

# Shielded Camera System – FMC-02 / FMC-02 HD

for mobile and fixed installation

## Sophisticated control

The FMC offers full remote control possibilities available on the front panel of the controller or via joystick. In order to facilitate the camera setup, all camera commands are also available on the rear side of the camera module. The display adjustment can be controlled on a removable mini LCD screen powered by the camera itself.

## General description

The FMC can be used for optical and acoustical monitoring of devices under test during EMC measurements. The camera can be set via an external setup LCD and eight buttons on the case or via remote control. With the optical transmission and the shielded case, the camera is well equipped for EMC tests.



Technical specifications		
Camera	FMC-02	FMC-02 HD
General data	36 x optical zoom	20 x optical zoom (20 x digital)
	local and remote controlled focus, brightness function, short range LED-light, color PAL-system, NTSC available on request, etc.	
Optical transmission	digital	
Optical characteristics	F= 3.4 mm (WIDE) – 122.4 mm (TELE)	F= 4.7 mm (WIDE) – 94 mm (TELE)
Perspective	ca. 57.8° (WIDE end) – 1.5° (TELE end)	ca. 55.4° (WIDE end) – 2.9° (TELE end)
Operating range	320 mm (WIDE end) – 1500 mm (TELE end)	10 mm (WIDE end), 800 mm (TELE end)
Image format	PAL 4:3, color	PAL 16:9, color
Resolution	440 K Pixel	~2M Pixel
Microphone	internal, mono (optional stereo)	
Power supply	external 12V (battery pack or mains adapter, shielded)	
Case dimension	130 mm x 70 mm x 80 mm incl. connectors and switches (L x W x H), shielded aluminium case	
Weight	approx. 700 g	
Mounting	1/4 " tripod socket at case bottom, other threads available	
Miscellaneous	remote control of all camera functions and pan- / tilt unit, set-up display for easy adjustment of camera stereo line, transmission, 3.5 mm plug, illumination, different types of receivers available, (one or more channels, VGA, OSD, switch matrix, etc.)	
Connector / Type	FSMA / simplex-multimode optical fibre 62.5 / 125 µm	



Battery pack, camera module and additional removable mini LCD monitor



FMC including pan- / tilt unit



PC-Recorder / Webserver

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Accessories		Standard	Option
<b>FBC</b>	Table top camera controller, base unit with 1 interface, remote control of camera functions via push buttons or software (standard) 100 – 240 V, (50/60 Hz) external power supply	X	
<b>FRC3-02</b>	19" camera controller (1 HU) for max. 3 cameras (3 interfaces); interface for joystick, interface for software control, operated via external PC, USB / RS232		X
<b>FRC7-02</b>	19" camera controller (2 HU) for max. 7 cameras (7 interfaces); interface for joystick, interface for software control, operated via external PC, USB / RS232		X
<b>LWL-VGA</b>	Digital optical channel with standard resolution. Up to 3 units integratable in FRC3-02, up to 7 units integratable in FRC7-02; optical connector FSMA; output connector: CVBS + VGA; stereo audio RCA	X	–
<b>FAD-02</b>	3.5" set-up LCD display, to be used for camera set-up and installation before testing, incl. connection cable	X	
<b>FBP-02</b>	Battery pack for external power supply	X	
Power supply	NiMH-battery with 10 cells, 12 V, 4 Ah, approx. 10 h		
Connector / Type	5 pole, female		
Dimensions & Weight	136 mm x 86 mm x 65 mm (L x W x H), 1 kg, shielded aluminium case with rubber protectors		
Included items	2 pcs. battery pack, set of cables and fibres, battery charger, manual		
<b>FPS-02</b>	Shielded mains adapter, power supply needed mainly for permanent installation		X
Power supply	Input: 100 VDC – 240 VDC, 50/60 Hz, Output: 12 V, 1 A		
Connector / Type	rubber connector, 5 pole, female		
Dimensions & Weight	136 mm x 86 mm x 65 mm (L x W x H), ca. 800 g		
Included items	cable 3 m, 5 pole (male) – 3 pole (female), rubber connector, manual		
<b>FPT-02</b>	Pan-/ tilt unit	X	
Power supply	via camera FMC-02 (FMC-02 HD) (4 pole, female)		
Connector / Type	binder series, male 4 pole – male 4 pole		
Standard range	+/- 45° / 90° vertical / horizontal, others on request – depending on place of installation, final position programmable		
Dimensions & Weight	ca. 65 mm x 75 mm x 100 mm (L x W x H) + mounting angle, ca. 700 g		
Included items	mounting angle, shielded connection cable with folding ferrites (length: 35 cm)		
<b>15540</b>	Recorder / Webserver for simultaneous recording of up to 4 camera signals		X
	subsequent post-production is not possible; image format PAL 4:3; remote control via software		
Record carrier	500 GB hard disk, export of data via USB / network		
Connector / Type	4 x BNC, analog, PAL, USB, network RJ45 (10 / 100 MBit)		
Power supply	external, Input: 230 VAC, 50/60 Hz, Output: 12 VDC / 5 A		
Dimensions & Weight	270 mm x 370 mm x 70 mm (L x W x H), ca. 1.75 kg		
Included items	mains adapter, USB mouse, BNC cinch adapter (1 per camera), manual		
<b>FACR4-02</b>	PC – Recorder / Webserver for simultaneous recording of up to 4 camera signals		X
	subsequent post-production via software is possible; image format: 16:10		
Record carrier	500 GB hard disk, additional audio hard disk 1000 GB, DVD-RW		
Connector / Type	USB, network, DVD-RW		
Power supply	Input: 100 – 230 VAC, 50/60 Hz, rubber connector		
Dimensions & Weight	4 HU – suitable for 19"-rack installation, 8 kg		
Included items	mouse, keyboard, rubber connector, manual		
<b>FACR8-02</b>	PC – Recorder / Webserver for simultaneous recording of up to 4 camera signals		X
	subsequent post-production via software is possible; image format: 16:10		
Record carrier	500 GB hard disk, additional audio hard disk 1000 GB, DVD-RW		
Connector / Type	USB, network, DVD-RW		
Power supply	Input: 100 – 230 VAC, 50/60 Hz, rubber connector		
Dimensions & Weight	4 HU – suitable for 19"-rack installation, 8 kg		
Included items	mouse, keyboard, rubber connector, manual		
<b>FACR1-02-HD</b>	PC – Recorder / Webserver for recording of full-HD camera signals		X
	subsequent post-production via software is possible; image format: 16:10		
Record carrier	500 GB hard disk, additional audio hard disk 1000 GB, DVD-RW		
Connector / Type	USB, network, DVD-RW		
Power supply	100 – 230 VAC, 50/60 Hz		
Dimensions & Weight	4 HU – suitable for 19"-rack installation, ca. 8 kg		
Included items	mouse, keyboard, rubber connector, manual		
<b>Monitor</b>	19" colour screen with VGA input		X
<b>AS-02</b>	Wooden camera tripod, height: 75-177 cm, 1/4" thread, weight: 3 kg	X	
<b>Wall holder</b>	Wall holder		X
<b>Miscellaneous</b>	Feed-through for fibre optics	X	
	Simplex optical fibre (62.5 / 125 µm), length 20 m, FSMA-FSMA	X	