Structure of data packet

Version 3.0
16.01.2023

The device transmits an image of **ImageWidth** by **ImageHeight** pixels in **ImageType** format via TCP-IP protocol as a data packet divided into **FrameCount** frames, each frame contains **FrameSize** bytes. The data packet header structure is shown in Table 1.

Device control commands are given in tables 2 and 3.

Table 1 - The structure of the header of the data packet

Offset in bytes	ID	Description	Size in bytes	Notes
0	Sign	Signature	4	1614081Eh
4	HeaderSize	Size of header	1	64 bytes
5	HeaderVer	Version of header	1	1 version
6	DeviceType	Type of device	1	1 version
7	IMEI	IMEI	15	Defined in device configuration
22	Reserve		1	Filled «0»
23	ICCID	ICCID	20	Defined in device configuration
43	ImageType	Type of Image (0 – RAW, 1 – BMP, 2 – JPG)	1	0 - RAW
44	ImageSize	Size of image	2	57600 bytes
46	ImageWidth	Width of Image in pixels	2	320 pixels
48	ImageHeight	Height of Image in pixels	2	180 pixels
50	FrameSize	Size of Frame in bytes	2	320 bytes
52	FrameCount	Count of Frames	2	180 frames
54	Brightness	Brightness of flashlight	1	Range: 0 .. 255
55	Reserve		9	Filled «0»

Table 2 - Command of request an image from a device

Offset in bytes	ID	Description	Size in bytes	Notes
0	Sign	Signature	4	1614081Eh
4	RequestSize	Size of Request	1	6
5	RequestType	Type of Request	1	0

Table 3 - Command for setting device parameters

Offset in bytes	ID	Description	Size in bytes	Notes
0	Sign	Signature	4	1614081Eh
4	RequestSize	Size of Request	1	8
5	RequestType	Type of Request	1	1
6	Param1	Set brightness of flashlight	1	Range: 0 .. 255
7	Param2	Reserve	1	Range: 0 .. 255