Tello SDK

1.0.0.0

1. OVERVIEW

Tello SDK interfaces to the host via a wifi UDP port, which is easily control using text command.

2. ARCHITECTURE

Wifi

Tello   <<-   IP: 192.168.10.1   UDP PORT:8889   ->>   PC or PAD

3. FORMAT OF THE Tello COMMAND STRING AND RESULT

Types of Commands

Tello commands have three basic structures, some of which are not applicable to all

command types, for further information see the individual commands.

• **Control Commands (xxx) If the command is successful the Drone command interpreter will return OK**

otherwise an error or informative result code will be returned.

• **Read Commands (xxx?) reads the current value of the sub-parameter(s).**

• **Set Command (xxx a) will attempt to set a new sub-parameter value(s). If the**

command is successful the Drone command interpreter will return OK

otherwise an error or informative result code will be returned.

4. Tello COMMANDS

Distance unit is cm, Angle unit is Degree, Speed unit is cm/s

Control Commands

Command	Description	Possible Response
command	entry command mode	OK FALSE

Command	Description	Possible Response
takeoff	Tello auto takeoff	OK FALSE

Command	Description	Possible Response
land	Tello auto land	OK FALSE

Command	Description	Possible Response
up xx	Tello fly up with distance xx xx(20-500)	OK FALSE

Command	Description	Possible Response
down xx	Tello fly down with distance xx xx(20-500)	OK FALSE

Command	Description	Possible Response
left xx	Tello fly left with distance xx xx(20-500)	OK FALSE

Command	Description	Possible Response
right xx	Tello fly right with distance xx xx(20-500)	OK FALSE

Command	Description	Possible Response
forward xx	Tello fly forward with distance xx xx(20-500)	OK FALSE

Command	Description	Possible Response
back xx	Tello fly back with distance xx xx(20-500)	OK FALSE

Command	Description	Possible Response
cw xx	Tello cw (clockwise) rotate xx Degree xx(1-3600)	OK FALSE

Command	Description	Possible Response
ccw xx	Tello ccw (counter-clockwise) rotate xx Degree xx(1-3600)	OK FALSE

Command	Description	Possible Response
flip x	Tello fly flip x l (left) r (right) f (forward) b (back) lb rb lf rf	OK FALSE

Set Command

Command	Description	Possible Response
speed xx	set current speed xx xx(1-100)	OK FALSE

Read Commands

Command	Description	Possible Response
Speed?	get current speed	xx

Command	Description	Possible Response
battery?	get current battery percentage	xx xx(0-100)

Command	Description	Possible Response
time?	get current fly time	xx