

# AD-27/V190-3512

The antenna AD-27/V190-3512 is a family of wideband monopole VHF/UHF low profile mobile antennas for frequency range from 25 to 512 MHz, mainly intended for use in light or heavy duty mobile or RF jamming applications. The antenna has a very low profile of radiating element, very low visibility and very low weight, making it universal and suitable for installations in heavy trucks as well as lighter wheeled military vehicles.

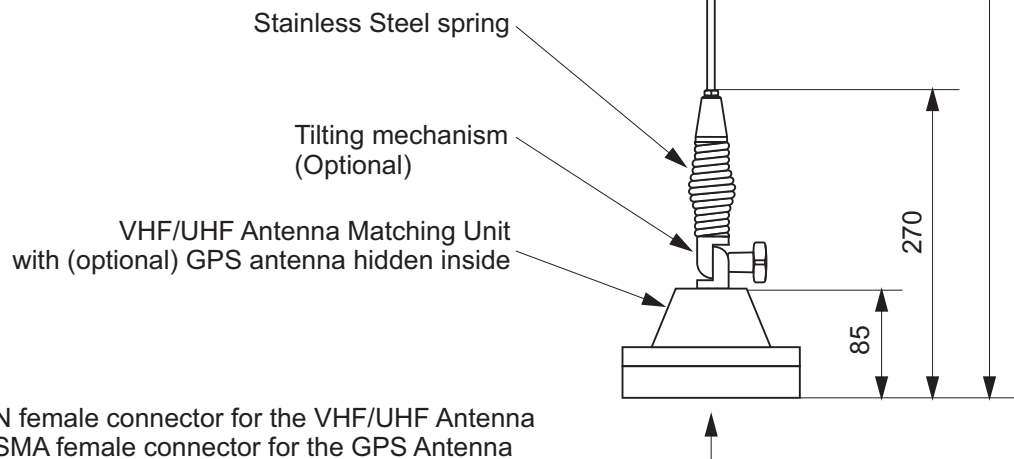
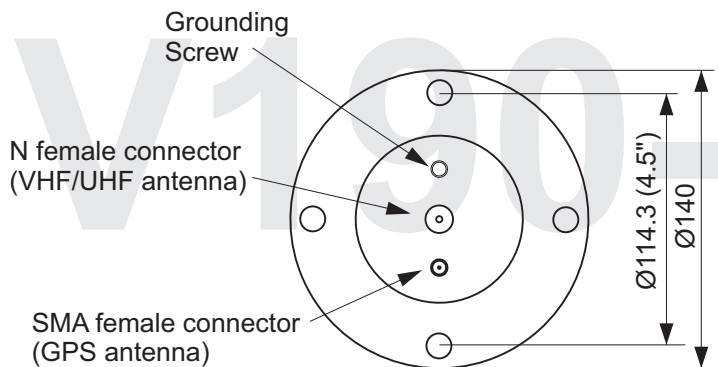
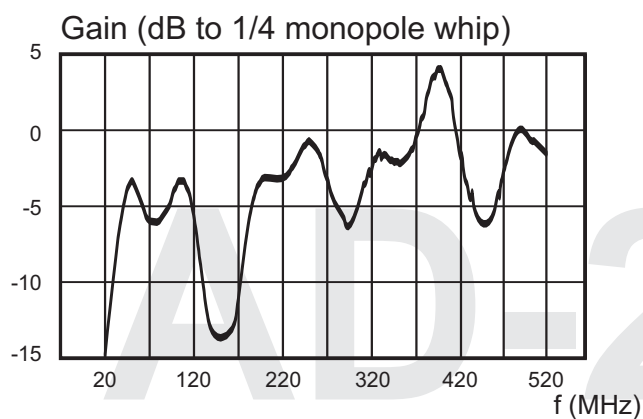
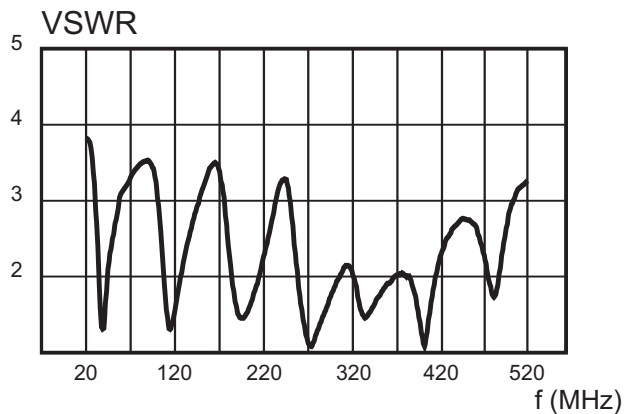
The antenna is composed of two main parts: antenna base and radiating element. The antenna base is made of aluminum and durable plastic materials. Inside the base is the matching circuitry and (optional) GPS antenna. Stainless steel spring absorbs the shocks and the vibrations, in addition protects the antenna against impacts, while the (optional) tilting mechanism enables to adjust the inclination radius of the antenna, when "on move", or if decided so. Radiating element is made of conical Stainless Steel rod enabling outstanding strength and flexibility in the most severe environmental conditions. The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle which complies with NATO standard (AS-1729). Different base plate dimensions are available on request. The antenna is in black color.

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| <b>ELECTRICAL SPECIFICATIONS - VHF:</b> |                                                      |
| Frequency range                         | 25 - 512 MHz                                         |
| Impedance                               | 50 ohms                                              |
| VSWR                                    | < 3,5 (see diagram)                                  |
| Gain                                    | see diagram                                          |
| Polarization                            | vert.                                                |
| Maximum power                           | 200 W CW                                             |
| Connector                               | N female                                             |
| <b>ELECTRICAL SPECIFICATIONS - GPS:</b> |                                                      |
| Frequency range                         | L1 1575.42 +/- 10 MHz                                |
| Impedance                               | 50 ohms                                              |
| VSWR                                    | < 2                                                  |
| Polarization                            | RHC                                                  |
| Gain (LNA)                              | 26 dB                                                |
| Noise fig.                              | 1.35 dB                                              |
| Power supply                            | 3 ... 5 V DC (max. 20 mA)                            |
| Connector                               | SMA female                                           |
| <b>MECHANICAL SPECIFICATIONS:</b>       |                                                      |
| Design                                  | End fed whip (VHF/UHF); patch antenna with LNA (GPS) |
| Height                                  | 1.95 m                                               |
| Weight                                  | 2.1 kg                                               |
| Surge protection                        | By surge arrester built-in the antenna base          |
| Temperature range - in use              | -40 ... +55 °C                                       |
| Temperature range - in stock            | -55 ... +75 °C                                       |
| Wind rating                             | 55 m/s (200 km/h)                                    |
| Color                                   | Black                                                |

**VERSIONS:**

AD-27/V190-3512: VHF/UHF antenna  
 AD-27/V190-3512T: VHF/UHF antenna with tilting mechanism  
 AD-27/V190-3512G: combined VHF/UHF and GPS antenna  
 AD-27/V190-3512GT: combined VHF/UHF and GPS antenna with tilting mechanism





Stainless Steel  
low profile  
conical radiator;  
black coated  
(upper diam. 2.5 mm;  
lower diam. 5 mm)

1950