

The Base s5i System

To facilitate the decision to incorporate IVUS into your interventional lab, Volcano has created the Base s5i System that contains the core products required to operate IVUS and view IVUS results.

- One (1) Volcano IVUS CPU
- One (1) Volcano IVUS table-top control panel
- One (1) Volcano IVUS PIM for use with Volcano IVUS phased-array catheters
- One (1) 19" LCD monitor for the control room
- One (1) Cabling Bundle for installation
- One (1) Bedside touchpad controller

Optional Functionality and Accessories

You can order your s5i to come pre-loaded with VH™ IVUS. With VH™ IVUS, you get additional features including:

- Detailed plaque characterization during procedure
- Automatic border contours
- Automated lumen & vessel measurements

Additional accessories can be ordered to further customize the s5i for your lab, including:

- Control devices for use inside the sterile field
- Mounting brackets
- Color printer

s5i Specifications

	HEIGHT		WIDTH		DEPTH		WEIGHT	
	inches	cm	inches	cm	inches	cm	lbs	kg
CPU	16.5	39.6	6.75	16.2	21.25	51.0	~35	~15.0
Controller	5.0	12.0	15.0	36.0	10.0	24.0	~6.6	~3.0
Monitor	17.5	42.0	16.0	40.6	9.7	24.7	~20.0	~9.0
PIM	1.6	3.8	4.0	9.6	7.4	17.75	~4.4	~2.0

Power Requirements

Systems Input	- 100V, 50/60Hz - 120V, 50/60Hz - 220-240V, 50/60Hz - Maximum rated power 600W
Computer Workstation	- 100-240V, 50/60Hz, 250VA - Nominal power 250W
Monitor	- 100-240V, 50/60Hz, 250VA - Nominal power 64W
Isolation Transformer	Medical grade; 4KV dielectric withstand; 6 IEC 320 C14 isolated AC power outlets 2 IEC 320 C13 isolated AC power input.

Processing and Data Storage

Data Storage	- Internal hard drive
Formats Supported	- Built-in DVD-R
Maximum Cases Saved to Hard Drive	20
Internal Hard Drive Size	2x 250 GB
System Specification	Dual Intel® XEON® 2.8GHz processors
Operating System	Windows® XP Professional



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Volcano s5i IVUS

I M A G I N G S Y S T E M



Integrating IVUS into the Interventional Lab

The Volcano s5i IVUS Imaging System uses a series of coordinated components to allow for a customized incorporation of IVUS into the interventional lab.



Benefits of the s5i

- With the s5i, IVUS is always on and always ready.
- Allows more patients to benefit from IVUS based technologies.
- Component-based system accommodates a number of different configurations.
- No need to transport a console from lab to lab.
- PC-based system enables remote operation, multiple control devices, and custom viewing options.

PC-based System Allows Simple, Flexible Integration into New or Existing Interventional Labs

In many interventional labs, space is a premium and busy labs need technologies that do not impede the traffic patterns or the procedural workflow of the lab. The versatility of the CPU, the nucleus of the s5i, allows for placement in the control room or other remote locations. Components that connect to the CPU have been designed with 100 foot (~30 meter) cables to accommodate a variety of placement locations.

View IVUS Images from Multiple Monitors

The flexibility of the s5i allows for IVUS images to be viewed simultaneously from multiple vantage points in the lab. The image can be directed to an existing monitor on the boom in the patient room and / or to a dedicated monitor in the control room.

Simple Bedside Controllers and Patient Interface Modules for Physician Control

The s5i allows for multiple user interfaces, providing control of the IVUS system from both the convenience of the sterile field and the safety of the control room. Choices include a compact fully functional bedside touchpad controller, allowing easy use by the physician.

Additionally, with the patient interface module (PIM) hanging from the patient table, a physician can now call for an IVUS catheter, plug it in, and begin imaging immediately.

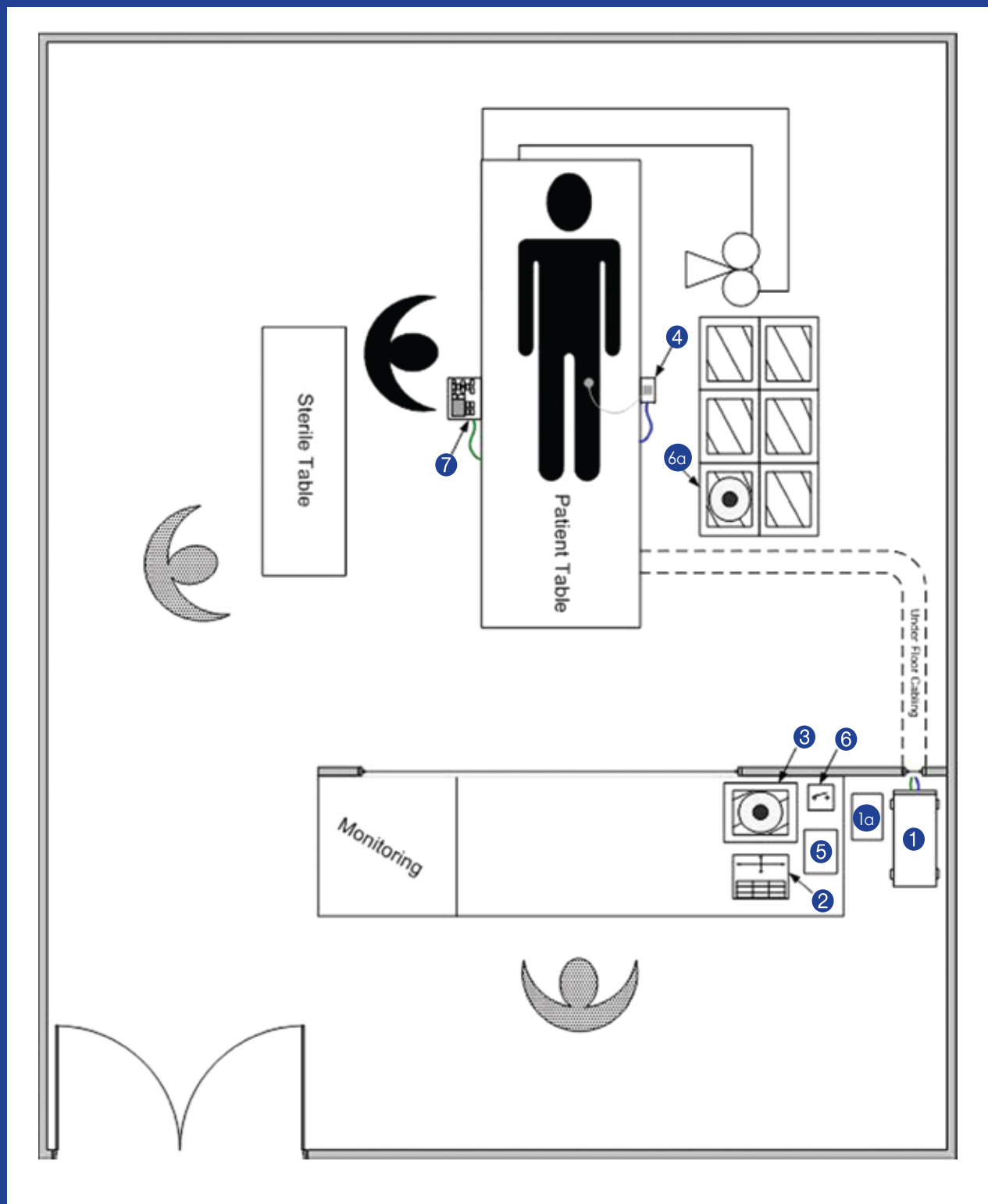
DICOM Connectivity to Facilitate Archiving

DICOM connectivity is standard on the s5i, enabling communication to a network or archiving station via a standard Ethernet cable. This makes data storage and case review more accessible. When a case is saved to a DVD, a DICOM viewer is automatically embedded allowing for remote case review and incorporation of IVUS images into a presentation slide.

Why Use Volcano IVUS?

- Plug and play phased array catheter; no flushing required.
- With IVUS incorporated into the lab, IVUS is always there and always on.
- Volcano IVUS provides:
 - A precise tomographic assessment of lumen area
 - Accurate measurement of the degree of stenosis
 - Demonstration of the extent of positive vessel remodeling
 - Determination of plaque volume & composition with VH™ IVUS
 - Ability to identify anatomical landmarks
 - Ability to visualize dissections or tears in the vessel wall
 - Determination of lesion or vessel length to assist in device sizing and selection
 - New insights into the visualization and measurement of vascular disease
 - Assistance in determining lesion or vessel length to assist

s5i Typical Lab Configuration



1. IVUS CPU
- 1a. Isolation Transformer (comes with CPU)
2. IVUS Control Station
3. IVUS Dedicated Monitor
4. IVUS PIM (Patient Interface Module)
5. Optional IVUS Printer
6. Optional IVUS Video Switch
- 6a. Existing Monitor with IVUS
7. Bedside Touchpad Controller