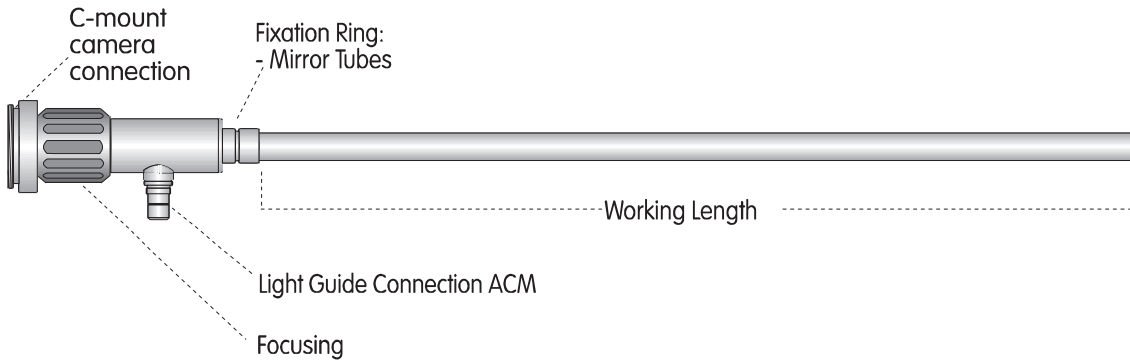


## TV-PROBES

TV microprobes are small, extended microscopes with the ability of monitoring a defined inspection area with a defined magnification at a fixed working distance in combination with a TV camera and monitor. All probes on this page are constructed with a fiberoptic illumination and stepless adjustable focussing device. The basic unit with its fixed direct-view objective system can be adapted to 70° foroblique, 90° side and 110° retro viewing by 360° rotatable scan mirror tubes.

### Basic Unit



### Technical Data:

Objective System: Direct view 0°  
Average Work. Distance: 50 mm  
Magnification: ca. 130X with 1/2"-Camera & 9"-Monitor  
Connection: C-Mount Thread

**Code No.**                      **Working Diameter (mm)**                      **Working length (mm)**

TV.0845	8	45
TV.08145	8	145
TV.1045	10	45
TV.10145	10	145

### Mirror Tubes

	Code No.	Working Diameter (mm)	Viewing Direction	Length (mm)
	TV.0845.70	8	70°	45
	TV.08145.70	8	70°	145
	TV.1045.70	10	70°	45
	TV.10145.70	10	70°	145
	TV.0845.90	8	90°	45
	TV.08145.90	8	90°	145
	TV.1045.90	10	90°	45
	TV.10145.90	10	90°	145
	TV.0845.110	8	110°	45
	TV.08145.110	8	110°	145
	TV.1045.110	10	110°	45
	TV.10145.110	10	110°	145

## TV-PROBES

### Accessories

#### Fixed Magnification Tubes

The following magnification tubes are placed between the TV probe and camera. Using these tubes increases the distance between objective and camera, thus increasing the magnification. Combinations of several tubes is possible by coupling their corresponding male and female ends.

**Note:** The higher the magnification, the smaller the depth of field and the more precise probe holders have to be.

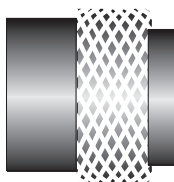


**Code No.**

**Description**

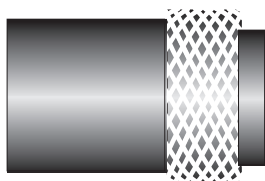
TV.310

Magnification Tube 01



TV.311

Magnification Tube 02



TV.312

Magnification Tube 03



TV.313

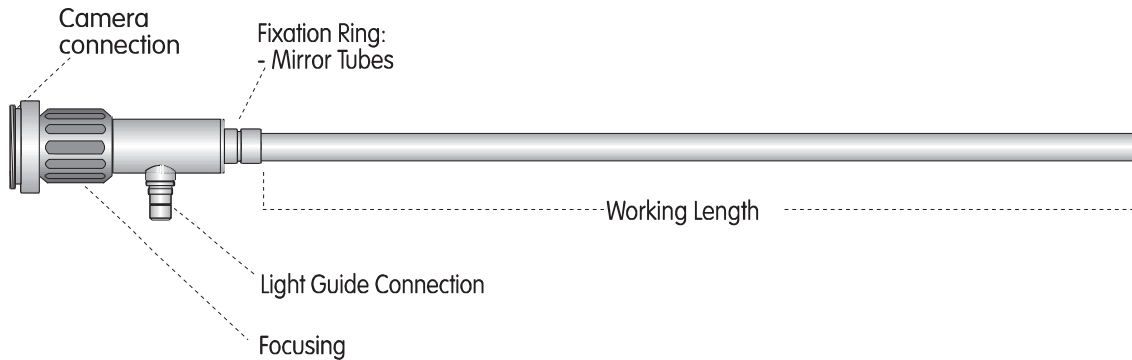
Magnification Tube 0404

Possible magnification for various setups are given on Page - 218 -.

## MODULAR SYSTEM MICRO-TV-PROBE

The TV-Microprobe is designed as a modular system and can be composed according to the requirements of the image (magnification). This means that 5 different TV probes can be combined with 4 different standard magnifying tubes.

The combination of different TV-probes with monitors (9" or 14") leads to a variety of magnifications.



Code No.	Working-distance	Type Magn. Tubes	Code No.	Camera-type	Magnification at 9" Monitor	Magnification at 14" Monitor	Field of View (mm)
TV.0845.10X TV.08145.10X	50 mm	- Tubus 01 Tubus 02 Tubus 03 Tubus 04	- TV.310 TV.311 TV.312 TV.313	1/2 "	10x 12x 13x 20x 30x	15x 17x 19x 31x 47x	14 11.6 10.8 7 4.7
TV.0845.30X TV.08145.30X	50 mm	- Tubus 01 Tubus 02 Tubus 03 Tubus 04	- TV.310 TV.311 TV.312 TV.313	1/2 "	30x 35x 40x 70x 100x	45x 51x 59x 108x 158x	4.7 4 3.5 2 1.4
TV.0845.50X TV.08145.50X	50 mm	- Tubus 01 Tubus 02 Tubus 03 Tubus 04	- TV.310 TV.311 TV.312 TV.313	1/2 "	50x 58x 65x 110x 160x	75x 86x 96x 170x 252x	2.8 2.4 2.2 1.3 0.9
TV.0845.90X TV.08145.90X	50 mm	- Tubus 01 Tubus 02 Tubus 03 Tubus 04	- TV.310 TV.311 TV.312 TV.313	1/2 "	90x 110x 125x 225x 365x	135x 170x 190x 360x 575x	1.5 1.3 1.1 0.6 0.4
TV.0845.145X TV.08145.145X	50 mm	- Tubus 01 Tubus 02 Tubus 03 Tubus 04	- TV.310 TV.311 TV.312 TV.313	1/2 "	145x 170x 190x 312x 475x	215x 250x 280x 500x 750x	1.0 0.8 0.7 0.4 0.3

The given values can differ up to 20% according to the system used.

## UNIVERSAL - TV-MICROSCOPES SYSTEM CHART

