ÷ 790 |
| OPERATING CHANNELS (CCIR) | ch. 21÷ 30 | ch. 31÷ 41 | ch. 42 ÷ 54 | ch. 55 ÷ 69 (a) | ch. 47 ÷ 60 |
| ELECTRICAL DOWNTILT | 0° - 2° - 8.5° | 0° - 2° - 8.5° | 0° - 2° - 8.5° | 0° - 2° - 5° | 0° |
| IMPEDANCE | 50 ohm | | | | |
| CONNECTOR | 7/16 F | | | | |
| MAX POWER | 500 W | | | | |
| VSWR | ≤ 1.4 | | | | |
| POLARIZATION | Vertical | | | | |
| GAIN (referred to half wave dipole) | 7 dB (*) | | | | 6.5 dB |
| HALF POWER BEAM WIDTH | E-Plane ± 5° | | | | E-Plane ± 5.3° |
| LIGHTNING PROTECTION | The metal parts of the antenna,including the inner conductor, are DC grounded. From the solid metal tip right down to the base,the grounding cross-section is 90 mm² aluminium or more. | | | | |

(*) only all version with electrical downtilt 8.5° Gain=6.5 dB
(a) version 2° electrical downtilt freq=726÷862 MHz ch.53÷69
(a) version 5° electrical downtilt freq=702÷862 MHz ch.50÷69

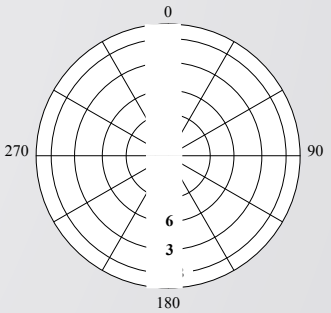
## MECHANICAL DATA

| DIMENSIONS | 3410 x ø82 | 2995 x ø82 | 2575 x ø82 | 2260 x ø82 | 2260 x ø82 |
|---|---|---|---|---|---|
| WEIGHT | 19 kg | 18 kg | 17 kg | 16 kg | 16 kg |
| WIND SURFACE | 0.28 m² | 0.25 m² | 0.21 m² | 0.19 m² | 0.19 m² |
| WIND LOAD (at 150km/h) | 300 N | 260 N | 225 N | 198 N | 198 N |
| MATERIALS | Internal parts (Brass,Aluminium,Teflon) Radome (Fiberglass) | | | | |
| ICING PROTECTION | Full radome | | | | |
| RADOME COLOUR | Grey | | | | |
| MOUNTING | On pole ø 60 ÷ 120 mm | | | | |

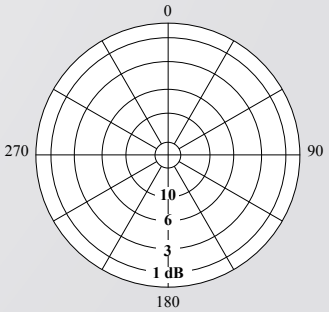
RADIATION PATTERN (Tipical)




**H-Plane**




**E-Plane (0° tilt)**




**E-Plane (8° tilt)**