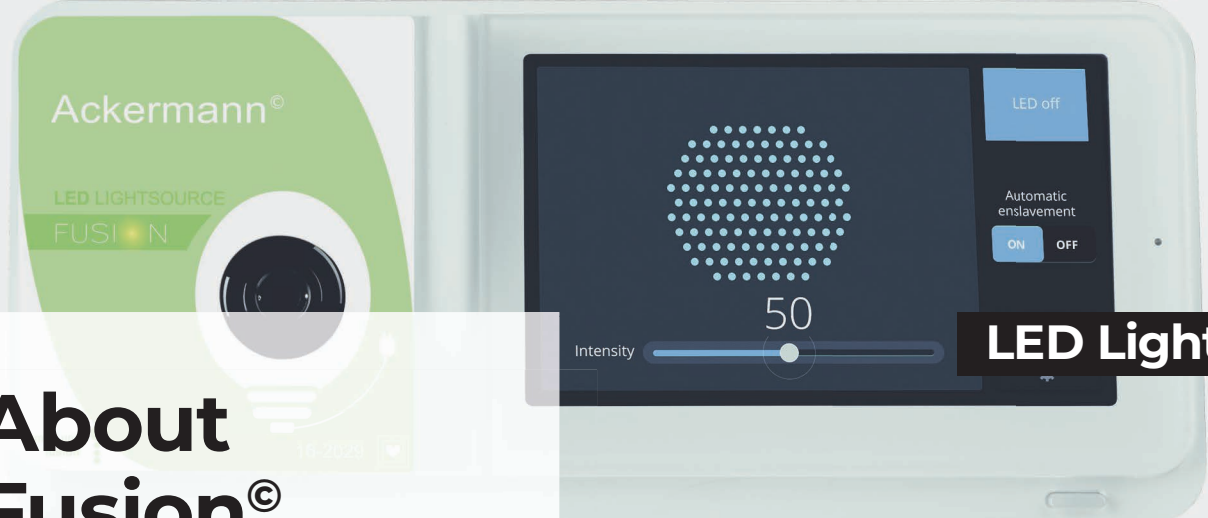


# Every Surgeon's Virtual Assistant



Camera System

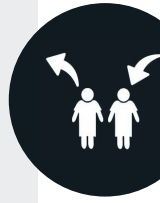


LED Lightsource

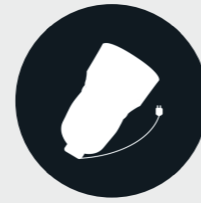
## About Fusion<sup>®</sup>

Ackermann Fusion is the only surgical tower that offers module interconnectivity in the market and is engineered to provide the best endo solutions to today's surgeons.

The Fusion Tower is a comprehensive endoscopic platform which acts as a medium and virtually assists the surgeons and physicians in surgery.



Insufflator



# ACKERMANN FUSION Camera System

**KEY FEATURES**

- ✓ Full HD **Exmor R** CMOS Sensor camera technology
- ✓ Touchless instantaneous personalization
- ✓ Integrated USB recording
- ✓ Compatible with 4K monitors

### TECHNICAL SPECIFICATIONS

<b>CAMERA CONTROL UNIT</b>	
✓ Touchscreen	7" LCD touchscreen with 16:10 format
✓ RF transmitter	RFID; Frequency 13,56 MHz; Power 70 mW (+18dBm)
✓ Communication	Integrated communication module; Contactless technology; Fusion Cards
✓ Data management	True Full HD recording with external USB storage device
✓ User profiles	Unlimited
✓ Sensors	Integrated light sensor
✓ Instructions for use	Always available on screen
✓ Video outputs	CVBS: 1.0 V [P-P] / 75 ohms, Negative Sync; Y/C: Y: 1.0 V [P-P] / 75 ohms, C: 0.286 V [P-P] (NTSC), C: 0.3 V [P-P] V [P-P] (PAL) / 75 ohms, Negative Sync; RGB: 3 x 0.7 V [P-P] & 0.3 V [P-P] / 75 ohms; HD-SDI, 3G-SDI: 0.8 V [P-P] / 75 ohms SMPTE292M, SMPTE425M-A; DVI-D
✓ Dimensions	310 x 136 x 385 mm
✓ Weight	4,2 kg
✓ Electric power supply	100 - 240 VAC @ 50 Hz-60 Hz
✓ Power consumption	50 VA

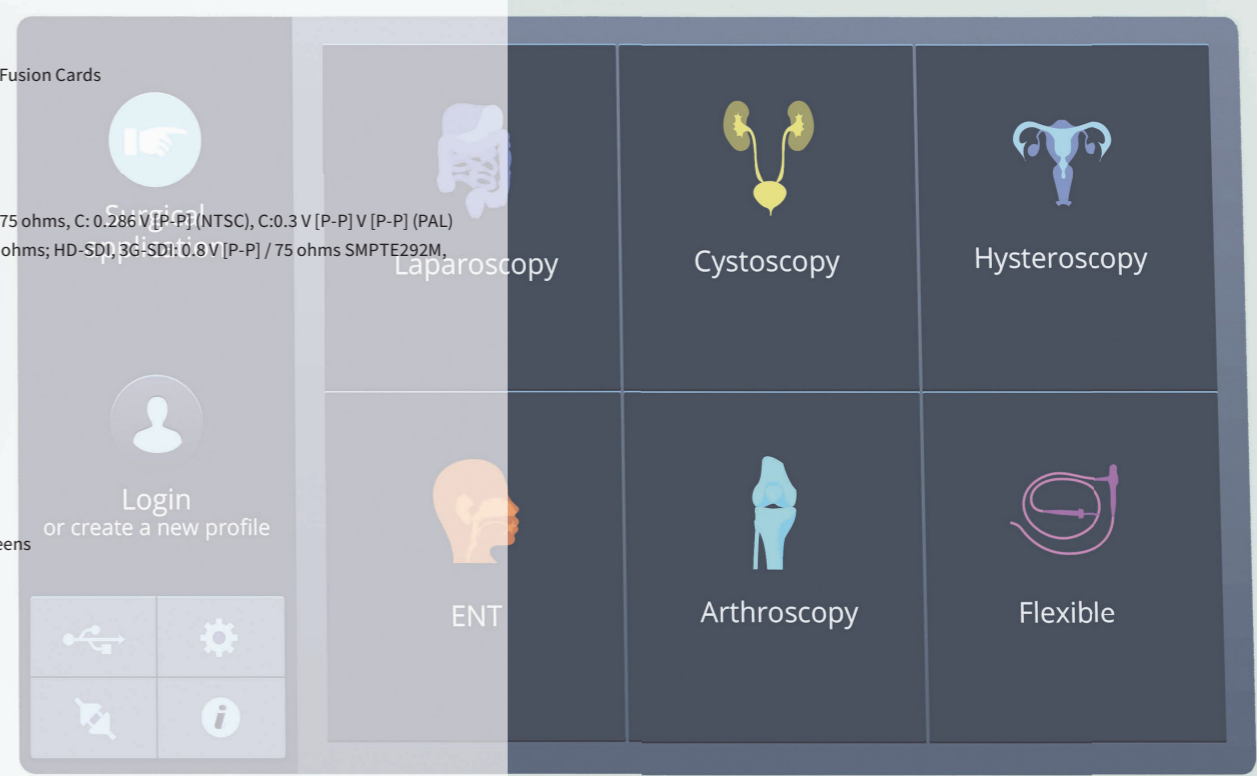
<b>CAMERA HEAD</b>	
✓ Sensor	Sony Exmor R, size 1/2"
✓ Resolution	True Full HD 1920 x 1080 pixels; 4K ready with compatible screens
✓ Definition	1080 lines
✓ Optical interface	Depends on coupler
✓ Focal length	Depends on coupler
✓ Acquisition	16:9 format
✓ Scan mode	Progressive scan technology
✓ Sensitivity	0.1 lux
✓ Sensor dimensions	149 (D) x 53 mm (H)
✓ Sensor weight	260 g
✓ Cable length	3 m
✓ Noise	57 dB
✓ Sterilization	Steris and Sterrad 100NX

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### MORE FEATURES

- ✓ True Full HD – No upscaling
- ✓ 360° monofilament camera cable connector
- ✓ Various different outputs incl. 2xHD-SDI, which can be converted to 3D-SDI outputs
- ✓ Peripheral triggerings for keyboards and external devices
- ✓ Device calibration in less than 1 sec. with Fusion Cards
- ✓ PAL/NTSC encoding in one device
- ✓ Realtime optimization
- ✓ 16 Languages – more on request
- ✓ Preset speciality programs: LAP, ARTHRO, URO, ENT, CYSTO, FLEX
- ✓ Unlimited user profiles
- ✓ Automatic parameter adjustment on Sony and Panasonic screens
- ✓ Recommended to use with screens supplied by Ackermann and Ackermann Full HD scopes
- ✓ Demountable camera head for use with HD zoom or standard coupler
- ✓ Control via 3 programmable buttons easy to reach and providing





# ACKERMANN FUSION LED Lightsource



# ACKERMANN FUSION Insufflator



## KEY FEATURES

- ✓ LED lightsource 300W Xenon equivalent
- ✓ Automatic light cable detection
- ✓ Automatic light adjustment

## MORE FEATURES

- ✓ Proven LED technology with 40.000h or 10 years life for an average use of 300h per month
- ✓ Supplied with Ackermann, Storz and Olympus adaptors
- ✓ Recommended to use Ackermann fibre optic light cables



## KEY FEATURES

- ✓ Insufflation featuring automatic flow management
- ✓ Insufflation range of 2L/min - 45L/min

## MORE FEATURES

- ✓ Insufflator featuring automatic flow management
- ✓ Insufflation range of 2L/min - 45L/min
- ✓ Pressure Setting 0 - 25mmHg
- ✓ Insufflation can be paused / resumed any time
- ✓ Automatic bottle / wall plug / tubing detection
- ✓ Patented function indicates remaining insufflation time
- ✓ Equipped with bariatric insufflation parameters
- ✓ Automatic detection of change-over to high and low flow rate
- ✓ Equipped with external desufflation valve
- ✓ Recommended to use with Ackermann high pressure hose and compatible only with Ackermann insufflation tubings (reusable and single use)

## TECHNICAL SPECIFICATIONS

- ✓ Touchscreen 7" LCD touchscreen with 16:10 format
- ✓ Light technology LED equivalent to 300 W Xenon or more
- ✓ Colour temperature > 6500° K
- ✓ LED life duration 40.000 hours
- ✓ Adaptes unit side (supplied) Ackermann; Storz<sup>2</sup>; Olympus<sup>1</sup>
- ✓ Iris Electronic
- ✓ Light adjustment Manual; Automatic
- ✓ Integrated Anti-blinding system; Detector of light cable; Automatic thermal protection system
- ✓ Instructions for use Always available on screen
- ✓ Dimensions 310 x 136 x 385 mm
- ✓ Weight 5 kg
- ✓ Electric power supply 100 - 230 VAC @ 50 Hz-60 Hz
- ✓ Power consumption 160 VA

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## TECHNICAL SPECIFICATIONS

- ✓ Touchscreen 7" LCD touchscreen with 16:10 format
- ✓ Displays Immediate flow rate; Pressure in cavity; Total volume of CO<sup>2</sup> used; Low cylinder levels; Insufflation time in minutes
- ✓ CO2 gas supply system US 7/16" connector
- ✓ Pressure range CO2 cylinder 10 to 60 bars; Central gas wall plug 3 to 5 bars
- ✓ Maximum flow rate 45L/min in high-flow mode; 2L /min in low flow mode
- ✓ Pressure setting 0 to 25 mmHg
- ✓ Accuracy 1 mmHg
- ✓ Gas evacuation External valve
- ✓ Automatic functions Pressure management; High flow mode to compensate deflation; Detection of CO2 cylinders and wall plugs
- ✓ Additional parameters Integrated bariatric insufflation parameters
- ✓ Instructions for use Always available on screen
- ✓ Dimensions 310 x 136 x 385 mm
- ✓ Weight 8 kg
- ✓ Electric power supply 100 - 230 VAC @ 50 Hz-60 Hz
- ✓ Power consumption 75 VA

ITEM # 16-2045

