DualCam Data Sending Parameters ID

Contents

DualCam RS232 camera support

DualCam camera support was introduced from firmware version 03.27.06.Rev.360. A new RS232 mode "DualCam" was added with parameters for setting control. The details of the RS232 mode parameter are provided in the table below.

Parameter name	Parameter ID	Parameter value
RS232 Mode	151	18

Configuration version 8.14.1.0 has to be used if configuration is being made in offline mode.

Camera Feature Settings Parameters ID

Once this mode is enabled, new tab “Camera Settings” appears on the left sidebar. This will contain the main parameters for configuring the camera settings The parameter IDs and values are provided in the table below. Once configuration is saved to device, these parameters are updated.

Parameter name	Parameter ID	Parameter values	Default values
Camera Picture Resolution	66000	0 - 160 x 120 1 - 320 x 240 2 - 640 x 480 3 - 1280 x 720 4 - 1920 x 1080	3
Camera Picture Compression	66001	[0 - 100] (%)	50
OSD Display	66002	0 - Disabled 1 - Enabled	0
Video Frame Rate	66003	20, 25 and 30 (frames per second)	30
File transfer priority	66025	0 - Picture 1 - Video 2 - Alternating	2

Camera Time Zone	66024	-720 – UTC-12:00 -690 – UTC-11:30 -660 – UTC-11:00 -630 – UTC-10:30 -600 – UTC-10:00 -570 – UTC-09:30 -540 – UTC-09:00 -510 – UTC-08:30 -480 – UTC-08:00 -450 – UTC-07:30 -420 – UTC-07:00 -390 – UTC-06:30 -360 – UTC-06:00 -330 – UTC-05:30 -300 – UTC-05:00 -270 – UTC-04:30 -240 – UTC-04:00 -210 – UTC-03:30 -180 – UTC-03:00 -150 – UTC-02:30 -120 – UTC-02:00 -90 – UTC-01:30 -60 – UTC-01:00 -30 – UTC-00:30 0 – UTC+00:00 30 – UTC+00:30 60 – UTC+01:00 90 – UTC+01:30 120 – UTC+02:00 150 – UTC+02:30 180 – UTC+03:00 210 – UTC+03:30 240 – UTC+04:00 270 – UTC+04:30 300 – UTC+05:00 330 – UTC+05:30 360 – UTC+06:00 390 – UTC+06:30 420 – UTC+07:00 450 – UTC+07:30 480 – UTC+08:00 510 – UTC+08:30 540 – UTC+09:00 570 – UTC+09:30 600 – UTC+10:00 630 – UTC+10:30 660 – UTC+11:00 690 – UTC+11:30 720 – UTC+12:00 750 – UTC+12:30 780 – UTC+13:00 810 – UTC+13:30 840 – UTC+14:00	UTC+00:00

OSD display - On Screen Display feature displays date and time in the upper left corner of the photo. This feature can be enabled or disabled.

Camera Feature Settings Parameters ID (for FMx650 devices)

	Parameter ID for FMX650 device	Parameter values for FMX650 device
Camera Resolution Picture	COM1 DualCam - 1001000 COM2 DualCam - 1002000	0 - 160 x 120 1 - 320 x 240 2 - 640 x 480 3 - 1280 x 720 4 - 1920 x 1080
Camera Picture Compression	COM1 DualCam - 1001001 COM2 DualCam - 1002001	[0 – 100] (%)
OSD Display	COM1 DualCam - 1001002 COM2 DualCam - 1002002	0 – Disabled 1 - Enabled
Video Frame Rate	COM1 DualCam - 1001003 COM2 DualCam - 1002003	20 – 20 FPS 25 - 25 FPS 30 - 30 FPS
File Transfer Priority	COM1 DualCam - 1001025 COM2 DualCam - 1002025	0 - Picture 1 - Video 2 - Alternating

Camera Time Zone	COM1 DualCam - 1001024 COM2 DualCam - 1002024	-720 – UTC-12:00 -690 – UTC-11:30 -660 – UTC-11:00 -630 – UTC-10:30 -600 – UTC-10:00 -570 – UTC-09:30 -540 – UTC-09:00 -510 – UTC-08:30 -480 – UTC-08:00 -450 – UTC-07:30 -420 – UTC-07:00 -390 – UTC-06:30 -360 – UTC-06:00 -330 – UTC-05:30 -300 – UTC-05:00 -270 – UTC-04:30 -240 – UTC-04:00 -210 – UTC-03:30 -180 – UTC-03:00 -150 – UTC-02:30 -120 – UTC-02:00 -90 – UTC-01:30 -60 – UTC-01:00 -30 – UTC-00:30 0 – UTC+00:00 30 – UTC+00:30 60 – UTC+01:00 90 – UTC+01:30 120 – UTC+02:00 150 – UTC+02:30 180 – UTC+03:00 210 – UTC+03:30 240 – UTC+04:00 270 – UTC+04:30 300 – UTC+05:00 330 – UTC+05:30 360 – UTC+06:00 390 – UTC+06:30 420 – UTC+07:00 450 – UTC+07:30 480 – UTC+08:00 510 – UTC+08:30 540 – UTC+09:00 570 – UTC+09:30 600 – UTC+10:00 630 – UTC+10:30 660 – UTC+11:00 690 – UTC+11:30 720 – UTC+12:00 750 – UTC+12:30 780 – UTC+13:00 810 – UTC+13:30 840 – UTC+14:00

Camera Scenario Settings Parameters ID

"Camera settings" tab also contains scenario settings that trigger camera video/photo capture when specific condition is met.

Parameter name	Parameter ID	Parameter values	Default values
Periodic Image sending	66006	0 - Disabled 1 - Front Camera 2 - Rear Camera 3 - Both Cameras	0
Sending interval	66007	[10-1800] (seconds)	600
Image Sending Trigger	66022	0 - None 2 - DIN1 4 - DIN2 8 - Crash 16 - Towing 32 - Idling 64 - Geofence 128 - Unplug 256 - Green Driving	0
Video sending trigger	66023	0 - None 2 - DIN1 4 - DIN2 8 - Crash	0
Video duration before trigger	66009	[1-10] (seconds)	5
Video duration after trigger	66010	[1-10] (seconds)	5

Camera Scenario Mode	66020	0 - On Ignition 1 - Always	0
Video source for trigger DIN1	66040	0 - None 1 - Front 2 - Rear 3 - Front and Rear	0
Video source for trigger DIN2	66041	0 - None 1 - Front 2 - Rear 3 - Front and Rear	0
Video source for trigger Crash	66042	0 - None 1 - Front 2 - Rear 3 - Front and Rear	0

Camera Scenario Settings Parameters ID (for FMx650 devices)

	Parameter ID for FMX650 device	Parameter Values for FMX650 device
Periodic Image Sending	COM1 DualCam - 1001006 COM2 DualCam - 1002006	0 - Disabled 1 - Front Camera 2 - Rear Camera 3 - Both Cameras
Sending Interval	COM1 DualCam - 1001007 COM2 DualCam - 1002007	[10 - 1800] (seconds)
Image Sending Trigger	COM1 DualCam - 1001022 COM2 DualCam - 1002022	2 - DIN1 4 - DIN2 8 - DIN3 16 - DIN4 32 - Crash 64 - Towing 128 - Idling 256 - Geofence 512 - Unplug 1024 - Green Driving
Video Sending Trigger	COM1 DualCam - 1001023 COM2 DualCam - 1002023	0 - None 1 - DIN1 2 - DIN2 3 - Crash
Video duration before Trigger	COM1 DualCam - 1001009 COM2 DualCam - 1002009	[0 - 15] (seconds)
Video duration after Trigger	COM1 DualCam - 1001010 COM2 DualCam - 1002010	[0 - 15] (seconds)
Camera Scenario Mode	COM1 DualCam - 1001020 COM2 DualCam - 1002020	0 - On Ignition 1 - Always
Video Source for Trigger DIN1	COM1 DualCam - 1001040 COM2 DualCam - 1002040	0 - None 1 - Front 2 - Rear 3 - Front and Rear
Video Source for Trigger DIN2	COM1 DualCam - 1001041 COM2 DualCam - 1002041	
Video Source for Trigger DIN3	COM1 DualCam - 1001044 COM2 DualCam - 1002044	
Video Source for Trigger DIN4	COM1 DualCam - 1001045 COM2 DualCam - 1002045	
Video Source for Trigger Crash	COM1 DualCam - 1001042 COM2 DualCam - 1002042	

Video sending by trigger parameters ID

Video sending by trigger camera scenario monitors the selected trigger (video sending trigger parameter) and captures video from front, rear or both cameras before and after the event (video duration before trigger and video duration after trigger parameters). If the previously captured video has not finished downloading, then a new video capture is skipped until the old one has been sent. When this scenario is triggered, high priority eventual record is generated with the value corresponding to what triggered the scenario. See the table below.

Parameter name	Parameter AVL ID	Parameter value
SOS trigger	499	0 - Server request 1 - DIN1 2 - DIN2 3 - Crash

Image sending trigger parameters ID

Added Image sending trigger option (works the same way as Video sending trigger just triggers image sending). Both front and rear images will be sent.

For selecting multiple options using SMS/GPRS commands, add values of every option and set that value for this parameter.

For example, to set DIN1 (2), Crash (8), and Unplug (128) scenarios as triggers, add their values (2 + 4 + 128 = 138) and set the sum as the parameter value

Parameter name	Parameter AVL ID	Parameter value
SOS trigger	499	0 - Server request 1 - DIN1 2 - DIN2 3 - Crash 4 - Towing 5 - Idling 6 - Geofence 7 - Unplug 8 - Green Driving

Camera ping transmission and TF status checking parameters ID

Camera pinging was implemented to periodically check if a camera is connected to a device. This is done via “Get TF status” command for both front and rear camera every 20 seconds when ignition is on. The received result from this command is stored in two corresponding AVL elements “Front camera state” and “Rear camera state”. The following do not only store TF status, but also if response from the camera was received or not.

Parameter name	Parameter AVL ID for FMx125, FMx225 devices	Parameter AVL ID for FMx650 devices	Parameter Values
Front Camera State:	498	COM1 DualCam - 12301 COM2 DualCam - 12304	0 - Camera not detected 1 - No Card 2 - Card mount failed 3 - Card mounted 4 - Card faulty
Rear Camera State:	497	COM1 DualCam - 12302 COM2 DualCam - 12305	