Intuitive & Smart Solution
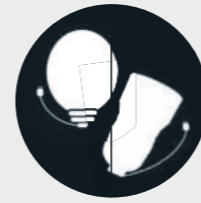
About Duo©

Ackermann Duo© is the intuitive and convinient 2-in-1 solution that combines a Full HD camera control unit and a powerful LED lightsource.

It is engineered for both, consulting and operating room for multi-disciplinary use - taking the first step between consultation and the surgical act. Created with cutting edge technology and futuristic design, this unit, due to this compact size and elegant design, takes less than 1 m² floor space with a trolley.

2in1 Cam & LED

ACKERMANN DUO
FULL HD Camera System & LED Lightsource

KEY FEATURES

√ **Full HD ~~Exmor R~~ camera technology**
√ **LED lightsource 180W Xenon equivalent**
√ **3 programmable buttons on camera head**

LED ZOOM +

LED ZOOM -

LONG PRESS **AWB**

SHORT PRESS **PHOTO**

DOUBLE PRESS **FLEX MODE**

TECHNICAL SPECIFICATIONS

CAMERA CONTROL UNIT & LED LIGHTSOURCE

√ Automatic white balance
√ Video Outputs ➲ 1 HDMI; 1 HD-SDI/3G-SDI; 1 USB 3.0 micro B
√ Recommended USB stick format ➲ FAT32
√ Electronic iris shutter
√ Compatible with Ackermann, Storz® and Olympus® light cables
√ LED lightsource technology equivalent to 180 Watts Xenon
√ Manual adjustment of the light intensity
√ Anti-blinding feature with light cable detection
√ Automatic thermal protection system
√ LED liftime up to 50.000 hours
√ Colour 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 215 mm
√ Weight ➲ 1.9 kg
√ Protection type ➲ IPX0 (not drip-proof)
√ Power supply ➲ 100 - 240 VAC / 50 - 60 Hz
√ Power consumption ➲ 85-95 VA
√ 2x T 1,6 A - 250 V fuses (Marked UL/CSA only)
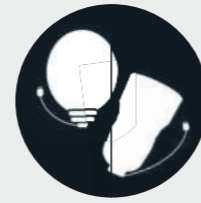√ Continuous service

CAMERA HEAD

√ 1x CMOS Exmor RTM technology 1/2'' Full HD sensor
√ 3 programmable buttons
√ Automatic electronic shutter (1/50 to 1/100.000)
√ Resolution ➲ 1920 x 1080 pixels
√ Definition ➲ 1080 lines
√ Active pixel area ➲ 1920 x 1080
√ Cable length ➲ 2,99 m
√ Dimensions (D x H) ➲ 130 x 47 mm
√ Weight (camera head only) ➲ 152 g
√ Protection type ➲ IPX7 (waterproof)

ITEM #   16-2009

COUPLER

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

Ackermann©

16-2009   LED

ACKERMANN DUO
Full Flexibility

3 PROGRAMMABLE BUTTONS

COMPACT **2IN1 UNIT**
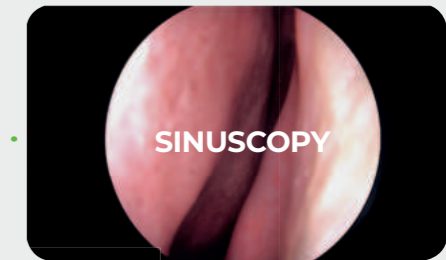
INTUITIVE NAVIGATION

IDEAL FOR **DAILY PRACTICE**

BEFORE: **PRE** OPERATIVE
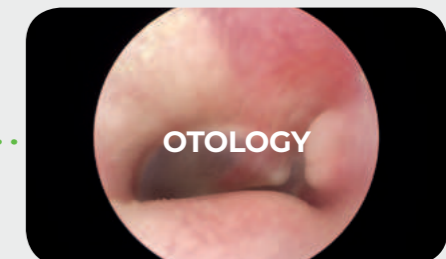
DURING: **INTRA** OPERATIVE

AFTER: **POST** OPERATIVE

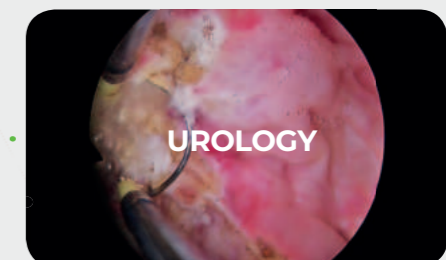**50.000h** LED LIFE-TIME

1920x1080p HIGH-QUALITY IMAGE

INTEGRATED **USB-REC**

CAN BE USED FOR **VARIOUS** APPLICATIONS

LAPAROSCOPY

SINUSCOPY

OTOLOGY

HYSTEROSCOPY

UROLOGY

DU

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CAMERA

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www.ackermanninstrumente.de