



microwapp™ ATV 10a

Microwave Television Transmitter for Radio Amateur TV Transmission At 10 GHz

Microwapp ATV 10a is a microwave video signal transmitter designed for radio amateurs, to transmit television signal in 10 GHz band. The transmitter is integrated with a 350 mm dia. parabolic antenna; to extend its range, larger antennas can be delivered with it, with diameters 650, 900 or 1200 mm. The mechanical tower mount is adjustable in azimuth and elevation (horizontal and vertical planes).

ATV transmitter circuit is installed in a weatherproof case protected to IP65 standard. The transmitter can operate outdoors all the year round.

ATV 10a transmitter is factory-set to 10322 MHz. The frequency can be changed by a 16-pole switch located inside of the case (to be only used to reduce interference by another ATV station).

The power supply for ATV10a is installed indoors (included), and delivers 13.8-15.0V DC, 1.2 A max (0.7A without heating). The video signal with 1Vp-p level should be applied by a coaxial cable to the outdoor unit.

As an option, audio modules are delivered by the manufacturer.

Ordering ATV: Microwapp ATV10a with a parabolic antenna 350 mm dia.

Microwapp ATV10b with a parabolic antenna 650 mm dia.

Microwapp ATV10c with a parabolic antenna 900 mm dia.

Microwapp ATM10d with a parabolic antenna 1200 mm dia.

Specifications:

Operating Frequency Band:	10.322 10.574 MHz (10.00-10.50 GHz optional)	As defined by IARU frequency table
Modulation:	FM, 18 MHz/1V deviation	adjustable
Video Input Level:	1Vp-p, 50 Ohms	
Audio :	Optional Module	audio carrier 6,5 - 8,0 MHz
Transmitter Output Power:	30 dBm	
EIRP:	250 W	with 350 mm dia. antenna
Frequency Stability:	1x 10E(-5)	
Polarization:	H/V, H set at factory	
Antenna Gain	26 dBi for 350 mm dia. antenna 32 dBi for 650 mm dia. antenna 35 dBi for 900 mm dia. antenna 38 dBi for 1200 mm dia. antenna	
DC Power:	13.8-15.0 V, 1.2 A max.	
Operation Temperature	-25 to +50 deg.C	
Size	310x260x120 mm	(transmitter in case)
Weight	10,5 kg	with 350 mm dia. antenna

