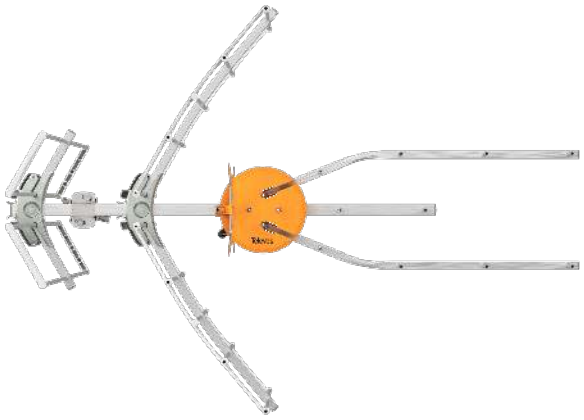


A6 MIX: Intelligent DTT BIII/UHF Antenna ready for DVB-T2 and UHD

Intelligent antennas that evolve with television

A6 MIX is an intelligent antenna developed to meet the current challenges of DTT combined reception in the **BIII and UHF bands up to channel 48 (LTE700)**, specially **optimised for DVB-T2 broadcasts and UHD content**.

Thanks to its **BOSS technology** (*Balanced Output Signal System*), with a dual integrated **TForce® chip** for independent regulation of the BIII and UHF bands, this antenna guarantees very stable, robust and reliable reception even in the most challenging environments, whilst maintaining both bands at an optimal level without any imbalance. **Amplification directly at the dipole** minimises noise and preserves signal quality right from the point of reception, a key advantage for DVB-T2 broadcasts, whose high symbol density modulation (COFDM up to 256-QAM) requires signals with a better MER (*Modulation Error Rate*).

BOSS technology also **automatically adjusts the gain in real time**, always maintaining the optimal balance between signal quality and strength, regardless of reception conditions. The result is a signal with the best possible output level, both in areas with poor coverage and in areas with high signal levels or affected by LTE interference (4G/5G).

Made entirely from **100% stainless steel and durable ABS plastic** with UV and corrosion protection, this antenna ensures maximum durability and mechanical stability in all weather conditions. Furthermore, its optimised mechanical design allows for **quick, tool-free assembly in just 60 seconds**.

Ref.	140501
Logical ref.	A6MIX
EAN13	8424450334317

Other features	
Colour	Orange
Supply method	Single packing

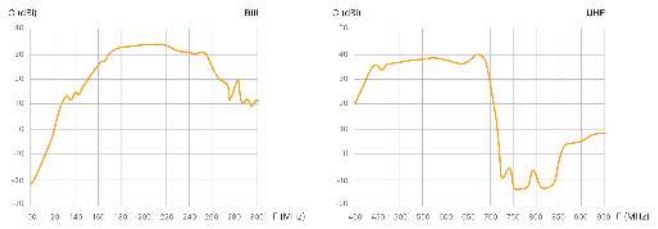
Packaging info	
Box	1 pcs.

Physical data	
Net weight	2,238.00 g
Gross volume	58.70 dm³
Gross weight	3,323.00 g
Width	697.00 mm
Height	985.00 mm
Depth	866.00 mm
Main product weight	2,238.00 g

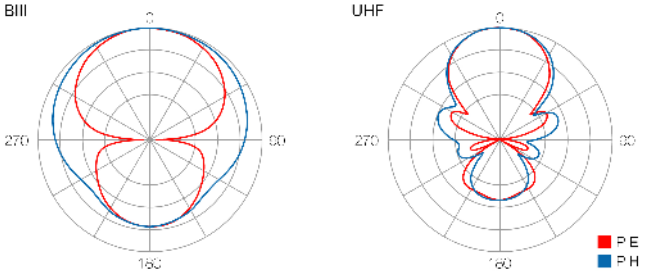
Highlights

- **Real-time adaptive reception**: the only intelligent antenna that maintains TV service by adjusting its performance according to conditions (adverse weather, fading or any changes in the environment)
- **Optimal output level at any time**: our patented BOSSTech system automatically adjusts the antenna's gain to maintain the optimal output signal
- **Independent adjustment of BIII and UHF**: features two TForce® chips to adjust both bands separately and ensure they are set at the optimum level without any imbalance
- **Minimal noise for optimal C/N ratio**: amplifies the signal at the point closest to reception, where the signal retains its maximum quality
- **High dynamic range**: reception across a wide range of conditions, picking up very weak signals and preventing saturation at high reception levels
- **RED compliant**: incorporates a high-selectivity SAW filter (Surface Acoustic Wave) that eliminates interference whilst respecting the last channel in the TV band
- **Protection against 4G/5G**: rejects current and future mobile phone signals, so they do not interfere with the television signal
- **Aerodynamic design that optimises signal reception**: the combination of semi-curved reflectors repositioned relative to the antenna axis, and three booms arranged in planes parallel to one another and perpendicular to the 'U'-shaped dipole, improves the frequency response. It also includes components for switching the reception from BIII to vertical polarisation
- **Corrosion-resistant construction**: made from aluminium, with stainless steel screws and ZAMAK fixing elements treated with an anti-corrosion coating to ensure decades of durability
- **Built to last**: made of fibreglass and UV-pigment-reinforced ABS plastics to guarantee thermal stability and prevent degradation
- **Quick, tool-free assembly**: its mechanical design, conceived to facilitate installation, allows for tool-free assembly in under 60 seconds
- **Two operating modes in a single antenna**: the antenna activates its intelligence by powering the BOSSTech system via the coaxial cable, whilst in the absence of power it operates as a passive antenna
- **100% Televes philosophy**: designed, developed and manufactured entirely in our robotised facilities, guaranteeing product quality through specific manufacturing controls and tests

Graphic documentation



Frequency response



Radiation pattern

Technical specifications : Ref. 140501

Bands		HighVHF	UHF
Frequency range	MHz	174 ... 230	470 ... 694
Channels		5 ... 12	21 ... 48
BOSS mode		ON	ON
Gain	dBi	34	38
Output level		Auto*[1]	Auto*[2]
Powering	Vdc	12	12
Max. current	mA	70	70
Beamwidth	°	65	40
F/B ratio	dB	> 20	> 20
Protection index (IP)		67	
Wind load (@80miles/h)	N	120.38	
Wind load (@93miles/h)	N	165.53	
Mast diameter	in	0.787 ... 1.969	

*[1] The gain is automatically adjusted according to the level of output.

*[2] The gain is automatically adjusted according to the level of output.