



UXR

QUALITY BORESCOPIES AT GREAT PRICES

Articulated Video Imaging Scope



UXR now offers the most affordable color video imaging scope ever made available on the market with ***FULL 4 Way articulation***. Based on newly developed technology and engineering- our OEM has developed a ground breaking articulation design for overcoming the engineering limitations found in longer scopes. This product was developed for remote visual inspections in industrial applications such as turbines, steam generators, diesel engines, heavy equipment, tanks, piping, HVAC and all other internal inspections requiring remote visual access to assess unknown conditions, flaws, defects and other anomalies. Available in 3 standard lengths- 3 meter (9.75 ft.), 5 meter (16.25 ft.), 10 Meter (33 ft.) and special order non-articulating versions 50 ft. length (12.8 meter) this product addresses those applications beyond the traditional fiberscope market. The lightweight control unit (only 10.5 lbs.) which houses the light source all in one package is designed for portability, small size and weight and can be used with a variety of desktop or portable color LCD handheld monitors. The heart of the probe is the remote miniature CCD imaging chip mounted in the tip of the scope- this special design is low light sensitive utilizing the latest state-of-the-art digital signal processing (DSP). The 3 and 5 meter versions are delivered with (1) standard F4mm lens with the other (2) available at additional cost. The 10 meter version includes all (3) lens in the price.

Videoscope and Lens Parameters

Probe diameter	10mm (0.400 in.)
Working Length	Standard lengths of 3, 5 and 10 meters (Articulating) 13 meter (non-articulating)
Articulation	4 Way, +/- 120 Degrees up/down and left/right
CCD Chip	1/4" Color solid state interline CCD image sensor
CCD Resolution	330 Lines (512 x 492)
Processor	Hitachi DSP (Digital Signal Processor)
Removable Objective Lens	F 1.39mm @ 1/3.2 (Field of View 90 degrees-optional)
	F 4mm @ 1/7 (Field of View 58 degrees- supplied standard with all scopes)
	F 8mm @ 1/6.4 (Field of View 28 degrees- optional)
Illumination	Halogen or Xenon (optional)
Light Delivery	Fiber optic
Light Dimmer	Mechanical shutter control
Video Signal Output	NTSC (PAL- optional)
Video Capture	NTSC, SVHS or PC Parallel port output for image capture via external computer, video recorder, video printers, etc.

67 W. EASY ST., UNIT 118 • SIMI VALLEY, CA 93065
 (805) 527-9219 • FAX (805) 520-8277
<http://www.uxr.com>



Articulated Video Imaging Scope

Freeze Frame	Internal Frame buffering for up to 8 pages of memory (8 full screens) from video monitor or 32 frames when split, power off battery back up for keep alive ram keeps images in memory for 1 hour when disconnected from power
Length of Distal Probe Tip	48mm (1.9 in.)
Length of Articulation Section	50mm (1.99")
Light Guide Diameter	3.2mm (0.127")
Articulation Radius	20mm (0.796")
Human Interface Control	Push button Membrane Keypad
Power Requirements	110, 220 or 240 VAC 60/50 Hz (specify when ordering)
Controller Dimensions	11.5" w x 11" D x 4.5" H
Controller weight	10.5 lbs.
Remote Set-up	Video controller parameters adjustable via RS-232 serial cable
Observation Angle	0° (90 degree optional prism tip available)
Focusing Range: with F1 lens with F4 lens with F8 lens	0.2 in. to ∞ in. 0.4 to ∞ in. 1.19 to ∞ in.
Length of Tip Housing	1.6 in.
Length of Flexible Body	9.9 / 16.5 / 33 ft.
Maximum Diameter of Flexible Body	0.4 in.
Length of Articulating Section	4 in.
Range of Articulating Section Angular Deviations in Two Planes with straight flexible body	± 120°
Range of Articulating Section Linear (radial) Deviations	± 2.8
Minimum Radius of the Flexible Body Bend	3.2 in.
Minimum Radius of the Articulating Section Bend	0.8 in.

OPERATING CONDITIONS

Videoscope Flexible Portion	
Air Operating Temperature	-10 to +80°C (14 to 176°F)
Air Pressure Range	1 to 1.3 atm.
Videoscope Housing and Light Guide	
Air Operating Temperature	-10 to +50°C (14 to 122°F)
Air Pressure Range	1 to 1.1 atm.
Control Unit	
Ambient Air Temperature	+10 to +40°C (50 to 94°F)
Air Relative Humidity at 25°C (77°F), not more than	80%



UXR

QUALITY BORESCOPIES AT GREAT PRICES

Articulated Video Imaging Scope

Ordering Information:	Standard Models:
P/N AVIS-3	10mm x 3 Meter, 4 way Articulating Video Image Scope System
P/N AVIS-5	10mm x 5 Meter, 4 way Articulating Video Image Scope System
P/N AVIS-10	10mm x 10 Meter, 4 way Articulating Video Image Scope System
	All above systems are complete including controller and 13" color monitor and (1) 4mm removable objective lens, lens tool, operation manual, hard shell padded instrument case
Options:	
Special Protective Braid	Stainless Braid is standard- additional charge for Tungsten Braid for rough surface protection and polyurethane extrusion for smooth polished tubing/pipe inspections for scratch prevention.
Interchangeable Lens Kit	P/N AVIS-Tip, includes F1 and F8 Lens
LCD Portable Monitor Kit	P/N LCD-Kit
90 Degree View (Side) prism tip	P/N AVIS-TIP90
Internal Xenon Lighting	Call
Video Image Capture	See website for details
Custom Lengths	Call
Remote Control	Call
220/240 50/60Hz Power	Call
PAL Video output	Call
	All specifications subject to change without notice.