

## Structure of packets

Version 4.0  
23.01.2023

After switching on, the device begin to transmit the first packet, which contains information about the device. The the first packet structure is shown in Table 2. Packets are transmitted using the TCP-IP protocol. The following packets from the device are either control packages or data packages. If the package contains a signature - **1614081Eh**, this are control packages; if there is no signature, then this is a data package. Minimum packet size is 6 bytes. The header of any control packet is given in the table 1.

Device control commands are given in tables 3 and 4.

Table 1 – The header of any control packet

Offset in bytes	ID	Description	Size in bytes	Notes
0	Sign	Signature	4	<b>1614081Eh</b>
4	RequestSize	Size of Request	1	Range: 6 .. 255 bytes
5	RequestType	Type of Request	1	Range: 0 .. 2

Table 2 - The structure of the first packet

Offset in bytes	ID	Description	Size in bytes	Notes
0	Sign	Signature	4	<b>1614081Eh</b>
4	HeaderSize	Size of header	1	64 bytes
5	RequestType	Type of Request	1	0
6	HeaderVer	Version of header	1	1 version
7	DeviceType	Type of device	1	1 version
8	IMEI	IMEI	15	Defined in device configuration
23	Reserve		1	Filled «0»
24	ICCID	ICCID	20	Defined in device configuration
44	ImageType	Type of Image (0 – RAW, 1 – BMP, 2 – JPG)	1	0 - RAW
45	ImageSize	Size of image	2	57600 bytes
47	ImageWidth	Width of Image in pixels	2	320 pixels
49	ImageHeight	Height of Image in pixels	2	180 pixels
51	FrameSize	Size of Frame in bytes	2	320 bytes
53	FrameCount	Count of Frames	2	180 frames
55	Brightness	Brightness of flashlight	1	Range: 0 .. 255
56	Reserve		8	Filled «0»

Table 3 - Command of request an image from a device

Offset in bytes	ID	Description	Size in bytes	Notes
0	Sign	Signature	4	<a href="#">1614081Eh</a>
4	RequestSize	Size of Request	1	6
5	RequestType	Type of Request	1	1

Table 4 - Command for setting device parameters

Offset in bytes	ID	Description	Size in bytes	Notes
0	Sign	Signature	4	<a href="#">1614081Eh</a>
4	RequestSize	Size of Request	1	8
5	RequestType	Type of Request	1	2
6	Param1	Set brightness of flashlight	1	Range: 0 .. 255
7	Param2	Reserve	1	Range: 0 .. 255