

ACIST | HDi Product Specifications



The HDi high-definition IVUS system enables optimized visualization to inform, illuminate and improve coronary intervention strategy.



Product benefits

Optimized imaging

- Dual frequency option (40 MHz or 60 MHz) to balance tissue penetration, providing superfine axial resolutions to 40 microns
- Powerful and flexible imaging modes that help in identifying complications and plaque composition
 - SilkView™, LumenView™ and ClassicView™
- High-speed pullback capability supports up to 20x faster assessment, reduced total procedure time, and minimized motion artifact and ischemic risk

Intuitive interface, streamlined profile

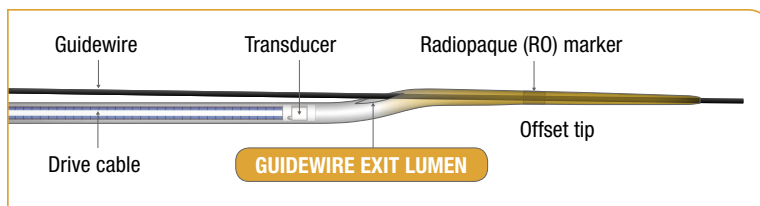
- Easy-to-use, interactive touch screen functionality facilitates rapid analysis and efficient workflow
- Compact console configuration has small footprint that easily integrates into cath lab

Differentiated catheter design

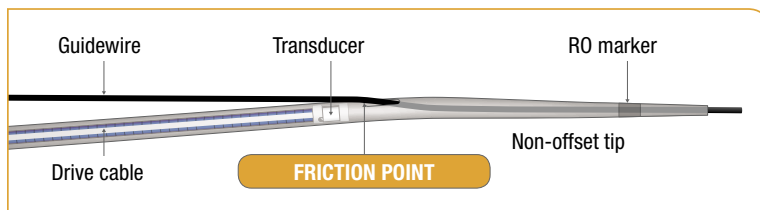
- Novel, offset tip enhances lesion crossability and trackability, and reduces the risk of guidewire entrapment and kinking
- Variflex™ imaging window designed with stiffer proximal end and a more flexible distal end, provides enhanced pushability and deliverability
- Lubricious hydrophilic coating provides easy navigation in tortuous anatomies

Product and technical specifications

	HDi console (SKU # 017986)
Power input requirements	100–240 V AC, 3–1 A, 50–60 Hz
Soft tissue penetration	>2.5 mm
Blood penetration	>3.4 mm
Maximum frame rate	60 fps
Frame spacing	17–167 μ m
Operating temperature range	64–86°F (18–30°C)
Storage and operating humidity range	15–85%, non-condensing
Pressure range	7.3–15.4 psi, 50–106 kPa
Dimensions	Depth: 7.5 cm (75 mm), width: 43.75 cm (437.5 mm), height: 36.5 cm (365 mm)
Weight	16.5 lbs (7.5 kg)
Power cable length	4.0 m (~13 ft) maximum



Kodama offset tip design



Standard IVUS catheter tip design

ACIST | HDi® HD IVUS System

Contact us in the US:

ACIST Medical Systems, Inc.
7905 Fuller Road
Eden Prairie, Minnesota 55344
Phone: (952) 995-9300
USA Toll-free: 1-888-667-6648

Contact us in the EU:

ACIST Europe B.V.
Argonstraat 3
6422 PH Heerlen
The Netherlands
Phone: +31 45 750 7000

Contact us in Japan:

ACIST Japan Inc.
7F Dainippon-Tosho Otsuka
Bunkyo-Ku 112-0012
Phone: +81 369029520

Visit our website:

www.acist.com

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Kodama (SKU # 017788)	
Ultrasound energy	
Compatible with 0.014-inch (0.36 mm) guidewire	
Compatible with 6 Fr guiding catheter	
Radiopaque marker located 8 mm from distal tip	
Frequency	40/60 MHz
Usable length	142 cm
Length of hydrophilic coating (from distal tip)	~27.5 cm
Telescopic length	12 cm (120 mm)
Pullback length	12 cm (120 mm)
Maximum pullback speed	10 mm/s
Crossing profile	3.2 Fr
Proximal profile	3.6 Fr
Dead zone length (tip to transducer)	2 cm (20 mm)

PIM (SKU # 017989)	
Dimensions	Depth: 5.1 cm (51 mm), width: 20.3 cm (203 mm), height: 7.6 cm (76 mm)
Cable length	4.5 m (~15 ft)
Weight	2.2 lbs (1.0 kg), including cable

PIM: patient interface module

LTS (SKU # 017988)	
Dimensions	Depth: 8.9 cm (89 mm), width: 30.5 cm (305 mm), height: 11.4 cm (114 mm)
Cable length	4.5 m (~15 ft)
Weight	2.8 lbs (1.25 kg), including cable

LTS: linear translation system