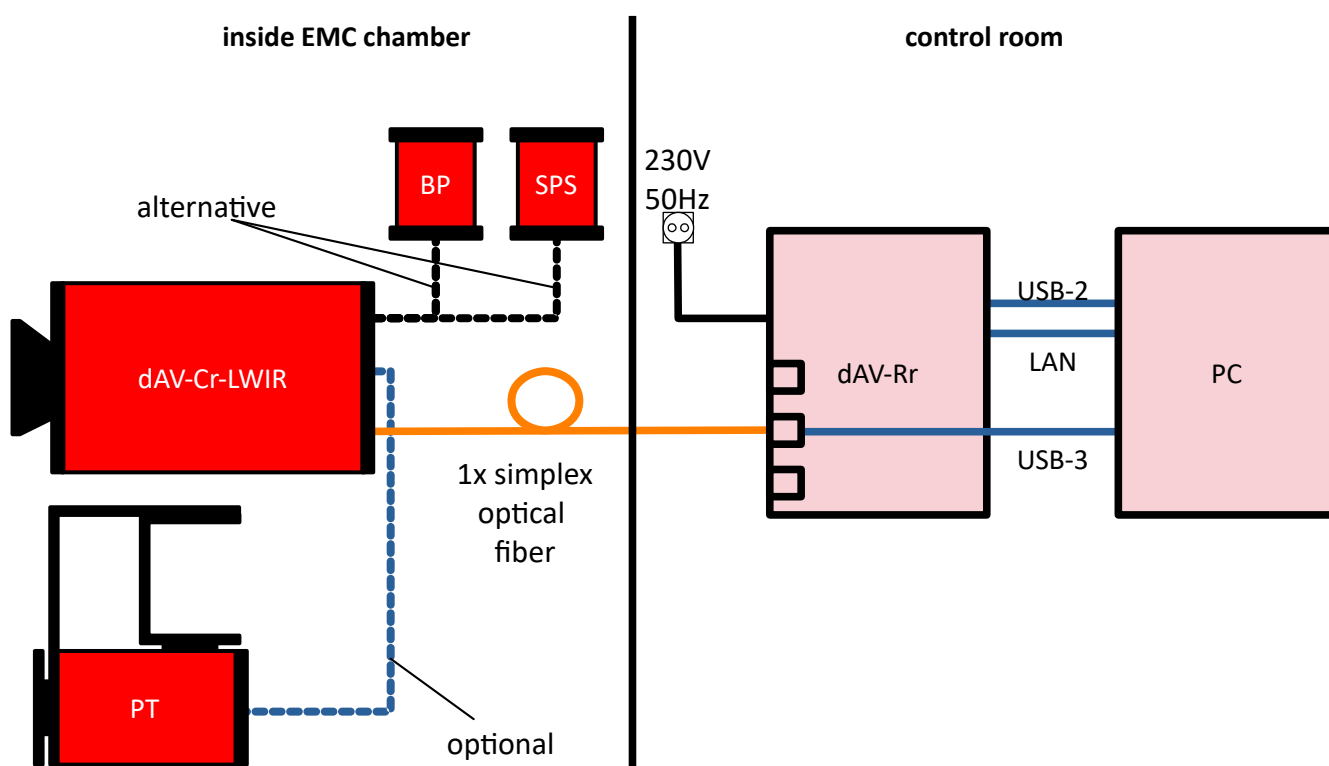## Field of application and characteristics

The dAV-Cr-LWIR VGA system can be used for the thermal surveillance of devices or parts that are subject to heating up during the EMC test.

Different resolutions and focal lenses available according to the required setup and field of application.

With the optical transmission and the shielded case, the system is well equipped for EMI and EME tests.

Application

Technical data

Sensor data:	17 µm, uncooled, long wave infrared
Sensor resolution:	qVGA (640x480p)
Frame rate:	up to 60 fps, low delay
Focal lens:	standard: M34x0.5 fix focus, focal length selectable, e.g. 14.25 mm (HFOV: 44°) others on request
Calibration:	~15-140 °C
Features:	single fiber to camera receiver for video data and remote control integrates seamlessly with existing mk camera systems when extended with LWIR receiver channel. Compatible with existing pan/tilt units, battery packs, power supplies, and tripods high speed serial output to PC via LWIR receiver channel. Live video feed via our Windows desktop software mk-infrared that comes with each camera Features of the mk-infrared software: Points and Regions of interest (= ROI) with min/max/average tracking long time temperature chart alerts via email, acoustic signal, and Ethernet upon exceeding configurable temperature limits fullscreen mode and digital image zoom adjustable emissivity image and video recording real-time image streaming over Ethernet predefined and user-configurable color palettes
Mounting connection:	2x M2.5 thread to fix camera to dAV tripod mount (¼" camera thread) or to pan/tilt unit
Receivers dAV-Rxx:	dAV-Rr-HD TT (table top) – up to 4 channels (i.e. 4 cameras can be connected) or dAV-Rr-HD 19" (19" rack) – up to 8 channels or dAV-Rmrr 19" 4HU (19" switch matrix) – up to 19 channels or dAV-Rmrr 19" 8HU (19" switch matrix) – up to 39 channels
Power supply:	external battery pack BP120 with 4 Ah (2x included for continuous measurements) consisting of 10x NiMH cells, 12 V, operating time approx. 15 h power supply for wall mount setups: shielded power supply SPS120 (230 V and 115 V version available)
Power connector:	Binder 712 (push-pull 12 mm PP12 or 9 mm PP9 on request)
Housing:	anodized aluminum case 140 mm x 90 mm x 70 mm
Weight:	approx. 900 g

Optical connector:	1x FSMA / simplex multimode fiber 62.5/125 µm, 850 nm

Scope of delivery

- 1x dAV-Cr-LWIR VGA
- 1x dAV tripod mount, includes 2x screws TORX M2.5×6 (driver size needed: T8, not included)
- 2x BP120-5f (12 V 4 Ah) or 1x shielded power supply SPS120 (for wall mount applications)
- 1x SC-60cm-[712_3female]-[712_5male] (shielded cable 60 cm)
- 1x SC-140cm-[712_3female]-[712_5male] (shielded cable 140 cm)
- 1x 20 m simplex multimode optical fiber (OM1) FSMA/FSMA
- 1x charger for the BP120-5f batteries, AC plug types available: A(US), C(EU), G(UK) and I(AUS)

Accessories and options

Pan/tilt units PT-0x:	supplied and controlled via the camera (connection cable included with pan/tilt unit) PT-02 (wall mount) PT-02 (ceiling mount) PT-03 (ruggedized mobile version)
Mounting solutions:	Monopod – wood (available with casters, height can be adjusted 1.1 m – 1.8 m) Monopod – aluminum (suitable for reverb chambers) WCM (wooden wall mount for up to approx. 70cm/28" absorbers) WCCM (wooden ceiling mount) ACM (aluminum wall mount, suitable for reverb chambers)
Software:	mk-infrared → software for image display and additional system-related functions (alerts etc.) mk-camera → camera control software for PC to control the camera and pan/tilt units
Optical fiber - types:	FSMA, ST, FC, LC, E2000 (many combinations possible), 62.5/125 µm
Optical fiber - lengths:	0.5 m – >100 m
Optical fiber - feedthrough:	FSMA/FSMA, ST/FSMA, ST/ST, FC/FC
Optical fiber - cleaning:	Fiber optic cleaning set
Optical connector - protective caps:	protective cap/cover for male FSMA optical fibers
Optical connector - protective caps:	Protective cap/cover of FSMA optical input/output of mk devices
External battery pack BP120:	4 Ah or10 Ah (additional high capacity charger needed)
External shielded power supply SPS120:	12 V, 1 A (for fix installation)