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## DAT BOSS MIX LR antenna Low-VHF/High-VHF/UHF (Repack Ready)

The DAT BOSS LR LoV/HiV/UHF antenna is an state of the art long range over the air TV antenna that automatically adapts its gain in real time to optimize the reception of television signals, ensuring the optimum level of signal is delivered at all times. This latest repack-ready version has been completely redesigned from the ground up for the new US broadcast frequencies, significantly improving gain and range over previous generations, filtering any interfering 5G signals above 608MHz, and providing independent amplification for the VHF and UHF bands.

The DAT BOSS LR LoV/HiV/UHF is able to receive very weak distant signals while at the same time avoiding overload caused by very strong signals. This is a very high gain directional antenna designed to offer stable and high quality reception of low VHF, high VHF, and UHF signals (RF channels 2-36) in challenging long-range and fringe receiving scenarios despite continuous changes in weather and transmitting conditions thanks to its exclusive and intelligent built-in TForce amplifier. The Televes proprietary stacked triple boom design ensures market leading raw gain while still maintaining a compact and install friendly form factor. No additional preamplifier purchase is required as the antenna includes a best-in-class very low-noise TForce preamplifier built in right at the dipole with automatic gain control, plus FM and cellphone signal filtering adapting to any installation situation.

A low-consumption UL-listed power supply is included providing two outputs for convenient distribution to additional TV sets. Not only do industry experts rave about the DAT BOSS LR LoV/HiV/UHF exceptional long range multi band performance and market leading gain but also the unparalleled manufacturing quality using only the finest materials (aluminum, stainless steel, ABS plastic) ensuring years of trouble free operation in the most challenging environments. It ships as a compact package including the tools needed for assembly. The DAT BOSS LR LoV/HiV/UHF is your best option for a long range high gain antenna with automatic gain control and precise filtering to ensure the best possible reception at all times under the most challenging circumstances.

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## Highlights

- The antenna has been completely redesigned for reception of TV signals on RF channels 7-36 improving gain and range over previous generations
- Crystal clear TV reception enabled by a built-in T-Force preamplifier that automatically adjusts its gain independently for VHF and UHF signals for an optimum no-compromise performance
- Elegant cutting edge design built strong to withstand the harshest elements
- FM and LTE/5G filtering eliminates radio and cellular phone interference
- Designed as a compact easy to install product for professionals and consumers alike (82.8 x 70 x 29 in)
- Unlike most other antennas the preamplifier, power supply and LTE/5G filter are included making the DAT BOSS LR LoV/HiV/UHF your best value for fringe reception
- Built-in TForce preamplifier continuously analyzes TV signals received by the antenna to provide the optimum gain and delivered signal level at all times. Based on proprietary MMIC technology exclusive to Televes offering unparalleled performance
- In the event of power failure, the DAT BOSS LR LoV/HiV/UHF will continue to work in passive mode, bypassing the built-in antenna electronics. The antenna can operate in active (amp turned on) or passive mode (amp turned off)
- Fully automated manufacturing in Europe under the most stringent quality controls: a synonym of high reliability

## Main features

- The DAT design, based on 3 Yagi antennas with asymmetric directors, provides great directivity as well as an optimal anti-echo radiation pattern
- Special double-U dipole: it's open/close format provides optimal frequency response flatness
- A fully shielded switch box protects the BOSS system from impulsive noise; grounded for full protection against electrical discharge
- Manufactured in aluminium (stainless) for a long service life
- Fully automated manufacturing in Europe under the most stringent quality controls: a synonym of high reliability
- Two work mode options: Intelligent low power consumption mode or passive mode (lack of power supply).

## Discover

### TForce technology:

Televes transitions from the traditional silicon era into a new era of electronic component design, allowing integrated

circuits to be precisely manufactured for microwave frequency bands. Utilizing "State of the Art" MMIC technology TForce is manufactured using semiconductor compounds such as gallium arsenide (GaAs), providing the resulting products with unparalleled features and performance

Televes has reinvented the antenna concept. Until now, an antenna was just the reception component of a TV installation in which gain and directivity were the main features. The introduction of a smart device like BOSS provides the antenna with the capacity to receive very weak signals without the risk of being affected by very strong signals, the result is a dynamic balance between weak and strong signals that provides optimum signal levels at all times: the "dynamic range" concept turns out to be the most outstanding among quality parameters.

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

## Technical specifications

Bands				BI	BIII	UHF	
Frequency range	MHz		54 ... 88	174 ... 216	470 ... 608		
Channels			2 ... 6	7 ... 13	14 ... 36		
BOSS mode			ON OFF	ON OFF	ON OFF		
Gain	dBi		30	5	38	8.5	46 15
Output level			Auto* <sup>1</sup>	--	Auto* <sup>2</sup>	--	Auto* <sup>3</sup> --
Powering			12	--	12	--	12 --
Max. current			70	--	70	--	70 --
Beamwidth	°				67	58	35
F/B ratio	dB				> 8	> 10	> 25
Wind load (@130Km/h)	N						201.6
Wind load (@150Km/h)	N						277.2

\*<sup>1</sup> The gain is automatically adjusted according to the level of output

\*<sup>2</sup> The gain is automatically adjusted according to the level of output

\*<sup>3</sup> The gain is automatically adjusted according to the level of output