

Field of application and characteristics

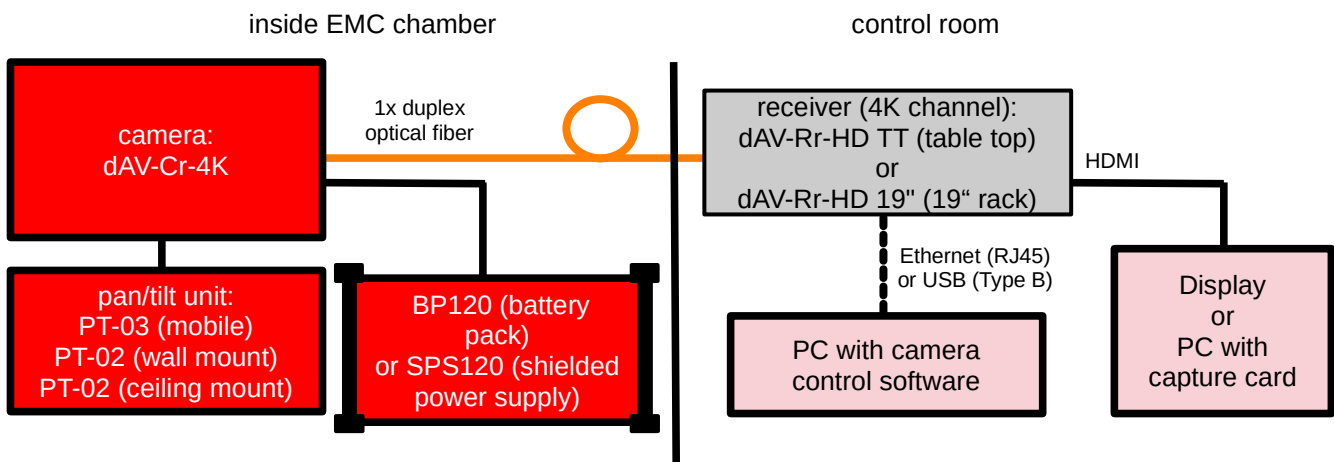
The dAV-Cr-4K camera is used for visual and acoustic monitoring of test objects during EMC tests with a high resolution of 4K. It has, among other features, a built-in mono microphone and can be adjusted with buttons on the back of the housing or via remote control from the control room.

The optional pan/tilt unit is supplied via the camera and both camera and pan/tilt unit are remote controllable via the duplex optical fiber.

The 4K 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



Important requirement

NOTICE

Please make sure to use a monitor/TV that supports 4K, otherwise no picture will be shown!
The LCD/TV also has to be able to display a 30 Hz signal. Please refer to to the compatible models in the list below.

Compatibility list of LCDs that work with our 4k system (currently known)		
manufacturer	article number	screen size
iiyama G-Master	GB2888UHSU	28"
iiyama ProLite	B2875UHSU-B1	28"
iiyama ProLite	XU2792UHSU-B1	27"
iiyama ProLite	XU2792UHSU-B6	27"

Technical data

General data:	Sensor: 1/2.5" 4K Progressive CMOS sensor (8.51 mega pixel) zoom: 20x (f/2.0) optical, 12x digital min. illumination: 0.4 lux resolution: 3840x2160p29.97 opening angle: 70.2° (wide end) to 4.1° (tele end) (min. working distance 80 mm)
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 (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 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 (l+W+H):	anodized aluminum case approx. 135 mm x 70 mm x 70 mm incl. connectors and buttons
Weight:	approx. 800 g
Optical connector:	2x FSMA / duplex multimode fiber 62.5/125 µm, 850 nm, OM1

Scope of delivery

1x	dAV-Cr-4K
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 duplex multimode optical fiber (OM1) FSMA/FSMA
1x	charger for the BP120-5f batteries, AC plug types available: cA(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. 70 cm/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) function currently not supported mk-motion: currently not supported
Joystick remote dAV-Rrc-Joy:	remote control of camera and pan/tilt unit via a joystick instead of buttons
Optical types and connectors:	OM1 multi mode 62,5/125µm FSMA (standard), OM2-5 or single mode fibers or other connectors (ST, FC) on request
Optical fiber – lengths:	0.5 m →100 m
Optical fiber – cleaning:	Fiber optic cleaning set
Protective caps:	for fiber- and device connectors available (SMA, FSMA, ST,...)
External battery pack BP120:	4 Ah or 10 Ah (additional high capacity charger needed for 10 Ah)

Camera front/back side

