

Airsynergy basestation, FCC ID: O2J-235AS, operating in the 2305-2320 and 2345-2360 MHz WCS Bands.

Federal Communications Rules for operation in USA

The correct setting of the following Base Station parameters in Netspan, are critical to the correct operation of equipment in compliance with the rules detailed in 47CFR27subpart C:

- Transmit Power
- Transmit Frequency
- Channel Bandwidth

Any attempt to alter these parameters outside those permitted by the Netspan software or the operator license could be a violation of that license

Transmit Power / Tune-up

Transmit power is set using the Netspan management software during install /commissioning.

The unit may transmit with a power of up to 30dBm at each antenna port when connected to cross polarised antenna with maximum gain of 18dBi

RF Exposure

FCC Maximum Permissible Exposure (MPE) limits for equipment operating in the frequency range 1500 – 100,000 MHz is 1.0 mW/cm².

Following installation and commissioning, the safe distance from the antenna is the greater of:

20cm

Or

r cm, where $r = \sqrt{(PG/4[S])}$

P: power input to antenna(s) in mW

G: numeric gain of antenna relative to isotropic radiator

S: power density in mW/cm² = 1 mW/cm²

The device has two antenna ports, so safe distance from the antenna shall be the greater of:

20 cm or $\sqrt{(2*PG/4[S])}$

Which gives a safe distance of 71cm when used with a 18dBi antenna.