



PRODUCT INFORMATION SHEET

Component Range Extender
Outdoor Antenna & Tuner

Part Number RE 2.5

Image



Description The Range Extender Outdoor Antenna and Tuner increases the effective signal range of an InfOspot (Talking House) Radio Transmitter from hundreds to more than a thousand feet by providing a simple, professional means of installing the transmitting antenna outdoors in a weatherproof package. The InfOspot AM Radio Transmitter System is unique as the only such license-free system certified under FCC part 15.219 with a variable length of coaxial cable in its approved design. The Range Extender Outdoor Antenna and Tuner are part of a complete InfOspot Radio System.

Specifications	Power	Up to 100 MW.
	Frequency	540-1700 kHz AM.
	Typical Signal Range	Up to 2500'. Varies with mounting height and environment. 20' mounting height recommended.
	Mounting Location	Top of mast, pipe or pole, allowing Tuner and Antenna to be positioned entirely above the mounting structure with no lateral obstructions.
	Coaxial Cable	RG6 (25' provided) with F attached connectors. May be extended up to 100'. Longer lengths are possible, based on frequency.
	Antenna	105" vertical antenna with 3" feedline (2.75 meters total). Vertical antenna: 1.0" tapering to 7/8". Aluminum tube, telescoping. Feedline: high flexibility; single, stranded copper conductor in PVC jacket. Ground line: not provided.

All products described are subject to availability based on manufacturing capacity and shipping dates. While every effort has been made to ensure the accuracy of all information, ISS does not accept liability for any errors or omissions and reserves the right to change information as needed. These specifications may be changed without notice.

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Antenna Insulators (2) Plastic, split block clamp design, 1.0" ID.

Antenna Mount



Aluminum "C" channel: H 10.5", W 2.5", D 1 3/16". With mounting holes (for flat surfaces) and strap slots (for pipe).

The Range Extender Antenna's universal channel mount can be attached to the top of various mounting supports, such as a pipe, as shown.

Antenna Tuner

Dimensions: H 8.0", W 4.5", D 2.75".

Construction: polycarbonate with see-through access door, lockable.

Controls: RF meter, frequency range switch, tuning control.

Connections: coax (F) connector, antenna bolt, lightning ground bolt.

Includes hardware for integration with Antenna Mount.

Hardware

Stainless steel and/or corrosion resistant.

Exposed Parts

Aluminum.

Certification

Made in the USA. Talking House FCC Certification DLB5LTT98.

FCC License

Not required if installed per FCC Rules Part 15.219.

Illustrated Instructions

Included.

Shipping Weight

7.0 lbs with cable and packaging, one container.

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Installation



The InfOspot Range Extender Outdoor Antenna and Tuner must be mounted to the very top of a pole or mast that extends above a support structure 3-5 feet (minimum.) It should not be side-mounted directly to a support structure (wall, tower leg, gable, etc.), allowing the antenna to parallel the support structure. The antenna itself also should not be allowed to parallel the mast or pole to which it is attached (see 2nd image from left, above). This will cause the antenna’s signal to be dissipated into the mast or pole.

For example, attaching the Range Extender Outdoor Antenna and Tuner to a short stub just above a support structure (roof, far left), or alongside a wall, eave, or gable, can yield less-than-ideal results. Instead, attach it to the top of a mounting pole or mast (two photos on the right) which allows the tuner and antenna to be raised fully above the support structure.

In the above examples, the reported range was less than 100 feet when installed on the short stub (left photo); but when raised up and attached to a mast at the same location (far right photo), the signal could be detected more than a half mile down the road and covered the immediate property well.

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