



# Clifton Cameras Product Specification

DJI Matrice 300 RTK

**Dimensions:** Unfolded, propellers excluded, 810x670x430mm (LxWxH)

Folded, Propellers included, 430x420x430mm (LxWxH)

**Diagonal Wheelbase:** 895mm

**Weight (with single downward gimbal):** Approx. 3.6Kg (without batteries),

Approx. 6.3Kg (with two TB^0 batteries)

**Single Gimbal Damper's Max Payload:** 930g

**Max Take-off Weight:** 9Kg

**Operating Frequency:** 2.4000 - 2.4835 GHz,

5.725 - 5.850 GHz

**EIRP:** 2.4000 – 2.4835 GHz:

29.5dBm (FCC); 18.5dBm (CE); 18.5dBm (SRRC); 18.5dBm (MIC)

5.725 – 5.850 GHz

28.5dBm (FCC); 12.5dBm (CE); 28.5dBm (SRRC)

**Hovering Accuracy (P-mode with GPS):** Vertical

±0.1m (Vision System enabled)

±0.5m (GPS enabled)

±0.1m (RTK enabled)

Horizontal

±0.3m (Vision System enabled)

±1.5m (GPS enabled)

±0.1m (RTK enabled)

**RTK Positioning Accuracy:** When RTK enabled and fixed:

1cm+ 1ppm (Horizontal)

1.5cm + 1ppm (Vertical)

**Max Angular Velocity:** Pitch: 300°/s, Yaw: 100°/s

16:9 – 4416 x 2488

1:1 – 2944 x 2944

**Max Pitch Angle:** 30° (P-mode, Forward Vision System enabled: 25°)



Max Ascent Speed: S mode: 5m/s

P mode: 5m/s

Max Descent Speed (Vertical): S mode: 5m/s

P mode: 4m/s

Max Descent Speed (tilt): S mode: 7m/s

Max Speed: S mode: 23m/s

P mode: 17m/s

Service Ceiling Above Sea Level: 5000m (with 2110 propellers, take-off weight  $\leq$  7 kg) / 7000 m (with 2195 propellers, take-off weight  $\leq$  7 kg)

Max Wind Resistance: Max Wind Resistance 15m/s (12 m/s when taking off or landing)

Max Flight Time: 55 min

Supported DJI Gimbals: Zenmuse XT2/ XT S/ Z30/ H20/ H20T/ DJI P1/ DJI L1

Supported Gimbal Configurations: Single Downward Gimbal, Dual Downward Gimbals, Single Upward Gimbal, Upward and Downward Gimbals, Triple Gimbals

Ingress Protection Rating: IP45

GNSS: GPS + GLONASS + BeiDou + Galileo

Operating Temperature: -20°C to 50°C (-4°F to 122°F)