

ABN00-32
Active Groundplane Antenna

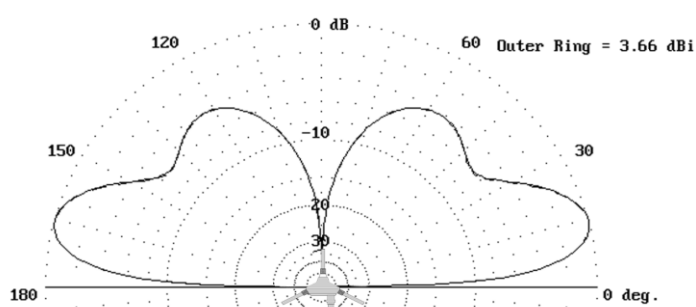
AGN00
Groundplane Antenna


The AGN00/ABN00-32 is a groundplane, vertical polarization omnidirectional antenna.

It comes already pre-tuned in the same frequency switching-window of the relevant wireless-microphone system.

The antenna is provided with a plug, suitable to assure its easy and strong mounting directly on a tripod stand or other support with standard 3/8" screw.

If necessary, the antenna can be also hanged (upside-down) over the shooting set. For the easy packaging of the antenna, its four elements can be unscrewed from the base. ABN has also an internal booster to compensate cables loss and powered with +12VDC on the cable.


TECHNICAL SPECIFICATIONS:

- Frequencies : **AGN00:** VHF (130 ÷ 250 MHz), switching-window = 25 MHz, UHF (470 ÷ 880 MHz), switching-window = 80 MHz
ABN00-32: UHF (470 ÷ 880 MHz), switching-window = 32 MHz
- Polarization : Vertical.
- Radiation : Omnidirectional.
- Connector : N type female
- Booster Gain: ABN] VHF 14.5 dB, UHF 11.5 dB
- Powering : ABN] +12 V, 120 mA (through the output coax cable).
- Body size : (diameter) 78 mm max.
- Length : AGN] 90mm, ABN] 258 mm (fixing plug included).
- Weight : AGN] approx. 800g, ABN] approx. 1.1 kg.



Elements - code and frequency range



In the below tables are listed the available frequencies range and the related code. The codes and ranges are separated according as the antenna works in transmission or reception system.

For transmission:

UHF band:

Code	Min [MHz]	Max [MHz]	Lenght L [mm]	Label
1	380	430	162,5	380÷430MHz
2	405	460	151	405÷460MHz
12	410	480	144	410÷480MHz
3	435	490	139	435÷490MHz
4	470	530	127,5	470÷530MHz CH TV 21/29
5	502	566	119	502÷566MHz CH TV 25/32
14	540	620	108,5	534÷622MHz CH TV 29/39
6	542	610	108,5	542÷610MHz CH TV 30/39
7	582	654	100,5	582÷654MHz CH TV 35/43
8	598	662	95,5	598÷662MHz CH TV 37/44
13	610	690	94	610÷690MHz CH TV 39/48
9	630	710	92	630÷710MHz CH TV 41/50
10	686	774	84	686÷774MHz CH TV 48/58
11	822	926	67	822÷926MHz

VHF band:

Code	Min [MHz]	Max [MHz]	Lenght L [mm]	Label
V1	135	151	485	135÷151MHz
V2	140	150	450	140÷150MHz
V3	150	160	437	150÷160MHz
V4	152	165	430	152÷165MHz
V5	160	170	415	160÷170MHz
V6	163	180	392	163÷180MHz
V7	172	195	373	172÷195MHz
V8	190	210	345	190÷210MHz
V9	203	227	315	203÷227MHz
V10	221	249	288	221÷249MHz

**For reception:**

- **UHF band: to manage the huge range 450-800MHz**

NEW RANGE

Code	Min [MHz]	Max [MHz]	Lenght L[mm]	Label
N1	450	570	125	450÷570 MHz
N2	550	680	98	550÷680 MHz
N3	660	800	80	660÷800 MHz

- **UHF band:**

Code	Min [MHz]	Max [MHz]	Lenght L[mm]	Label
B1	470	550	<u>125</u>	470÷550MHz B1 TV21/31
B2	520	590	<u>112</u>	520÷590MHz B2 TV27/35
B2A	500	600	112	500÷600MHz B2A TV25/37
B3	560	660	<u>99</u>	560÷660MHz B3 TV32/44
B4	630	730	<u>89</u>	630÷730MHz B4 TV41/53
B5	700	800	<u>78</u>	700÷800MHz B5 TV49/62
B6	770	870	<u>70</u>	770÷870MHz B6 TV58/70
B0+	450	530	130	450÷530
B1+	470	566	<u>125</u>	470÷566 MHz B1 TV 21/32
B2+	518	606	112	518÷606 MHz B2 TV 27/37
B3+	558	678	<u>98</u>	558÷678 MHz B3 TV 32/46
B4+	630	750	<u>88</u>	630÷750 MHz B4 TV 41/55
B5+	700	822	<u>75</u>	700÷822 MHz B5 TV 49/64
B6	770	870	<u>70</u>	770÷870 MHz B6 TV 58/70