

DIGITAL VIDEO CAMERA 3-CCD

Made in Germany

TRistar ZOOM



**DIGITAL
VIDEO CAMERA**

TRistar **ZOOM**

with digital zoom 100% - 150%

optional:

Digital Video Output IEEE-1394 or SD-SDI

- high-end video image quality
- natural colour reproduction
- on-screen-menu
- remote camera head
- new high-sensitive-CCD
- electronical zoom
- character generator
- high speed shutter
- flex filter

TRistar ZOOM

TRistar ZOOM is a 3-CCD video camera of the latest generation with excellent image quality and outstanding colour reproduction for professional requirements. The TRistar ZOOM can be used for every endoscopic application with high demands. It is easy and flexible to use.

Via multifunctional push-buttons on the camera head it is possible to remote more than two camera functions.



The TRistar ZOOM can be adjusted individually via integrated On-Screen-Menu. Settings are stored in an internal memory. High speed, complete digital image processing, separated for red, green and blue colour channels, enables high end image quality.

TRistar ZOOM camera head is very small and light weightedly designed.

A wide range of different TV-Adapters can be attached to the C-Mount thread to choose the best focus length to the procedure.

■ DIGITAL ZOOM

100-150% switch able up to 49 steps

■ FLEX FILTER

This electronically FLEX Filter avoids MOIRÉE Effects when working with flexible fibre endoscopes.

■ ON-SCREEN-MENU

Camera settings (like contrast, brightness, color, area) can be made in the On-Screen-Menu. Settings are stored in memory.

■ 3 USER SETTINGS STORABLE

■ AREA FUNCTION

Is a multitude of different brightness measurement fields. Quantity of measurement fields and form of this area is changeable. This Function controls the Shutter-Level for best illuminated picture.

■ STERILISATION

Camera head with cable and connector (using attached cap) can be immersed in a disinfectant solution.

■ CHARACTER GENERATOR

Creates on-screen-information on all video outputs by using standard PS2 keyboards (keyboard optional).

■ DIGITAL VIDEO OUTPUT

TRistar ZOOM-D is equipped with an digital video output. With IEEE-1394 the camera can be connected directly to a PC (with OHCI compatible controller) to store video files or images with standard software.

TRistar ZOOM-SDI output enables a low loss digital connection to other video equipment by using a single cable.

MODELS

TRistar ZOOM Basic version

TRistar ZOOM-D include IEEE-1394

TRistar ZOOM-SDI include SD-SDI output

DIGITAL 3-CCD VIDEO CAMERA

Technical Data

Video system	PAL
CCD sensor	3 x 1/3 with 440.000 active pixel
Video resolution	850 TV-lines horizontal
Shutter control	1/50 to 1/50000
S/N	63 db
Sensitivity	< 1lx
Video system	NTSC
CCD sensor	3 x 1/3 with 380.000 active pixel
Video resolution	800 TV-lines horizontal
Shutter control	1/60 to 1/50000
S/N	64 db
Sensitivity	< 1lx
Outputs	1 x RGB/ COMP 2 x Y/C (only 1 x Y/C at -D/ SDI version) 2 x CVBS 1 x IEEE-1394 output (only -D version) 3 x SD-SDI output (only -D version)
Settings	On-Screen-Menu
Power supply	100 - 240 VAC
Dimensions (WxHxD)	CCU 353 x 103 x 253 mm Head 30 x 40 x 68 mm
Weight	CCU 4,7 kg Head 115 g
Head	C-Mount thread, immersable two push-buttons for remote high flexible cable: 3 meter (6,5 meter optional)
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
RGB cable, Y/C cable, BNC cable
User manual
IEEE-1394 cable (only -D version with IEEE-1394 output)

