MAGNETIC LOOP ON LED TV STAND (Daniele IW3SOQ)

Francais - Deutsch - Español (traduced by IU5OMW Marco)

The construction and use of magnetic loop antennas is certainly nothing new for those who, like me, practice QRP both indoors and outdoors.
It is a simple loop with a diameter of 80 cm, with a counter loop of 16 cm and a variable capacitor of 50 pf.

The main loop is made from a 'Hula Hoop' with a thick copper cable running through it.
The same type of cable has been used for the counter loop, due to its ability to maintain a certain rigidity, but a piece of Cellflex would also work well.

For practicality and tidiness, I connected the coaxial cable directly to the counter loop inside the junction box, protecting and securing everything with hot glue.

The operating frequency ranges from 14 MHz to 28 MHz, tunable with a variable capacitor.
The unique feature of my creation is the use of a sturdy pedestal recovered from a former 32" LED TV as the base for the antenna system.

Weighing approximately 4.5 kg and with an overall size of 50 cm x 25 cm, it provides a solid support with the possibility to rotate the antenna manually. It can be used indoors on a table or, why not, outdoors in the garden.

The first tests carried out in CW on the 20 metres HF band immediately gave me excellent results with feedback from the Reverse Beacon Network from all over Europe, considering that I was transmitting indoors on my kitchen table with a power of 5 watts.

Concerning QSOs, I have made several of them at 14,060 with friends from the British GQRP, with great satisfaction and exchange of experiences in this field.
To finalise my project, I just plan to add a reduction gear system to facilitate the delicate frequency tuning with the variable capacitor without necessarily needing a surgical hand. Hi! '
73 from IW3SOQ – Daniele – Circolo ARS ALTO FRIULI