

# MITECH MVN30 INDUSTRIAL ENDOSCOPE

Professional manufacturer, best quality with competitive price ●  
Recommended by the world UT NDT inspection association for training and examination ●  
Core technology with independent intellectual property rights, certificate of CE, GOST and etc.. ●



## Overview

MITECH MVN30 three-in-one industrial endoscope is kind of endoscope integrating the pipe mirror, electronic mirror and ultra-fine straight rod mirror. The use of color LCD display and highly integrated CMOS image sensor to ensure that the video endoscopic image of the clear, realistic; its low power consumption, quick signal transmission speed, and easy to carry, operate. The detection range covers 10mm to 300mm diameter pipes, with a maximum detection distance of 30m. It can detect pipe or narrow spaces without tearing apart or damaging machine while not working. Cracks, welds, foreign body, wear and internal processing of parts and other circumstances can be detected with high quality images. It is widely used in aerospace, petrochemical, mechanical casting, national defense military, power production, automobile transportation and other fields, and is the important detection and monitoring equipment of industrial equipment testing and maintenance and other aspects.

## Technical Parameters

Display	7inches LCD	Picture format	1024*768
Resolution	800*480	Video format	640*480 (4:3) ; 800*480 (16:9)
FPS	30	Lithium battery	11.1V 7000MAH
Brightness	600cd/m <sup>2</sup>	Charging time	8 H
Screen contrast	650	Battery life	> 4H
Video output	NTSC/PAL Optional	USB Port	Mini-USB B type
40mm color rotate lens		24mm wide angle direct view lens (customize)	

Lens Diameter	41mm	Lens Diameter	24mm
length	60mm	Lengths	42mm
Camera pixels	440,000	Camera pixels	440,000
lighting	12 High brightness LED light	Lighting	12 High brightness LED light
Shell Materials	Stainless	ABS	304 stainless
Flip angle	180°	Field angle	> 100°
Axial rotation	360°	Image probe	CMOS 1/4
Focus manually	yes	Depth of focus	25mm-∞
Image probe	CMOS 1/4	Protection level	IP67
Protection standard	IP67	Waterproof depth	1m
Waterproof depth	1m		

With joystick 30 meters wire

Line length	30m	Line materials	High strength fiberglass wire	Meter counting device	Yes
Diameter	5.5mm	Protection level	IP67	Accuracy	3%

Hook mirror handle

Probe diameter	4.5mm	8.0mm	Insert tube diameter	8mm
Image probe	CMOS 1/12	CMOS 1/13	Inset tube length	3m
Camera Pixels	450,000	1000,000	Insert tube outline	Tungsten mesh
Field Angle	90°	90°	Bending direction	>120°
View depth range	8-80mm	15-∞	Protection level	IP67(hook > 90°)
Shell material	Titanium alloy	Titanium alloy		
Protection level	IP64,IP67	IP67		

Straight bar mirror part (customize)

Diameter	4.5mm	5.0mm	6.4mm	6.4mm
Length	25cm	25cm	25cm	25cm
Material	304 stainless steel	304 stainless steel	304 stainless steel	304 stainless steel
Brightness	High Brightness LED	High Brightness LED	High Brightness LED	High Brightness LED
Image probe	CMOS 1/12	CMOS 1/12	CMOS 1/13	CMOS 1/13
Camera Pixels	300,000	300,000	300,000	300,000
View depth range	5-25mm	5-25mm/8-80mm(optional)	5-25mm/8-80mm(optional)	Front:15-∞; side:10-50mm

## Features

- The host is compatible with the functions of pipe mirror, electronic mirror and straight rod mirror;
- 7 Inches LCD display, clear imaging;
- Ingerate the function of taking photos and recording, control the rotation, focusing , storage and playback of the lens, and oresent the best detection effect;
- 40mm lens, electrionic focusing , 360°rotation, 180°rotation, IP67 waterproof, lens cover can be replaced;
- 24mm wide angle small lens, greater than 100 °field angle, IP67 waterproof;
- 8mm lens detection handle, with 3m hose detection line, 360°guide bending;
- Independent and portable cable tray, humanized cable frame structure design, easy to carry and place. It can hang the host;
- High flexibility testing line is rigid and flexible, suitable for large space and long-distance testing. It is equipped with detachable lithium battery, which can be charged separately, with real-time display of electronic quantity, and th working time is more than 4 hours.

## Applications

- Turbine overhaul: Turbine cleaning, paddle and nozzle / nozzle block check, find off parts, corrosion inside and outside the pipe;
- Aerospace: Aircraft parts, large diesel engines, various engines and pipelines for routine maintenance and inspection;
- Petrochemical Industry: Used for detection of oil refineries in the storage tank, heat exchangers, ball tankers, chemical industry pipeline facilities, special inspection and pressure vessel production units of containers, cylinders, pipelines;
- Military: Used to check the mechanical gear parts wear, loose, oil spills, barrel internal situation;
- Motor traffic: Car engine cleaning and maintenance;
- Machine casting: Automotive parts casting, hydraulic casting, pump body casting, mechanical parts casting, pipe fittings casting;Used to check the situation of sand casting, burr and staggered hole quality control;
- Power industry: Power generation, equipment defect detection and condition monitoring.

## Working condition

- Probe working temperature: -10°C~50°C
- Host working temperature: -10°C~50°C
- Storage temperature: -10°C~50°C
- Waterproof level :IP67
- Oil proof level : IP 67

## Instrument configuration

	Num	Name	QTY	Note
	1	Main unit	1	7 inches
	2	Detection line 30m	1	
	3	Color rotating adjustable focus lens 40mm	1	
	4	24mm color wide angle lens	1	
Standard config	5	Electronic lens	1	
	6	32 G SD card	1	
	7	Video output cable	1	
	8	USD Cable	1	
	9	AC adapter	1	
	10	ABS case	1	
	11	Attached files	1	
Optional	12	Reducer guide	1	60-200mm



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