



## **Installation instructions for the 21 elements 70 cm beam 21EPS435**

***This antenna has a gain of 14,4 dBd SWR < 1,2:1***

### **Partlist:**

3 boomparts 1,2 and 3	1 support
1 radiator Ø 12 mm	20 elements, roundØ 5 mm
1 mast clamp, ass'y	1 gamma match
1 gamma-adjustmentset	20 staffclips
20 pieces stainless steel screw M4x30	20 stainless steel wingnuts
8 pieces stainless steel screw M4x40	10 pieces stainless steel nut M4
1 pieces stainless steel bolt M4x32	2 pieces cylinder head screws M3x20
1 endcap Ø 10 mm	1 pieces cylinder head screw M4x20
2 endcaps Ø 12 mm	4 end caps, square 15 mm
1 Bridge	

Check first of all, before you begin the installation, the contents of this package.

Boom 1 is the first part of the antenna and the intermediate length, boom 2 is the middle section and is the longest part, boom 3 is the shortest and is the posterior part anywhere on the radiator is mounted. The order of the elements is back to front descending in length.

Tap the elements in the staff clips so that they are exactly in the middle, then put the elements in order for you down.

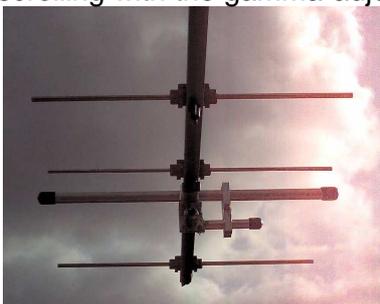
Mount the radiator and the gamma match, with the N-type connector, by the forward on boom 3 this scroll and with the bridge M4x32 bolt and nut M4 below, the angle bracket with N-type connector of the gamma match fixing on the other side of the boom and nut M4, then mount the M4x20 with reflector (this is the longest element) on the boom behind the radiator with the power cord and staff with a forward pointing M4x30 bolt and stainless steel wingnut (bolt is so for the element). Mount then D1 to D7 on this boom, now there are 2 holes, these are used to assemble the parts put together with the support.

Put boom 2 for you down, mount this with D8 to D13, please check the arrow on this section, this gives the radiation direction, beware: stay 2 drill holes on each side, these are free again to assembly the antennasparts to each other.

Now lay down for you boom 1, let the first two holes free, mount now D14 t/m D19 on this boom.

Now you can mount the 3 antennaparts together with screws M4x49 and nut M4.

The mastclamp with 2 clamps to the support, the end caps put out and then you can fine tune the SWR by scrolling with the gamma-adjustmentset, beginning with the match ca 42 mm measured heart to heart.



Dipole construction 21EPS435