

**K890398 RYAN-STYLE DIRECTED INFUSION MANIPULATOR**Feb 17, 1989  
24 days to decisionK890398 · Product code: **HBI** · General & Plastic SurgerySource: <https://www.510kdatabase.net/k890398/>**SUBMISSION DETAILS**

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Decision	Substantially Equivalent (Cleared)
Submission type	Traditional
Device classification	Illuminator, Fiberoptic, Surgical Field (HBI)
Date received	Jan 24, 1989
Decision date	Feb 17, 1989
Days to decision	24 days
Third-party review	No

**APPLICANT**

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Company	<b>Advanced Surgical Products, Inc.</b>
Location	Charles, MO, US
Contact	TODD J HESSEL
510(k) history	64 submissions · 64 cleared · 1987-2003

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510k Database - [www.510kdatabase.net](http://www.510kdatabase.net)Device record: <https://www.510kdatabase.net/k890398/>; Data sourced from FDA 510(k) public records ([accessdata.fda.gov](http://accessdata.fda.gov)).510k Database is an independent platform not affiliated with the U.S. Food and Drug Administration. Always verify at [accessdata.fda.gov](http://accessdata.fda.gov). - Generated June 30, 2026