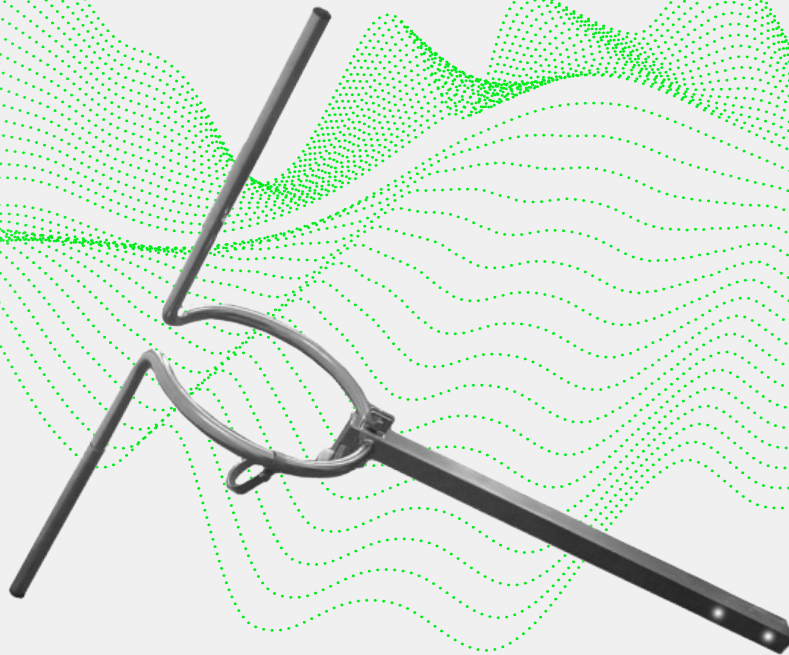


RFE

MAKING  
BROADCAST  
SMARTER

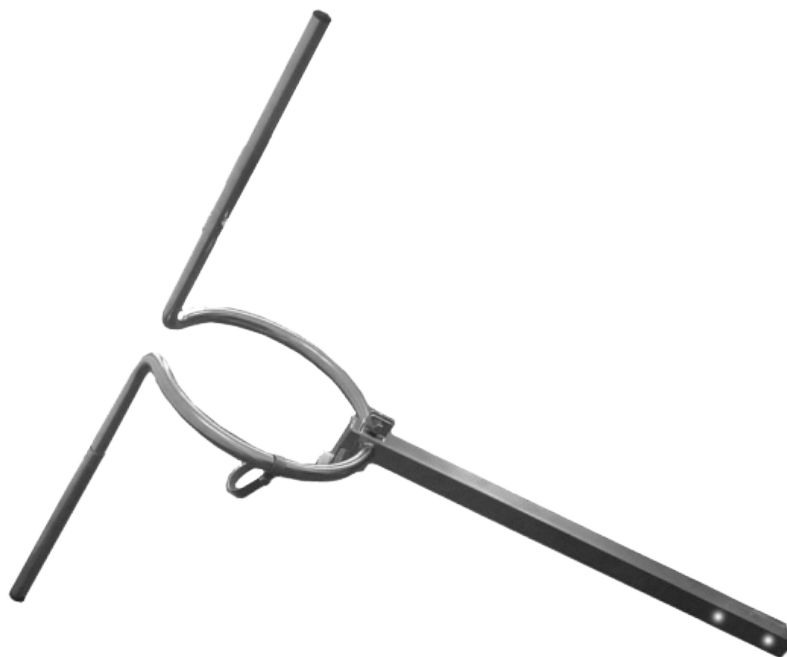
# Circular Light Dipole CPN

ANTENNA SYSTEMS



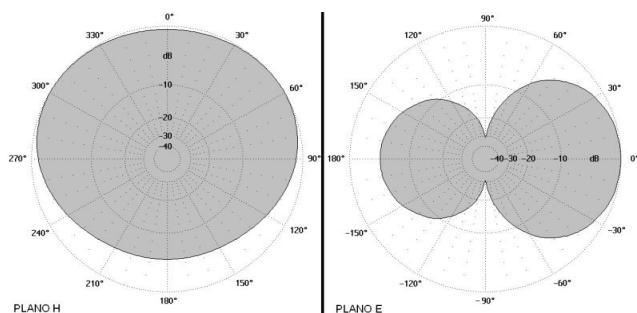


# FM Antenna CPN



## PRODUCT DESCRIPTION

CPN is a circular light dipole, with circular polarization and omnidirectional pattern. Ideal for low power broadcast application, it is great to fill the shadow areas.



## MAIN FEATURES

- 87,5-108 MHz, narrow band
- Easily tunable on the whole band
- Suitable for collinear stacks
- Robust construction in stainless steel
- Lightweight, easy to install
- Circular polarization
- Omnidirectional
- Low power
- Great to fill the shadow areas



**ELECTRICAL  
DATA**

<b>Frequency Range</b>	87.5 ÷ 108 MHz
<b>Band</b>	± 0.5 MHz [field tunable]
<b>Gain [Max ÷ Average]</b>	0.2 ÷ 0 dBd
<b>VSWR</b>	≤ 1.1 ± 500 KHz
<b>Half Power Beam</b>	E plane 90° — H plane 230°
<b>Polarization</b>	Circular
<b>Connector</b>	N or DIN 7/16
<b>Max Power Rating</b>	600 - 1kw
<b>Input Impedance</b>	50 Ω
<b>Lighting Protection</b>	DC Grounded

**MECHANICAL  
DATA**

<b>Size [A x B x C]</b>	970 x 985 x 312 mm
<b>Weight</b>	3.5 KG
<b>Wind Load [160Km/h]</b>	10 Kg @ 160 Km/h
<b>Max Wind Speed</b>	Front 200 Km/h — Side 200 Km/h
<b>Materials</b>	Dipole and screw.in stainless stel, silver plated inner line. Silicon o-ring. PTFE insulator
<b>Mounting</b>	Suitable for 25 to 70 mm mast
<b>Packing [AxBxC]</b>	400 x 1350 x 400 mm

**NOTE: RADIATION PATTERN AND HALF POWER BEAM WIDTH ANALYZED WITH TOWER INFLUENCE.**

N° OF BAYS	N° OF FACES	GAIN [dBd]	LENGTH mm
1	1	0	1500
2	1	3.0	4500
3	1	4.7	7500
4	1	6.0	10500
5	1	7.0	13500
6	1	7.7	16500
7	1	8.4	19500
8	1	9.0	22500
9	1	9.5	25500

**NOTE: ARRAY GAIN REFERRED TO ANTENNA AVERAGE GAIN.**

