

ANTENNAS FOR AEQ ARROW EQUIPMENT

AEQ ARROW equipment can be used with any commercial antenna as long as it is adapted to the VHF or UHF (between 174 and 500 MHz) frequencies defined for its use. To facilitate the choice, AEQ is offering 3 types of antennas for the most common uses of your program links.

BM-150

The BM-150 antenna, with magnetic base, is usually used as a transmitter antenna placed on top of the roof of moving vehicles.



YG-150/3

The YG-150/3 antenna, 3 element yagi type antenna, is usually used as a transmitter antenna placed in OB Vans over an adjustable and telescopic mast.



BJ2-185

The BJ2-185 omnidirectional antenna is usually used as a receiver antenna for studios and repeaters, placed over a mastl.



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ANTENNAS FOR AEQ ARROW EQUIPMENT

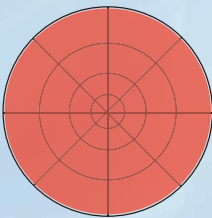
TECHNICAL CHARACTERISTICS

BM-150

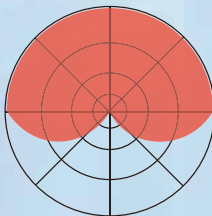
The magnetic base BM150 is a $\frac{1}{4} \lambda$ type antenna for frequencies from 146 to 470 MHz, mounted over a 90 mm diameter magnetic base, used for temporary installations or in places where drilling is not possible.

Five meters of RG-58 cable is supplied, with N connection (BNC or TNC connection on demand).

RADIATION DIAGRAMS



H PLANE



V PLANE

YG-150/3

The YG-150/3, is a Yagi type antenna, valid for transmission and reception, manufactured with high contrasted materials for outside use, such as aluminium alloy, stainless steel for the fastens and epoxy resin. This combination of materials constitutes a very light (2.1 kg) and resistant antenna.

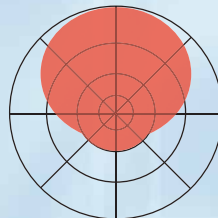
YG-150/3 MECHANICAL CHARACTERISTICS

- Connection: 1 meter of coaxial cable RG-213/U with N connector (BNC or TNC on demand)
- Construction: Aluminium alloy tube 6063T6
- Elements: 12.7 mm x 1.2 mm wall thick.
- Stand (Boom): 31.7mm x 2.6mm wall thick
- Fastens: Stainless steel A2-70
- Clutches: Zinc alloy.
- Isolator: Capsuled in epoxy resin
- Assembly clutch: for 50 mm diameter tube
- Protection: Direct to ground
- Weight: 2,1 kg.
- Boom length: 1 mt.
- Wind load: 107 N @ 45m/s.

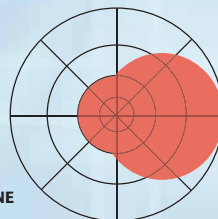
YG-150/3 ELECTRICAL CHARACTERISTICS

- Frequency range: 174-192 MHz.
- Impedance: 50 ohms.
- VSWR: <1,7:1.
- Maximum power: 50 W.
- Polarization: Horizontal or Vertical.
- Typical gain: 5,5 dBd.
- Front/Back ratio: 15 dB.
- Beam in horizontal plane: 84°
- Beam in vertical plane: 62°

RADIATION DIAGRAMS



H PLANE



V PLANE

BJ2-185

J-Antennas offer an omnidirectional reception ideal for studio receivers. Its high resistance glass fiber provides easy to install and strong stands. Ironworks included. The connector with connection cable is offered optionally.

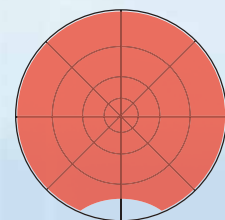
ELECTRICAL CHARACTERISTICS

- Antenna J type
- N connector (BNC or TNC connection on demand)
- Vertical polarization
- 50 Ohms impedance
- Max. Power: 150 W
- S.W.R. < 1,5
- Gain: 0 dBd
- Mounted over a 35-65 mm diameter mast

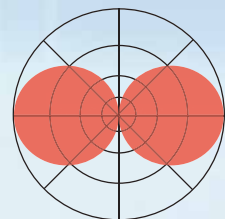
| Models | Frequency (Mhz) | Length (m) | Band wide (MHz) | Wind load 150 km/ h (N) | Weight (kg) |
|---------|-----------------|------------|-----------------|-------------------------|-------------|
| BJ2-185 | 185 | 1.7 | 5 | 50 | 1.5 |

Other frequencies on demand.

RADIATION DIAGRAMS



H PLANE



V PLANE