**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 |