MoVeo® IR Videoscope
A New Generation of Mobile Infrared Videoscope Systems
MoVeø® IR Videoscope

Introducing the MOVEø® IR Videoscope into your application will help you see things in a new light.

The new infrared MOVEø® IR Videoscope from KARL STORZ offers a fully integrated display, LED infrared source, and intuitive operating software, providing optimal mobility to the user with a class-leading tip angulation.

The ergonomic IR Videoscope is designed to fit properly into the hand, and can be used for long periods with no operator fatigue.

The MOVEø® IR Videoscope is engineered and built for direct and remote tactical surveillance, supplying operators with covert imaging directly into vehicles, containers and in the event of human rescue operations, key tactical areas.

The design enables easy handling and great flexibility so that generating detailed images is straightforward. The complete system, and the tungsten-braided sheath in particular, has been designed to meet the demands of remote operations. The 4-way deflection and the precise angulation of the sheath of up to +/- 150° ensure safe and effective performance of surveillance functions during tactical missions. The user has the option of choosing between 1.5 m and 3 m working length.
A viable device for Human Rescue Missions

- Law enforcement
- Tactical surveillance
- Prohibited goods search
- Human rescue
- etc.

Your Benefits

- Excellent imaging coupled with optimal maneuverability and flexibility
- Energy-saving and low maintenance; great reliability and security of investment
- For stationary use or mobile applications up to 3 hours
- Optimal documentation possibilities for photos and videos
- Fatigue-free work and quick-access function keys
- Designed for professional use
- Reliable and effective visual inspection
- Right equipment for every requirement
- Universal use and real time imaging

Our Highlights

- Integrated 5" TFT LCD monitor
- High-performance IR 940 nm LED light source with 25,000 hours service life
- Mains or battery operation with exchangeable lithium-ion batteries
- SD interface
- Ergonomic handle
- Tungsten-braided outer sheath
- 4-way deflection with precise +/- 150° angulation
- Sheath diameter of 8.4 mm in working lengths up to 3 m
- CMOS sensor for night and day missions
MoVeo® IR Videoscope in Detail

Designed for Day and Night Operations

- Ergonomic handle design for both right- and left-handed users
- Designed for use worldwide
- Extensive connectivity:
  - SD card
  - Mini-USB
  - Video connection to external monitor
- Powerful LED IR light source with no visible light emission

Robust tungsten-braided outer sheath
Positioning lever for 4-way deflection
Crush protection on the sheath to prevent damage
High performance dimmable IR LED light source
2 brake levers to secure the scope into position
Large, high-resolution 5” true color LCD monitor with impact protection

- High-resolution video sensor
- Precise and extreme 4-way deflection (4x 150°)

Quick access function keys

- Comparative measurement function
- Simple, intuitive menus including multi-lingual user guidance
- Exchangeable lithium-ion high-performance batteries for mobile applications (up to 3 hours)

Image and video recordings with or without text annotation
MoVeo® IR Videoscope

The useful specialist – length 1.5 m

81301011-815

**MOVEO® IR Videoscope 1.5 m x diameter 8.4 mm, Set,**
length 1.5 m, sheath outer diameter 8.4 mm, direction of view 0°,
angle of view 55°, tungsten carbide sheath, 4-way deflection 150°,
ergonomic control unit with 5” LCD display unit and Lithium-ion battery,
SD memory card 4 GB and adjustable LED light source
incl. Lithium-ion battery
including:

**Power Supply**, for MOVEO® Videoscope

**IR LED Light Source**, dimmable

4x **Rechargeable Battery RCR123A**, 3.7 V, for LED light source

**Charger Unit**, for rechargeable batteries RCR123A

**Lithium-ion Battery**, for MOVEO® 5” LCD display unit

**Charger Unit**, for Lithium-ion Battery

**Mini-USB Cable 1.1**

**Composite Video Cable**

**User Manual**, for MOVEO® IR Videoscope

**Carrying Case**, for MOVEO® IR Videoscope
The universal all-rounder – length 3.0 m

MOVEO® IR Videoscope 3 m x diameter 8.4 mm, Set, length 3.0 m, sheath outer diameter 8.4 mm, direction of view 0°, angle of view 55°, tungsten carbide sheath, 4-way deflection 150°, ergonomic control unit with 5” LCD display unit and Lithium-ion battery, SD memory card 4 GB and adjustable LED light source incl. Lithium-ion battery including:

- Power Supply, for MOVEO® Videoscope
- IR LED Light Source, dimmable
- 4x Rechargeable Battery RCR123A, 3.7 V, for LED IR light source
- Charger Unit, for rechargeable batteries RCR123A
- Lithium-ion Battery, for MOVEO® 5” LCD display unit
- Charger Unit, for Lithium-ion Battery
- Mini-USB Cable 1.1
- Composite Video Cable
- User Manual, for MOVEO® IR Videoscope
- Carrying Case, for MOVEO® IR Videoscope
The MOVEO® multifunctional transportation case was designed with the end user in mind. The system case ensures safe transport and handling during day-to-day routine. In addition to the basic equipment, the multifunctional case offers sufficient storage space for accessories. Accessories are neatly stowed away and are ready to hand at any time. Thanks to the detachable cover, the case can easily be converted into a practical workstation.

The case is extremely sturdy and suitable for transportation as air cargo or check-in flight luggage. It is also possible to secure the contents with a TSA lock (optional).

The optional multifunctional carrying bag has been especially designed for remote tasks and observations in difficult-to-access areas. Its special materials offer optimal protection. Thanks to the universal shoulder strap, the bag can also be worn as a backpack.
Accessories for the Multifunctional System Case

**Multipurpose Stand**, for stable mounting of endoscopes and cameras, consisting of Articulated stand with a joint in the center and ball joints at both ends, equipped with a mounting plate for holding a camera or endoscope grip, total length approx. 50 cm. The stand can be moved in any direction and can be locked in any position required using a central fixation screw.

**MOVEO® Videoscope Holder**, with tripod socket to connect to Multipurpose Stand 80603

**Tension Rod**, with V Guide, for mounting a videoscope to Multipurpose Stands 80600 and 80603

**Floor Stand**, tripod (folding), for installing a stand on a flat surface, for use with Multipurpose Stand 80603
Accessories for the MoVeo® IR Videoscope

80131 T  Carrying Bag, for MOVEO® Videoscope with accessories

81 3010 06  Sun shield, for MOVEO® Videoscope

81 3010 07  Monitor connection cover, for MOVEO® Videoscope

81 3010 08  Special anti-glare hood, for MOVEO® Videoscope
80404 GM  **Carrying Strap**, for MOVEO® Videoscope, adjustable, length approx. 1.20 m, including:  
  *Fixation Screw*  
  *Hex Key*

81301010  **Variable LED Light Source, Set** including:  
  *4x RCR123A Rechargeable*, 3.7 V, for LED light source  
  *Charger unit*, for RCR123A rechargeable batteries  
  *User Manual*
# Specifications

## MOVEO® IR Videoscope

### Product Features

<table>
<thead>
<tr>
<th>Sheath design</th>
<th>VG 08015 AE IR</th>
<th>VG 08030 AE IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deflection with straight sheath</td>
<td>4-way with lock. Left: 150°, right: 150°, up: 150°, down: 150°</td>
<td></td>
</tr>
<tr>
<td>Sheath length</td>
<td>1.5 m</td>
<td>3.0 m</td>
</tr>
<tr>
<td>Minimum radius of curvature</td>
<td>21 mm</td>
<td>21 mm</td>
</tr>
<tr>
<td>Sheath outer diameter</td>
<td>8 mm</td>
<td>8 mm</td>
</tr>
</tbody>
</table>

### Operating conditions for sheath incl. distal end

- Operating temperature: in air: -25°C to 80°C; in water: 10°C to 30°C
- Atmospheric pressure: in air: Normal atmospheric pressure (1.013 hPa); in water: 1.013 to 1.368 hPa
- Humidity: 5-95% relative humidity

### Fluid resistance of distal end

Inserted part, no problems when contacting common machine oils, light oil, or 5% saline solution; do not contact SKYDROL in particular. KARL STORZ generally does not accept liability without specific material compatibility testing.

### Waterproof performance of distal end

Inserted part, waterproof design of distal end. May contact water with installed objective.

### Monochrome camera sensor technology

1/5” CMOS 640x480 Resolution

### TV Standard

PAL/NTSC

### Exposure

0.03 Lux / 50 IRE

### Direction of view

0°, direct view

### Angle of view

55°

### Outer diameter of distal end

8.4 mm

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## MOVEO® IR Videoscope System Unit

### Product Features

<table>
<thead>
<tr>
<th>Monitor</th>
<th>Screen size and type: 5” TFT LCD, resolution: 640 x 480. Aspect ratio: 4:3 Shock absorber rubber coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>User interface</td>
<td>On/Off, menu control, image and video recording, infinitely adjustable mechanical light intensity control</td>
</tr>
<tr>
<td>Quick Access Interface</td>
<td>Image and video recording function</td>
</tr>
<tr>
<td>Function - digital zoom</td>
<td>2x</td>
</tr>
<tr>
<td>Function - image rotation</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - flip</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - time/date</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - data export</td>
<td>Yes, via USB or SD card</td>
</tr>
<tr>
<td>Function - auto-off option</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - external monitor display</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - text annotation</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - comparative measurement</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - menu language selection</td>
<td>English, German, French, Spanish, Italian, Japanese, Russian, Portuguese, Dutch, Chinese, Polish, Czech, Croatian, Greek, Danish, Swedish, Finnish, Arabic, Korean, Hindu, etc.</td>
</tr>
<tr>
<td>Function - monitor setting</td>
<td>Manual / factory setting</td>
</tr>
<tr>
<td>Function - text color settings</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Function - instant picture review</td>
<td>Yes, optional</td>
</tr>
<tr>
<td>Product Features</td>
<td>VG 08015 AE IR</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Light source</td>
<td>Removable LED IR light source, avg. operating life 25,000 h, IPX7</td>
</tr>
<tr>
<td>Connection for external light source</td>
<td>Yes, in accordance with manufacturer recommendations</td>
</tr>
<tr>
<td>Memory unit</td>
<td>SD memory card, 32.0 mm x 24 mm x 2.1 mm; pins: 9, ≤ 4GB, can be up to 32 GB</td>
</tr>
<tr>
<td>Image recording format (resolution)</td>
<td>JPEG (640 x 480)</td>
</tr>
<tr>
<td>Video recording format (resolution)</td>
<td></td>
</tr>
<tr>
<td>Video and image recording display</td>
<td>Display supported on Windows Media Player, compatible codecs must be installed</td>
</tr>
<tr>
<td>Input/output ports</td>
<td>Memory interface: 1x SD, USB port: 1x Mini-USB 1.1./USB, image signal output: 1x AV, power supply: 1x 5 V DC</td>
</tr>
<tr>
<td>Power supply - MOVEO® IR Videoscope</td>
<td>exchangeable lithium-ion polymer battery, rated voltage: 3.7 VDC, capacity: 3900 mAh, average operating time: approx. 180 minutes, average charging time: approx. 180 minutes, exchangeable: yes, mains adaptor for main unit: input voltage: 100 to 240 V AC, frequency: 50/60 Hz, rated voltage: 5 V DC, battery charger for additional battery: input: 100 to 240V AC, frequency: 50/60 Hz, rated voltage: 4.2 V DC.</td>
</tr>
<tr>
<td>Power supply – LED light Source</td>
<td>KARL STORZ Art. No.: 81301032: type of battery: 2x RCR 123A, lithium-ion, rechargeable, rated voltage: 3.7 V, capacity: 650 mAh, operating time with battery operation at 100% light intensity: 70 minutes (with a new battery), with 50% light intensity and fully charged batteries operating time is approx. 120 minutes, average charging time: approx. 150 minutes KARL STORZ Art. No.: 81 301037, Li-on RCR 123 A battery charger, input voltage: 100 to 240 V AC; frequency: 50/60 Hz, rated voltage: up to 4,35 V DC.</td>
</tr>
<tr>
<td>Operating conditions – other parts</td>
<td>Operating temperature:</td>
</tr>
<tr>
<td></td>
<td>• in air: -10 °C to 45 °C (battery operation); 0 °C to 40 °C (AC operation)</td>
</tr>
<tr>
<td>Storage conditions</td>
<td>Storage temperature: -15 °C to +50 °C, 5-95% relative humidity, air pressure 500 hPa – 1080 hPa</td>
</tr>
<tr>
<td>Dimensions</td>
<td>approx. 150 (w) x 290 (h) x 60 (d) mm (without inserter, cable and light source)</td>
</tr>
<tr>
<td>Weight of overall system including rechargeable batteries and light source</td>
<td>approx. 1100 g</td>
</tr>
<tr>
<td>Multifunctional case - dimensions and weight</td>
<td>Dimensions: 617 x 487 x 191 mm (w x h x d), weight: approx. 7.1 kg (model with all standard components stored away: approx. 9.3 kg)</td>
</tr>
<tr>
<td>Design</td>
<td>CE</td>
</tr>
</tbody>
</table>
At KARL STORZ, we are constantly advancing all of our products. For that reason, please understand that changes may be made to the scope of supply, design, equipment, and technology. Therefore, the information, illustrations, and descriptions contained herein cannot be made the basis for any claims whatsoever.

* For an up-to-date overview of the individual product groups, please refer to the product brochures of the KARL STORZ Industrial Group.
Your Focus – Our Scope

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