



RF systems

Wideband Antennas

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RF Systems
DX500
 Active Antenna
 (Control unit also required)

Order #2042
 List Price: \$299.95
 Your Price: **\$269.95**

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The **RF Systems DX500** is a small active receiving antenna with a frequency range of 30 kHz to 550 MHz. It is powered by either a 12 Volt DC battery supply or optional DC power supply. The DX 500 antenna is very unobtrusive and can be mounted in nearly every situation thanks to a large range of optional mounting devices. Several indoor control boxes make it possible to connect the antenna to different receiver configurations, such as a shortwave receiver, a wideband scanner, a computer controlled receiver or up to three receivers to be used at the same time, whereby each receiver operates as though it is connected to its own independent antenna.

It is often difficult to place an antenna. For many modern buildings and apartments installing an antenna is either not allowed or the space available is limited. Wideband scanners and computer-controlled receivers with frequency ranges from long-wave through to UHF have created another problem: antennas with good reception on all frequencies over that enormous range do not exist. The DX500 antenna system is the solution for both these problems. The DX500 is a very small antenna, constructed as a stainless steel tube with a height of just 16 inches (40 cm) and a diameter of only 1.4 inches (35 mm). Several optional mounting brackets make it possible to mount the antenna nearly anywhere: on a balcony rail, a short mast, a wall, hanging on the balcony above yours, a rain gutter, a tilted plane like a windowsill or in front of a window. This antenna attracts little attention.

You **must order** one of the following indoor [control units](#) (sold separately):

The **DX 500/1** control unit has one wideband output for a single receiver, like a shortwave receiver, a scanner, a wideband receiver, a computer controlled receiver or any other receiver in the 30 kHz to 550 MHz frequency range. Output is a single BNC jack. The control units require 12 VDC.

The **DX 500/2** control unit has two outputs: one for a communications receiver for LW, MW and short-wave from 30 kHz to 32 MHz and the other with a range from 32 - 550 MHz for a scanner or other VHF - UHF receiver. Both receivers operate as if they are connected to their own antenna. The built-in duplexer ensures no mutual influence. Output is an SO239 for 30 kHz to 32 MHz and a BNC for 32-550 MHz.

The **DX 500/3** control has three outputs: output one for long-wave (and NAVTEX) from 30 kHz - 520 kHz, output two for medium- and short-wave from 520 kHz to 32 MHz and a third output from 32 MHz to 550 MHz. The built-in triplexer ensures that every receiver works as if it is connected to its own antenna. There is no need to connect all three receivers: the unit works also with one or two receivers. Output for

longwave is BNC, output for MW and SW is SO239 and output for VHF/UHF is IEC.

All indoor units are protected against short-circuits of the antenna cable and the outputs, and wrong polarization of the 12 V dc supply and high voltage spikes out of the 12 V supply. Every indoor unit has also a built-in filter which suppresses interference from the 12 Volt dc supply or the mains.

The DX500 is supplied with 39 feet (12 m) of antenna cable terminating to a solderless IEC plug that will fit into the antenna input of the various indoor antenna control units (sold separately). Cables from the control units to your radio/s and mounts are not supplied. Click here to view manufacturer's [DX500 system diagram](#).

Control Units | [Control Units with Photos](#)

Order #	Item	Output #	Jack and Frequency	Your Price	Order
#0717	DX500/1	Output 1	BNC 30 kHz-550 MHz	\$ 69.95	Order
#0593	DX500/2	Output 1 Output 2	SO239 30 kHz-32 MHz BNC 32-550 MHz	\$ 89.95	Order
#2209	DX500/3	Output 1 Output 2 Output 3	BNC 30 kHz - 520 kHz SO239 520 kHz-32 MHz IEC M 32-550 MHz	\$119.95	Order

Options

Order #	Model	Description	Your Price	Order
#1720	AK-2	Antenna mount for wall.	\$ 34.95	Order
#4189	STAND	Threaded vertical stand.	\$ 34.95	Order
#2074	DX500 EXT	Extension cable for DX500 50 foot (15 m) RG59.	\$ 44.95	Order
#3477	DX500 AMP	Dual band inline amp for DX500 [F to F].	\$119.95	Order
#1837	DX500 ATT	Attenuator (continuously variable). VIEW	\$ 99.95	Order

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DX500 Specifications

GENERAL

Frequency Range 30 kHz to 550 MHz

Polarization Vertical

Pattern Omni directional

PERFORMANCE

Gain +3 dB 30 kHz - 32 MHz, rising to +12 dB at 500 MHz

Noise Figure < 3.5 dB at 500 MHz

POWER

Power Required 12 volts DC, 85 mA max.

CONTROL UNITS

Voltage to Antenna 12 volts DC, 85 mA max

Hum and noise rejection >70 dB with respect to output voltage

PHYSICAL

Antenna Size 16 inches (40 cm)

Control Unit Size 4.7x4.6x2.2 inches (120x110x55 mm)

Specifications are subject to change without notice.

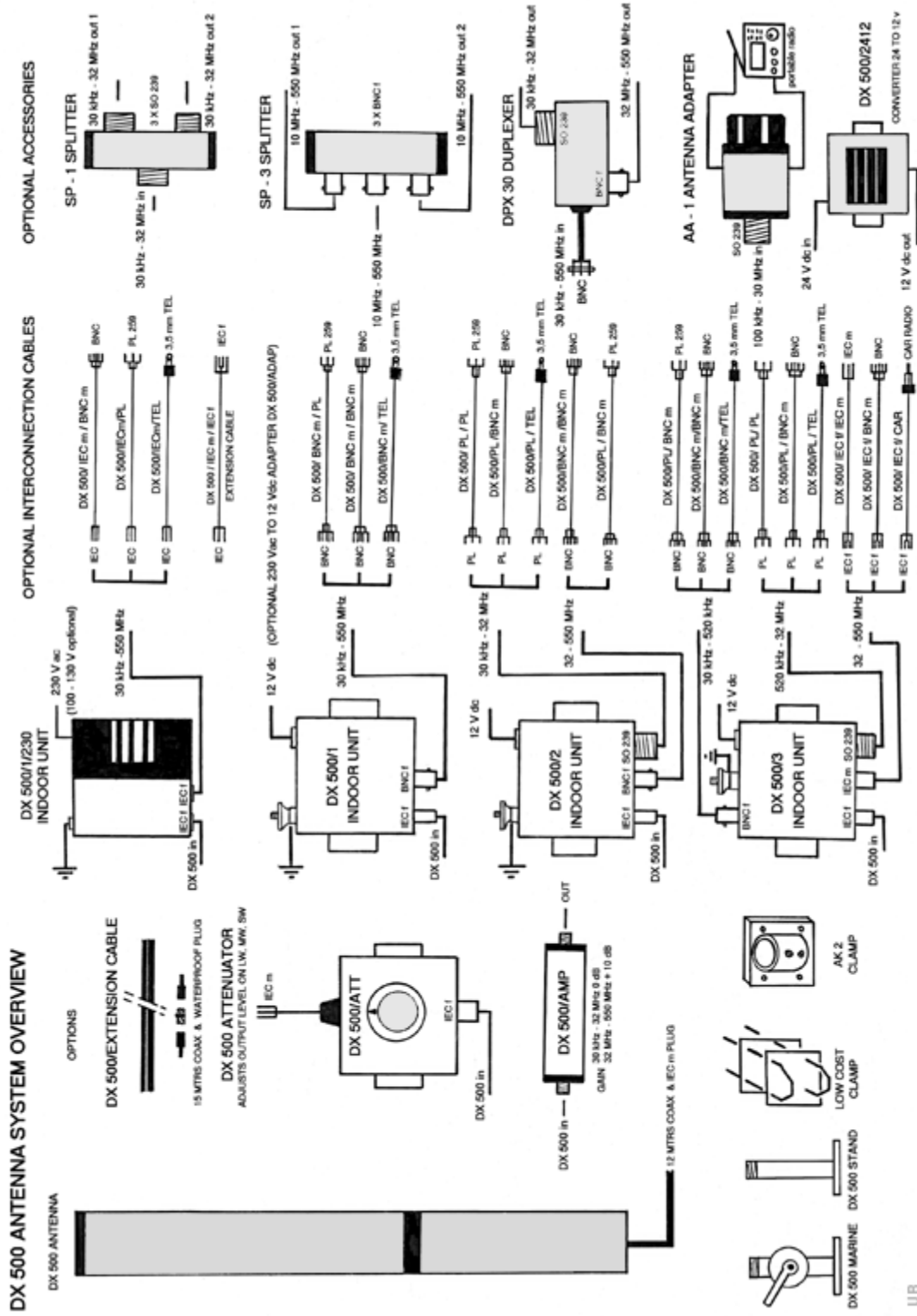
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Wideband Antennas

RF Systems DX500 System Diagram

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The RF Systems DX500 system can be configured in many ways using optional control units and accessories. Please note



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DX500 Control Units

Click image to view larger. These units require 12VDC (power cord is included).

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