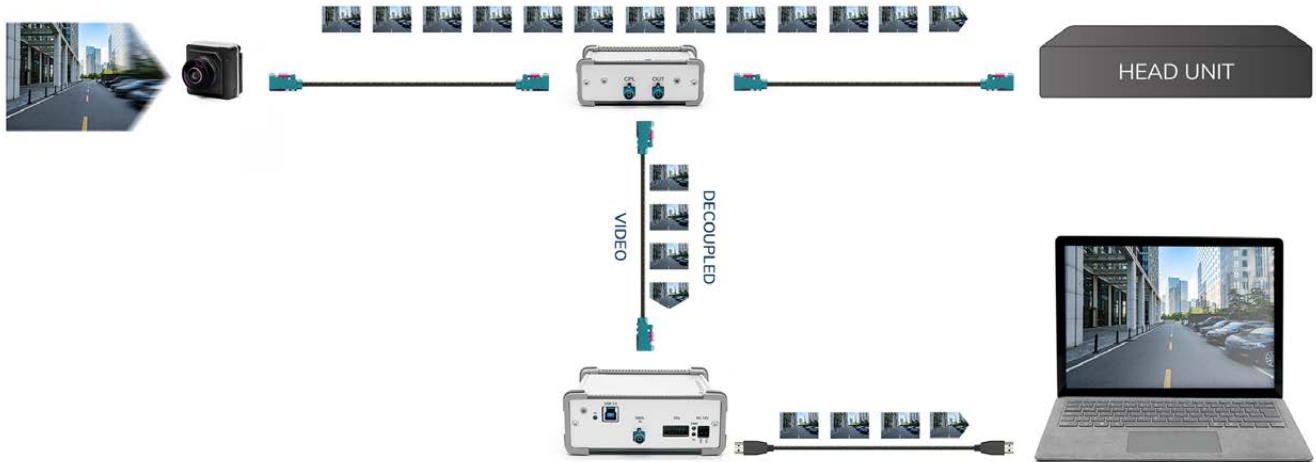


DIRECTIONAL COUPLER

Monitoring of links between sink and source
Suitable for all automotive high speed and antenna links

The answer to your challenges is here

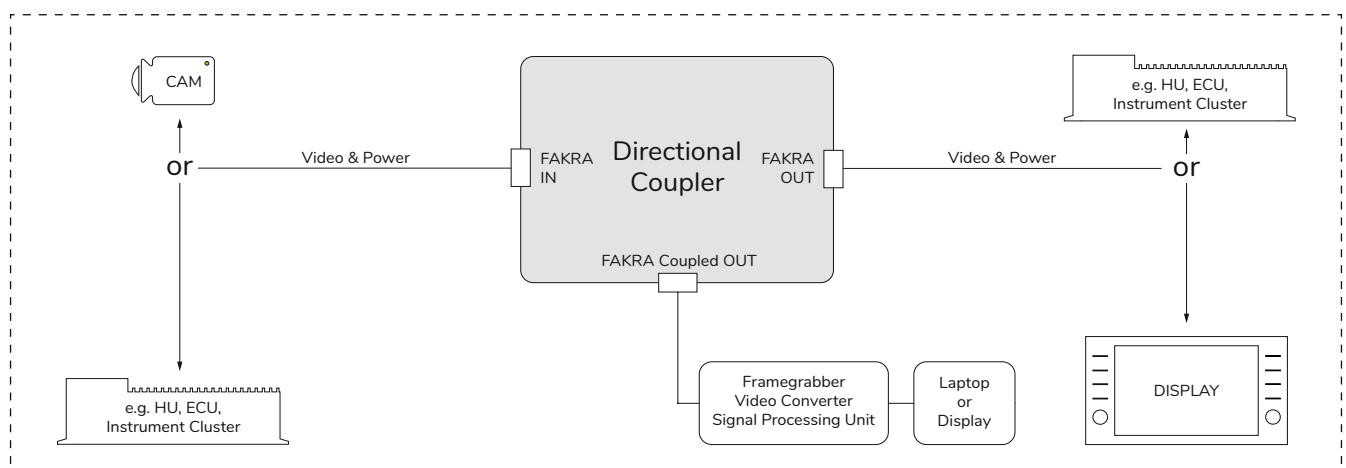
Monitoring of links between sink and source without interference on logical connection



Features

- ▶ Monitoring of links between source and sink without interference on logical connection
- ▶ Easy adaptable to new use-cases
- ▶ All-in carefree package: cables included
- ▶ Plug&Play support included
- ▶ Wide variety of TZ add-on products

General Device Structure



Key Features

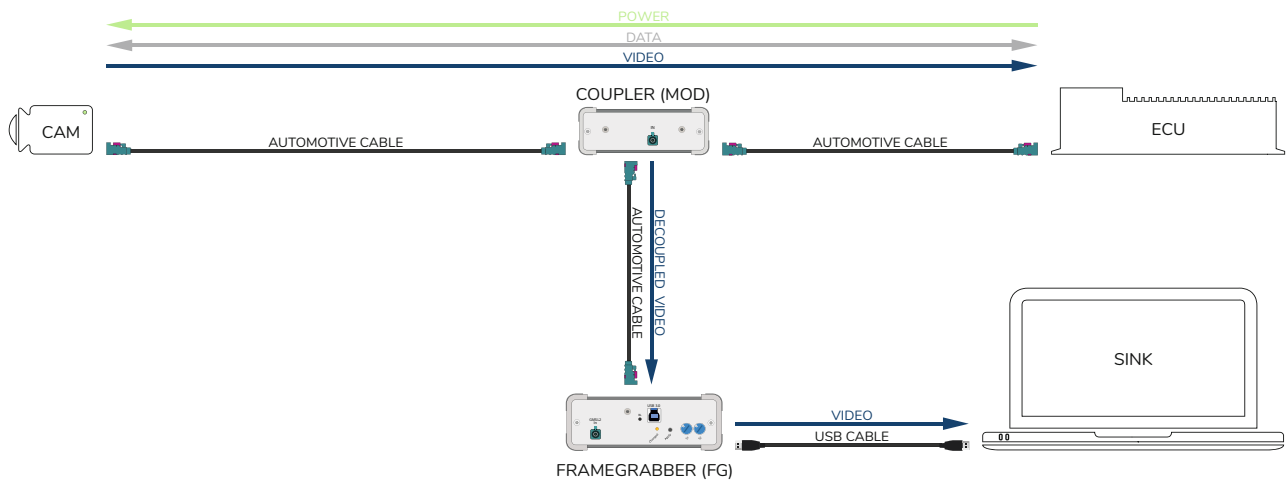
- ▶ Minimal impact on physical connection between sink and source, as only energy is decoupled from the link
- ▶ Easy to integrate in existing system
- ▶ For high speed coax applications
- ▶ Pass-through of communication channels due to wide frequency range
- ▶ Power over Coax pass-through
- ▶ No latency between source and sink
- ▶ Minimal losses between in- and output
- ▶ Completely passive device, no power supply needed

Typical Customer Applications

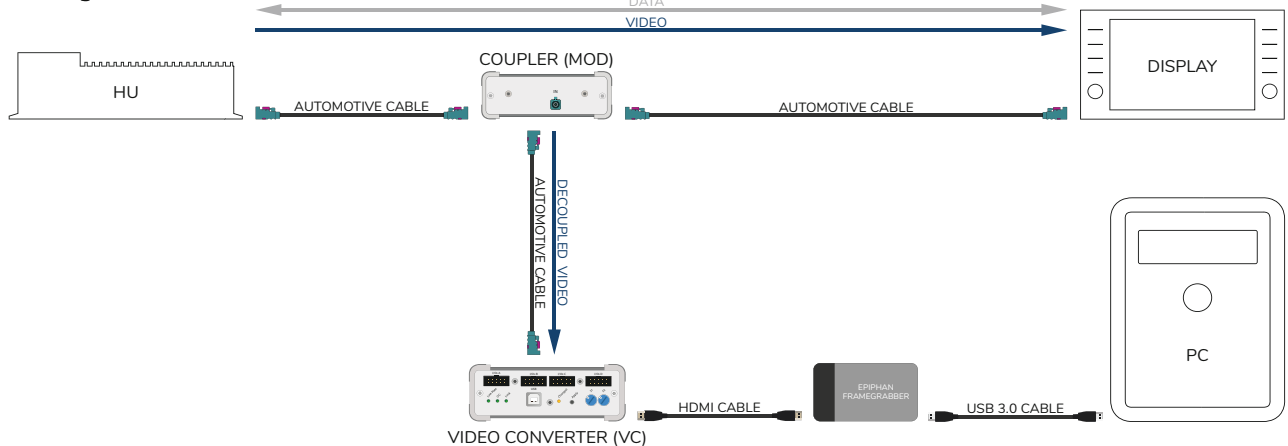
- ▶ Monitoring of links between source and sink in normal operation
- ▶ Easy testing at users working desk
- ▶ In-Car recording of decoupled video signals in experimental vehicles
- ▶ Hardware in the loop tests
- ▶ Display testings

Use Cases

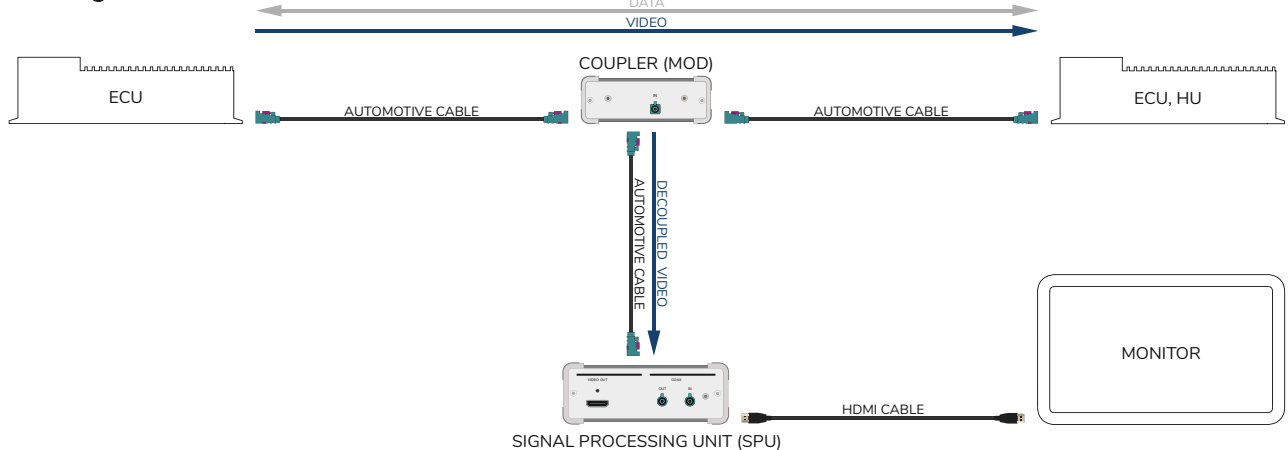
Camera Signal



HU Signal



ECU Signal



Technical Data

Video Interface Input and Output	FAKRA connector, neutral coding
Frequency Range	50 to 6000 MHz
Mainline Loss (OUT) @ 1.6 & 3.2 GHz	Typ. 4.0 dB / Max. 5.5 dB
Coupling Loss (CPL) @ 1.6 & 3.2 GHz (CPL0210 & CPL0215)	Min. 9.0 dB / Typ. 11.0 dB / Max. 13.0 dB
Nominal differential output swing (CPL0220 & CPL0225)	500 mV _{P-P}
Impedance	50 Ω
Dimensions [L/W/H] (without connectors) (CPL0210 & CPL0215)	130 / 62 / 55 mm
Dimensions [L/W/H] (without connectors) (CPL0220 & CPL0225)	130 / 110 / 55 mm
Temperature range	0°C...70°C

Coupler Variations

Part No	Connector	Description
CPL0210 (formerly MOD0020)	FAKRA	For lines with power over COAX
CPL0215 (formerly MOD0025)	FAKRA	For lines without power over COAX
CPL0220	FAKRA	Active coupler with two decoupled outputs for lines with power over COAX
CPL0225	FAKRA	Active coupler with two decoupled outputs for lines without power over COAX



CPL0210



CPL0215



CPL0220



CPL0225

Suitable Add-on Products

Part No	Description
FG0010	Frame Grabber GMSL->USB3.0 (FAKRA Version)
FG0013	Frame Grabber GMSL->USB3.0 (FAKRA Version, Pro)
FG0016	Frame Grabber GMSL->USB3.0 (FAKRA Version, MAX9286 based)
FG0023	Frame Grabber GMSL2->USB3.0 (Fakra Version)
FG0033	Frame Grabber GMSL2->USB3.0 (H-MTD Version, Pro)
VC0113	Video Converter GMSL2->DP (FAKRA Version, Pro)
SPU0061	Signal Processing Unit GMSL2->HDMI (FAKRA Version)
SPU0080	Signal Processing Unit GMLS1/2->HDMI (FAKRA Version)



FG0010



FG0013



FG0016



FG0023



FG0033



SPU0061



SPU0080

Accessories

Part No	Description
AC3003	1,5m Leonie Dacar 302 cable with FAKRA connector (straight jack, z-coding)
AC3033	3.0m Leonie Dacar 302 cable with FAKRA connector (straight jack, z-coding)
AC3006	5.0m Leonie Dacar 302 cable with FAKRA connector (straight jack, z-coding)
	Further Leonie Dacar cable assemblies on request

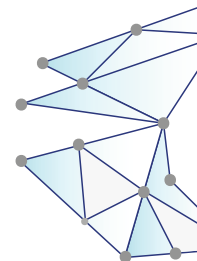
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we empower
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innovations



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