

20 REASONS: **Why NuBOOM®**





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If MIS procedures generate so much profit, why don't all operating rooms have the latest in equipment management, visualization, and comfortable ergonomics?

Could fresh thinking (innovation) in the renovation and equipage of the MIS operating room result in a wider, faster dispersion of technological improvements? The slow dispersion rate of new technology suggests there is a need for a new way of thinking.

The NuBOOM[®] is a departure from three decades of thinking that has escalated complexity and cost when optimizing ORs for MIS procedures. This document is intended to illustrate a new way of thinking that provides safety, and usability benefits to the OR staff while proving an accretive financial benefit.

1 | If you have a procedure room with fixed equipment, it isn't as flexible as a modern hybrid OR. If you have an older general surgery room, it likely doesn't have the visualization capabilities of a modern MIS hybrid OR. If you have a modern MIS suite, you probably spent a lot of time and money to obtain it. There is an alternative. NuBOOM is the world's first all-in-one equipment management, visualization, and ergonomic boom system. NuBOOM addresses three problems:

1. Organizes and makes space for MIS equipment, removing cords from the floor that pose trip hazards;
2. Displays medical images from surgical cameras and sources like PACS;
3. Suspends HD monitors in locations that are comfortable for extended viewing, helping to eliminate surgeon fatigue and posture related discomfort.

The NuBOOM increases your surgery scheduling flexibility because it has all the capabilities of a modern hybrid MIS suite - at a fraction of the downtime, disruption, and cost of installing ceiling suspended booms.



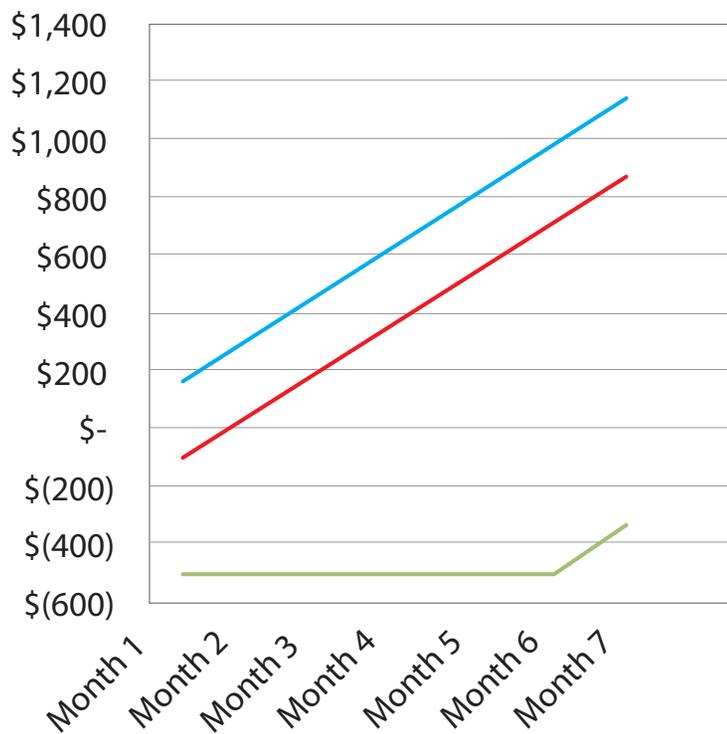
200+ installed locations shown. These hospitals have discovered how the NuBOOM investment improved their scheduling flexibility, ergonomics, safety, and reduces clutter.

- 2 | Time to profit is accelerated. Eliminates protracted and costly architectural and engineering consulting from the upgrade process. Time to revenue is incredibly important when calculating bottom line performance for your institution.

Profitable Advantage

Your PL = TR - TC

Thousands



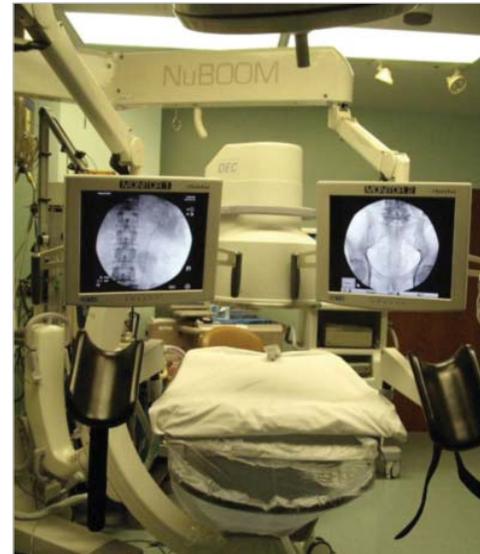
- NuBOOM 2 Day Installation
- Minor Room Renovation without NuBOOM (1 Month) \$100K CAPEX
- Major Room Renovation without NuBOOM (6 Months) \$500K CAPEX

Based on 22 Eight Hour Work Days a Month;
\$1K/hr Net Income

- 3 | The NuBOOM delivers excellent image quality in the exact spots that are the most comfortable for the surgeon to view.



Neurology Room Upgrade



Urology - Cysto Room Upgrade

The monitor positioning capability of the NuBOOM accommodates the positioning of the C-Arm while providing comfortable viewing for a urology procedure.

Urology - Cysto Room Upgrade.

NuBOOM's ergonomic advantages are validated by surgeons, such as this quote from Dr. Michael Conlin, MD FACS "It's wonderful. It is easy to use, the screens are easy to move, the image is good, and I'm in heaven. I did 2 percs on Thursday and my neck doesn't hurt at all."

- 4 | The NuBOOM removes clutter and cable trip hazards from floor. NuBOOM occupies less space than the multiple carts used to support MIS surgery, while providing vastly better ergonomic and visualization capability.



The NuBOOM enables you to make smaller ORs feel larger by consolidating multiple equipment carts onto the convenient shelving on the NuBOOM. In the OR where this picture was taken, the NuBOOM eliminated 5 carts worth of equipment (one video tower, two display pole carts, a light source cart, and a cart holding an electro-surgery generator, suction, and other instruments.)

- 5 | The ceiling does not need to be reinforced. Eliminating ceiling reinforcement reduces construction noise, asbestos abatement, dust and bacteria containment.



Ceiling booms require expensive ceiling reinforcement.



“NuBOOM’s simple, clean, quick floor mounting.”

- 6 | The NuBOOM occupies no more space than ceiling-affixed equipment management booms, but offers more viewing and access coverage than ceiling mounted booms at a lower installed cost.



Ceiling Suspended Equipment Manager is large/sub-optimal viewing ergonomics.



NuBOOM stores and organizes surgical equipment, reducing clutter.



The Latest NuBOOM Innovation:
U-Series NuBOOM has rotating external shelves that add flexibility to the room layout.

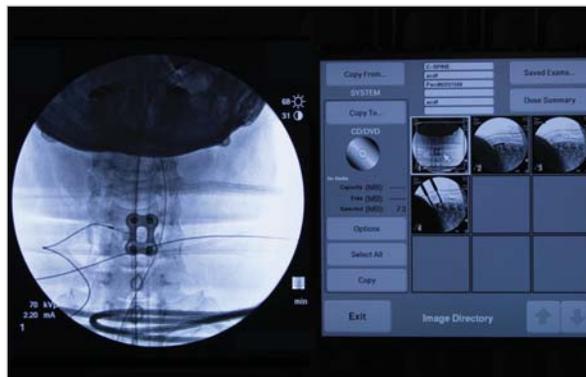
The upper left picture demonstrates that a traditional ceiling mounted equipment management boom, with its shelves of equipment, occupies similar spatial volume next to the OR table as the NuBOOM. Because other room considerations impact the location of an equipment boom (anesthesia service column, doorways, and sterile table area), ceiling mounted equipment managers are seldom, if ever, repositioned. From a CAPEX or construction downtime rationale, compared to the NuBOOM alternative, updating an OR with ceiling-suspended equipment booms and visualization systems is more expensive.

- 7 | The NuBOOM provides clinical benefit by delivering up to (4) 24" or 26" LCD displays for viewing from overhead booms.



With up to 4 monitors, visualization is comfortably placed and readily available for surgeons and assistants.

- 8 | The NuBOOM's split screen capability can present images side by side, such as fluoroscope and endoscope, providing convenient viewing for procedures that rely on multiple imaging modalities.



Right/left fluoro images shown on one screen.

- 9 | Information from multiple cameras, laptops, physiological monitoring, PACS, and imaging modalities can be viewed simultaneously through DVI-D, HD-SDI, VGA, S-Video, composite on any NuBOOM monitor.



Simple, clean touchscreen interface. Monitors, selected from the left-most column, are fed from the image sources displayed.

- 10 | An intuitive touchscreen interface controls the visualization system. The touchscreen can be mounted on the side of the NuBOOM or remotely.



A DOCS® touchscreen interface for the M2 is shown, remotely mounted at the circulator's desk, and near their HIS terminal. This option is available for those that do not desire to have the DOCS touchscreen monitor mounted in the standard configuration on the side of the NuBOOM cabinet.

11 | The NuBOOM high definition signal routing capability presents information as the camera/imaging modality captures it. No modification of the source image is required to distribute images to boom mounted monitors (WYSIWYG).

12 | **Remote, Wall Mounted C-Arm Input Options.**

When we install a NuBOOM, it is possible to have remote video inputs placed on the OR walls. This is a space saver that helps to prevent trip hazards caused by cables on the floor near the OR table. The C-Arm control console can be located away from the surgical table, removing a major obstruction and making it possible to view the images on the NuBOOMs from more ergonomically located monitors.



Remote inputs help improve your workspace in two ways:

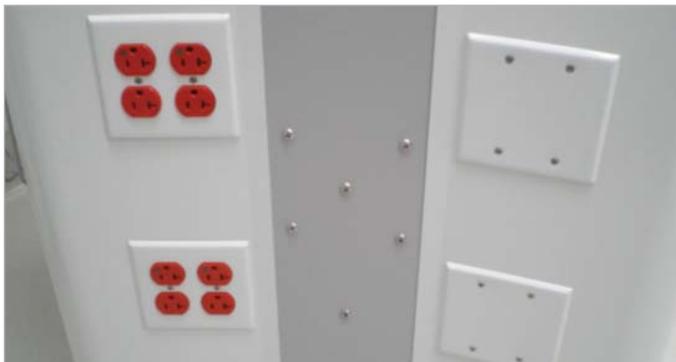
- 1. Create more space adjacent to the table because the console doesn't have to be next to the C-Arm*
- 2. Removes cords from the floor around the surgical table.*

- 13** | Works with your existing OR light system; or purchase a new LED luminaire system from us.



NuBOOM does not require relocation of surgical lights.

- 14** | NuBOOM is plentifully populated with electrical outlets. The NuBOOM M4/M2 can be field wired with up to 32 receptacles by your hospital's electrician. The NuBOOM M4u is delivered factory pre-wired with 20 receptacles (either North American 20A style or IEC connectors for other regions).



M4/M2 External Receptacles

- 15** | The NuBOOM is supplied with mounting points for in-the-field customer accessorization.



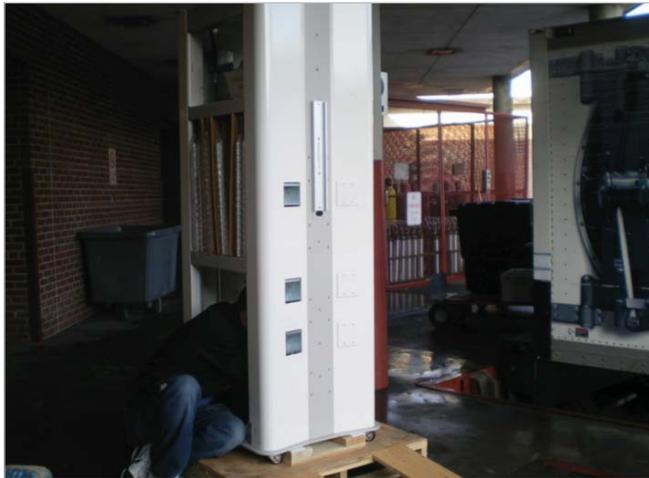
- 16** | Fully upgradable and movable as the hospital grows or remodels.

The NuBOOM is a piece of moveable furniture. It can be easily unbolted from the floor, transported, and reinstalled in about a day for the cost of technician labor. (No CAPEX required). This means you can install the system today and relocate it as your department changes its floor plan. Unlike the sunk cost of reinforcing a ceiling, suspending booms, and installing a built-in visualization system, the NuBOOM provides you with an asset that can be used immediately, yet allows you flexibility to grow and adapt without asking for more capital funds.



17 | 2 Day Installation. Weekend Installation Available

The NuBOOM is the fastest way to upgrade an OR with overhead monitors, MIS equipment shelving, and a MIS visualization system. Unlike renovation methods that require elaborate planning and invasive remodeling, the NuBOOM is a modular product that shows up on the loading dock ready to be installed in two days.



This NuBOOM has just been delivered to a hospital loading dock and is being unbolted from its pallet. After the protective sides were removed from the pallet, cleverly designed ramps that are part of the packaging were installed and the NuBOOM was rolled off its shipment pallet to the operating room. Once there, the Perfect Placement procedure locates the NuBOOM in the optimal location, the wheels are removed, and the installation begins.

18 | Seismic Certification

Seismically certified NuBOOM allows consulting and specifying engineers to meet the strictest seismic building codes, quickly and easily, without the delays of additional certification testing. The NuBOOM is pre-approved for California Office of Statewide Health Planning and Development (OSHPD) special seismic certification.

19 | **Made in Oregon. Safety Tested. 24/7 International Support.**

The NuBOOM is certified by a nationally recognized testing laboratory to meet your regulatory requirements. CompView and our distribution partners have trained technicians ready to assist should you encounter a need for post-installation service.

20 | A prudent, accretive way to make an instant change in your OR's working conditions. 36 hours after being unloaded at a Maryland hospital, this OR was upgraded with a NuBOOM M2 and was ready to be put in use. The cabinet shelves will be loaded with 2 carts worth of MIS equipment. Images from the C-Arm can now be displayed on the two overhead monitors, enabling the C-Arm control console to be located in a back corner of the room and out of the working space of the surgical team. The cords from the C-Arm and the MIS carts were removed from this ORs floor, eliminating trip hazards.

This NuBOOM room can now be used for a wider variety of MIS procedures, providing greater scheduling flexibility for the institution.



Room #1 Before: *Crowded with poles, carts and the C-Arm console.*



Room #1 After: *Clutter is removed. The C-Arm is now located in a remote corner with connectivity through the remote OEC connector panel. DOCS displays C-Arm images on the overhead monitors.*

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