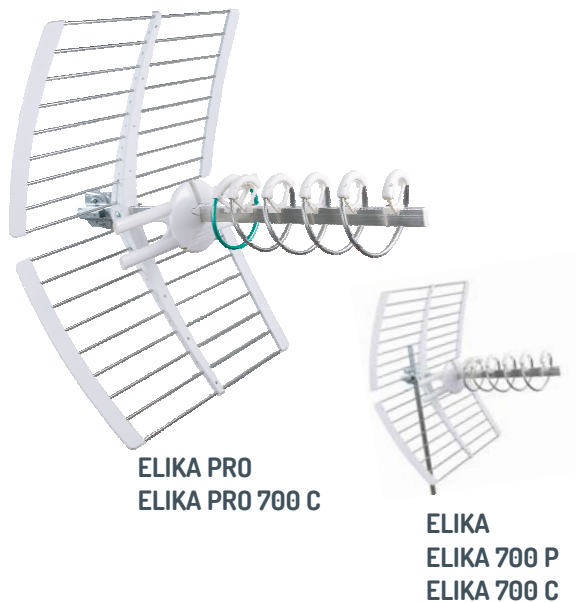


## UHF LTE Aerials

## ELIKA Series



The **ELIKA PRO** is an **active helical UHF aerial** complete with F connector and an LED alignment system. It is an evolution of the Loop Yagi technology, already adopted and patented for the previous Sigma series. It is also available as a passive version, without the LED alignment. (**ELIKA**).

The ELIKA series can be mounted on a **pole without the need for tools** thanks to its premounted elements, quick coupling radiator and reflectors, mast connector with standard zenith adjustment and large wingnut.

These aerials benefit from a **built in LTE filter** within the dipole, high gain, excellent directivity and almost total absence of side lobes.

**Exclusive design patented by Fracarro.**

### Main Specifications

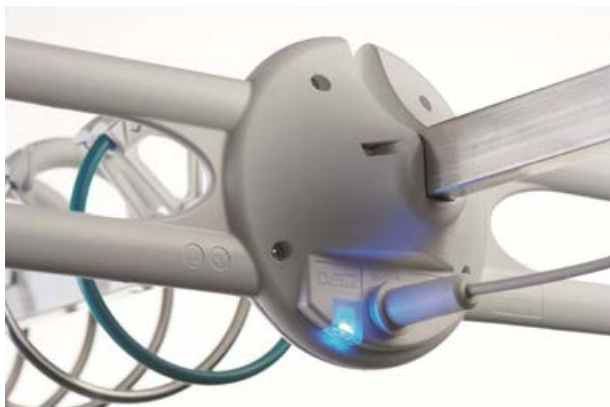
- The ELIKA PRO is an **active helical UHF aerial**, complete with F connector and an LED alignment system.
- The ELIKA Series can be mounted to a pole **without the need for tools** thanks to its premounted elements and quick coupling radiator and reflectors.
- Special attention has been paid to raw materials, to obtain higher strength and an innovative and exclusive design, **patented by Fracarro**.
- **High gain, excellent directivity** and almost total absence of side lobes.
- **Innovative mast connector** with standard zenith adjustment and chequered surface which enables an optimum pole grip and large wingnut to secure it without the need for tools.
- This aerial benefits from a **built in LTE filter** within the dipole to guarantee high signal quality and excellent LTE filtering.



Director elements with an **innovative helical shape**, an evolution of Loop Yagi technology, previously used in the Sigma series; which has a **Fracarro Patent**

- **Excellent gain**
- **High directivity**

# The first aerial on the market with LED assisted alignment



Easy LED assisted alignment system with Automatic Gain Control (AGC)

## AERIAL ALIGNMENT POWERING

ELIKA PRO can be powered by connecting it to a smart phone equipped with OTG (On The Go) technology or a power bank connected using a **smart F connector**.

For normal use the aerial needs to be powered by DC voltage between 12 - 24V using a short circuit protected power supply. **If the antenna is not powered, the ELIKA PRO will work in the passive mode.**

## ALIGNMENT

Aligning the ELIKA PRO is easy: when the LED is at its brightest, the aerial is in the optimum position:

- LED on (high brightness): HIGH input signal level.
- LED on (medium brightness): MEDIUM input signal level.
- LED off: LOW input signal level (or antenna not powered).

## The LED can be used to correctly align the aerial:

- Once installed, align the aerial towards the TV transmitter and the LED will light up.
  - To get the optimum signal quality rotate the aerial left and right identifying the circular sector (pointing angle) in which the LED is lit with maximum brightness.
- Place the antenna in the centre of the circular sector and this will give you the best reception for perfect viewing.

## AUTOMATIC GAIN CONTROL

This antenna has AGC which maintains a balanced output level, even when the input signal varies.

| PRODUCT                                      |        | ELIKA        | ELIKA 700 P  | ELIKA 700 C  |
|----------------------------------------------|--------|--------------|--------------|--------------|
| Fracarro code                                |        | 213226       | 213228       | 213229       |
| Band                                         |        | UHF          | UHF          | UHF          |
| Channels                                     |        | E21-E60      | E21-E48      | E21-E48      |
| Bandwidth                                    | MHz    | 470-790      | 470-694      | 470-694      |
| Gain                                         | dBi    | 17.5         | 17           | 17           |
| Front-to-back ratio                          | dB     | 32           | 32           | 32           |
| Return loss                                  | dB     | -18          | -18          | -18          |
| Beamwidth (-3dB)                             | °      | ±18          | ±22          | ±22          |
| Wind load at 120 Km/h (720N/m²)              | Kg (N) | 19 (186.2)   | 19 (186.2)   | 19 (186.2)   |
| Connector                                    | Type   | F            | F            | F            |
| Impedance                                    | Ohm    | 75           | 75           | 75           |
| Max. mast diameter (Ø)                       | mm     | 60           | 60           | 60           |
| Dimensions                                   | cm     | 92 x 82 x 62 | 92 x 82 x 62 | 92 x 82 x 62 |
| Single packaging                             |        | Plastic bag  | Plastic bag  | Box          |
| Multiple packaging quantity                  | Pcs    | 8            | 8            | 6            |
| Unit weight                                  | Kg     | 2.30         | 2.30         | 2.30         |
| Total weight with packaging                  | Kg     | 23.00        | 23.00        | 18.00        |
| <b>Accessories</b>                           |        |              |              |              |
| Horizontal polarisation                      |        | Included     | Included     | Included     |
| Horizontal polarisation with tilt adjustment |        | Included     | Included     | Included     |
| Vertical polarisation                        |        | Included     | Included     | Included     |
| Vertical polarisation with tilt adjustment   |        | Included     | Included     | Included     |
| Auxiliary boom                               |        | N/A          | N/A          | N/A          |

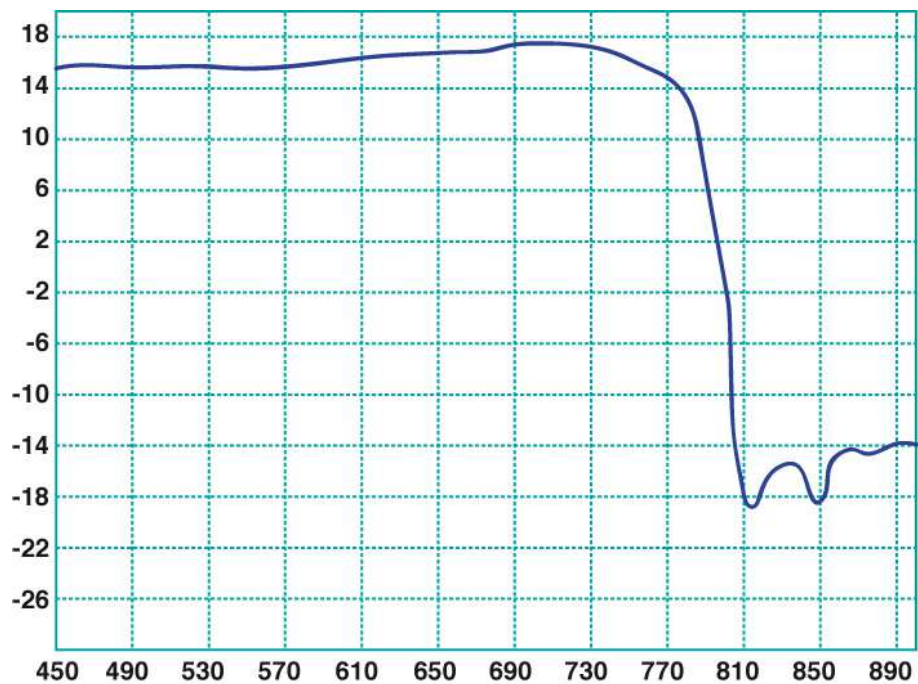
| PRODUCT                                      |        | ELIKA PRO    | ELIKA PRO 700 C |
|----------------------------------------------|--------|--------------|-----------------|
| Fracarro code                                |        | 213227       | 213231          |
| Band                                         |        | UHF          | UHF             |
| Channels                                     |        | E21-E60      | E21-E48         |
| Bandwidth                                    | MHz    | 470-790      | 470-694         |
| Gain                                         | dBi    | 47.5         | 47              |
| CAG dynamics                                 | dBμV   | 65-80        | 65-80           |
| Fixed output level                           | dBμV   | 98           | 98              |
| Power voltage                                | V      | 12-24        | 12-24           |
| Max. current absorption                      | mA     | 45           | 45              |
| Front-to-back ratio                          | dB     | 32           | 32              |
| Return loss                                  | dB     | -15          | -15             |
| Beamwidth (-3dB)                             | °      | ±18          | ±22             |
| Wind load at 120 Km/h (720N/m²)              | Kg (N) | 19 (186.2)   | 19 (186.2)      |
| Connector                                    | Type   | F            | F               |
| Impedance                                    | Ohm    | 75           | 75              |
| Max. mast diameter (Ø)                       | mm     | 60           | 60              |
| Dimensions                                   | cm     | 92 x 82 x 62 | 92 x 82 x 62    |
| Single packaging                             |        | Plastic bag  | Box             |
| Multiple packaging quantity                  | Pcs    | 8            | 6               |
| Unit weight                                  | Kg     | 2.30         | 2.30            |
| Total weight with packaging                  | Kg     | 23.00        | 18.00           |
| <b>Accessories</b>                           |        |              |                 |
| Horizontal polarisation                      |        | Included     | Included        |
| Horizontal polarisation with tilt adjustment |        | Included     | Included        |
| Vertical polarization                        |        | Included     | Included        |
| Vertical polarisation with tilt adjustment   |        | Included     | Included        |
| Auxiliary boom                               |        | N/A          | N/A             |

# ELIKA

GAIN

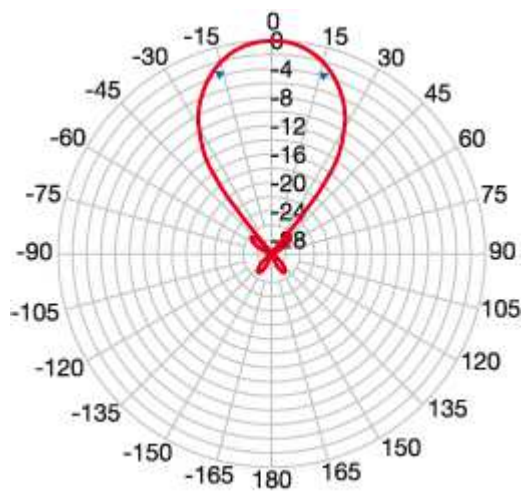
X: frequency MHz

Y: gain ISO dBi



DIRECTIVITY

@790MHz

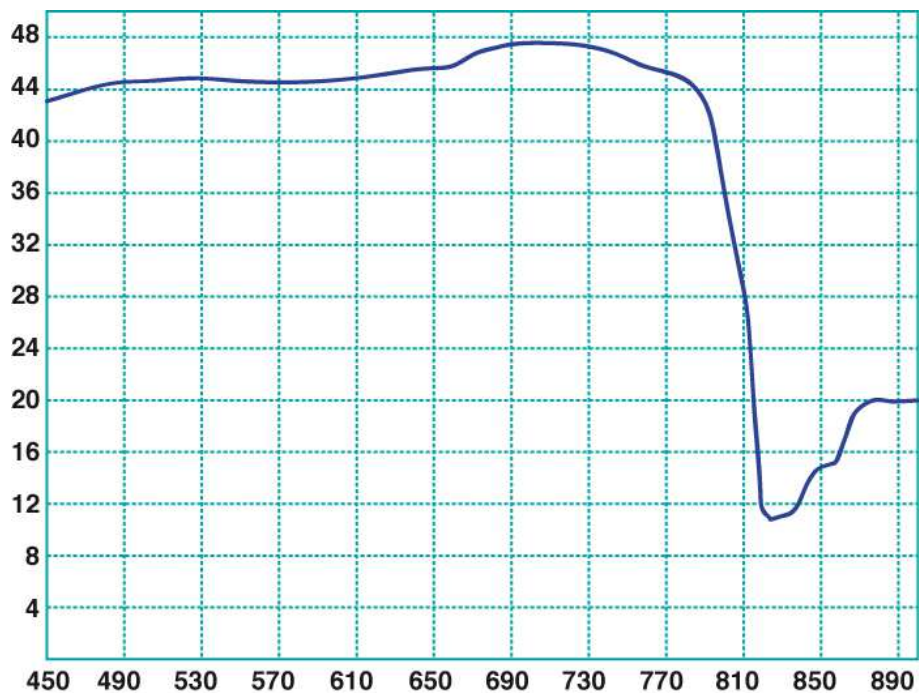


## ELIKA PRO

GAIN

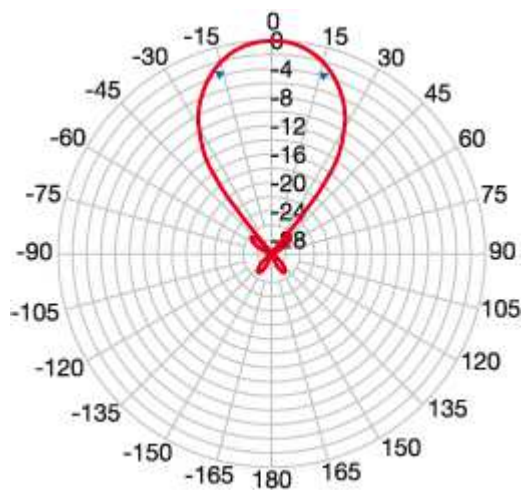
X: frequency MHz

Y: gain ISO dBi



DIRECTIVITY

@790MHz

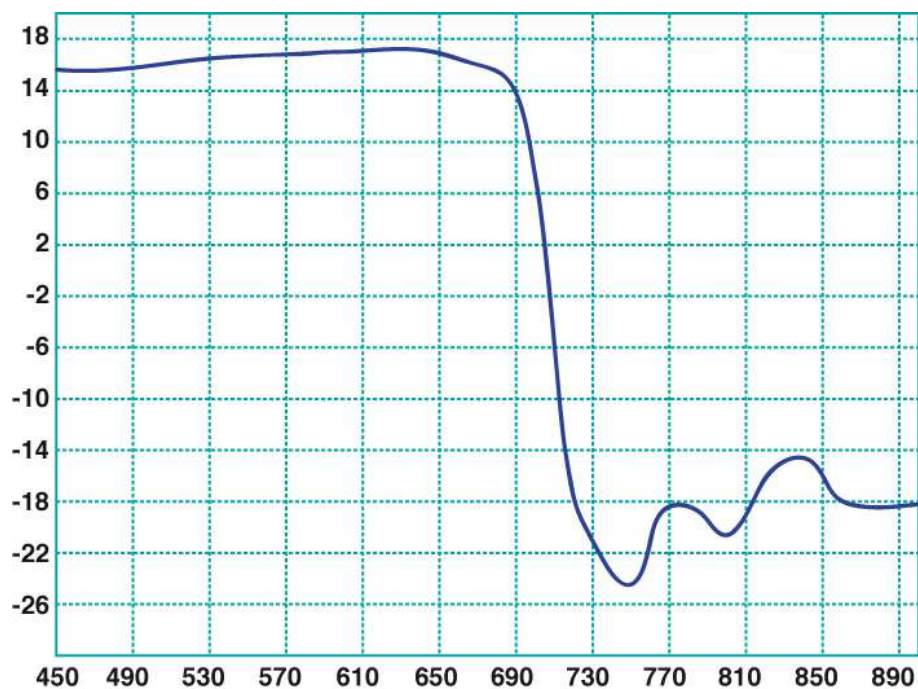


ELIKA 700 P  
ELIKA 700 C

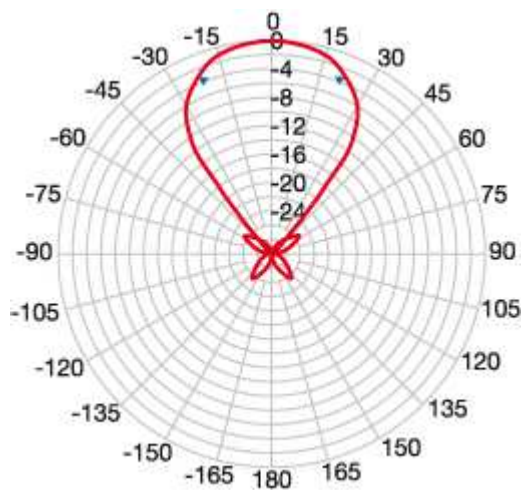
GAIN

X: frequency MHz

Y: gain ISO dBi



DIRECTIVITY  
@600MHz

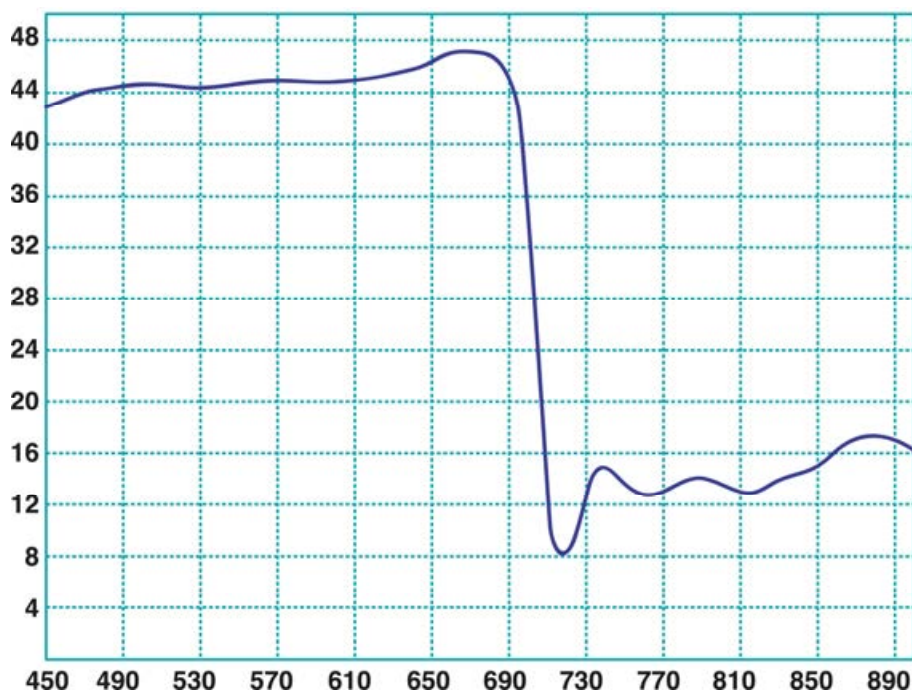


ELIKA PRO 700 P  
ELIKA PRO 700 C

GAIN

X: frequency MHz

Y: gain ISO dBi



DIRECTIVITY  
@600MHz

