

PLTX

Power Amplifier

The PLTX Power Amplifier is a ruggedized package containing a Vislink DPA3 series high power amplifier with pre-distortion correction, integral mounting and full connectivity. It has been designed to boost the power level from a Vislink wireless camera transmitter (L1700, ClipOn4 and HCAM) to achieve longer link distances and/or facilitate the use of higher modulation rates due to the increased threshold level and link budget margins.

Typical applications include terrestrial and marine video, motorcycle uplinks for long distance marathon events and impromptu mobile point-to-point video link systems.

The case provides an internal control panel to control the RF output* and power. LED indicators report RF and power levels.

*RF output control covers a 10dB range from min to max (rated power level)



Key Features

- 10W and 20W models
- Weatherproof case with power, audio, video and data connections
- Easy to hand transport, meeting airline guidelines

Typical Applications

- Event Coverage
- Sports Coverage
- Onboard Coverage
- Extreme Sports Coverage
- Maritime Video Link

Frequency Band

- 10W:
 - 2.0 to 2.5GHz
 - 3.3 to 3.7GHz
- 20W:
 - 2.0 to 2.3GHz
 - 2.2 to 2.6GHz
 - 2.3 to 2.7GHz

Output Power

- 10W or 20W

Linear Distortion Correction

- Automatic
- Up to 3.7GHz

Impedance

- 50 Ω in/out

Spurious

- Better than -60 dBc

Gain Flatness

- +/-1 dB over frequency range

Gain Vs Temperature

- +/-1 dB over temperature range

Third Order Intercept

- +62 dBm

Input VSWR

- 1.4:1

Connectors

- RF Input/Output:
 - N-Type
- Power Connector:
 - Neutrix NC2FX
- HDMI:
 - Type A
- Video in:
 - BNC

- ASI in:
 - BNC
- Audio in CH1:
 - XLR 3
- Audio in CH2:
 - XLR3

LED Indicators

- DC Present
- RF Present
- Load Fault
- Over Temperature
- Battery voltage meter

Power

- 10w version:
 - +12 to 30VDC 125w
- 20w version:
 - +20 to 30VDC 210w

Physical

- Weight:
 - 8.1 kg (17.8 lbs)

Environmental

- IP rating (10w Version):
 - IP53
- IP rating (20w Version):
 - IP50

- Temperature:
 - Safe use -20°C to 50°C (-4°F to 122°F)
 - To spec -10°C to 45°C (14°F to 113°F)

- Altitude:
 - 3500 m (11483 ft.)
- Humidity:
 - 95% long term