



Sales price £899.99

Sales price without tax £749.99
Tax amount £150.00

XR3 - 6 element 3 band HF Yagi (20/15/10) with 3.1m boom

Description

Review by QST magazine on our US version can be found HERE

COMPACT VERSION OF THIS ANTENNA XR3C with CAPACITY LOADED 20M ELEMENTS ONLY 8.8M / 29' WIDE! SEE HERE

The XR3 MkII - A 6 element HF tri-bander Super-compact Yagi covering 20m/15m/10m bands with a single feed point.

The XR3 is a remarkable Tribander, expertly designed for the 20m, 15m, and 10m bands. Setting a new standard in antenna efficiency, it combines full-sized elements with an innovative design that eliminates the need for any matching device. This unique combination not only maintains the antenna's full radiating potential but also elevates its efficiency to class-leading status. The absence of components like hairpins or coils simplifies its setup, making the XR3 a standout choice for users who value both performance and ease of use.

Moreover, the XR3 stands out as a super-HD (Heavy Duty) antenna. It is constructed with large diameter tubing, boasting a 50mm square boom and 35mm diameter elements at the center of the 20m band. This robust build makes the XR3 exceptionally strong and durable, a unique feature among InnovAntennas' offerings, setting it apart from other brands.

Despite its substantial construction, the XR3 maintains a compact profile with a boom length of just 3.1m (10 feet). Its design prowess and build quality make it a top choice for users seeking a powerful, convenient, and efficient Tribander.



The full sized and super-compact XR3 installed at ZL2BMH

A customers words can say much more about an antenna than we can!

"I give this XR3 100/100. It performs as quoted, it's a joy to use as the external tuner is now of not needed. At last, an antenna that has been built for those of us who get real winds (Gale force) constantly. The XR3 sits atop a 33ft mast within a city and sits like John Wayne on his horse. At last, no more worrying at night about the movement of my antenna.

Using clamps is a gem of an idea. My last antenna, with screws, after a few gale force nights, the odd elements had to be found (usually in the neighbours which is not good advertising for amateur radio).

Finally quality. Obviously made from really tough, strong aluminium. A joy to behold.

I would without any doubt what-so-ever, talk or even 'use force' ? if necessary, steer any ham, young or old, new or experienced who is after a

10,15 and 20 meter (Tribander), Yagi, towards the InnovAntennas 6 Element XR3.

Justin, if you were a girl I'd throw you a kiss. You have been in a word 'tremendous'. I just hope I have to buy something else from you now. Being extremely disabled you don't want the added worry of your antenna breaking or just simply something going wrong, as I have to rely on others to do what I can't. Sometimes this is very hard to ask people to do. With this antenna, the worry has gone. Wow, what a feeling.

Jim Irving ZL2BMH"

The XR3 MkII - The InnovAntennas XR3 MkII - An 6 element multi-band 20m, 15m, 10m Super-compact Yagi with a single feed point.

Unique in the Market

The XR3 MkII provides 3 HF bands of 20/15/10 to match today's HF rigs and give excellent performance on all bands. with a boom of just 3.1m and weighing under 20 Kilos, this antenna has created its own place in the 'full size' HF Beam market.

Unlimited Power Handling

The XR3 MkII has no matching devices, no traps, no coils, no hairpins so nothing to lose valueable power and thus, nothing to over-heat through these inefficient devices. This means the only power limitation you have is how much power your coax cable can handle.

The Ideal partner for SDR Radios

The XR3 MkII is an ideal partner for today's top SDR radios. There is no limitation in how many bands you can monitor or use at once. This means with products such as the Flex 6700, all 6 bands can be monitored at the same time **WITHOUT COMPROMISE**.

Improved Performance

The XR3 MKII has been in development for the last 12 months improving bandwidth and gain to ensure more of each band than ever before can be used without the requirement of an ATU.

Multi-band, Performance-Busting Design

The more bands there are added to a multi-band Yagi, the more interlaced elements there are and in turn, performance per band drops with each no band added. The Unique design of the XR4 MkII means no more than 3 band are interlaced on any part of the boom.

Increased Rigidity

We have modified the construction of the XR3 MkII to provide a more rigid look with faster taper to ensure fatigue due to vortex shedding (constant wind flow causing vibration) are not an issue. 20m element start at 35mm diameter and boom is 50mm diameter.

Excellent All-Weather handling and reliability

With no moving parts and being modelled for wide bandwidth per band, the XR3 MkII is very forgiving in all weathers allowing you to enjoy your hobby whatever the location or time of year.

Maintainance Free

Icom North America and **Kenwood UK** changed their HF antennas to 'XR's' to ensure reliability and remove the need for maintenance. If you don't want to be climbing the tower each year to fix stuff, the XR3 MkII is for you.

The Right Materials for the Job

The XR4 MkII standing on it's own in terms of quality. built using the latest CNC technology, all components are at the top of their field too. Our insulators are UV protected and handle -170 to +240 degrees C, our hardware is Marine Grade Stainless Steel and our aluminium aerospace grade T6 6066/6082.

Technical Specification

Turning Radius: 19'3" / 5.86m

Boom Length: 9.9'' / 3m

Projected area: 11.56 SqFt /1.05SqMtr

Average Gain per band @ 20m above average ground: 11.24dBi

Power Rating: **10kw+**

Boom Length: 3.1 Metres

Weight: 30Kg

Wind Loading: 1.2 Square Metres

Wind Survival: up to 175KPH / 115MPH

Other options available if higher wind loading/survival is required.

Stacking Distance: 7 - 12m (11m recommended)

Specification

The boom is made from 50mm diameter square tube with a wall thickness of 2mm and thus is super-rigid. The largest diameter elements are the 20m elements which are 35mm diameter in the centre (with 2mm wall) tapering quickly to 13mm. Marine grade stainless steel is used throughout our antennas, no guying or boom truss is needed with this antenna.

Our antennas are constructed with the best quality materials in order that the best mechanical construction can be achieved, not the cheapest and most profitable!

Note: Much development time has gone into our antennas, not just on basic electromagnetic design, we are able to model the effect of insulators, booms and other objects to ensure the make up of our antennas have least effect on performance and pattern degradation. More information can be found here

- Marine grade Stainless Steel Fittings*
- Original Stauff Insulation clamps
- Mill finished boom and elements for highest levels of accuracy

Customer Comments:

"First major impression what an awesome construction this antenna is the best I have ever had the pleasure and experience to assemble.

Construction wise its bomb proof, I don't mean that literally but that's what I thought.

First up I doubted as to whether 2 elements would compete with the 3 element trapped Yagi.

Boy was I so wrong the XR3C is awesome my signal reports are so far in excess of the 3 Element Yagi ever were.

Yes its early days yet, more feed back will follow plus pictures when I get time.

My main consideration about the XR3C was its dimensions.

But when you put cap hats on the 20 meter band it reduces the longest element length down to 29 feet.

Compare that to my trapped Yagi which the longest element is 27 feet.

And as amateurs we all well know traps are very lossy.

One final point on what I have found is the front to back is far in excess of what Justin's spec says minus 4 and a bit S points down.

And that check has been carried out on both 15 & 20 meters with quite a lot of stations.

Also I got a report from USA 5 9 + using 10 watts wow.