

ECS 20 EMC Video Camera System

for EUT monitoring during immunity tests up to 20 V/m

The FRANKONIA ECS 20 Video Camera is a standard camera which is EMC hardened by means of special shielding and filtering. It may be used in EMC test environments with applied fields of 20 V/m with 80% AM.

The camera is suited for EUT monitoring during immunity tests according to IEC 1000-4-3 and considered to be a low-budget alternative to extremely hardened cameras (> 200 V/m) available on the market.



The power supply of the camera is a rechargeable lead/gel battery which is built into a separate shielded case. All power connectors are special ferrite lined connectors. The FBAS video signal connection to a monitor is made with a 75 Ω BNC connector. Therefore, the camera can be used with any available color monitor being equipped with FBAS-BNC input or SCART connector.

The ECS 20 can be mounted on standard tripods with 1/4" thread bolt. FRANKONIA delivers a manual TV-quality zoom lens which is suited for most monitoring duties. Other lenses can be supplied upon request.

Specifications	
sensor	1/3" CCT image sensor
resolution/total elements	811 (H) x 508 (V)
resolution/effective	768 (H) x 494 (V)
TV resolution	> 420 TV-lines
lens (zoom)	12.5-75 mm/F1.8/C-CS mount
minimum illumination	5 Lux
operating temperature	-10 ... +40 °C
power supply	DC +12 V
current consumption	160 mA
max. operating time	12 hours
battery charging time	6 hours / 10 hours during operation
video connector	coax/BNC, 75 Ω
max. field strength without influence on picture quality	20 V/m (20 MHz ... 1000 MHz), 80% AM
dimensions including lens	220 x 65 x 55 mm (L x W x H)
weight	300 g
options	wooden tripod, wall bracket, swivel/tilt head



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