1. Data Link Packet Format

Data Link Packet format is : *Head* + *Data* + *Tail.* Data Link Packet start with "***", and end with "\r\n".

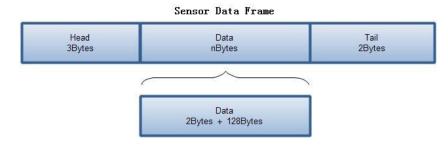
Data	Link	Packet	Format
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HeadDataTail3BytenByte2Byte

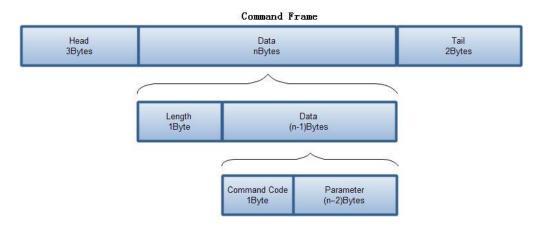
2. Application Data Packet Format

The application data is filled in *Data* field of Data Link Packet. There are 2 kinds of frame has been defined:

• sensor data frame



• command frame



2.1, Sensor Data Frame

Direction: GRIG-EYE \rightarrow PC and Mobile Phone Purpose: Transfer sensor data



2Byte + 128Byte

Data = 2Bytes(Thermistor) + 128Bytes(Temperature): 2Bytes(Thermistor) = TTHL + TTHH 128Byes(Temperature) = T01L + T01H + T02L + T02H + ... + T64L + T64H

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TTHL and TTHL are the low byte and high byte of temperature sensor in
Grid-eye sensor.
TO1L and TO1H are the low byte and high byte of Temperature Register in
Grid-eye sensor.
Note:
The thermistor is 12-bits signed code + absolute value.
The Temperature is 12-bits two's complement form.
For details please refer to <SPECIFICATIONS FOR Infrared Array Sensor>.
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2.2, Command Frame

Direction: PC -> GRIG-EYE Purpose: Configure Grid-eye Sensor by host.

Command Frame



The *length of the Command* indicate the length of the *Command* in byte. The *Command* contains the *Command Code* and its *parameters* if any. 2.2.1 Command for set the sampling frequency.

Command for set the sampling frequency

Command Code	Frequency
1Byte	1Byte
ibyte	ibyte

Command Code = '2' (ASCII code).
Frequency = 1(decimal) set sampling frequency to 1Hz.
Frequency = 10(decimal) set sampling frequency to 10Hz.