

ACIST Pro™
Diagnostic System

Contrast management
for consistent clarity.



Clear images. Clear decisions.

33% faster setup than ACIST CVi®.

ACIST Pro™ setup is significantly faster compared to ACIST CVi®, thanks to a faster-filling syringe, new peri-pump design, flush bag, and user-friendly interface.

Workflow consistency and reduced learning curve.

The system provides step-by-step instructions with visual prompts throughout setup, injections and top troubleshooting scenarios.

On-screen troubleshooting.

Step-by-step guidance and visuals facilitate resolution of the most frequent troubleshooting scenarios, potentially reducing downtime.

Real-time contrast tracking.

Prominent contrast utilization display and customizable target limits simplify dose management in a busy cath lab.

Smart disposable detection.

ACIST Pro™ identifies the specific tubing installed on the system and streamlines setup by reducing purge times.



Simplified setup and workflow.



Improved flexibility and customization.



Continuous commitment to safety and value.

Consistently clear angiograms to support clear decisions.

The ACIST Pro™ Diagnostic System supports your pursuit of cath lab excellence, with key enhancements for clarity, safety and usability—enabling you to treat patients more efficiently, consistently and safely, across teams and labs.

Simplicity to boost efficiency.

ACIST Pro™ is designed to simplify and standardize workflow, supporting time savings before, during and after each case, even when cases and operators vary.

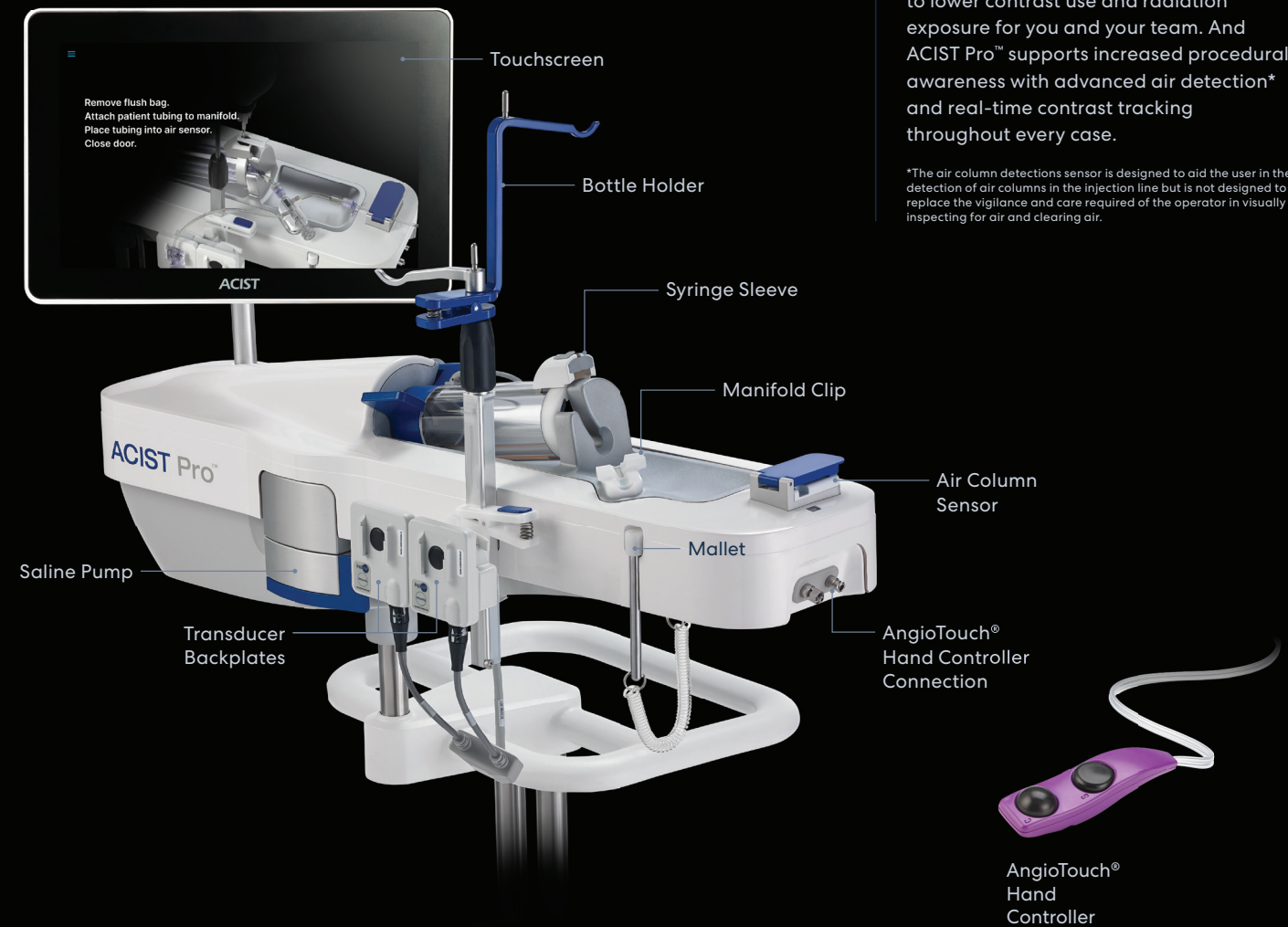
Clarity to support decisions.

Consistently clear images support confident decision-making throughout procedures. Through precise contrast delivery, ACIST Pro™ provides the clear visualization for every injection.

Safety features to mitigate risk.

Visual clarity may help reduce repeat injections during a case, contributing to lower contrast use and radiation exposure for you and your team. And ACIST Pro™ supports increased procedural awareness with advanced air detection* and real-time contrast tracking throughout every case.

*The air column detections sensor is designed to aid the user in the detection of air columns in the injection line but is not designed to replace the vigilance and care required of the operator in visually inspecting for air and clearing air.



Smart Detection Technology



Discover why ACIST Pro™ is your tech-forward solution for safe, efficient contrast delivery.

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Consistency + Flexibility + Customization

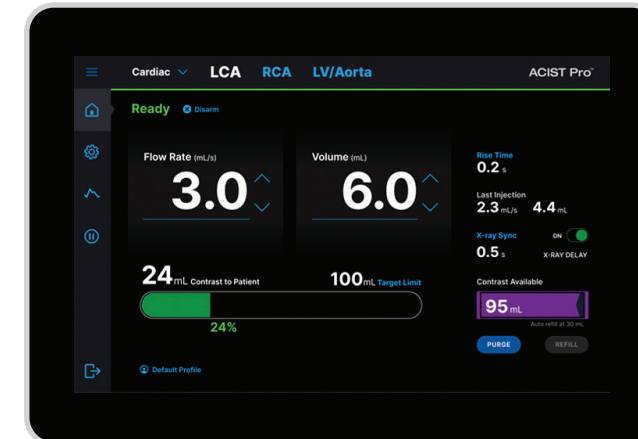
Flexible configurations.

ACIST Pro™ is designed for flexible lab integration, with multiple installation configurations, including:

- Injector height adjustment
- Touchscreen placement (on bedrail, on injector)
- Processing unit positioning (on floor, on bedrail)
- Multiple hand controller configurations (with optional **AngioTouch®** Module)
- System installation on cart

Standardization across operators.

The **AngioTouch®** Hand Controller standardizes variable rate injections through uniform hand controller calibration. This provides consistent contrast flow rate delivery across users.



Consistently controlled flow rates.

The next-generation design improves flow rate consistency during injections approaching the pressure limit. This reduces potential for failed image acquisition due to lack of contrast, resulting in consistently clear image acquisition.

Customized profiles.

Physicians or labs can customize presets for common procedures, streamlining image acquisition during procedures.



Streamlined design compared to ACIST CVi®.

22%

Smaller Footprint

A smaller footprint above the bedrail compared to ACIST CVi® increases visibility and improves integration flexibility.

34%

Lighter Weight

A lighter-weight system than ACIST CVi® and a thoughtful injector design support movement by most lab personnel and allow for additional technology on the rail.

Built with safety and efficiency in mind.

45 mL

Less Contrast

Save an average of 45 mL of contrast per case when the injector is used.¹

30%

CI-AKI Reduction

Reduce CI-AKI by up to 30% vs. manual contrast injection^{1,2} at an incremental cost of \$13,294–14,266.³

96%

Less Radiation

The **AngioTouch®** Module may reduce radiation exposure to the operator by up to 96%.^{4,4}

48%

Less Contrast

Reduce total contrast used per case by about 48% compared to manual injection (includes waste).^{5,5}



Automated

Automated air detection feature mitigates potential air injection during procedures.^{6,6}



Savings

Reduce contrast use, decrease setup time, and possibly shorten training time—and earn short- and long-term incremental cost savings.

Smart Detection
Technology



* Radiation reduction dependent on where the user stands and placement of the hand controller connection on the bedrail.
 ** Based on a single cardiac catheterization lab.
 *** The air column detection sensor is designed to aid the user in the detection of air columns in the injection line, but is not designed to replace the vigilance and care required of the operator in visually inspecting for air and clearing air.



Scan the code to experience ACIST Pro™, the ongoing evolution of contrast delivery through precision injection.

ACIST Pro™ Diagnostic System

Flow Rates

Contrast	User-Responsive, pre-set Variable and Fixed rates from 0.1 to 25 mL/sec, in 0.1 mL/sec increments			
Saline	Fixed rate: 1.6 mL/sec for a maximum time of 10s			
Volume	User-Responsive, pre-set limits with variable range of 0.1 to 95.0 mL, in 0.1 mL increments			
Syringe Pressure Limits	User Defined from 200 to 1200 psi in 50 psi increments			
Fill Rate	Manual or automatic refill at 4 mL/sec			
Rise Time	0.0 to 1.0 sec in 0.1 sec increments			
Program Routine Injection Groups (with specific injection types)	Cardiac: LCA, RCA, LV/Aorta Peripheral: Small, Medium, Large TAVR: Aorta, Iliac, Femoral User Defined			
Monitoring Sensors	Air Column Detect*, Auto-Manifold, Contrast Source Empty, Contrast Syringe Refill, Presence of Syringe, Presence of Saline Tubing, Patient Tubing Identification			
Imaging Interface Synchronization**	Able to synchronize with most brands of X-ray imaging equipment			
Injection Delay** or X-ray Delay**	0.0–99.9 sec			
Control Panel	12.3" width (31.3 cm), 8.5" height (21.6 cm) Color Touch Screen			
Flexible Mounting Configurations	Table Mount with stationary stem, Pedestal Cart, AngioTouch® Module			
Pedestal Cart Dimensions	Wheelbase footprint 26in x 22in (64,3cm x 55,1cm), Height (Lowered) 38in (96cm), Height (Raised) 44in (111cm)			
Contrast Syringe	95 mL			
External Connections	Hemodynamic Systems (IBP and Ao/ECG Signal), X-ray Systems			
Component Weights	Injector: 23.37 lb/10.6 kg	Processing Unit: 19.27 lbs/8.74 kg	Processing Unit Bed Mount: 3.69 lbs/1.67 kg	Injector Bed Mount - small: 3.85 lbs/1.75 kg
	Touchscreen: 7.74 lbs/3.51 kg	Display Bed Mount: 1.59 lbs/ 0.72 kg	AngioTouch Module: 2.75 lbs/1.25 kg	Injector Bed Mount - large: 4.29 lbs/ 1.95 kg
Power Requirements	Standard: 100 - 240 VAC, ~ 50 - 60 Hz, 10 A maximum			

Disposable Kit Configurations

Contrast Syringe***	Syringe with contrast spike, contrast tubing, a slide clamp and 5 disinfecting caps. For contrast agents with viscosity of 4.6–26.6 cP.
Contrast Syringe (low viscosity)	Syringe with contrast spike and contrast tubing. For contrast agents with viscosity of 1.0–15.0 cP.
AngioTouch® Hand Controller & Tubing	Hand controller, 165cm high-pressure tubing with RFID, 3-way high-pressure stopcock. Designed to facilitate high fidelity waveforms.
Auto-Manifold and Transducer	Integrated system with automated isolation-manifold, low-pressure tubing and saline spike, supplied pressure transducer cartridge and flush bag.

* The air column detections sensor is designed to aid the user in the detection of air columns in the injection line, but is not designed to replace the vigilance and care required of the operator in visually inspecting for air and clearing air.

** Available in Cardiac, Peripheral or User Created group.

*** Can be used in up to 5 consecutive cases.

1. Minsinger KD, Kassis HM, Block CA, Sidhu M, Brown JR (2014) Meta-analysis of the effect of automated contrast injection devices versus manual injection and contrast volume on risk of contrast-induced nephropathy. *Am J Cardiol* 113 (1): 49-53.
2. Call J, Sacrinty M, Applegate R, Little W, Santos R et al. (2006) Automated contrast injection in contemporary practice during cardiac catheterization and PCI: effects on contrast-induced nephropathy. *J Invasive Cardiol* 18 (10): 469-474.
3. Griffiths RI, Cavalcante R, McGovern AM, et al. Cost to Medicare of acute kidney injury in percutaneous coronary intervention. *Am Heart J*. 2023;262:20-28. doi:10.1016/j.hj.2023.03.013.
4. Wilson, Robert F., John P. Gainor, and Blair Allen. "The Effect of Stepping Back From the X-Ray Table on Operator Radiation Exposure." *Health Physics* 121.5 (2021): 522-530
5. Shokir MA, Garratt KN, Wimmer NJ. Impact of ACIST CVI contrast delivery system on iodinated contrast media administration and waste. *J Invasive Cardiol*. Published online May 24, 2024. doi:10.25270/jic/24.00150.

Rx Only

See the instructions for use for complete indications and safety information.



Important Safety Info: The ACIST Pro™ Diagnostic System is designed to be used by a physician to inject contrast media and saline during angiography. It should be used with appropriate radiographic imaging and blood pressure monitoring and electrocardiogram. Additionally, standard equipment for cardiopulmonary resuscitation and drugs for the treatment of contrast media-induced drug reactions should be available. The ACIST Pro system must be operated by or be under the immediate and direct supervision of a physician trained in angiography and the operation of this unit. For maximum safety, use only material provided by ACIST Medical Systems in conjunction with ACIST Pro. Please refer to the Instructions for Use for more important safety information. Contamination of patient kits or the contrast container septum poses a risk of serious patient injury due to infection. If suspected contamination has occurred, replace the affected item.

An air embolism can cause patient injury or death. **The operator must take care and follow a defined procedure consistent with the ACIST Pro Instructions for Use; this is essential to avoid injecting air and causing an embolism.** Before injections, clear all air from the entire patient kit and the angiographic catheter. **It is necessary to reference the ACIST Pro Instructions for Use to review all important safety information relating to the device, and particularly to the prevention of air embolisms, as the ACIST Pro's sensor systems are not designed to replace the vigilance and care required of the operator in preventing such events.**

Use extreme care when setting the flow rate. High flow rate injections can cause patient injury or death. **When high flow rate injection is required, select a pressure setting that does not exceed the catheter's pressure rating.** The maximum pressure rating of the ACIST Pro system is 1200 psi.

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