**EarGear Protocol**

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

**System Commands**

VER Returns VER plus firmware version

LISTEN Enter Listen Mode, returns LISTEN ON

ENDLISTEN Stop Listen Mode, returns LISTEN OFF

PING Returns “PONG”

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

BOTILT

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

SET saves the current positions of the servos as HOME

**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.