

# DINOVA BOSS

TFORCE TECHNOLOGY ANTENNA



## Intelligent radomized antenna with automatic signal adjustment

- Intelligent BOSS system enhanced with the TForce technology
- Higher gain and more stable signal reception
- Fully protected against corrosion
- Very low power consumption (~40 mA)



BOSS TECH



ULTRA HD 4K



LOW  
VISUAL IMPACT



FIBERGLASS  
REINFORCED

### DESCRIPTION

**DINOVA BOSS** antennas are protected with a radome and have a low visual impact. Specifically designed for locations where aesthetics play an important role, the size and pleasing design of the antenna makes it perfect for building fronts, historic buildings, protected areas, and single-family homes (balconies).

It is a 7-element Yagi directional antenna, manufactured using Microstrip technology for UHF and FM-Bill printed dipole (MIX only).

### DISCOVER TFORCE TECHNOLOGY:

**Televes has redefined the antenna concept.** Until now, an antenna was just the reception component of a TV installation, which main features were gain and directivity. The introduction of an intelligent device like BOSS provides the antennas in this range with the capacity to receive very weak signals without the risk of being affected by very strong signals, and preventing fluctuations to affect the result: the **dynamic range** concept turns out to be the most outstanding among quality parameters.

The creation of a BOSS device using the TForce technology, which is based on MMIC components, is an extraordinary milestone in dynamic range optimization. The technology that once allowed the reception of lost signals from distant satellites is now allowing the enhancement of the coverage range in DTT installations.

Watch TForce video.  
[en.televes.com/tforce](http://en.televes.com/tforce)



### MAIN FEATURES

The BOSS Tech system **automatically controls the level of the received signal** (either very high or very low) to always provide optimal output level.

The new design using TForce technology makes this intelligent device even more versatile:



#### ■ HIGH DYNAMIC RANGE:

It allows high-quality TV reception in a wide variety of critical situations, from areas where signals are very weak to installations with high reception levels.

#### ■ DTT COVERAGE AREA ENHANCEMENT

#### ■ VERY HIGH GAIN:

The TForce technology provides BOSS Tech with an increase of up to 12 dB for UHF, and 14 dB for Bill.

#### ■ A MORE STABLE RECEPTION:

Supports signal variations or fading without any impact on the TV installation.

REF.	DESCRIPTION	EAN 13
<b>DINOVA BOSS</b>		
<b>LTE 790 READY</b>	144011 ANT. DINOVA BOSS UHF(C21-60) G34dBi	8424450190708
	144012 KIT: ANT. DINOVA BOSS UHF(C21-60) G34dBi	8424450190715
<b>LTE 700 READY</b>	144021 ANT. DINOVA BOSS UHF(C21-48) G34dBi	8424450190722
	144022 KIT: ANT. DINOVA BOSS UHF(C21-48) G34dBi	8424450190739
<b>DINOVA BOSS MIX</b>		
<b>LTE 790 READY</b>	144211 DINOVA BOSS MIX VHF/UHF(C21-60)G24/34dBi	8424450190746
	144212 KIT:DINOVA BOSS MIX V/U(C21-60)G24/34dBi	8424450190753
<b>LTE 700 READY</b>	144221 DINOVA BOSS MIX VHF/UHF(C21-48) G24/34dBi	8424450190760
	144222 KIT:DINOVA BOSS MIX V/U (C21-48)G24/34dBi	8424450190777

## INTELLIGENT RADOMIZED ANTENNA WITH AUTOMATIC SIGNAL ADJUSTMENT



### HIGHLIGHTS

#### ■ Protected against corrosion:

- Clamp support reinforced with glass fibre: does not rust, reduces antenna weight and improves material outdoor performance.
- The clamp has an Reacting Coating Process (RCP) based on an anti-corrosion treatment, and provides a robust mounting.
- The radome is highly resistant to salinity, humidity and other adverse weather conditions (IP 53).

#### ■ Improved BIII response (MIX model):

Under difficult reception conditions, BIII reception can be improved by extending the telescopic antennas.

#### ■ Low power consumption in intelligent mode

#### ■ LTE Ready:

Designed to optimize LTE band rejection (cell phone interference) through electronic filtering. Multiple versions compliant with the 1<sup>st</sup> (LTE790) or 2<sup>nd</sup> (LTE700) Digital Dividend.



*View of the glass fibre reinforced support for the clamp.*

### OTHER FEATURES

#### ■ Two operation modes:

In intelligent mode (with antenna feeding), BOSS provides automatic control to correct signal fluctuations and maintain optimal output signal level.

In passive mode , (without power supply) the signal goes through.

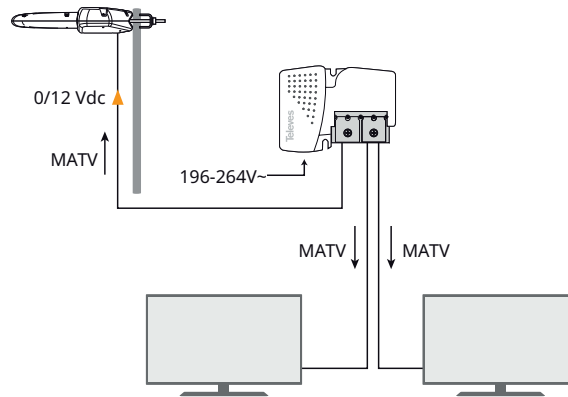
#### ■ Mounting options for both **horizontal** and **vertical** polarizations.

#### ■ **Easy mounting.** Furthermore, they can be bought as a kit, including all the accessories required for installation.

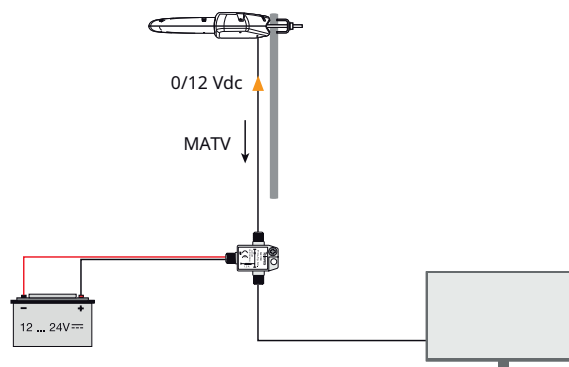
## DINOVA BOSS ANTENNA WITH TFORCE TECHNOLOGY

### INTELLIGENT MODE

With a power supply unit

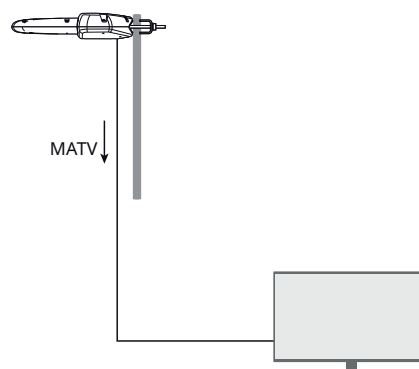


With a current injector



### PASSIVE MODE

Without power supply



# INTELLIGENT RADOMIZED ANTENNA WITH AUTOMATIC SIGNAL ADJUSTMENT



DINOVA BOSS

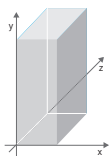


DINOVA BOSSMIX

TECHNICAL SPECIFICATIONS

References		LTE790	144011/144012		144211/144212			
		LTE700	144021/144022		144221/144222			
Working band	MHz	LTE790	470 - 790		174 - 230		470 - 790	
		LTE700	470 - 694		174 - 230		470 - 694	
Channels		LTE790	21-60		5-12		21-60	
		LTE700	21-48		5-12		21-48	
BOSS Mode			OFF	ON	OFF	ON	OFF	ON
Maximum gain	dBi	4-7		34*	-1	24*	4-7	34*
Output level	dBμV	----		Auto*	----	Auto*	----	Auto*
Noise figure	dB	----		2.5	----	3	----	2.5
Supply voltage	V <sub>DC</sub>	0		12-24	0	12-24	0	12-24
Maximum current	mA	----		45	----	40	----	40
Protection index	N	53						
Wind load	N	70 (@ 130 km/h) 96 (@ 150 km/h)						
Weight	g	1000						
Dimensions	mm	412 x 328 x 73			412 x 328 x 73 (telescopic antennas retracted)			
					412 x 795 x 75 (telescopic antennas extended)			

\*Gain varies automatically based on the output level.



PACKAGE CONTENTS

- Antenna
- F connector
- F connector cap
- Manual

Kit references also include:

- Power supply unit (Ref. 579401)

