













Surgeons asked. Nurses dreamed. We delivered—with projected cost-per-case savings of 20%.²

Efficiency at every angle

Time

The ArthroFree System:

- Offers drop-in compatibility with contemporary OR technologies.
- De-clutters the sterile field.
- Reduces set-up and take-down times.³

Energy

One is the magic number

- One sterilization tray for ArthroFree components
- One sterilization process, requiring one chemical treatment

Low wattage, smart consumption

- Conventional light box (90W to 400W): in use all day long
- ArthroFree light source (5W), with rechargeable battery: in use from white balance to end of procedure



Value

The efficiency of simplicity⁴

- Fewer components on the surgical tower
- Fewer items in the sterile field
- No cables to prep, untangle, or replace

Safety, cool and simple

The ArthroFree System eliminates camera-cabled-related:5

- Patient burns.
- OR fires.
- Staff trips and falls.

The ArthroFree Advantage

Wireless technology for agility and security

- Surgeon-approved ergonomics and more freedom of movement⁶
- Proprietary wireless connection for patient-data security
 - HIPAA-compliant, point-to-point encryption
 - Not dependent on Bluetooth or Wi-Fi

Low-heat efficiency for patient safety⁷

Peak recorded temperature of fiber-optic wire	194.5°C
Drape ignition flashpoint	121.1 ° C
• ISO standard 60601-1: Allowable max. temperature for device contact with patient	48.0°C
 ArthroFree's Meridiem[®] light engine, maximum temperature 	43.0°C

The five-step surgery prep

- 01 Remove the sterile components from their tray
- 02 Attach an endoscope and slide the Meridiem light engine onto the scope's ACMI input

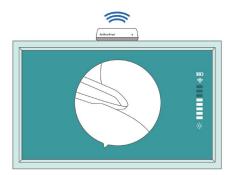
Conventional System

- 03 Insert a charged battery to power on the system
- 04 Adjust the white balance
- 05 Experience the comfort and freedom of ArthroFree

Less is more . . .

with ArthroFree

The ArthroFree System





Technical Specifications

The ArthroFree OR Kit includes: Camera Heads (3), Receiver (1), Batteries (15), Battery Charger (1), and Sterilization Trays (3). All Class II components, except for the Battery Charger. (Images not to scale.)

Locale Party	Camera Head	Imaging Sterilization Dimensions (handle) Weight, with battery Product #	1/2.7" CMOS HD STERRAD® 13.8 x 5.0 x 4.2 cm (6.4 cm at antenna) 438 g AF0001-101-11
Arbedree	Receiver	Imaging Trigger ports Video outputs Dimensions (front) Weight Product #	1080p @ 60 fps HD video 2x 3.5 mm mono (1/8") female 2x DVI 16.4 x 11.3 x 4.2 cm 294 g AF0002-101-10
	Battery	Output electrical ratings Sterilization Dimensions Weight Product #	3.6 V 2930 mAh, 10.55 Wh STERRAD [®] 11.2 x 3.8 x 2.4 cm 83 g AF0003-101-10
	Battery Charger	Output electrical ratings Dimensions, with batteries Weight, without batteries Product #	12 vdc, 1 A, 5 bay 35.7 x 14.9 x 10.6 cm 800 g AF0004-101-10
	Sterilization Tray	Dimensions Weight Product #	32.6 x 18.4 x 6.8 cm 1400 g AF0005-101-10

Notes

¹82% of respondents (n=84) indicate that they expect the ArthroFree System to improve safety. 84% of respondents (n=85) indicate that they expect the ArthroFree System to improve efficiency. Data on file. Lazurite LLC. Human Factors Summative Usability Studies. 2021-2022.

² This analysis includes amortized capital, sterilization costs, disposable/replaceable items, and service-contract costs. The projected 20% is based upon 30 arthroscopic procedures per week. Lazurite LLC. 22-015R. Cost-Per-Case Analysis of Surgical Camera Systems: The Wireless ArthroFree™ System vs. Conventional Wired Systems vs. Disposable Surgical Camera Systems. 2022.

³ The setup, takedown, and processing times of the ArthroFree System were significantly lower than respective times of a conventional camera system. Lazurite LLC. 21-073R. Simulated OR Wireless versus Wired Arthroscopic Camera Set-Up and Take Down: Summary Report. 2022.

⁴ The ArthroFree System typically replaces two box components on the surgical tower, light wires, and cable guides with a receiver and a battery. ⁵ Bullet 1: Maximum heat production of the ArthroFree wireless camera: 43°C. Select legacy cameras exceed 190°C. Data on file. Lazurite LLC. 21-046R. External Temperature Validation. 2021. Bullet 2: Cowles CE Jr, Culp WC Jr. Prevention of and response to surgical fires. *BJA Education*. 2019; 19(8):261-266.

⁶ Data on file. Lazurite LLC. 21-043R. Human Factors Summative Usability Study of the ArthroFree Wireless Surgical Camera System. 2021.

⁷ Bullet 1: Spradling K, Uribe B, Okhunov Z, et al. Evaluation of ignition and burn risk associated with contemporary fiberoptic and distal sensor endoscopic technology. *Journal of Endourology*. 2015; 29(9): 1076-82. Bullet 2: 3M. "Article Information Sheet. 3M[™] Ioban[™] 2 Antimicrobial Incise Drapes 6035, 6040, 6048, 6050, 6051, 6640EU, 6648EU, 6650EU, 6651EU." Document Group: 08-3227-9. Version: 1.00. October 13, 2021. <u>https://tinyurl.com/3Msafetydata</u>. Bullet 3: ISO standard at 48°C for contact of 1m 1s to 9m 59s. SL Power Electronics Corp. "Considerations for Maximum Allowable Temperature as per Safety Standards IEC 60601-1, IEC 60950-1 and IEC 61010-1." AN-G012. Application Note V0719. 2019. Bullet 4: Data on file. Lazurite LLC. 21-046R. External Temperature Validation. 2021.

Learn more about the advantages of ArthroFree.

Contact us at 1.833.214.2324 or sales@lazurite.co.

lazurite.co/arthrofree

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