

## 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+c rc+#	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

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

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 99<sup>th</sup> 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. \*\*: ATl(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 + #