

## MarMonix — MVS 600 Series

### Portable Modular Videoscope / Endoscope

Model family: MVS 600 Series (MVS-601, MVS-602, MVS-603, MVS-604,

#### Product overview

The MarMonix MVS 600 Series is a rugged, portable, modular videoscope system designed for industrial inspection, maintenance and diagnostics. Built for field use, the MVS 600 Series pairs a compact host with interchangeable insertion probes (1.0–8.0 mm) and supports image capture, video recording and extensive probe customization — making it ideal for electrical, mechanical, HVAC, plumbing and borehole inspection tasks.

Key benefits: - Extremely small probe diameters for tight-space access (from 1.0 mm).

- Modular design: one host supports multiple probe diameters and lengths.
- Robust probe construction with multi-layer sheathing and IP67 protection.
- Capture still images (JPEG) and video (AVI/MP4) for reporting and archiving.
- Long battery life and field-friendly user interface.



High-performance modular inspection system  
for pipelines, drains, machinery and confined spaces.

#### Standard features

- Host unit (handheld) with integrated 3.5" LCD display (640 × 480).
- Image capture: JPEG stills, AVI/MP4 video recording to removable SD card (supports SD/SDHC up to 128 GB).
- Digital zoom up to 4×, image rotate, brightness adjustment and on-screen annotations.
- Modular probe interface — single host accepts all MVS 600 series probes.
- Power: rechargeable Li-ion battery pack, up to 6 hours continuous operation; external charging via supplied charger.

#### Typical applications

- Electrical switchgear & panel inspections
- HVAC ducting and chimney inspections
- Plumbing, drains and borehole inspections
- Automotive and aerospace small-space inspections
- Machinery, pumps, compressors, gearboxes
- Pre-service and post-repair quality assurance

## Technical specifications

Host (MVS-600 series handheld)

- Display: 3.5" TFT LCD, 640 × 480 pixels.
- Dimensions (host): 280 × 100 × 55 mm.
- Weight (host only): ≈ 0.55 kg; packed in case ≈ 3.0 kg.
- Battery: Rechargeable Li-ion, typical run time 6 hours; charge time ≈ 3–4 hours.
- Storage: removable SD card (supports up to 128 GB).
- File formats: Still — JPEG; Video — AVI or MP4.
- Operating temperature (host): -10°C to 100°C (standard) — extended temperature versions available on request.



## Probes / Insertion tubes (interchangeable)

Each insertion probe is available in multiple diameters and lengths. Standard options listed below; custom lengths available on request.

Standard diameters (mm): 1.0 | 1.2 | 2.0 | 2.8 | 4.0 | 5.8 | 8.0

Standard lengths: 0.5 m, 1.0 m, 2.0 m, 3.0 m, 5.0 m, 8.0 m, 10 m (for 8 mm)



## Camera & optics (typical values — final resolution depends on probe diameter):

- Small bore probes (1.0–2.8 mm): up to 720 × 720 / 0.3–1.0 MP equivalent imaging capability (optimized for small form factor).
- Medium bore probes (4.0–5.8 mm): 0.5–1.0 MP class image sensors for clear inspection images.
- Large bore probes (8.0 mm): 1.0 MP or higher available for highest clarity.
- Field of view (FOV): selectable per probe — 80° / 90° / 100° / 120°.
- Depth of field (DOF) options: 3 mm–80 mm, 5 mm–120 mm, 10 mm–300 mm, 15 mm–∞.

Illumination: Integrated LED illumination via fiber optics; 10 levels of brightness control. Stated illuminance (8 mm probe) ≥ 100,000 lux (nominal).

Tip articulation: Optional articulating tip (all-way mechanical articulation up to 360° in one or two axes depending on probe model). Articulation control integrated into hand unit (joystick or wheel) where specified.

Probe protection & durability: 4-layer rugged sheathing; probe waterproof rating IP67 (probe head and insertion tube). Working temperature (probe): -20°C to 100°C (customised versions available).

## Accessories (standard & optional)

- Standard: 1M× probe or (user selected sizes) , host with battery, SD card (8 GB), charger, USB cable, foam carry case, quick start guide, basic PC review software.
- Optional: Additional probes (1.0–8.0 mm) or Length, extension reels, magnetic/side-view/angled mirror attachments, leak/pressure-proof probe end caps, flexible probe protectors, HDMI output cable, vehicle power adapter, hard pelican case upgrade, calibration certificate.



## Software & Reporting

- Basic PC application (Windows) for: file transfer, image/video playback, time stamping, basic annotations and export to JPEG/MP4.
- Image overlay options: date/time, probe ID, measurement markers (on selected variants).
- Advanced reporting templates available as an add-on service.

## Compliance & certifications

- CE and RoHS compliant (standard).
- EMC test reports available on request.

## Warranty & service

- Standard warranty: 24 months on electronics, host, and probe insertion tubes (covers manufacturing defects).
- Articulation & probe policy: articulation mechanism covered under warranty; extended articulation warranty (up to 5 years) available as optional purchase.
- Service & spare parts: authorised repair & spare-parts support available via MarMonix approved service partners.

## Customer Model Selection Guide & Part Number Generation

Part numbers are structured to simplify customer selection. Each probe diameter has a base code, side-view option, and cable length code.

### Step 1: Select Probe Diameter (Base Code)

Base Code	Probe Diameter
601	2.0 mm
602	2.8 mm
603	4.0 mm
604	5.8 mm
605	8.0 mm

### Step 2: Select Side-View Option

Code	Description
0	Forward view (standard)
S	Side-view camera

### Step 3: Select Cable Length

Code	Cable Length
1	1 m
2	2 m
3	3 m
5	5 m (only 5.8 mm & 8 mm probes)
10	10 m (only 8 mm probes)

### Step 4: Generate Full Part Number

**Format:** MVS-[Base Code][Side Code]-[Cable Code]

#### Examples: -

MVS-602-2 → 2.8 mm forward view, 2 m cable -  
MVS-602S-3 → 2.8 mm side-view, 3 m cable  
MVS-605-10 → 8.0 mm forward view, 10 m cable -  
MVS-605S-5 → 8.0 mm side-view, 5 m cable

### Step 5: Selection Table for Reference

Probe Diameter	Side View	Cable Length	Generated Part Number
2.0 mm	No	1 m	MVS-601-1
2.0 mm	Yes	2 m	MVS-601S-2
2.8 mm	No	3 m	MVS-602-3
2.8 mm	Yes	3 m	MVS-602S-3
4.0 mm	No	5 m	MVS-603-5
4.0 mm	Yes	5 m	MVS-603S-5
5.8 mm	No	1 m	MVS-604-1
5.8 mm	Yes	2 m	MVS-604S-2
8.0 mm	No	10 m	MVS-605-10
8.0 mm	Yes	5 m	MVS-605S-5

#### • Notes for Customers

- Use the base code + side-view + cable length to generate the exact part number.
- Verify probe diameter, side-view option, and cable length before ordering to ensure correct configuration.