**EarGear Protocol**

**System Commands**

VER Returns firmware version

LISTEN Enter Listen Mode

ENDLISTEN Stop Listen Mode

PING Returns “OK”

SHUTDOWN Switches off device

BATT Returns a number between 1 and 100

**Move Commands**

EARHOME Move servos to their home position

LETWIST

RITWIST

BOTWIST

LETILT

RITILT

BOTTILT

DSSP followed by 4 values to send to all servos at once.

SET value between 20 and 160 to redefine HOME position

**Call and response**

Each move command sent is COMMAND plus angle. It gets the same command returned from the ears with COMMAND VALUE BEGIN. When the move is done, COMMAND VALUE END.

HOME defaults to 90.

Each system command generates a specific unique response.

**Power**

Ears sleep after 120 seconds of inactivity

Power off after 300 seconds of inactivity

Note: Switching Listening Mode on suspends timers until listening mode off is triggered.

**Battery**

Battery notifications are auto sent every 5 percent.

If you send BATT you get the exact amount by return.

You can monitor the separate battery characteristic for 5 nice slices.

**Device is called “EarGear” over Bluetooth**