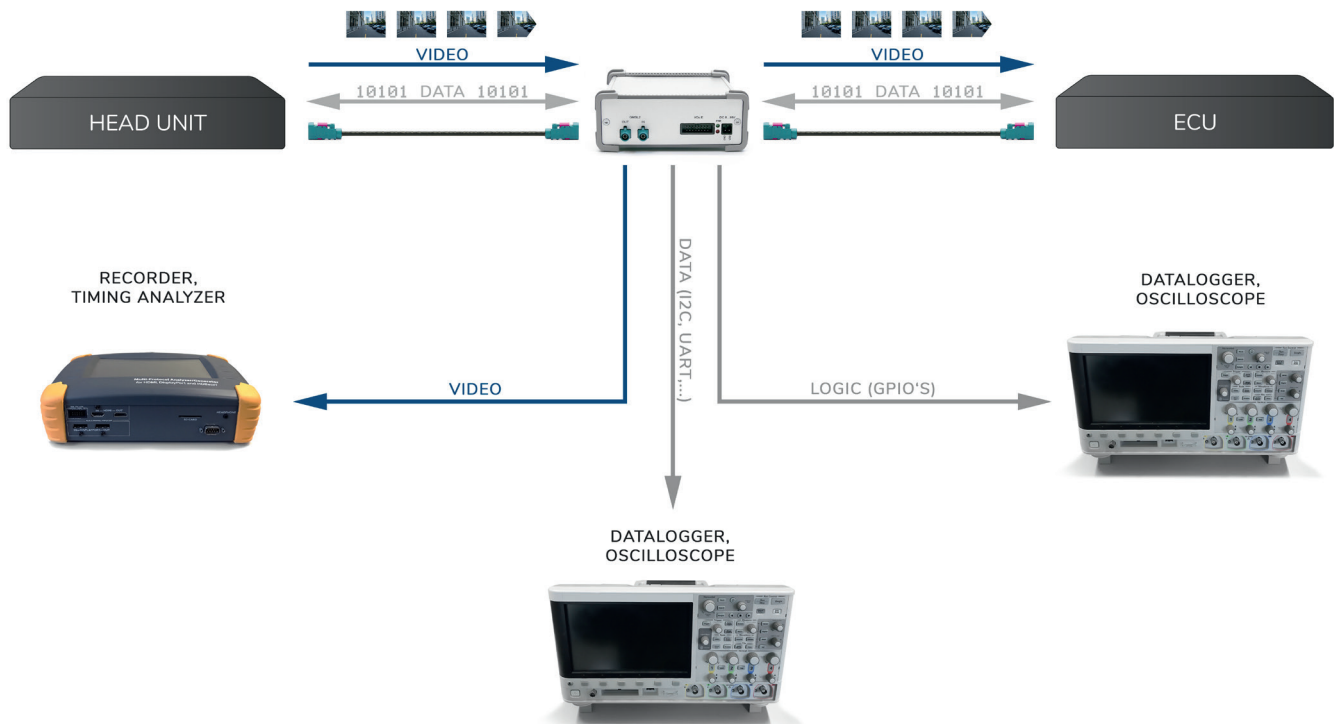


SIGNAL SNIFFER FOR AUTOMOTIVE VIDEO LINKS

Video & Control Channel Sniffing between
Automotive Video Link Components

The answer to your challenges is here

Video & Control Channel Sniffing between Automotive Video Link Components



Features

- ▶ Sniffing of control channel information between components in less than 10 minutes setup time
- ▶ All-in carefree package: tools, cables and parameters included
- ▶ Pre-configuration and Plug&Play support included
- ▶ Easy adaptable to new use-cases
- ▶ Applicable to Display, Head-Unit, ECU and Camera validation, laboratory, rack and in-car testing
- ▶ Wide variety of TZ add-on products



Play



Record



Visualize



Analyze



Modify

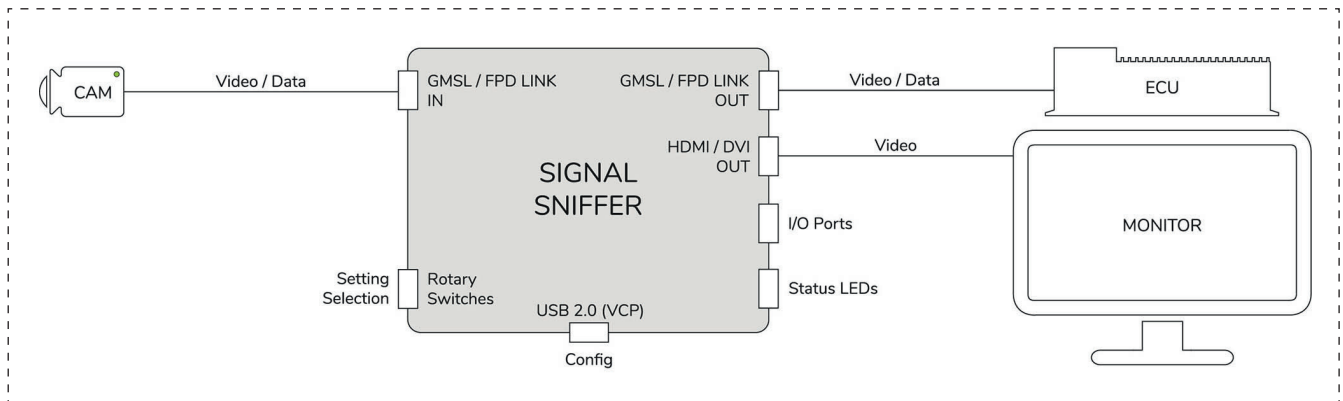


Route



Engineer

General Device Structure



Key Features

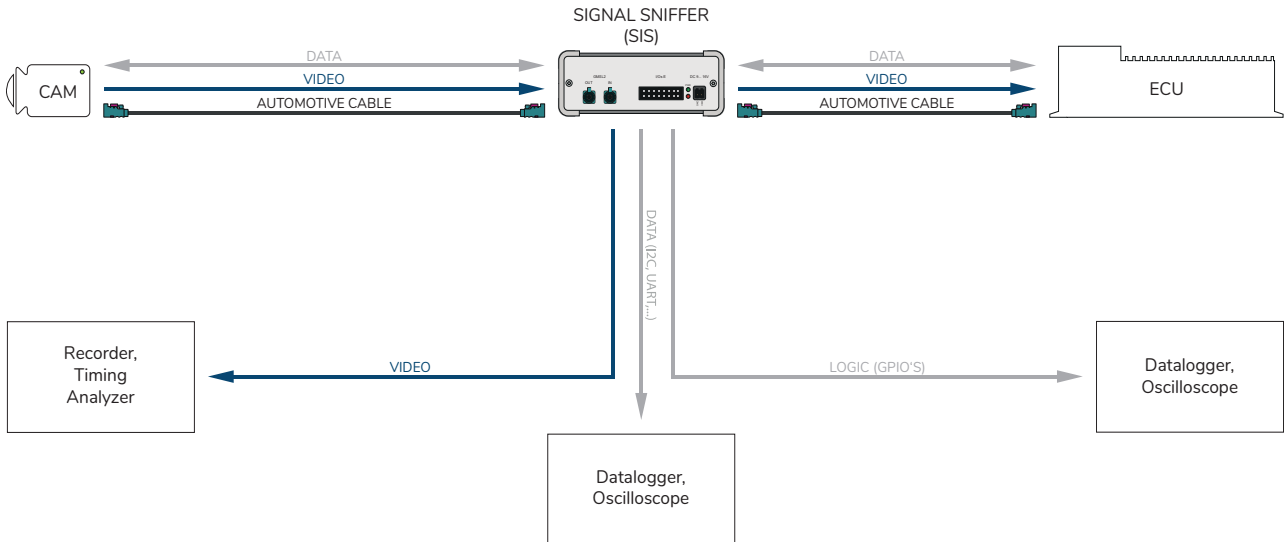
- ▶ Easy sniffing of control channel communication between Display, Head-Unit, ECU and camera components
- ▶ Available for Maxim GMSL, GMSL2, TI FPD-Link III
- ▶ Sniffing link decoupled from main link
- ▶ External access to deserializer pins like I2C, GPIO or UART for the usage with host adapters e.g. Aardvark
- ▶ Up to 80 pre-configured settings plus 20 user defined settings for different link settings, resolutions and color formats
- ▶ TZ GUI for simple and quick settings configuration and easy firmware updates
- ▶ Available for various output connector types

Typical Customer Applications

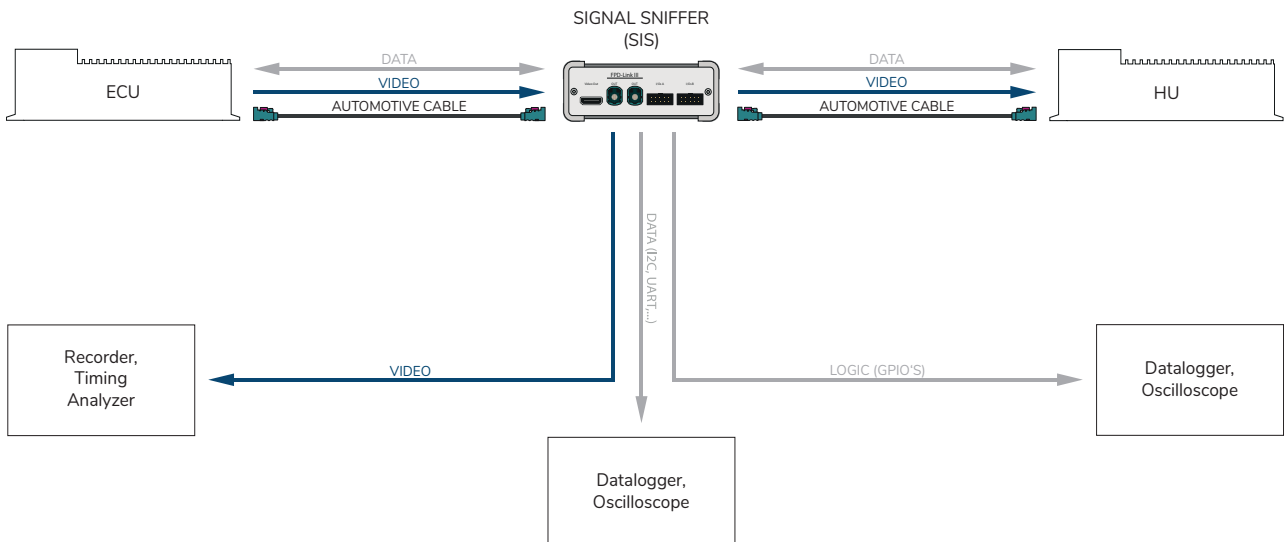
- ▶ Easy testing at users working desk
- ▶ Hardware in the loop tests
- ▶ Environmental tests
- ▶ End of the line testing

Use Cases

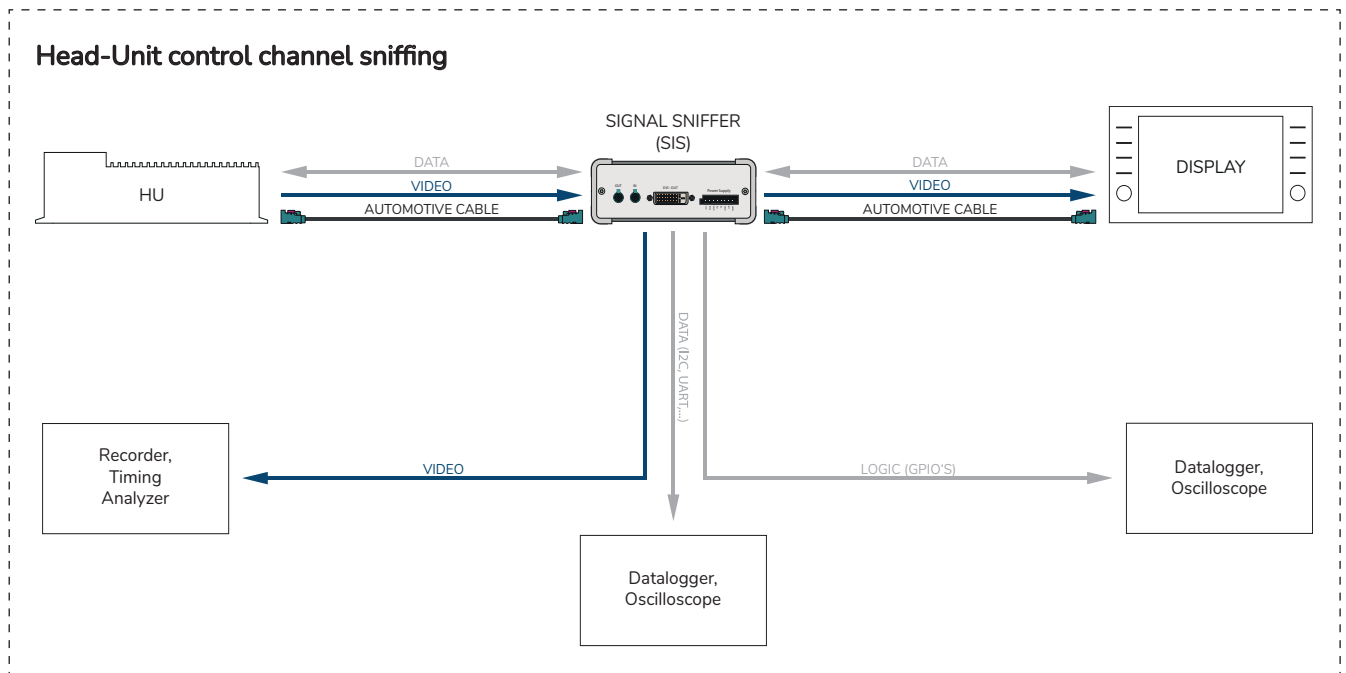
Camera control channel sniffing



ECU control channel sniffing



Use Cases



Technical Data

PC interface (configuration)	USB 2.0 (VCP)
Power supply	+9 to 16V (DC)
Power consumption	Max. 4W
Temperature range	0°C...70°C

Signal Sniffer Variations

Part No	Technology	Serializer	Deserializer	Input & Output Connector	Video Out Connector
SIS0010	GMSL	MAX9275	MAX9276	FAKRA	DVI
SIS0020	GMSL2	MAX9259A	MAX9296A	FAKRA	---
SIS0040	FPD-LINK III	DS90UB947	DS90UB948	Rosenberger HSD	HDMI



SIS0010

















SIS0020




SIS0040

Signal Sniffer Features

Part No	Features
SIS0010	  
SIS0020	    
SIS0040	     

 Maxim Integrated


 Texas Instruments

 DVI

 HDMI


 Setting Switches

 External access to SERDES pins

 TZ GUI Support

 Built-in Control Channel Master

 Dual Link

 System enable pin

Suitable Add-on Products

Part No	Description
SW0010	1:8 Rosenberger HSD Switch
SW0030	2:1 Rosenberger HSD Switch (DUAL Link)
SW0060	8:1 Rosenberger HSD Switch
SW0080	2:1 FAKRA Switch
SW0090	8:1 FAKRA Switch
MOD0010	Rosenberger HSD to FAKRA Adapter
MOD0061	UART or RS232/USB Adapter
MOD0200	I2C to USB-HID Adapter



SW0010



SW0060



SW0080



SW0090



MOD0061



MOD0200

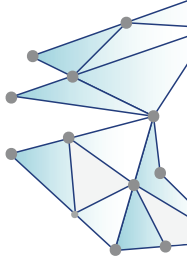
Imprint

TZ Electronic Systems GmbH
75223 Niefern-Öschelbronn
+49 7233 – 9589894
info@tz-es.com
www.tz-es.com

© Copyright 2021, TZ Electronic Systems GmbH. All rights reserved.



we empower
automotive video
innovations



TZ Electronic Systems GmbH
75223 Niefern-Öschelbronn
www.tz-es.com

General Inquiries
info@tz-es.com
+49 7233 – 958 99 45
Availability by telephone:
Monday through Thursday,
8 a.m. to 4 p.m.
Friday 8 to noon

Sales
sales@tz-es.com
+49 7233 – 958 99 64
Availability by telephone:
Monday through Thursday,
9 a.m. to 4 p.m.
Friday 9 to noon

Support
support@tz-es.com