

TVGM Series

The TVGM Series from Titan Tool Supply is a reliable and accurate stainless-steel mini-industrial grade videoscope, designed to support a variety of non-destructive testing and remote visual inspection tasks.

High-Definition Remote Visual Inspection

The onboard controller of the TVGM Series offers high-definition imaging, reliability, stability, and excellent field detection capability. It is equipped with a high-brightness 4.3-inch high-definition LCD touch screen display for magnified image viewing from the onboard camera.

360-Degree All-Way Articulation

The insertion cable, constructed of an IP67 rated, wear-resistant braided tungsten alloy, offers 360-degree all-way manual articulation, excellent abrasion resistance, and self-locking capability.

Additional Features:

- High-resolution camera with high-intensity LED illumination
- High-sensitivity onboard 720P CMOS sensor for continued observation capabilities in low or reduced light conditions.
- Data storage: JPEG and AVI formats via 32GB micro-SD card
- Modular design, for easy swap-out of 1.5 m (3.9 mm dia.) or 3 m (6 mm dia.) probes
- Touchscreen and key dual operation control system for on-demand recording, file access & parameter setting
- Choice of ten (10) unique language settings
- Ergonomic design, for ease of portability and one-hand operation; waterproof carrying case
- Four-hour working rechargeable battery life

Applications:

- Remote visual inspections of smaller industrial spaces, precision machinery, and equipment, as well as casting, aviation MRO, automotive service, and commercial HVAC inspections
- Remote detection of foreign objects, blockages, and structural defects
- Comparative remote measurements of automotive engine cylinders, pistons, valves, carbon deposit detection, hydraulic and pneumatic parts, steel pipes, castings, and containers



Category	Specification	TVGM	
Camera	Camera Diameter (mm)	3.9	6.0
	Pixels	720P	
	Material	Stainless Steel	
	Camera Length (mm)	15	
	Depth of Field (DOF) (mm)	10 to 100	15 to Infinity
	LED Illumination Intensity (LUX)	>15,000	>25,000
	Light Type	LED	
Insertion Part	Articulation Part	4-Way	
	Insertion Cable	Tungsten Alloy Braided	
	Insertion Cable Length (m)	1.5	3.0
	Joystick Control	Built-in Damping	
	Articulation Control	Manual	
	Battery Replacement Method	Battery Swappable	
	Structural Features	Interchangeable	
Display Module	Size (in.)	4.3	
	Resolution	WVGA (800x400)	
	Cable Interface	Charge and Read Data	
	TransFlash (TF) Card	32G micro-SD / TF Card	
	Temperature Indicator	High-Temperature Alarm	
	Menu Operation	Button/Digital Touch Screen	
Software Operation	Software Settings	Time; Language; Energy Savings; Sound; Image Enlargement; Micro-SD Card Upgrade	
	Language Options	English; French; Spanish; German; Italian; Japanese; Korean; Turkish; Chinese; Russian	
Others	Power Supply	5V 2A	
	Battery (Rechargeable)	26650 5000 MAH	
	Working Hours	Four (4) Hours	
	Controller Operating Temperature	-10 to 50C	
	Weight (kg)	0.75	
	Package	Waterproof Carry Case	
	Ingress Protection Rating (IP)	Controller: IP64; Insertion Cable: IP67	
	Drop Test Rating (m)	1	
	Functional Characteristics	White Balance; Contrast; Tone; Exposure; Selection; Gain Scale; Watermark	

1 4.3 inch HD display touch screen



2 Modular design allows for change probes quickly



3 360 ° damping bending with wear-resistant tungsten braided insertion cable



4 HD 1,000,000 camera pixel module



5 Long working hours



6 Ergonomic design for easy operation and portability



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