**Chapter III USB-HID Command List**

REMARKS: This chapter is for professional users, normal user please ignore this part.

**id = 5750 or 5710.**

**DISPATCH COMMANDS LIST**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| KEYBOARD | | GETTING STATUS | | GETTING DATA | |
| COMMAND | CONTENT | COMMAND | CONTENT | COMMAND | CONTENT |
| ATK001# | READ | ATS001# | SYSTEM INFORMATION | ATR???# | QUERY THE RECORD |
| ATK002# | “+” |  |  | ATRxxx# | RECORD NO xxx |
| ATK003# | MENU |  |  | ATD001# | QUERY THE CURRENT RECORD |
| ATK004# | “-” |  |  | ATI001# | QUERY THE CURRENT SCREEN RECORD |
| ATK005# | AREA |  |  |  |  |
| ATK006# | LEVEL BUBBLE |  |  |  |  |
| ATK007# | PYTHAGORAS |  |  |  |  |
| ATK008# | TIMER |  |  |  |  |
| ATK009# | CLEAR OFF |  |  |  |  |
| ATK00A# | SAVE |  |  |  |  |

**RESPONSE COMMANDS LIST**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| KEYBOARD | | GETTING STATUS | | GETTING STATUS | |
| COMMAND | CONTENT | COMMAND | CONTENT | COMMAND | CONTENT |
| ATK001# | READ | \*\* | SYSTEM INFORMATION | ATR+2BYTES# | QUERY THE AMOUNT OF RECORD |
| ATK002# | “+” |  |  | \*\*\* | RECORD NO xxx |
| ATK003# | MENU |  |  | ATD+4+4+4+crc+# | QUERY THE CURRENT RECORD |
| ATK004# | “-” |  |  | \*\*\*\* |  |
| ATK005# | AREA |  |  |  |  |
| ATK006# | LEVEL BUBBLE |  |  |  |  |
| ATK007# | PYTHAGORAS |  |  |  |  |
| ATK008# | TIMER |  |  |  |  |
| ATK009# | CLEAR OFF |  |  |  |  |
| ATK00A# | SAVE |  |  |  |  |

**Description**

CRC：For example, receiving data as below:

23 02 10 01 02 00 00 00 00 CA E4 00 00 34 71 00 00 33 22 00 00 BD 00 00

and

CRC=(0x02+0x10+0x01+0x02+0xCA+0xE4+0x34+0x71+0x33+0x22) mod 256 =0xBD

1. **\*\*:** device ID (2bytes) + save qty (2bytes) + Unit (1byte) + model (1byte) + backlight time (2bytes) + auto power-off time (2bytes) + sound on/off(1byte) + reference point (1byte) + angle unit (1byte) + CRC (1byte) +# (1byte)
2. **ATR+2bytes+#:** means ‘A’ + ‘T’ + ‘R’ +2bytes(total records) + ‘#’
3. **ATRxxx#:** means from ATR001# to ATR099#, ATR001 means inquiring the first record, ATR099 means inquiring the 99th record.
4. **ATD+4+4+4+crc+#:** ATD+4bytes (distance) + 4bytes (angle X) + 4bytes (angle Y) + CRC (checksum) + #
5. **\*\*\*:** ‘#’ + “+” or “–” (half a byte higher) + measuring steps (half a byte lower) + unit (half a byte higher) + measuring model (half a byte lower) + addition/subtraction mode (1 byte) + reference point (1byte) + distance 0 (4bytes) + distance 1 (4bytes) + distance 2 (4bytes) + distance 3 (4bytes)
6. **\*\*\*\*:** ATI(3bytes) + distance 0 (4bytes) + distance 1 (4bytes) + distance 2 (4bytes) + measuring model (half a byte) + measuring steps (half a byte) + unit (1byte) + icon of staking-out/continuous measuring/ addition/subtraction mode/+ or – (half a byte) + bluetooth installing or not / bluetooth turn on or not (half a byte) + reference point (half a byte) + staking-out finish (half a byte) + crc + #