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

2. Application Data Packet Format
The application data is filled in \textit{Data} field of Data Link Packet.
There are 2 kinds of frame has been defined:
\begin{itemize}
  \item sensor data frame
  \begin{itemize}
    \item \textit{Sensor Data Frame}
    \end{itemize}
  \item command frame
  \begin{itemize}
    \item \textit{Command Frame}
  \end{itemize}
\end{itemize}

2.1. Sensor Data Frame
Direction: GRIG-EYE $\rightarrow$ PC and Mobile Phone
Purpose: Transfer sensor data

\begin{itemize}
  \item Data = 2Bytes(Thermistor) + 128Bytes(Temperature):
  \begin{itemize}
    \item 2Bytes (Thermistor) = TTHL + TTHH
    \item 128Bytes (Temperature) = T01L + T01H + T02L + T02H + ... + T64L + T64H
  \end{itemize}
\end{itemize}
TTHL and TTHL are the low byte and high byte of temperature sensor in Grid-eye sensor.
T01L and T01H 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>.

### 2.2, Command Frame
**Direction:** PC -> GRIG-EYE
**Purpose:** Configure Grid-eye Sensor by host.

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