

Modular FrameGrabber (MGB)

The MGB FrameGrabber is an electronic device developed for video stream capture from Volkswagen Group infotainments (ABT, FPK, i.ID, HUD etc.). MGB captures a video stream and transfers it as a TCP stream via Gigabit Ethernet to PC for further processing and analysis.



The MGB is connected directly to the video interface between an infotainment central unit (ZR) and an infotainment LCD display.

The device is capable of transferring captured video streams in various compressed or non-compressed formats via TCP streams. H.264, Motion JPEG lossy compressions, and loss-less raw video formats are supported.

Screenshots are stored with loss-less compression in PNG format.

Available interfaces

- > LVDS GMSL 2/3
- > LVDS FPD Link 3
- > LVDS FPD Link 2
- > FPK Entry
- > FPK Basic
- > FPK Medium
- > MIB3 EI

Available interfaces are capable of grabbing all LVDS systems used within the VW group.

Input video signal parameters (resolution, signal level, etc.) are detected automatically, thus the user does not need to set them manually.

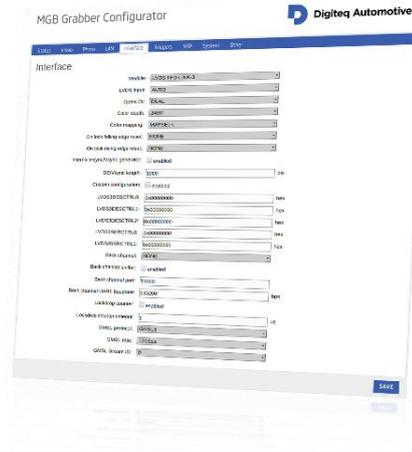
Key features

- ✓ Video stream capture from VW Infotainments group (ABT, FPK, i.ID, HUD etc.)
- ✓ Supports all LVDS systems used in the VW group
- ✓ Configuration via a web interface and/or a TCP control socket API
- ✓ Video streams in various formats (without compression or with H.264 and Motion JPEG compression)
- ✓ Provides screenshots in PNG format
- ✓ LVDS backchannel support
- ✓ Various triggers (GPIO, CAN, etc.)
- ✓ Gbit Ethernet

Specifications

Configuration of the MGB parameters is done via a user-friendly web interface. The user can configure various parameters, such as network settings, type of interface (GMSL 2/3, LVDS 2/3, etc.), type of video codec (H.264, Motion JPEG, RAW, etc.), properties of an Area of Interest, screenshot frequency, etc.

The MGB has implemented a trigger functionality. Trigger events from several sources are supported: 2 external GPIO inputs, a CAN bus event, and the trigger button on the MGB chassis.



Accessories

- › GMSL 2/3 module
- › FPD Link 3 module
- › FPD Link 2 module
- › FPK Entry adaptor
- › FPK Medium set
- › FPK Basic set
- › MIB3 EI adaptor
- › MGB backup module
- › FPD Link 2/3 LVDS cable (straight connectors on both sides)
- › FPD Link 2/3 LVDS cable (one connector straight, second 90°)
- › GMSL 2/3 LVDS cable (straight connectors on both sides)

Technical parameters

Supported interfaces	FPD Link 2/3, GMSL 2/3
Video formats	H264, MJPEG, RAW
Screenshot format	PNG
Connections	CAN, UART, 2× GPIO, Trigger Input
Network	Gigabit Ethernet
Power supply	9 V to 30 V
Operating temperature	0° C to 70° C
Dimensions (W × D × H)	170 × 170 × 60 mm
Weight	1.3 kg



For ordering, further details and available accessories please contact us: business.products@digiteqautomotive.com

