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www.comegmedical.com

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COMEG Medical Technologies is the Medical Division of the Acteon Group.

- Over **40 years of experience** in surgical field
- Focus specifically in **Minimally Invasive Surgery (MIS)**
- Global presence on **6 continents**
- **Meeting the specific needs** for GYN, URO, ENT, LAP, ARTHRO, CMF and PLASTIC surgery
- **Intuitively connecting physicians** with the appropriate solutions

COMEG designs intuitive solutions for minimally invasive surgeries.

COMEG
medical technologies

www.comegmedical.com
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Enlarge your perspectives with the perfect combined solution



DUO
Full HD

INTUITIVE
CONNECTION



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DUO FULL HD, THE INTUITIVE SOLUTION FOR YOUR DAILY PRACTICE



DUO
Full HD

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2-in-1
device: camera and light source

3
programmed buttons

Less than
1m²
floor space used with trolley

LED lifetime up to
50 000
hours

1920 x 1080 p
Full HD resolution



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A UNIQUE COMBINED SOLUTION FOR EFFECTIVE TREATMENT

FULL HD CAMERA

The work quality is closely linked to the ability to discern the smallest details. Having control of these details makes the difference!

The Full HD resolution, provides accurate images to ensure a reliable treatment.

LED LIGHT SOURCE

Good quality of light is essential for any endoscopic act, this is why it is important to allow the practitioner to adapt the parameters according to his requirements and the type of treatment.



SOPRO, a company of the ACTEON Group, is the manufacturer of the EC marked class I medical devices described in this document. These medical devices marketed under the commercial brand COMEG are not covered by medical insurance companies. Please read carefully the instructions in the device manual before use.

DUO Full HD

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OUTSTANDING COMFORT FOR YOU & YOUR PATIENTS

Intended for both the consulting and the operating room, DUO Full HD is a system offering a multi-disciplinary use, taking the first step between consultation and the surgical act.

This 2-in-1 solution combines the control unit of a Full HD camera and a powerful led light source. An all-in-one convenient by its use, but also, by its small size, allowing to have a clean workplace.

ENLARGE YOUR PERSPECTIVES

PRE OPERATIVE

Choose DUO Full HD
for your diagnosis

INTRA OPERATIVE

Match performance & simplicity
during your surgery

POST OPERATIVE

Your patient is your priority
during post-operative controls

3 REASONS TO USE DUO FULL HD

- High quality images procure a valuable support in making decision for a good therapy.
- Private office consultation probably offers less painful care to patients by reducing the stress related to operating room.
- Bringing the device into the operating room enlarges your field of possibilities, allows you to go further than the simple consultations by making the shift to small surgeries.



DUO Full HD

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WORK SMARTER, WORK FASTER

DUO Full HD IS SO INTUITIVE, THAT IT HAS NEVER BEEN SO EASY TO PERFORM CLINICAL ACTS



SO ATTRACTIVE WITH ITS COMPACT & MODERN DESIGN

Created with cutting edge technology and design, the DUO Full HD, thanks to this compact size and elegant design, fits perfectly in all environment, both in consultation or operating room.

SO SIMPLE WITH ITS GRAPHICAL INTERFACE

Thanks to its recognizable icons, your workflow has never been so smooth and efficient. The colored touchscreen provides intuitive navigation for fluid and easy use.

SO CONNECTED TO SAVE YOUR PHOTOS!

Save your photos during a patient's treatment and share it in various scientific contexts such as conferences, congresses and university courses, or simply to implement the patient file.

With its USB port, connect your USB stick and take some pictures directly from the camera head!

Complete,
Intuitive

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EXTEND YOUR WORKPLACE FROM PRIVATE OFFICE TO OPERATING ROOM

Using the DUO in private office allows you to perform some various diagnosis acts, in different applications, but bringing the system into the operating room enlarges your field of possibilities.

In either case, the DUO Full HD always allows you to have a friendly work environment, used on a table or on a cart.



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Ubicart, the mobile consultation cart, together with its monitor, will perfectly meet your needs for all treatments.

- LG 27" Full HD monitor: **Ref. S_700794**
- Ubicart 1m: **Ref. S_700362**
  Ubicart 1m with transformer: **Ref. S_700418**
- Ubicart 1m50: **Ref. S_700791**
  Ubicart 1m50 with transformer: **Ref. S_700793**

* Manufacturer: Jansen, EC medical device of Class I

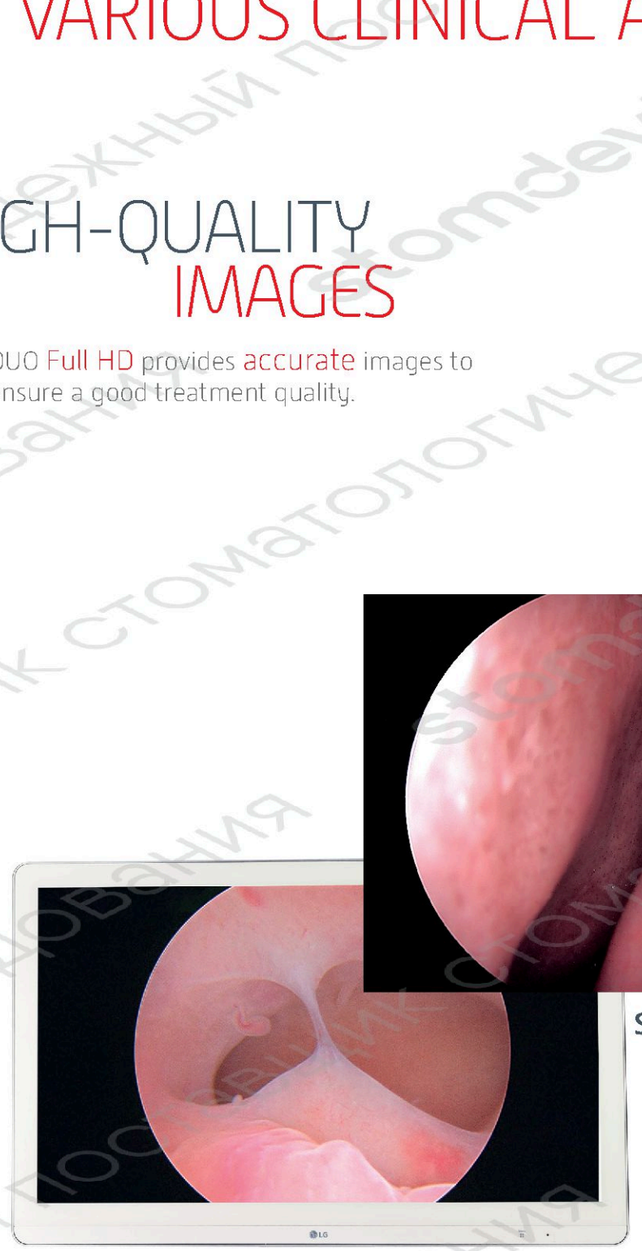
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PERFECTLY ADAPTED TO VARIOUS CLINICAL APPLICATIONS

HIGH-QUALITY IMAGES

DUO Full HD provides accurate images to ensure a good treatment quality.



Hysteroscopy

Otology

Urology

Sinuscopy

TIME SAVING & INSTANT RESULTS



Consultation, Surgery

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MAKE IT EASY!

EASY TO CONNECT
FAST ASSEMBLY SYSTEM



Connect easily
your camera head



Camera head is compatible
with all C-mount couplers

EASY TO USE
FOCUS ON PATIENT

During diagnosis/intervention, it is essential to stay focused on your actions and on your patient. All parameters can be adjusted and memorized once for all, and all essential functions are accessible from the camera head.

Adapt your parameters from the control unit:

- Light intensity,
- Brightness,
- Details,
- Red or blue gain,
- Red phase,
- Color,
- Gain.

Control your system from the camera head:



* Programmable with LED -/+ or Zoom -/+

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TECHNICAL SPECIFICATIONS

SPECIFICATION OF THE CONTROL UNIT

- Automatic white balance
- Video outputs:
  - 1 HDMI
  - 1 HD-SDI/3G-SDI
  - 1 USB 3.0 micro B
- Recommended USB stick format: FAT32
- Compatible with Storz® and Olympus® type light cables
- Electronic iris shutter
- Automatic thermal protection system
- Light intensity equivalent to 180 Watts Xenon light source
- Manual adjustment of the light intensity
- Anti-blinding feature with light cable detection
- LED technology
- LED lifetime up to 50 000 hours
- Color temperature: 5 000 K
- Brightness, details, red and blue gains, color adjustments
- Gain: Off / Low / High
- On screen displayed adjustments
- "SAVE" function to memorize the settings
- "RESET" function to restore to the factory settings
- Digital zoom up to 2.5x
- Full HD Images recorder integrated (USB) / Format .tiff
- Touchscreen with intuitive interface
- 17 languages
- Dimensions (W x H x D): 260 x 100 x 215mm
- Weight: 1900 g
- Protection type: IPX0 (not drip-proof)
- Power supply: 100 - 240 VAC / 50 - 60 Hz
- Power consumption: 85-95 VA
- Two T 1,6 A - 250 V fuses (Marked UL/CSA only)
- Continuous service

Art. N°	Description
S_195_9000	S195 DUO Full HD CCU - EU
S_195_9001	S195 DUO Full HD CCU - US

SPECIFICATION OF THE CAMERA HEAD

- 1CMOS Exmor R™ technology 1/2" Full HD sensor
- 2 Programmable buttons
- Automatic electronic shutter (1/50 to 1/100 000)
- Resolution: 1920 x 1080 p
- Definition: 1080 lines
- Active pixels area: 1920 x 1080
- Cable length: 2,99 meters
- Dimensions (D x H): 130 x 47mm
- Weight (camera only): 152 g
- Protection type: IPX7 (waterproof)

Art. N°	Description
S_195_8000	S195 DUO Full HD Camera Head - without coupler

SPECIFICATION OF THE COUPLER

- 24mm HD coupler
- C-mount, scope holder with locking mechanism
- Weight: 87g
- Protection type: IPX7 (waterproof)

Art. N°	Description
S_024_0001	24mm HD coupler

REGULATORY & ENVIRONMENT

- Electrical safety: Class 1 device, CF type applied parts
- Operating temperature: +10°C / +40°C
- Transport temperature: -10°C / +45°C
- Storage temperature: +10°C / +40°C
- Operating, storage and transport atmospheric pressure: 700 hPa to 1060 hPa
- Compliant with European directive 93/42/EEC - Class I
- Compliant with international standards IEC 60601-1; IEC 60601-2-18; IEC 60601-1-2: IEC60601-1-6 and NF EN ISO 15223-1
- IEC 62471: risk group 2
- Not suitable for use in presence of flammable gaz. Recommendation of use in an operating room in accordance with applicable regulations

DUO KIT DELIVERED WITH :

EU: S_K19_1000 US: S_K19_1001

- 1 Camera control unit,
- 1 Camera head,
- 1 24mm coupler,
- 1 Light cable (with Storz® adaptor)

Technical Specifications

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