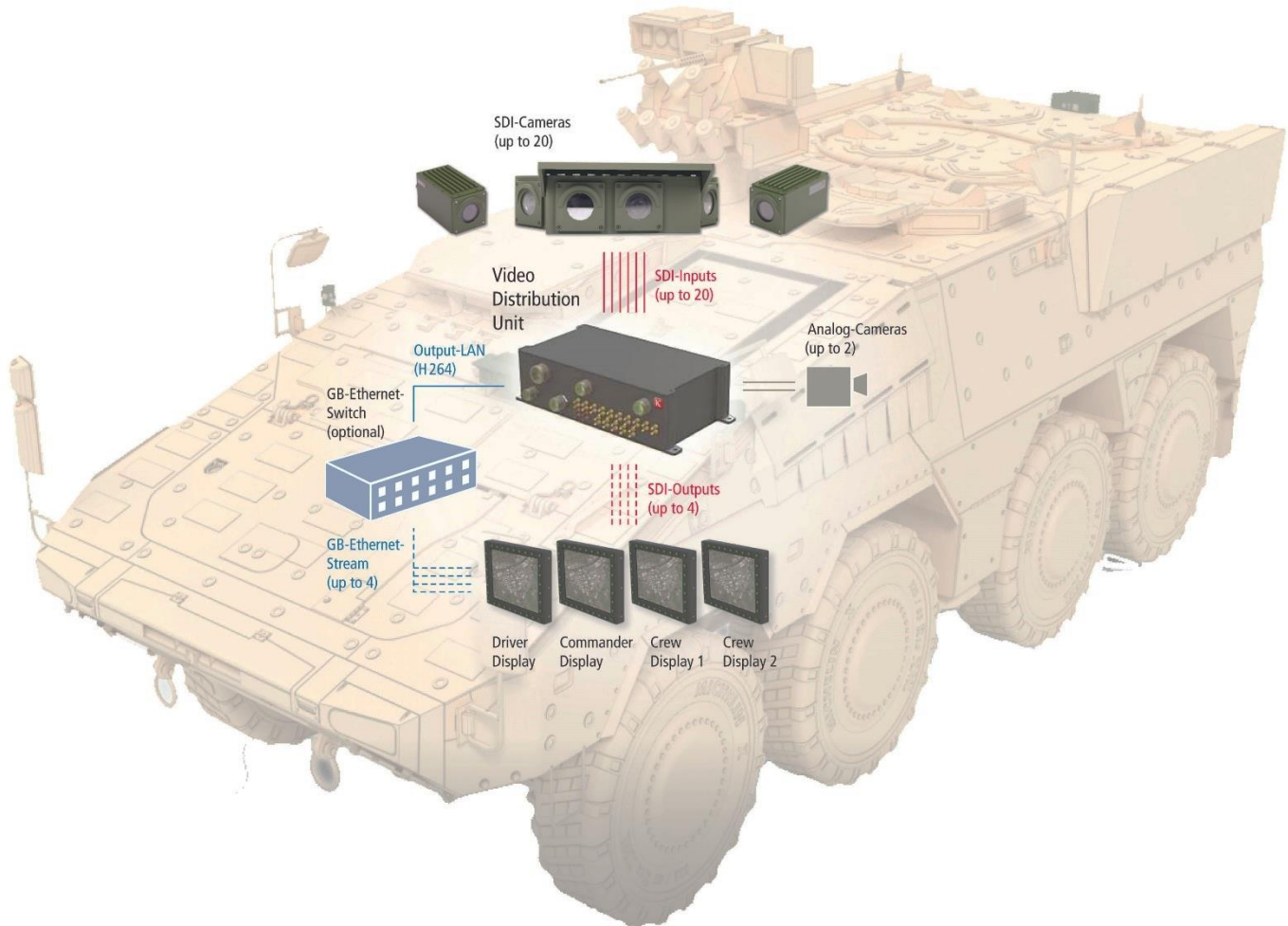









Armor Eye – Digital Video Distribution Unit









Latency-Free Image Processing, scalable approach to fit any use case, prepared for future image processing algorithms as a part of Kappa’s turnkey system solutions for ground vehicle and retrofit programs.



Strong Points

-  Latency-free single view
-  Easy vehicle integration
-  Modular, scalable and upgradable
-  360° Seamless Stitching
-  Image Fusion
-  Prepared for future AI algorithms
-  Augmented Reality

Your Benefits

-  Ultra-fast reactions
-  Safe & exact threat detection
-  Day & night missions
-  Nausea & fatigue prevention
-  Itar-free
-  Clear product roadmap for future upgrades
-  Long-term available
-  Turnkey with flexible design

References | In the Field

- FFG WISENT II
- Royal Norwegian Army
- Bundeswehr
- JCB High Mobility Engineer
- Excavator

Read more: kappa-optronics.com/dve

See more: Video footage from test drive:



We are constantly checking the accuracy of the technical data. We are prepared to provide more detailed information on request. Technical data are subject to change without notice!

Headquarters

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Armor Eye – Digital Video Distribution Unit

Latency-Free Image Processing, scalable approach to fit any use case, prepared for future image processing algorithms as a part of Kappa's turnkey system solutions for ground vehicle and retrofit programs

Video In- and Output Interfaces	Digital VDU Base	Digital VDU Smart	Digital VDU Medium	Digital VDU Full
Digital SDI Input	4 ch	8 ch	16 ch	20 ch
Analog Video Input	2 ch	2 ch	2 ch	2 ch
H.264 RTP Stream Output	2 ch	3-4 ch	4 ch	4 ch

Features

SDI input standards	ED-SDI, SD-SDI, HD-SDI (SMPTE 296M and SMPTE 292M); 3G-SDI
SDI input formats	1080P30/60, 720P30/60, 480P, 576P
Analog video input interfaces	CVBS PAL/NTSC
SDI output standard and format	3G-SDI 1080P60
Streaming Outputs	DEF-STAN 0082 H.264 compressed RTP protocol via GigE
Control interface	GigE, CAN Bus, RS485
Control Protocol	GVA, NGVA, VICTORY, GVCP
Latency	Zero latency in by-pass processing, Low latency in image processing
Picture Modes	Single Mode, Dual View, Triple View, Quad View, Picture in Picture
Safety	Failure Monitoring and Metadata Processing
Overlay	Augmented Reality Overlay
GPU optional	NVIDIA GPU for AI, image fusion, 360-degree stitching and image enhancement
Diagnostics	integrated self-test (power supply, temperature)

General Data

Dimensions	340 mm x 100 mm x 165 mm (without connectors)
Weight	3.500 g
Power supply	28V DC MIL1275E, Base 20 W, Smart 40 W, Medium 80 W, Full 100 W
Connectors	Power D38999, Control D38999, Video Data Micro BNC, GigE D38999, NGVA compliant
Cooling	Conducted cooling
Mounting Points	Four mounting holes
Temperature	33 °C to 71 °C (MIL STD 810 G 501.5 - High Temperature Procedure II- hot dry (A1)) -51 °C (MIL STD 810 G 502.5 - Low Temperature Procedure II- severe cold (C3))
Relative humidity	MIL STD 810 507.5-5 Natural Cycle B2- Cyclic high humidity
IP code	IP54 for placement inside vehicle
Shock	MIL STD 810 G 516.6 Procedure I - Functional Shock (40 g/ 11 ms)
Vibration	MIL STD 810 G 514.6 Vibration Category 20 Tracked Vehicle (5 Hz to 2000 Hz) AECTP400 Figure B-3 Heavy Vehicle
EMI (emissions)	Electric field emissions: RE102-4 (MIL-STD-461G) Conducted emissions: CE102-1, basic curve (MIL-STD-461G)
EMI (susceptibility)	Radiated susceptibility: RS103, 2MHz to 18GHz (MIL-STD-461G) Conducted susceptibility: CS101-1, CS101-2, CS114-1, CS115-1, CS116-1 (MIL-STD-461G)
EMI (ESD)	CS118, +/-8 KV contact discharge (MIL-STD-461G)

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