

ilex[®]

Mobile Video Integration Systems

SEE WHAT YOU'VE BEEN MISSING!



INTELLIGENT DESIGN ► TANGIBLE OUTCOMES

“The ilex changed my interventional strategy”

Vascular Surgeon, South Carolina

idi
imagediagnostics.com

ilex Mobile Integration

The ideal display solution - Vascular, GI, Spine, Trauma & Hybrid Overflow

Today's Imaging and Surgical Directors are constantly being challenged to provide more services with less investment. These challenges are further complicated by the growth and convergence of diagnostic devices within the OR and imaging suites. The OR has become a forest of visualization; Camera Systems, X-ray, Ultrasound, Hemodynamics etc. Virtually all these products include their own monitor or display systems.

A room full of monitors takes up more than space

How does a doctor navigate between multiple displays each with critical diagnostic data? The obvious solution is to take all those display outputs and integrate them into a single large field display solution – a 55" or even a 58" monitor. This approach is commonly referred to as an "integrated OR". Similar technology is used in IR/Cardiac Cath suites. The technology is expensive, time consuming to install and represents a discrete single room solution.



ilex with 55" monitor

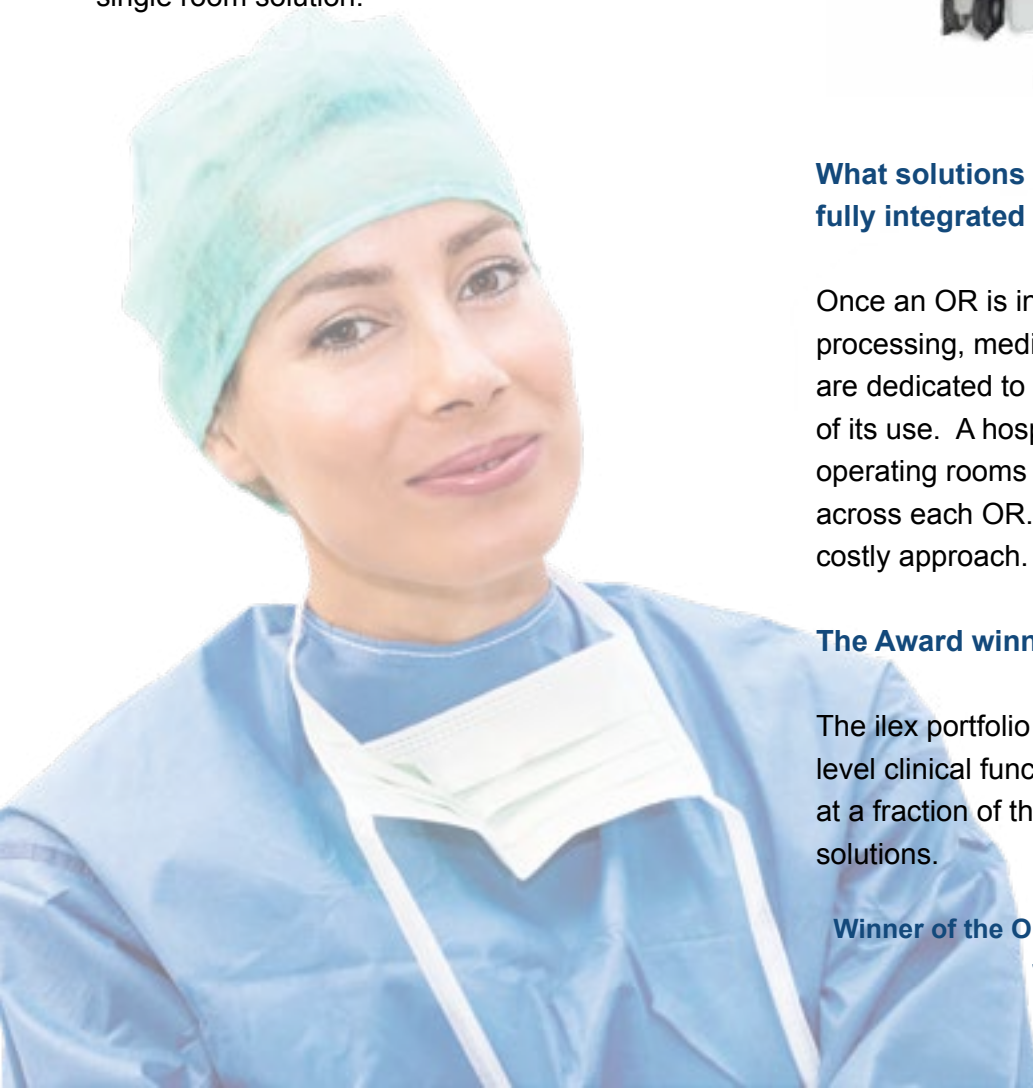
What solutions exist outside of the investment in a fully integrated OR with fixed room video integration?

Once an OR is integrated the investment in video processing, medical grade displays and control systems are dedicated to that room and that room alone regardless of its use. A hospital or imaging center with ten operating rooms would have to replicate this integration across each OR. Fortunately there is an alternative to that costly approach.

The Award winning ilex mobile integration platform

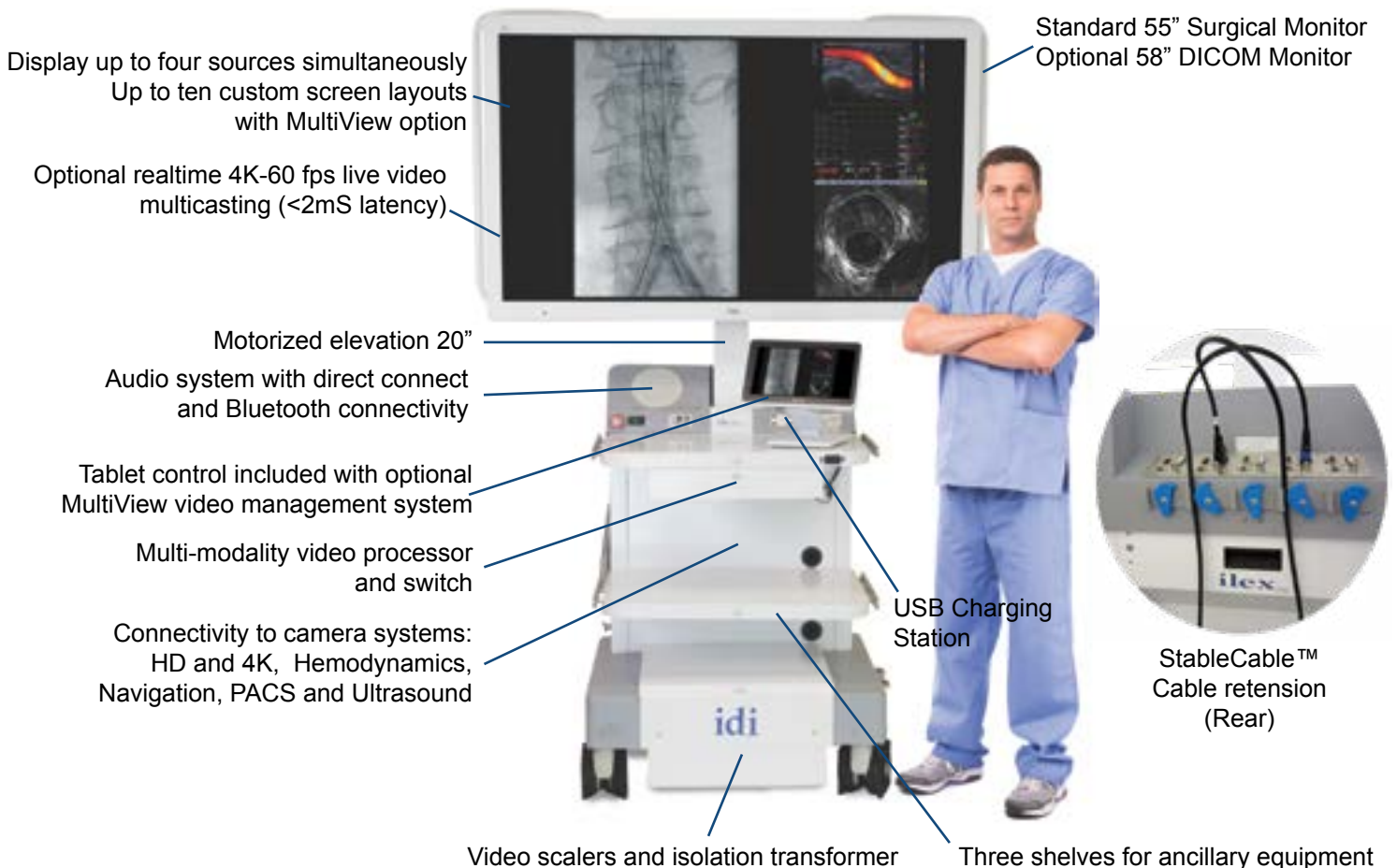
The ilex portfolio of mobile imaging systems delivers high level clinical functionality wherever and whenever needed at a fraction of the cost of classic fixed integration solutions.

Winner of the OR Visualization Product of the Year Award
Surgical Products Magazine



A solution that is greater than the sum of its components

ilex visualization systems are much more than simply monitors on a mobile stand. Each ilex includes the complex electronics associated with fixed room integration solutions for scaling, conversion and switching within our mobile chassis. The ilex system will also convert, correctly scale and display legacy sources from commonly found analog video output devices (Hemodynamic and IVUS). Each version of the ilex can simultaneously display up to four sources within UHD 4K layouts.



Benefits you can see

- Increased image size may reduce the need for magnification during fluoroscopy; more detail without the dose.
- Enhanced detail may also reduce the amount of contrast required.
- Stent wire size and detail is improved without pixilation.
- Presentation of standard HD images on a 4K large field monitor can improve detail; the size of stent wires and other small wire instruments.
- Physician fatigue is reduced with multi-modality images consolidated onto one display that is easily positioned around the operative site.
- Multi-modality images require different levels of display optimization for color, contrast and brightness. Multiview equipped ilex systems provide image optimization for each individual source.
- Work flow around the table is enhanced as the individual modality devices don't have to managed close to the operative site.

"I don't need to mag as much with the size of these images"

Vascular Surgeon, Georgia

ilex Options

Take imaging control to the next level



Add the MultiView Video management system with Tablet Control to your ilex

The addition of the optional MultiView system allows full image mapping of the monitor face. Individual sources can be optimized and displayed with color correction, adjustments to contrast, brightness and dynamic image cropping.

- Simultaneous display of up to four user-definable windows
- Variable image location within the customer defined layout
- Maximizes the available image size
- Touch Screen control of inputs sources and layouts
- Up to eight custom layouts with image presets
- Intuitive color-coded screen layout and source selection
- Tablet PC can be mounted on ilex base or table side

Want more space?

Add a 58" DICOM Mode Monitor to your MultiView control System



Raise the bar - ilex with Multiview + 58" DICOM Monitor

Move up to a 58" DICOM ready monitor with backlight stabilization and calibration technology that maintains superior image quality and brightness for an extended monitor life.

Enjoy improved visualization with an expansive contrast ratio (4000:1) and a dramatically brighter monitor (700 cd/m2).

See the difference: multi-modality images with DICOM mode - IVUS, fluoro and hemodynamics images can be simultaneously displayed on one large display featuring an 11% larger image area.

Off axis viewing is also enhanced with a 176 degree viewing angle



ilex + C-Arm + Table = A Complete Mobile Suite

“Enjoy fixed lab capabilities and performance without a seven figure price tag”

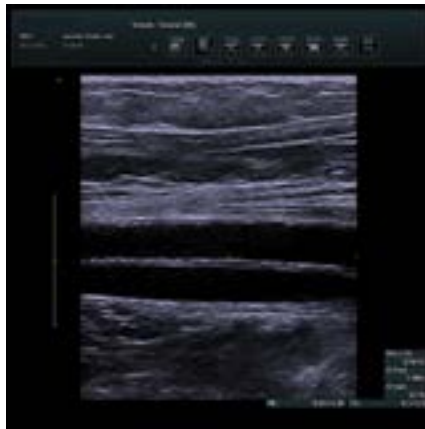
ilex with MultiView tablet control
and 58" monitor + ISR table

ilex with MultiView includes advanced image processing

Optimizes image display area

Why should dynamic cropping of source inputs and region of interest scaling matter to me?

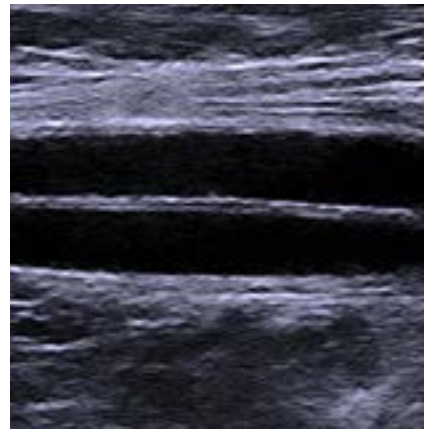
Monitor display space is “valuable real estate”; even on a 58” monitor, image size is limited. If information is centered within a source, ideally you would want to fit the image into a square image space. A 4:3 or a 16:9 format input will not fit within a square window without compromising the 1:1 scaling of that input; circles become ovals and the correct anatomical presentation is compromised.



Standard U/S image display

How will this feature help me better visualize diagnostic data?

To obtain the largest possible images within each window, sidebar black fields or even sidebar data fields can be cropped away to allow each image to fill the vertical space. There is no stretching or scaling beyond a 1:1 ratio that would compromise anatomical presentation. Each image is presented and scaled correctly. Display management of video space is a bit like solving a puzzle - the pieces fit - how large the images will ultimately appear depends on the format and organization of those images around the monitor face.






Cropped and enhanced MultiView image display

How will this feature impact the presentation of video inputs on my monitor?

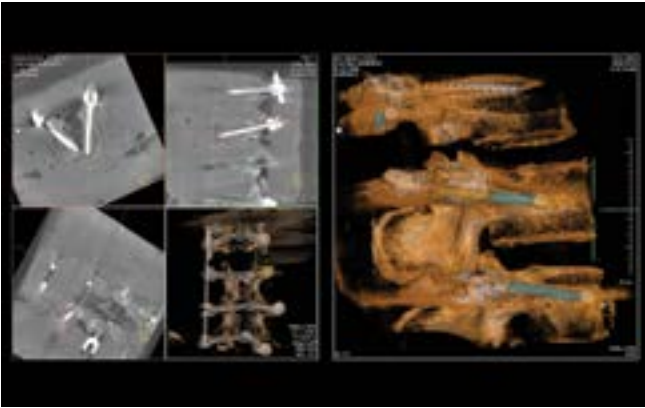
The ilex MultiView includes a powerful image processor that allows images to be placed on the monitor display field in an optimized form regardless of aspect ratio or location of images within the source. The MultiView will be configured to display each input at the correct aspect ratio. If a 4:3 or 16:9 video input has information from border to border; that information will be displayed at the input aspect ratio. What if a source input only has useful video information centered within the 4:3 or 16:9 format with black bars on each side?

Side-by-side ilex system comparison

				
Features	ilex 55"	ilex 55" with MultiView	ilex 58" with Multiview	Benefit
Suggested clinical application	Vascular, Ortho, Trauma, Spine, GI, Urology, OBL	Vascular, GI, Spine Cardiac Specials, Hybrid overflow	IR, Cardio, Hybrid, Spine	The ilex feature sets fit a wide range of clinical applications, allowing the user to select the system that fits their needs
Analog input for legacy video sources	✓	✓	✓	Seamless projection of multi-modality sources with included scalers and converters
Input image size and location	Fixed Size and Location	Customizable size and location	Customizable size and location	Primary image size can be maximized to fill vertical space. Source locations within a layout may be adjusted during procedures and from procedure to procedure
Image correction and optimization by Source	No By monitor only	✓	✓	Most integration systems optimize Image IQ via the source or monitor. MultiView technology optimizes image IQ, location and size for each individual source
Customizable presets	Single Side by Side 1x2 Over Quad	Single Side by Side 1x2 Over 1x3 Over Quad 3 Customized layouts Each layout can be optimized during IDI install	Single Side by Side 1x2 Over 1x3 Over Quad 3 Customized layouts Each layout can be optimized during IDI install	MultiView technology customizes image layouts by procedure or preference and can be stored and retrieved as a preset
Monitor layout options	Fixed at 4	Variable	Variable	MultiView systems have more layout configurations and are customizable
Dynamic cropping & region of interest scaling	No	✓	✓	Image cropping optimizes display area – eliminates black side bars/crop side bar data fields
User control interface	Handheld remote	Touch screen tablet control with up to 8 presets	Touch screen tablet control with up to 8 presets	MultiView technology provides significantly more layout /location flexibility and a higher level of image IQ
DICOM ready monitor	No	No	✓	4000:1 contrast ratio, high bright monitor with back light stabilization and calibration. Suitable for challenging cardio and interventional procedures

If you have a source, ilex has a display solution

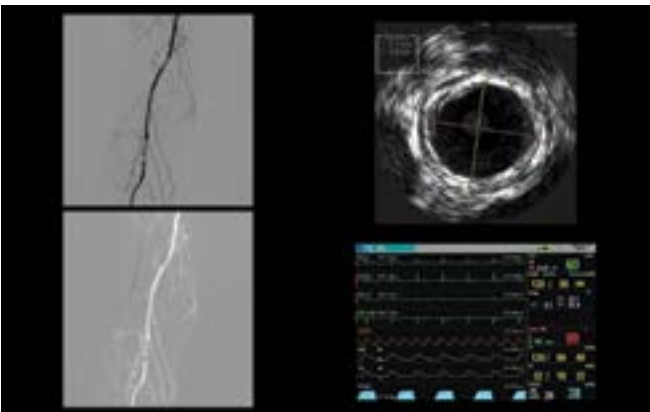
ilex standard display options



50/50 split

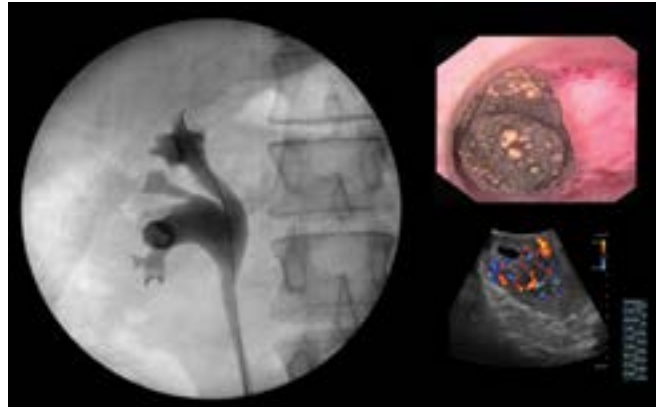


Fixed locations and areas



Fixed locations and areas

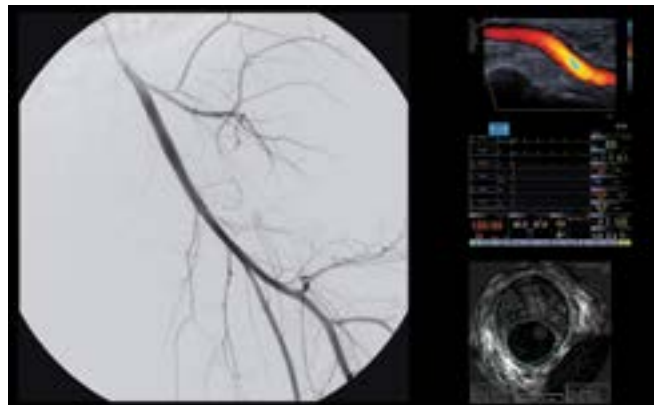
ilex with MultiView Complete customization of layouts and variable source locations



Maximized primary image



Variable window sizes

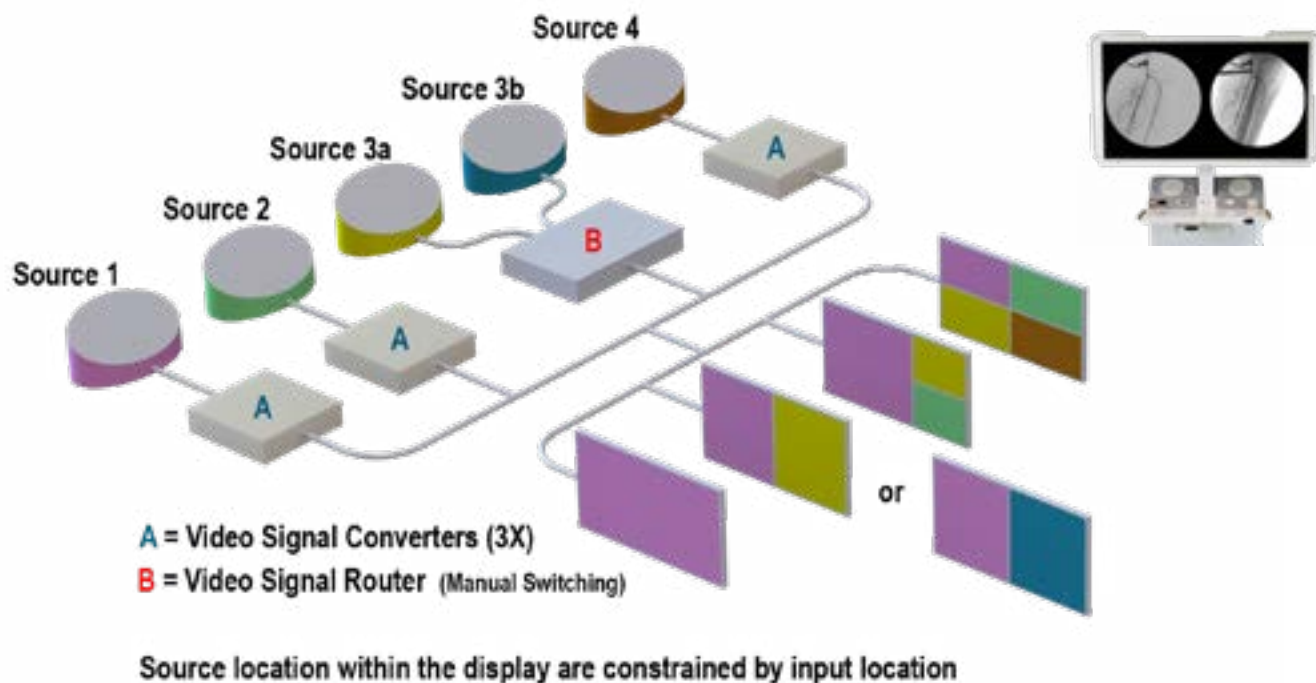


Variable source locations by procedure need

Combined with a C-Arm and an imaging table, the ilex systems create a state-of-the art mobile diagnostic suite that will meet the needs for both interventional procedures in hospital and office-based labs.

The ilex system with MultiView Technology provides Hybrid room video management performance at a fraction of the typical cost

ilex input sources and monitor display options



ilex with MultiView input sources and monitor display options

