

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a Video Drone. The sample supplied operated on 30 channels, the channels are shown in below table.

2449	2450	2451	2452	2453
2454	2455	2456	2457	2458
2459	2460	2461	2462	2463
2464	2465	2466	2467	2468
2469	2470	2471	2472	2473
2474	2475	2476	2477	2479

The EUT is powered by 3 x 1.5V AAA batteries. After switching on the EUT, the drone will undergo different movement based on the switches pressed in the controller. Photos or videos can be taken and saved to a smartphone based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 74.9dB μ V/m at 3m (Peak), 55.3dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +3/- 9dB

The brief circuit description is listed as follows:

1. U1 (PY32F003) acts as MCU
2. U2 (297L) acts as RF IC
3. Y1 acts as 16MHz Oscillator
4. C12 acts as antenna matching circuit
5. U3 (6206) acts as voltage regulator.