

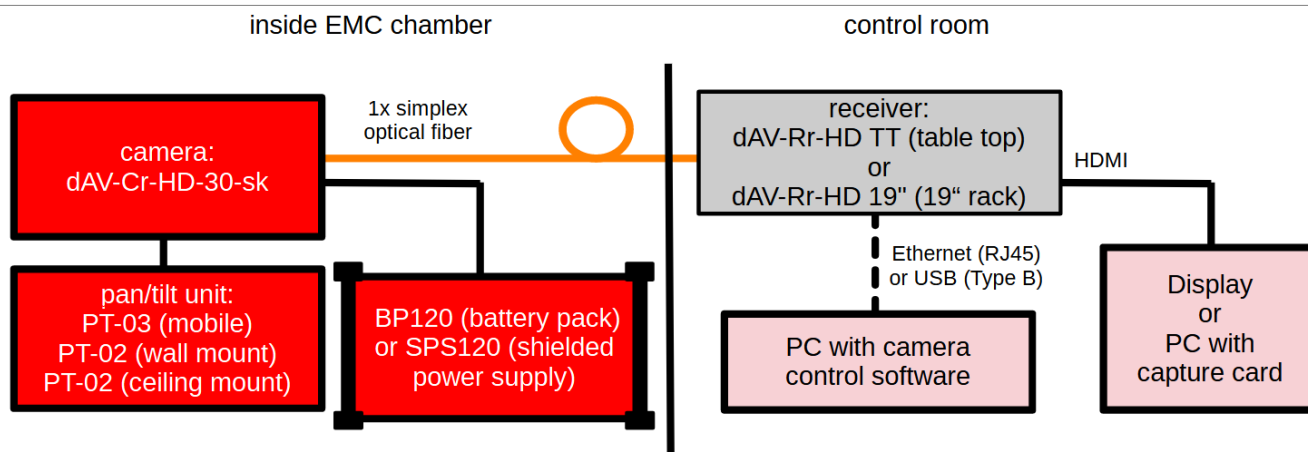
Field of application and characteristics

The dAV-Cr-HD-30-sk camera is used for the visual and acoustic monitoring of test objects during EMC tests. It has, among other things, a built-in mono microphone and can be adjusted with buttons on the back of the housing or by remote control from the control room. The HD resolution enables high-quality DUT evaluation.

Due to the optical signal transmission and the shielded housing, the camera is ideally suited for EMI and EME tests.



Application



Technical data

General data:

sensor: 1/2.8" Progressive CMOS sensor (2.1 mega pixel)
zoom: 30x optical (f/1.5), 12x digital
min. illumination: 0.05 lux (day) and 0.005 lux (night)
resolution: 1920x1080p25 (Option: 720p60 on request)
opening angle: 60.5° (wide end), 2.3° (tele end)

Microphone:

internal, mono

EMS limits:

up to 200 V/m and 18 GHz
HiRF option also available: up to 600 V/m and 40 GHz (suitable for reverb chambers)

Mounting connection:

2x M2.5 thread to fix camera to dAV tripod mount (1/4" 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 40 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. 8 h
power supply for wall mount setups:
shielded power supply SPS120 (230 V and 115 V version available)

Charging connector:	Binder 712 (push-pull 12 mm PP12 or 9 mm PP9 on request)
Housing:	anodized aluminum case approx. 135 mm x 80 mm x 80 mm incl. connectors and buttons
Weight:	approx. 800 g
Optical connector:	1x FSMA / simplex multimode fiber 62.5/125 µm, 850 nm, OM1

Scope of delivery

- 1x dAV-Cr-HD-30-sk
- 1x dAV tripod mount, includes 2x screws TORX M2.5x6 (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 via the camera (connection cable included with pan/tilt unit) PT-03 → ruggedized mobile version (better protection against drops) PT-02 (wall mount) PT-02 (ceiling mount)
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-camera → camera control software for PC to control the cameras and pan/tilt units On Screen Display (OSD) mk-motion (recording and/or motion detection software, detectors can be customized, can be linked to many EMC testing programs → ask for more details if needed)
Setup display ED-43:	4.3" set-up display, can be connected directly to the camera (on the rear I/O panel)
60 Hz option 720p60:	standard 1080p25 or speedup 720p60 as camera output can be selected 60 pictures per second transmitted from the camera module to the receiver (switchable), for DUTs that show changes faster than ~ 40 ms, e.g. flowing LEDs, moving gauges, etc.
dAV-quad-4K:	quad view system converts 4 independent Full HD 1080p60 inputs into one 4Kp30 output, 4 camera pictures can be monitored at the same time on a single screen

Joystick remote dAV-Rrc-Joy:	remote control of camera and pan/tilt unit via a joystick instead of buttons
Optical fiber – types:	FSMA, ST, FC, LC, E2000 (combinations possible), 62.5/125 µm (OM1) or 50 µm (OM3)
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
External battery pack BP120:	4 Ah or 10 Ah (additional high capacity charger needed for 10 Ah)

Camera front/back side

