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cyviz

Command and Control: Supreme Situational Awareness

Complete Visual Display Solutions – All From One Manufacturer

With nearly 20 years experience, Cyviz offers robust command and control solutions ideal for use in secure, mission-critical environments such as

- Joint Operations Centers (JOCs)
- Air Operations Centers (AOCs)
- Tactical Operations Centers (TOCs)
- Cyber Security Operations Centers (CSOCs)
- Emergency Operations Centers (EOCs)
- Network Operations Centers (NOCs)

Each Cyviz system comprises a display wall, video processor and our unique system controller, and each is built around three fundamental elements:

- Complete standardization through a Common Operating Environment
- Easy scalability for maximum flexibility
- Reassuring simplicity in deployment, use and continuing operation

Cyviz is able to deliver these features through a consistent system architecture, which includes components designed for a 24/7 environment. With around-the-clock support, command and control solutions from Cyviz allow you to spend your time and energy accomplishing your mission instead of trying to stay operational.

A trusted company across key market segments—including the Federal government, Federal System Integrators, energy, medical, financial and manufacturing—Cyviz creates solutions that enable better decision-making and more powerful situational awareness.

Cyviz Knows Multi-level Security

The Cyviz team and our certified partners have extensive experience in the design, installation, deployment and continuing operation of Cyviz solutions within secure environments.

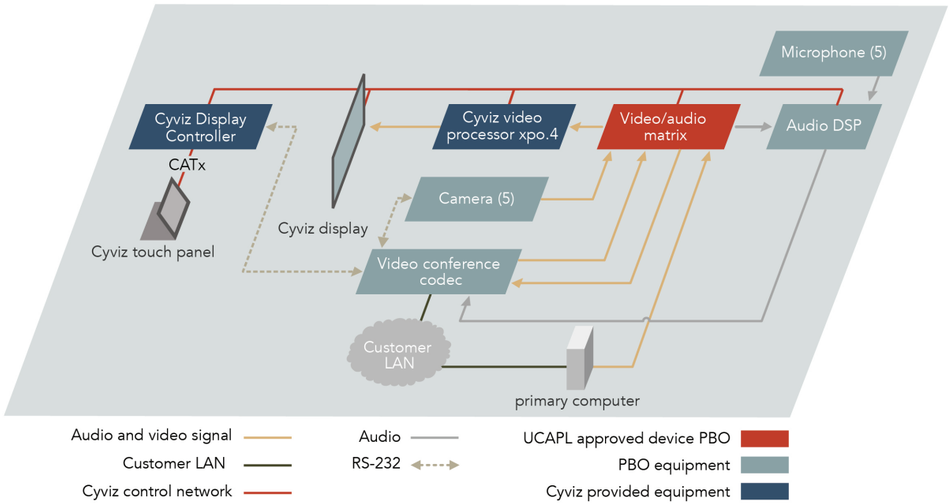
Our US-based technical staff carries the highest security clearances, which, together with our partners, offers the skills needed to successfully implement and support your mission-critical systems.

Our system architecture supports both DVI- and IP-based distribution of high-resolution video signals. Switching of multiple sources is done in a secure and certified fiber-based matrix. Processing of video is 100% DVI based.

We comply with the "one-way-only" distribution and processing requirement found in environments with multiple security levels. Content from one security level cannot be accessed from sources on a lower security level. We do this by building a self-contained video distribution, switching and processing system in your SCIF—Special Compartmented Intelligence Facility—or other restricted area. Computer sources from different networks and security classifications (like NIPR, SIPR, and JWICS) can be securely connected to the system so content from multiple sources can be combined into an optimal representation of mission-critical information.

Our system design principle embraces simplicity to achieve operational excellence and transparency when it comes to security auditing and compliance verification.

(For more information on how Cyviz deploys in a multi-level security environment, request our Cyber Security White Paper.)



U.S. Army Photo/Staff Sgt. Jim Greenhill

Pixel-for-Pixel Supremacy

In an operation center, an abundance of projectors, flat panels, or cubes means many pixels, which are often not utilized in native resolution. This abundance of pixels, coupled with computer sources producing video with increased resolution, presents an opportunity.

Cyviz maximizes this opportunity by allowing you to display terrain data, video data and other high-resolution imagery on walls up to 20, 40 or even 65 megapixels from Windows or Linux desktop workstations.

With our unique scaling technology, computer sources can be 'up-scaled' in 1:4 and 1:9 ratios, allowing you to display high resolution content on megapixel display walls with pixel sizes that can be properly seen by all operators in your center. These up-scaled desktops are ideal for business applications (presentations and spreadsheets) and video conferencing.

Through the Cyviz Display Controller, Picture in Picture (PiP) windows can be scaled to the size of your entire wall or they can be moved dynamically across the wall in real time. Adding, removing, moving and resizing PiPs are done via a multi-touch control interface. The system architecture ensures a responsive, fluent and seamless operation.

The operations center watch officer, operator or manager—in your JOC, CSOC, or NOC, for example—can also dynamically share up to 2xHD feeds, equivalent to 4 megapixels, of display wall content with other locations. This is possible due to the unique Cyviz Display Sharing capability. Content can be shared by using secure video conferencing or other types of accepted distribution.

All Cyviz systems feature consistent color balancing, and, in the case of projectors, expert pixel blending for a world-class seamless display surface.

Find the Best Fit for Your Facility

Cyviz video displays can literally fit any space with three types of technology from our robust product portfolio: projectors, flat panels or LED cubes. We fulfill your visual requirements first and then match these to our video processor and video display controller for a complete visual display solution.

The F- and R-Series
Complete with Cyviz Firmware and our patented color wheels, Cyviz projectors have dual-lamps and are single-chip DLP for 24/7 operation. Our F-Series is a front-projected solution built to fit any facility. The rear-projected R-Series boasts the highest image resolution and delivers the best ergonomic experience. Cyviz rear-projected, rotated (Rx) solutions will yield a rear projection space equal to the required screen height. This is a perfect solution when you are ready to upgrade your command and control environment to a single seamless display. All projectors utilize Cyviz pixel-perfect blending for seamless alignment and expert color matching.

The P-Series
The Cyviz flat panel P-series is LCD technology with an LED backlit display. Easily installed, maintained—and scalable—and with very thin bezels, the P-Series allows a clear focus on brilliant imagery, regardless of wall size. Our panel displays can present almost every type of content: multiple simultaneous videoconference feeds, data visualizations, network broadcasts, CCTV and media content, presentations, web sites and more. The video panels also feature Planar ESO technology, an optically-bonded glass front for increased ruggedness and optical performance. The P-Series is ideal for environments with minimal space and where continuous operation is required.

U.S. Air Force Photo/Tech. Sgt. Paul R. Evans

The C-Series
Where consumables are an issue and continuous operation is required, consider the Cyviz C-Series—an LED, cube-based technology video display. This is an excellent choice for those environments that require a display solution with the thinnest bezels (less than 0.8mm) while maintaining a glass display surface. Each cube uses a high performance LED light source, so there are no color wheels or bulbs. They are designed for mission-critical rooms with a high level of redundancy; this includes the individual LEDs, and also the LEDs' power supplies and even inputs.

The Cyviz Display Controller
Whether projection-, panel-, or cube-based, the key to all of our multi-purpose systems is the Cyviz Display Controller. Operated through a stand-alone deployment—like our Multi-Touch Monitor, or through a desktop software client—the Cyviz Display Controller easily configures projection, flat panels or cube walls for different uses. Operators can share satellite, video and office data in the current operations center or across multiple end-points, all with the unique Cyviz dynamic and intelligent PiPs. Frequently used scenarios can be saved as pre-sets for quick and easy retrieval later.

Complete Standardization; Easy Scalability

The Cyviz approach is to provide a common operating environment so you can standardize throughout, hence simplifying what once was complex. All Cyviz systems are built on a set of expandable core components—video displays, video processors and video control systems—that can be scaled like building blocks as your requirements change for maximum flexibility.

Start with a certain number of projectors, flat panels or cubes, and then expand as required. Working with Cyviz to design your system, you will designate a certain number of active PiPs to display on the wall at one time out of the total number of sources, like computers, TV tuners, live video feeds, capacitive touchscreen monitors and other sources.

The number of PiPs—handled by our video processors with a dual power supply for 24/7 operation—can also be easily increased by adding input cards.

Similarly, you can expand upon the number of Cyviz Multi-touch Monitors in a static environment. If you operate in a wireless environment, then the Cyviz client/server model will add additional flexibility.

The Cyviz Display Control Platform is the world's first standardized, configurable and future-proof software solution for multi-purpose command and control and collaboration systems. This platform allows you to operate, manage, monitor and support multiple Cyviz solutions from a centralized support organization.

Reassuring Simplicity

Ease of deployment, use and continuing operations for any system configuration is our governing principle.

Consistent system architecture means our larger and smaller visual display solutions share many of the same characteristics and components. This allows the deployment or implementation phase to be predictable and relatively straightforward.

Since our system control software is so easy to use, the Cyviz solution is operational to support your mission shortly after the physical equipment installation is complete. You can start creating presets within seconds without programming. Authorized operators, via the "Preferences" page, can do minor changes to the system. Certified and authorized personnel, using the graphical Cyviz Control Configuration tool, can apply major changes. Gone are the days of waiting for a programmer when you want an operational change!

All of our systems include built-in troubleshooting and problem-reporting capabilities for everything from lamp hours and high operating temperatures to non-responsive equipment. We've also integrated a groundbreaking feature into our Cyviz Display Controller: a "user rating" capability that enables your support team to measure your end-user's system operation, ease-of-use and satisfaction level. We continue to measure our success on how easily our systems enable you to achieve yours.

We are constantly making refinements to our operating systems and will continue to upgrade your solutions as we do. Continuous operation and installation support can be achieved through a service level agreement, software maintenance and hardware warranty. If something needs to be fixed, our effective worldwide support team stands at the ready—around the clock.

Pre Sale Engineering	Final Plan & Engineering	Production	Site Preparations	Shipping & Installation
• Advise on concept, functionality, ergonomics and solution • Mechanical engineering and schematics for Cyviz products	• Sign-off on final production drawings and schematics • Project plan delivered including requirements, shipping and installations info	• Standard delivery times from sign-off (in weeks): • Core technology: 1-2 • Mechanical components: 3 • Flexible screen: 2-4 • Glass screen: 4-6	• Partner responsibility includes: • Source set-up and external cabling • General facility management: power, HVAC, brightness, carpentry, etc.	• Solution architects or engineers from partner and Cyviz • Mechanical and technical installation • Testing, training, and SAT

Above is the typical Cyviz product delivery model used as a tool to manage expectations.

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Visit one of our Cyviz Technology Centers and experience our command and control solutions first hand.

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