



M-CAM 1900

DIGITAL VIDEO CAMERA 1-CCD
Made in Germany

M-CAM 1900 **DIGITAL VIDEO CAMERA**

optional:
anti-moiré-filter



IEEE 1394-DV output



USB-capture system integrated



RGB video output

- digital signal processing
- natural colour reproduction
- easy to use



option:
camera head with control buttons

M-CAM 1900

M-CAM 1900 is an economical 1-CCD camera system for all endoscopic applications. Full digital signal processing guarantees true colour reproduction and high contrast. A high sensitive, high resolution 1/3" CCD ensures high clarity and sharp detailed images. Basic functions are preadjusted for easy and flexible use. The small camera head (using the attached cap) and cable can immersed in disinfectant solutions for sterilisation.

WHITE BALANCE

White Balance is done automatically via push-button.

WINDOW FUNCTION

Window Function is programmed for different brightness measurement fields in case of difficult illumination conditions.

BOOST FUNCTION

In case of low illumination, the image brightness can be gained with the BOOST function.

ANTI-MOIRÉ-FILTER (only -M version)

For using flexible fibrescopes the electronic Anti-Moiré-filter increases image quality by decreasing moiré-effects.

FREEZE FUNCTION (only -F version)

M-CAM 1900-F can freeze the image on the screen controlled with a push button on the front panel. Optional remote via camera head push buttons or foot switch.

USB-CAPTURE SYSTEM (only -USB version)



M-CAM 1900-USB contains a capture system to store images easily on a standard USB-Flash-Stick. The files can be exported in several standard formats to a PC.

IEEE 1394-DV OUTPUT (optional)



M-CAM 1900-D is equipped with an IEEE 1394 output. The camera can be connected directly to a PC (with OHCI compatible controller) to store video files or images with standard software.

RGB-OUTPUT (only -RGB version)



M-CAM 1900-RGB has an additional RGB output for best colour reproduction.

MODELS

- M-CAM 1900** Basic version
- M-CAM 1900-M** + **ANTI-MOIRÉ-Filter** (instead of BOOST function)
- M-CAM 1900-D** + **IEEE 1394** output
- M-CAM 1900-USB** + USB-Stick capture system
- M-CAM 1900-F** + Freeze-board
- M-CAM 1900-RGB** + RGB output

OPTIONS

- R** Remote camera head to control front panel functions, external video devices, freeze function (only -F version) or USB capture system
- S** Foot switch (only for -USB and -F versions)

TECHNICAL DATA

| | |
|------------------------------|--|
| Video system | PAL / NTSC |
| CCD sensor | 1/3" (440.000 pixel) 752(H) x 582(V) |
| Video resolution | 470 TV-lines |
| Shutter range | 1/50 sec - 1/100.000 sec |
| Sensitivity | 0,9 lux (f=1,4) |
| Outputs | 1 x Y/C (S-VHS), 1 x VBS (VHS) 1 x IEEE1394 (only -D version) |
| Power supply | 100 - 240 VAC |
| Dimensions (WxHxD) | CCU 355 x 103 x 253 mm Head 29 x 58 mm |
| Weight | CCU 3,5 kg Head 65 g |
| Class / Type | 1 / BF |
| Manufactured and tested acc. | IEC 601-1 / CE EN 60601-1 93/42 ECC |

Delivery contains

CCU, camera head with 3 meter cable
Mains cable
Y/C cable, BNC cable
User manual
Remote cable (only -R version)
IEEE 1394 cable (only -D version)
USB-Flash stick (only -USB version)
RGB cable (only -RGB version)