DualCam SMS commands

Contents

Camera firmware version

Additional SMS/GPRS command for cameras' firmware checking. Since both cameras are separate, there are two versions returned.

Command	Arguments	Explanation
camgetver	None	Used to check firmware versions. Returns version in the format: **V<major>.<minor>.<revision>.** For example, **V1.9.3.** Because there are two cameras, two versions are returned. The complete response would look like this: **Front camera V1.9.3. Rear camera V1.9.3.** If there are problems reading the version or if the camera is not responding/connected, the return would be this: **The front camera camgetver failed. The rear camera camgetver failed.**

Camera request command

A new camera request has been added, which allows the server to request files from a camera. The format is as provided below in the table:

Command	Arguments	Explanation
camreq:	<file_type>,<file_source>,<timestamp>,<duration>,<domain>,<port>,<resolution>(Only applied to photos)	Captures appropriate file with the provided details. If the connection to server is opened, them files immediately become available for download. If not, then the connection is tried to be made. If **<domain>** and **<port>** parameters are included, the device will send footage of the command to that address. If **<resolution>** parameter is included when requesting a photo, the device will send the photo with the selected resolution. **Please note,** that if the resolution parameter is not included in the SMS/GPRS command, the device will request a photo with configured resolution.

The arguments are as follows:

- <file_type>
  - 0 - Video
  - 1 - Photo
- <file_source>
  - 1 - Front camera
  - 2 - Rear camera
  - 3 - Both cameras

- <timestamp>
  - Unix timestamps in decimal (not required for photo download)
- <duration>
  - Video duration in seconds from provided timestamps (not required for photo download), (max 30 sec)
- <resolution> (**Only applied to photos**)
  - 0 – Use the resolution provided in the configuration
  - 1 – 160x120
  - 2 – 320x240
  - 3 – 640x480
  - 4 – 1280x720
  - 5 – 1920x1080

Structure examples:

camreq:<file type>,<file source>(if video, add ",<timestamp>,<duration>)

However, if there is a need to send to the specific server without configuring, you can add two extra parameters. The complete structure:

camreq:<file type>,<file source>(if video, add ",<timestamp>,<duration>),<domain>,port

For example: camreq:0,1,1624960616,5,212.59.13.226,7160

camreq:1,<file source>,<domain>,<port>,<resolution>

Upload with domain, port, and resolution provided by a request. Example: camreq:1,1,192.168.1.1,12345,4

Conditions	Command response	
Request successful and server connection successful. Device is ready to send selected file	Preparing to send file from timestamp <timestamp of the file>	
Request successful but the device was already connected to the server. Device is ready to send selected file	Already connected. Preparing to send file from timestamp <timestamp of the file>	
Request received but the capture failed	Error: capture failed	
Request received but the device cannot proceed with the capture and sending because ignition is off	Error: Cannot capture because ignition is off	
Request received but the previously captured and prepared photo/video was not sent. New media is not captured. The device is ready to send the previous capture	Warning: Photo / Video already captured previously, trying to send it	
Request received but the device was already connected to the server. New media is not captured. The device is ready to send previous capture	Already connected. Warning: Photo / Video already captured previously, trying to send it	
Request received but the camera doesn't acknowledge sent command. Nothing will be sent	Error: DualCam NAK	
Request received but the camera is not connected or not working	Error: DualCam not present	
Request received but the camera is not connected or not working	Error: requested file does not exist	
Request received but the device cannot connect to the server	Error: connect to server	
Request received but the modem is not ready for operation (network or modem issue)	Error: modem not ready to start send	
Request received but the device cannot proceed with the capture and sending because the camera is being reconfigured	Cannot send, DualCam configuration is in progress	
Request received but file capture time was exceeded.	Error: Media request timeout	
Request received but capture completed incorrectly	Error: Media request problem	
File type parameter incorrect in the request command	File Type	
File Source parameter incorrect in the request command	File Source	
Timestamp parameter incorrect in the request command	Timestamp	
Duration parameter incorrect in the request command	Duration	
Cannot proceed with the request, ignition is off	Error: Ignition not detected!	
Request command structure incorrect	Error: Invalid camera request command!	
RS232 and DualCam mode is not enabled	Error: DualCam is not configured!	
Front or rear camera not found	Error: Front / Rear Camera not present	

Photo request from source <1-3>. **(If photo request)**

Video request from source <1-3> for <1-30> seconds since YYYY-MM-DD HH:MM:SS. **(If video request)**

Error: Invalid argument in camera request cmd!

Camera SD card format command

The following command will format the SD card of the selected camera, and return the status (success or fail) of the format SD card command.

Command	Arguments	Explanation
camget_sdformat:	<cam id>	• 1 – Front camera • 2 – Rear camera

Example: **camget_sdformat:1**

Camera restart command

The following command will restart the selected camera, and return the status (success or fail) of the sent command

Command	Arguments	Explanation
camget_restart:	<cam id>	• 1 – Front camera • 2 – Rear camera

Example: **camget_restart:1**