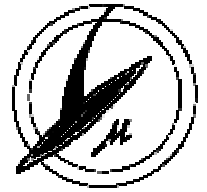


INDUSTRIAL
ENDOSCOPY



Outstanding optical performance, mechanical quality
and electronic high-tech MADE IN GERMANY

Aviascopes

AVIASCOPES are versatile, high precision build optical instruments which permits the observation and inspection of normally inaccessible parts and assemblies without cost-intensive tear-downs and long interrupt of production process.

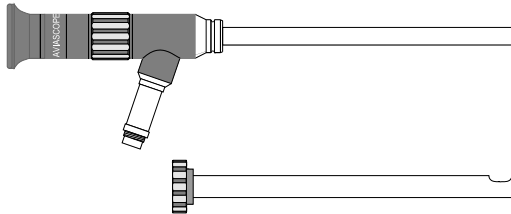
AVIASCOPES will help your eyes to go through walls, contaminated, hot or explosive areas, around corners, under and over obstructions, to the inner of engines and turbines, into short and long tubes (for example heat exchangers, gun barrels, pipelines etc.). They realize detection of work performance quality, cracks, corrosion, cavitations, lost of internal parts, cylinder burnings, discolorations, dirt accumulations, welding performance, sea-lings and many others.

AVIASCOPES are available in more than 500 different standard dimensions from 0.5mm to 32mm diameter, from 50mm to 15.000mm working length, rigid, sectionalised or flexible, together with an extensive program of accessories such as photo- and video equipment, light sources, light transmission systems, angle and teaching attachments.

AVIASCOPES are the products of 45 years experience in the whole range of technical endoscopy and visual inspection systems. More than 30 thousand AVIASCOPES have been used worldwide in the areas of

- Aviation Aerospace and Marine
- Chemical processing
- Automotive manufacturing and service
- Power plants
- Tube control
- Turbine inspection
- Police and Custom
- Laboratories
- Computerised industrial viewing systems

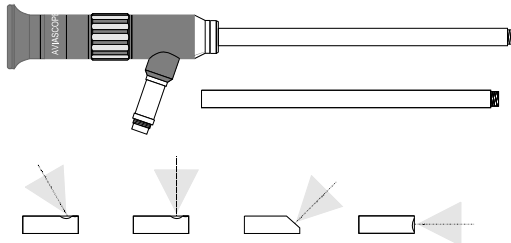
Series K



Rigid standard endoscopes

- Diameter 6mm to 14mm
- Working length 160mm to 1550mm
- Vision direction 0°, 30°, 70°, 90°
- Field of view 10°, 50°, 90°, 110°

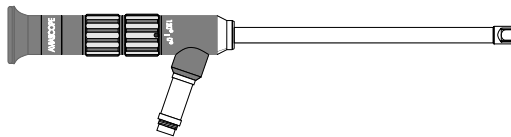
Series TEK



Rigid, sectionalised endoscopes with interchangeable objectives

- Diameter 4mm to 14mm
- Working length 150mm to 2700mm
- Vision direction 0°, 30°, 45°, 70°, 90°, 110°
- Field of view 10°, 40°, 60°, 85°

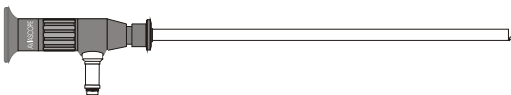
Series V



Rigid endoscopes with remote controlled variable vision direction

- Diameter 6mm to 14mm
- Working length 210mm to 1250mm
- Vision direction 15° to 110°
- Field of view 50°

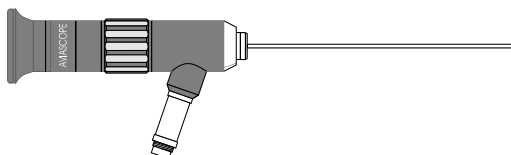
Series KU



Rigid endoscopes with changeable vision direction

- Diameter 5mm and 7mm
- Working length 180mm to 640mm
- Vision direction 0° / 90°
- Field of view 40°

Series MK

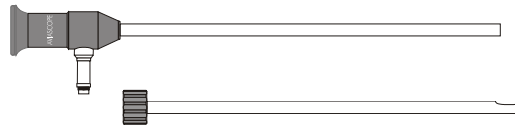


Rigid micro endoscopes

- Diameter 0.4mm to 4mm
- Working length 60mm to 260mm
- Vision direction 0°, 70°, 90° and 110°
- Field of view 50°, 70°, 90°

Rigid low-cost endoscopes

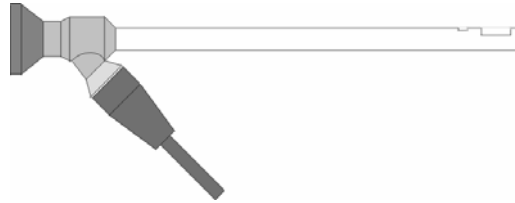
- Diameter 5.5mm and 7mm
- Working length 250mm to 850mm
- Vision direction 0°, 100° with mirror tube
- Field of view 40°



Series EK

Rigid low-cost endoscopes with distal halogen lamp illumination

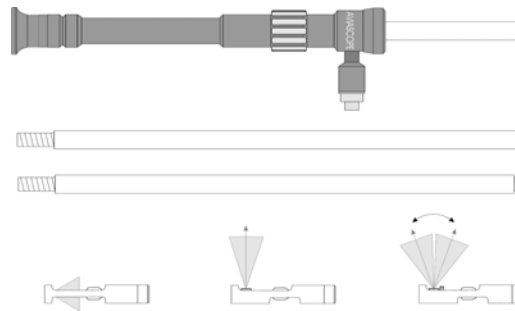
- Diameter 9.65mm
- Working length 350mm
- Vision direction 90°
- Field of view 30°



Series E

Sectionalised endoscopes with interchangeable objectives and distal halogen lamp illumination

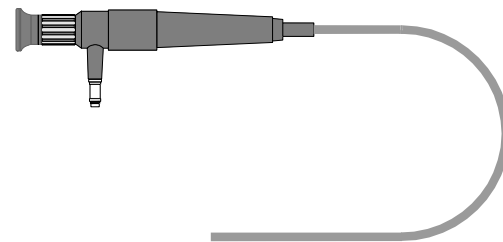
- Diameter 12mm, 18mm, 32mm
- Working length 600mm to 15000mm
- Vision direction 0°, 45°, 90°, 110°
- Field of view 45°, 110°



Series TE

Flexible standard endoscopes without end-tip deflection

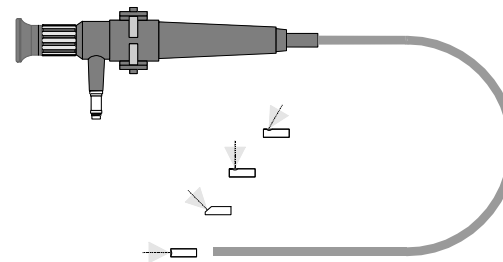
- Diameter 4mm, 6mm, 8mm and 11mm
- Working length 500mm to 8000mm
- Vision direction 0°, 70°, 90°, 110°
- Field of view 50°, 70°, 100°



Series LFB

Flexible endoscopes with end-tip deflection and interchangeable objectives

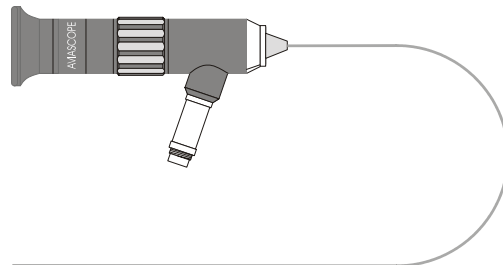
- Diameter 2.9mm to 11mm
- Working length 300mm to 6000mm
- Vision direction 0°, 45°, 90°, 110°
- Field of view 40°, 100°



Series FB

Flexible micro endoscopes

- Diameter 0.4mm to 2.8mm
- Working length 500mm to 4000mm
- Vision direction 0°, 70°, 90°
- Field of view 50°, 70°



Series FMK

Flexible low-cost endoscopes

- Diameter 6mm
- Working length 600mm and 1000mm
- Vision direction 0°, 90° with mirror
- Field of view 50°



Series LC

Accessories

- Halogen- and Xenon- light sources
- Fibre-optic and fluid light guides
- SLR cameras, digital photo cameras
- CCD-cameras, b/w and colour
- Monitors, VTR's
- Image processing systems
- Centring devices
- Angle attachments, binoculars



Video- Inspection- Systems

The Intravision VIS are modular video-inspection systems for visual remote inspections and quality control of long tubes, hollow spaces, surfaces and many others.

Basis of the system are rugged inspection heads with integrated fibre-optic or halogen-lamp illumination. The inspection head furthermore includes a high resolution micro CCD-camera and an integrated or changeable objective (rigid and flexible endoscope probes, microscope attachments etc.).

The cable between the inspection-head and control unit contains all electrical and optical connections and can be up to 50m long.

The control unit contains the light source (optional halogen or xenon) and the camera control unit and allows remote controlling of all functions of the inspection head (camera control, illumination, focus...). Video documentation systems (monitors, VTR's, video printers) and image processing systems are available.

The control unit incl. with 5,5" or 10" screen. Complete system is mounted in a rugged, portable carrying case.



Engineering

- Heat resistant endoscopes
- Radiation resistant endoscopes
- Pressure resistant
- Endoscopes with direct C-Mount camera connection (probe objectives)
- Endoscopes for UV- and IR-applications
- Special endoscopes against customers request, development of special devices and prototypes
- OEM manufacturing

