

Teleflex is a global provider of medical technologies designed to improve the health and quality of people's lives. We apply purpose driven innovation – a relentless pursuit of identifying unmet clinical needs – to benefit patients and healthcare providers. Our portfolio is diverse, with solutions in the fields of vascular and interventional access, surgical, anesthesia, cardiac care, urology, emergency medicine and respiratory care. Teleflex employees worldwide are united in the understanding that what we do every day makes a difference. For more information, please visit teleflex.com.

Teleflex is the home of Arrow, Deknatel, Hudson RCI, LMA, Pilling, Rüschi, and Weck – trusted brands united by a common sense of purpose.

Corporate Office

Phone +1 610 225 6800, 550 E. Swedesford Road, Suite 400, Wayne, PA 19087, USA

Regional Offices

United States: Phone +1 919 544 8000, Toll Free 866 246 6990, cs@teleflex.com, 3015 Carrington Mill Boulevard, Morrisville, NC 27560, USA

Latin America: Phone +1 919 433 4999, la.cs@teleflex.com, 3015 Carrington Mill Boulevard, Morrisville, NC 27560, USA

International: Phone +353 (0)19 06 46 08 00, orders.intl@teleflex.com, Teleflex Medical Europe Ltd., IDA Business and Technology Park, Dublin Road, Athlone, Co Westmeath, Ireland

Australia 1300 360 226

Austria +43 (0)1 402 47 72

Belgium +32 (0)2 333 24 60

Canada +1 (0)800 387 9699

China (Shanghai) +86 (0)21 6163 0965

China (Beijing) +86 (0)10 6418 5699

Czech Republic +420 (0)495 759 111

France +33 (0)5 62 18 79 40

Germany +49 (0)7151 406 0

Greece +30 210 67 77 717

India +91 (0)44 2836 5040

Italy +39 0362 58911

Japan +81 (0)3 6632 3600

Korea +82 2 536 7550

Mexico +52 55 5002 3500

Netherlands +31 (0)88 00 215 00

New Zealand 0800 601 100

Portugal +351 22 541 90 85

Singapore (SEA non-direct sales countries) +65 6439 3000

Slovak Republic +421 (0)3377 254 28

South Africa +27 (0)11 807 4887

Spain +34 918 300 451

Switzerland +41 (0)31 818 40 90

United Kingdom +44 (0)1494 53 27 61

For more information, please visit teleflex.com.

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Arrow

AC3 Optimus Intra-Aortic Balloon Pump

Simply outstanding performance, support, and efficiency in an IABP

Advanced IABP performance even in the most critical conditions

For patients requiring mechanical cardiac support, the performance of your IABP can mean all the difference. With the onset of an elevated heart rate or arrhythmia, the patient's survival can suddenly depend on the ability of the IABP to keep pace with the situation. The AC3 Optimus Intra-Aortic Balloon Pump provides intra-beat inflation timing accuracy across the broadest range of patient conditions – including those with severe arrhythmias.^{1,3}



Simply everything you're looking for in an IABP

Critical therapy delivery when it matters most

- WAVE Algorithm provides precise and accurate support for patients with the most severe arrhythmias and heart rates as high as 200 bpm³
- Exclusive ProActive Counterpulsation Technology determines individual AV closure points to provide intra-beat inflation timing accuracy¹⁻³
- A trio of proprietary algorithms that help improve the clinical efficacy of IABP therapy⁴ and simplicity with which it's delivered
- The third-generation, state-of-the-art AutoPilot Mode automatically adjusts timing and triggering parameters with precise volume delivery

Outstanding clinical support to ensure effective delivery

- Initial installation clinical training
- On-going web-based learning and training

Designed for simplicity, engineered for economy

- Pneumatic drive system with no scheduled replacement parts
- Low component replacement costs
- Minimal service required

References:

1. Donelli A, Jansen JRC, Hoeksel B, et al. Performance of a real-time dicrotic notch detection and prediction algorithm in arrhythmic human aortic pressure signals. *J Clin Monit.* 2002;17(3-4):181-185. Study sponsored by Teleflex.
2. Hoeksel S, Jansen JRC, Blom J, et al. Detection of dicrotic notch in arterial pressure signals. *J Clin Monit.* 1997;13(5):309-316. Study sponsored by Teleflex.
3. Schreuder J, Castiglioni A, Donelli A, et al. Automatic intraaortic balloon pump timing using an intra beat dicrotic notch prediction algorithm. *Ann Thorac Surg.* 2005;79(3):1017-1022. Study sponsored by Teleflex.
4. Torracca, L. Overcoming electro-surgical inference in IABP therapy with the combined use of AutoPilot and FiberOptix IAB sensor signal. 2007. (case report, data on file). Study sponsored by Teleflex.

User-friendly features and functionality

Control and access to alarm history, allows all alarm controls to be set

Icon indicates zero status of current AP source and provides controls to zero the status

All IABP functions are controlled with six keys

Illuminating switch indicates pump is alarming and the priority level

Assisted and unassisted hemodynamic values are displayed in separate colors

A touch of the waveform accesses signal related controls for lead selection and scaling