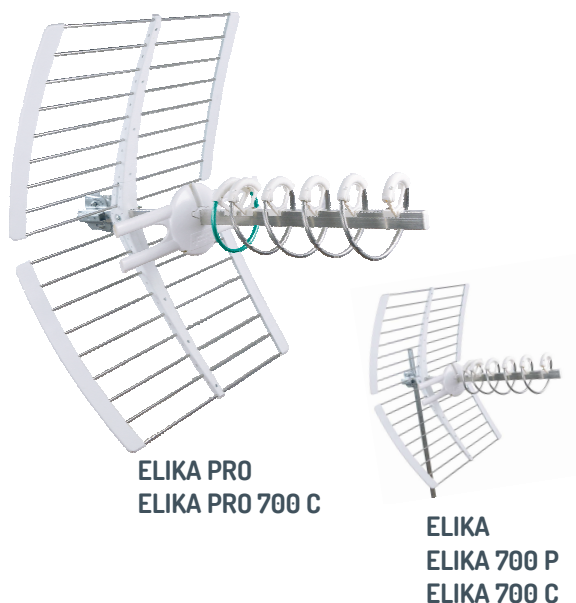


UHF LTE Aerials ELIKA Series



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

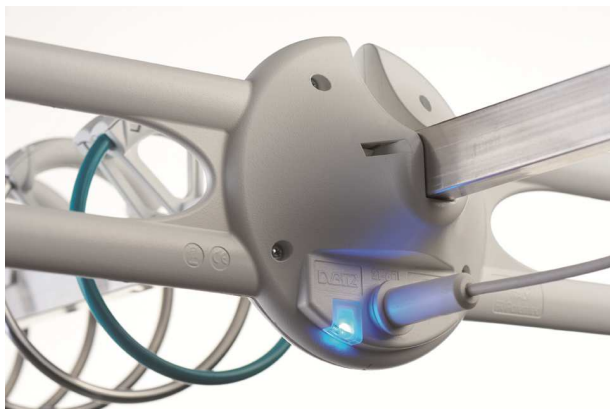
- The ELIKA PRO is an **active helical UHF aerial**, complete with F connector and an LED alignment system.
- The ELIKA Series can be mounted to a pole **without the need for tools** thanks to its premounted elements and quick coupling radiator and reflectors.
- Special attention has been paid to raw 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.



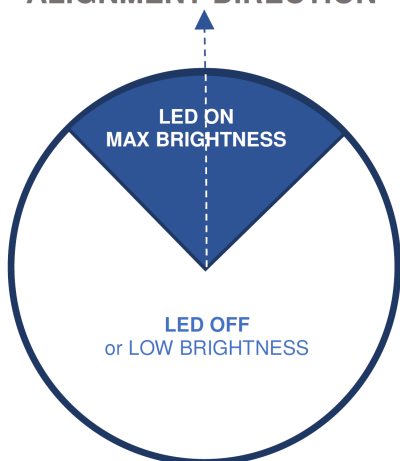
Director elements with an **innovative helical shape**, an evolution of Loop Yagi technology, previously used in the Sigma series; which has a **Fracarro Patent**

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

The first aerial on the market with LED assisted alignment



ALIGNMENT DIRECTION



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
Accessories				
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

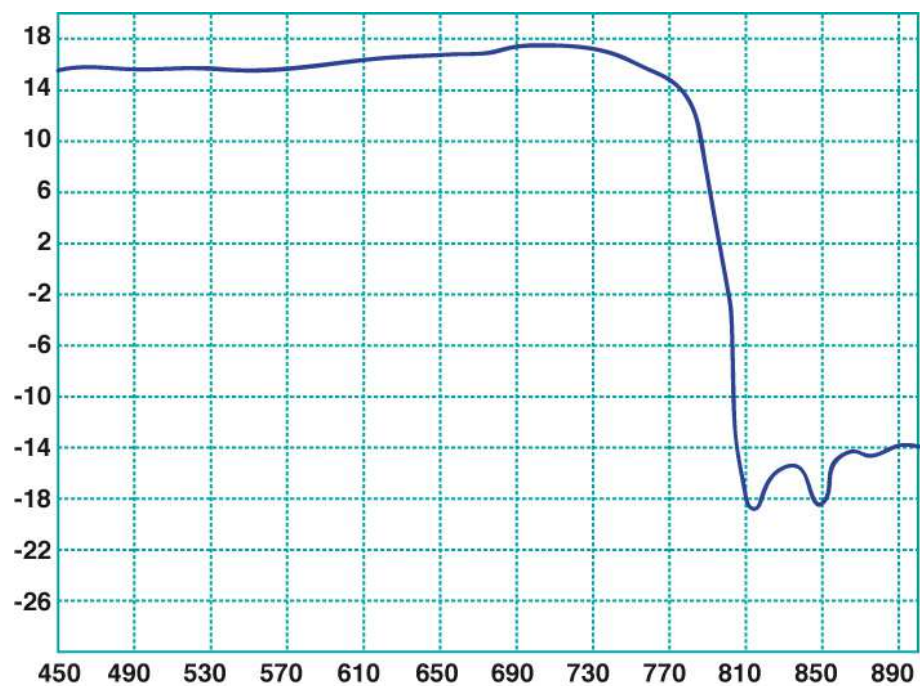
PRODUCT		ELIKA PRO	ELIKA PRO 700 C
Fracarro code		213227	213231
Band		UHF	UHF
Channels		E21-E60	E21-E48
Bandwidth	MHz	470-790	470-694
Gain	dBi	47.5	47
CAG dynamics	dBµV	65-80	65-80
Fixed output level	dBµV	98	98
Power voltage	V	12-24	12-24
Max. current absorption	mA	45	45
Front-to-back ratio	dB	32	32
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
Accessories			
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

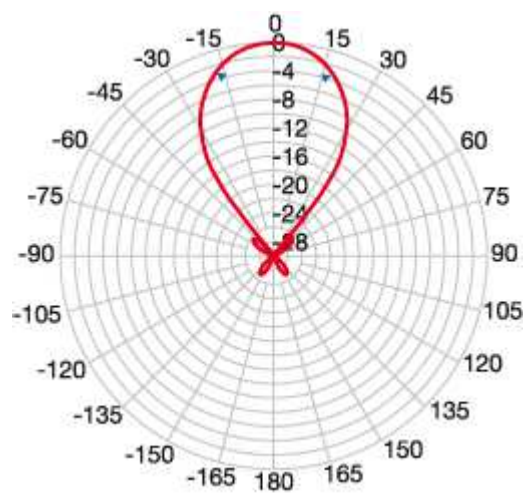
X: frequency MHz

Y: gain ISO dBi



DIRECTIVITY

@790MHz

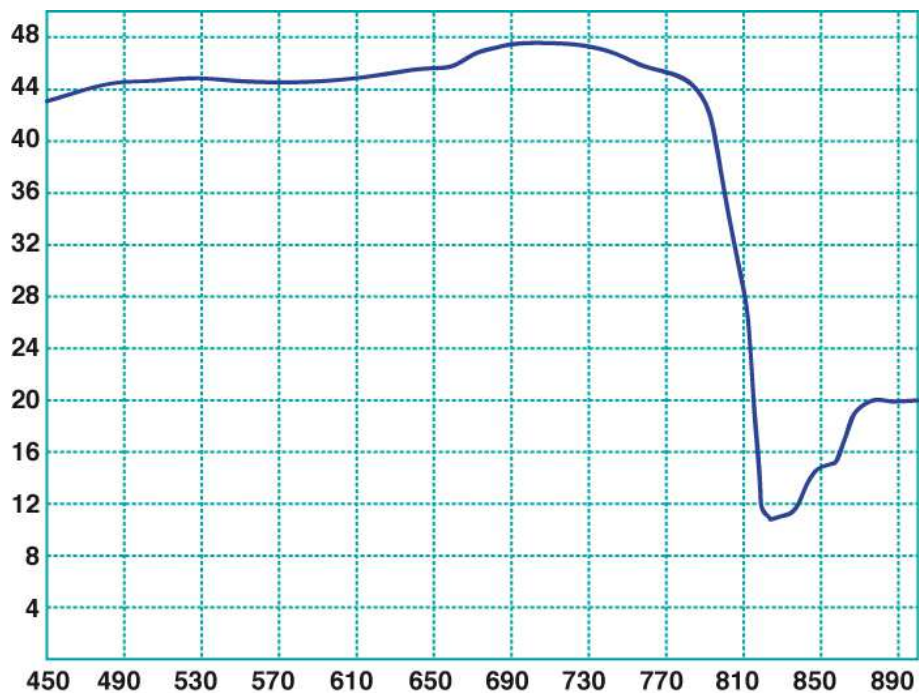


ELIKA PRO

GAIN

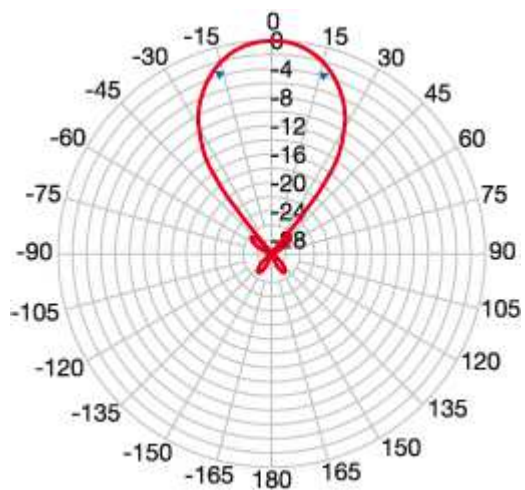
X: frequency MHz

Y: gain ISO dBi



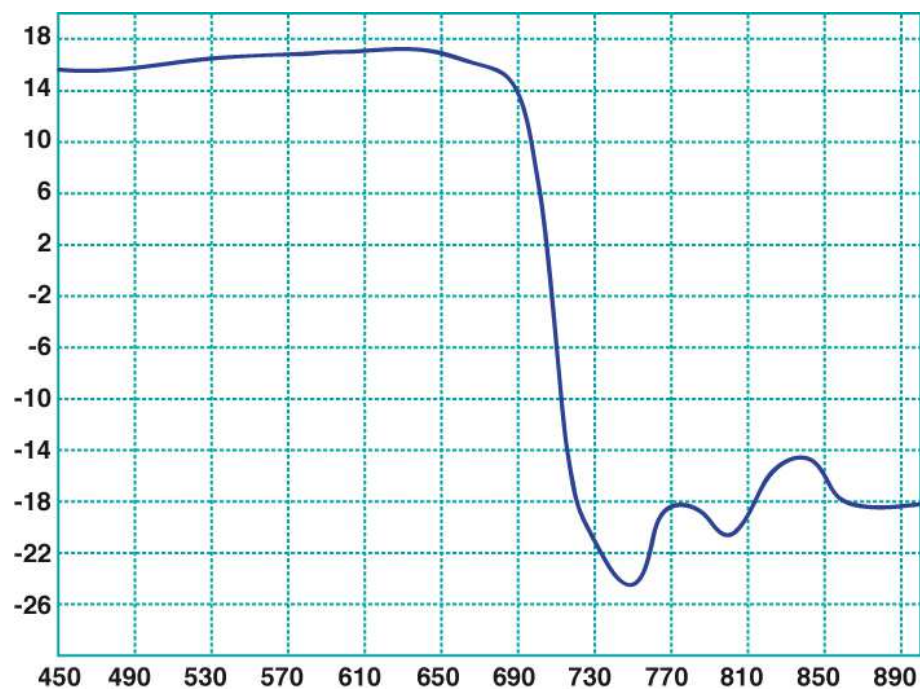
DIRECTIVITY

@790MHz

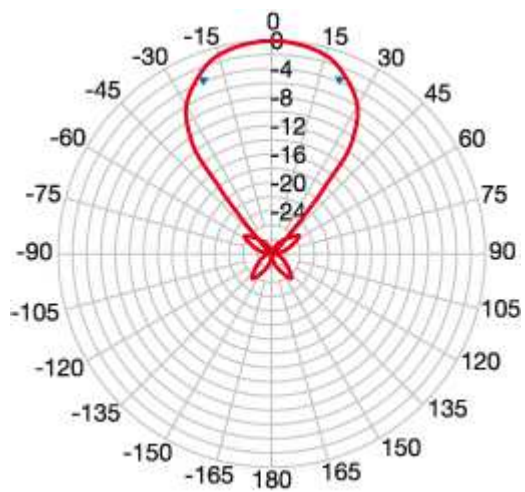


ELIKA 700 P
ELIKA 700 C

GAIN
X: frequency MHz
Y: gain ISO dBi



DIRECTIVITY
@600MHz

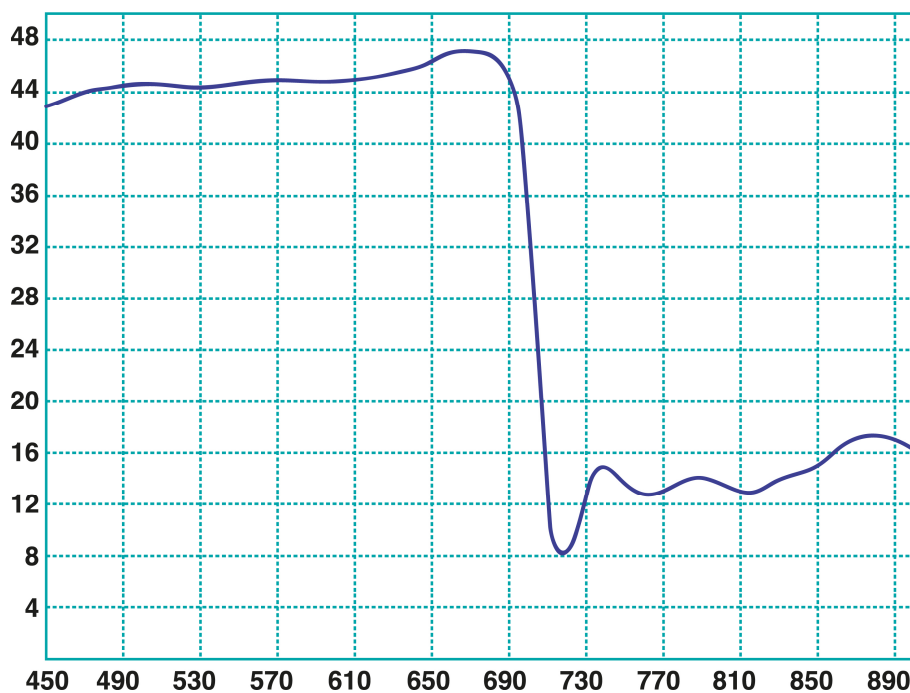


ELIKA PRO 700 P
ELIKA PRO 700 C

GAIN

X: frequency MHz

Y: gain ISO dBi



DIRECTIVITY
@600MHz

