Tello Commands

Commands

Control Commands (xxx)

- returns “ok” if the command is executed successfully
- returns “error” or an informative result code if unsuccessful

Read Commands

- returns the current value of the sub-parameter(s).

Set Command (xxx a) will attempt to set a new sub-parameter value(s)

- returns “ok” if the command is executed successfully
- returns “error” or an informative result code if unsuccessful

Command	Description	Response
`command`	Enter SDK mode	ok / error
`takeoff`	Auto takeoff	ok / error
`land`	Auto land	ok / error
`streamon`	Turn video stream on	ok / error
`streamoff`	Turn video stream off	ok / error
`emergency`	Stop all motors immediately	ok / error
`up x`	Fly uptime by `x` cm (range: 20-500)	ok / error
`down x`	Fly down by `x` cm (range: 20-500)	ok / error
`left x`	Fly left by `x` cm (range: 20-500)	ok / error
`right x`	Fly right by `x` cm (range: 20-500)	ok / error
`forward x`	Fly forward by `x` cm (range: 20-500)	ok / error
`back x`	Fly back by `x` cm (range: 20-500)	ok / error
`cw x`	Rotate clockwise by `x` degrees (range: 1-3600)	ok / error
`ccw x`	Rotate counterclockwise by `x` degrees (range: 1-3600)	ok / error
`flip x`	Perform flip in direction `x` (l: left, r: right, f: forward, b: back)	ok / error
`go x y z speed`	Fly to position (x, y, z) at a specific speed (range: 10-100 cm/s)	ok / error
`curve x1 y1 z1 x2 y2 z2 speed`	Fly in a curve defined by two coordinates and speed (range: 10-60 cm/s)	ok / error

Command	Description	Response
`speed x`	Set flight speed to `x` cm/s (range: 10-100)	ok / error
`rc a b c d`	Send RC control via four channels (`a` : left/right, `b` : forward/backward, `c` : up/down, `d` : yaw)	ok / error
`wifi ssid pass`	Set Wi-Fi SSID and password	ok / error
`speed?`	Get current speed (cm/s)	Speed (1-100)
`battery?`	Get current battery percentage	Battery (0-100%)
`time?`	Get current flight time (seconds)	Time (seconds)
`height?`	Get current height (cm)	Height (cm)
`temp?`	Get current temperature (°C)	Temperature (°C)
`attitude?`	Get IMU attitude data (pitch, roll, yaw)	Attitude (pitch, roll, yaw)
`baro?`	Get barometer value (m)	Barometer (m)
`acceleration?`	Get IMU angular acceleration data (x, y, z)	Acceleration (x, y, z)
`tof?`	Get distance from Time of Flight sensor (cm)	Distance (30-1000 cm)
`wifi?`	Get Wi-Fi signal-to-noise ratio (SNR)	SNR

Tello State Strings

Data Tello will send while flying.

Example:
“pitch:%d;roll:%d;yaw:%d;vgx:%d;vgy%d;vgz:%d;templ:%d;temph:%d;tof:%d;h:%d;bat:%d;baro: %.2f; time:%d;agx:%.2f;agy:%.2f;agz:%.2f;\r\n”

Data Parameter	Description	Unit / Scale
`pitch`	The drone's forward/backward tilt angle	Degrees
`roll`	The drone's sideways tilt angle	Degrees
`yaw`	The drone's rotation around its vertical axis	Degrees
`vgx`	The drone's velocity along the x-axis	cm/s
`vgy`	The drone's velocity along the y-axis	cm/s
`vgz`	The drone's velocity along the z-axis	cm/s
`templ`	The lowest recorded temperature of the drone	°C (Celsius)
`temph`	The highest recorded temperature of the drone	°C (Celsius)
`tof`	Distance from the Time of Flight (TOF) sensor, typically altitude	cm
`h`	The current height of the drone	cm

Data Parameter	Description	Units/Scale
`bat`	The current battery percentage	% (0-100)
`baro`	Barometer reading, providing altitude based on atmospheric pressure	m (meters)
`time`	Total time the drone's motors have been running	seconds
`agx`	Angular acceleration along the x-axis	0.001g (g-force)
`agy`	Angular acceleration along the y-axis	0.001g (g-force)
`agz`	Angular acceleration along the z-axis	0.001g (g-force)