



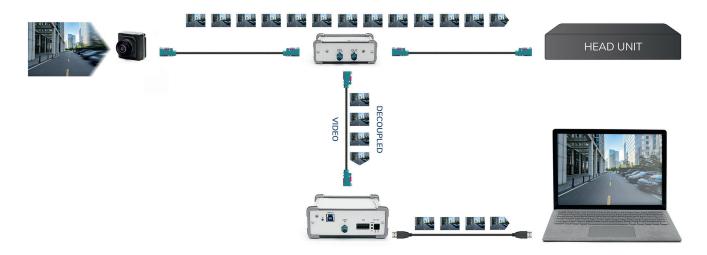
DIRECTIONAL COUPLER

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



The answer to your challenges is here <a>O <

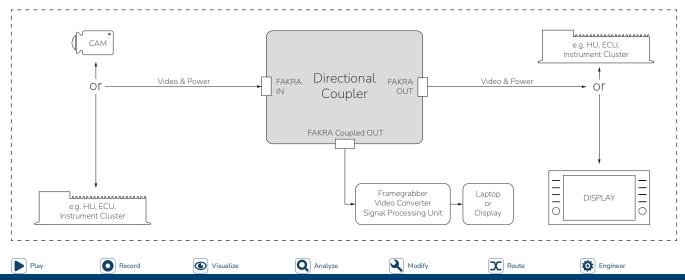
Monitoring of links between sink and source without interference on logical connection



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

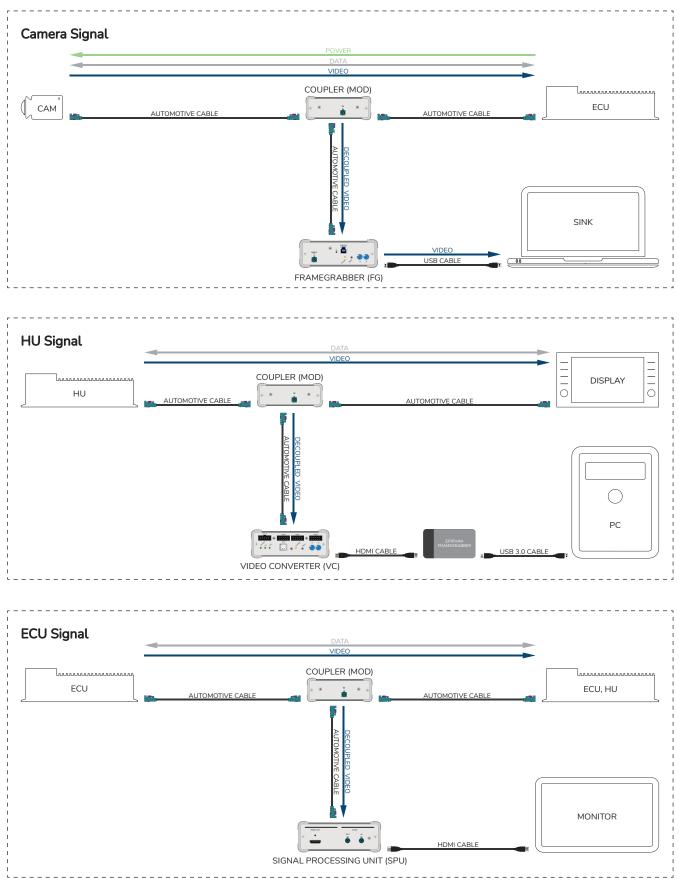
- Minimal impact on physical connection between sink and source, as only energy is decoupled from the link
- Easy to integrate in existing system
- For high speed coax applications
- Pass-through of communication channels due to wide frequency range
- Power over Coax pass-through
- No latency between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

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





Technical Data

Automotive Video Link Technologies	GMSL1, GMSL2
Video Interface Input and Output	FAKRA connector, neutral coding
Impedance	50 Ω (Fakra), 100 Ω (H-MTD)
Power Supply	+12V (DC) active coupler only
Dimensions [L/W/H] (without connectors) (CPL0210 & CPL0215)	130 / 62 / 55 mm
Dimensions [L/W/H] (without connectors) (CPL0220 & CPL0225)	130 / 110 / 55 mm

Coupler Variations

Part No	Connector	Description
CPL0210	FAKRA	For lines with power over COAX
CPL0215	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
CPL0315	H-MTD	For lines without power over differential lines



CPL0210







CPL0225



CPL0315



Suitable Add-on Products

Part No	Description
FG0014	Frame Grabber GMSL1->USB3.0 (FAKRA Version)
FG0026	Frame Grabber GMSL2->USB3.0 (FAKRA Version)
FG0053	Frame Grabber GMSL1->USB3.0 (FAKRA Version))
FG0063	Frame Grabber GMSL2->USB3.0 (Fakra Version)
VC0113	Video Converter GMSL2->DP (FAKRA Version, Pro)
VC0120	Video Converter GMSL1/2->DP (FAKRA Version, Pro)
VC0316	Video Converter GMSL1/2->DP (FAKRA Version, Pro)
SPU0061	Signal Processing Unit GMSL2->HDMI (FAKRA Version)
SPU0080	Signal Processing Unit GMLS1/2->HDMI (FAKRA Version)
SPU0180	Signal Processing Unit GMLS1/2->HDMI (FAKRA Version)













FG0014

VC0316

FG0026

SPU0061

FG0053

FG0063



SPU0180

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