OpSpace

The first operator workspace solution tailored to the operator

Barco's OpSpace is the first personal workspace that creates a single workspace – consisting of a number of displays on the operator's desk – for viewing, monitoring and interacting with multiple clients that reside on multiple networks with different security clearances or liability concerns. All relevant information can be consulted and manipulated with freely movable windows within a single pixel space, using just one mouse and keyboard. In this way, the operator has complete situational awareness and full control within easy reach.

See the bigger picture. Act on the details.

With just one click, the operators can call any application into a work area positioned in front of them. They can then interact with this application while maintaining an overview of the other videos or applications still present within their field of view. This provides a more ergonomic and intuitive way of working, contributing to lower stress levels and better decision-making.

OpSpace assists in securely integrating any required applications and sources of information into one central visualization and operation system for operators; it visually integrates multiple sub-systems into one interactive display and control workspace. Due to the often mission-critical applications in control room environments, it is unobtrusive to the users' primary tasks and therefore presents a minimal, yet powerful and intuitive user interface.

Furthermore, OpSpace was designed for use in 24/7 environments – so the stability, flexibility and robustness of the system have been tested rigorously to prevent any failure.

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OpSpace features

OpSpace application server
- **General**
  - Designed for 24/7 operations
  - Fast setup with easy step-by-step process
  - Central system configuration & maintenance
  - Unified setup & connection management
  - Auto-detection of network sources & devices
  - Fully distributed & modular component technology
  - HTML5 based user interface
  - Full redundancy support (optional)
  - Online configuration of sources, workstations and network variables
  - Backup & restore capabilities
  - Flexible scaling and system synchronization
  - User interface supports 10 languages
- **Integration**
  - Advanced control of system with REST API
  - Encrypted API calls
  - Audit trail logging
  - Easy integration into existing environments (e.g. Hardware encoding)
  - Works with industry-standard network components
- **Authorization & security**
  - Integrated Lightweight Directory Access Protocol server
  - External Active directory & LDAP server mapping (optional)
  - Secure user account management
  - Groups, roles & permissions
  - Source access management
  - All communication encrypted
  - Firewalls engaged on all components
  - Ongoing vulnerability scanning and assessment of system

OpSpace workstation client software
- **General**
  - Designed for 24/7 operations
  - Auto-configured
  - Single unified pixel space (free navigation, automatic resolution adjustments)
  - Multi-viewer for complete situational awareness
  - Continuous automatic saving of user work progress
  - Saving and loading layouts (complete workstation including perspectives and applications)
  - Automatic source input (permission based)
  - Full customization per user
  - "Follow me" function for personalized user settings anywhere
  - Optimized mouse interaction behavior
  - User interface supports 10 languages
  - Option for pre-defined, locked layouts
- **Console**
  - Modern, responsive and easy-to-use user interface
  - Minimal learning curve
  - Single tool to explore the complete system
  - Minimal use of screen estate
  - Accessible on every screen
  - Library to open any source or perspective quickly
  - Sorting and grouping of content
  - Instant search for fast browsing
  - Make sources or perspectives public for other operators
  - Instant access to Work Area

- Manage user, system and audio settings
- Fully drag and drop enabled
- **Sources**
  - Multiple sources on one canvas (individual windows)
  - Multiple sessions of a single source possible
  - Quick Send-to-Work Area option
  - Window menu for direct access to all functions
  - Flexible zooming, scaling & resizing
  - Labeling of source name
  - Quick lock and unlock of sensitive data sources
  - Integrated low latency interaction and control of remote sources
  - Bi-directional remote desktop/application keyboard and mouse control
- **Perspectives**
  - Single window with arrangement of multiple sources
  - Full access to all source-specific functionality
  - Automatic labeling of source name
  - Standard and custom tiling configuration
  - Optimized for creation of overview panels
  - Integrated soft KVM for remote control of sources
- **Work area**
  - Center of the information with all data within easy reach
  - Optimized for direct interaction (no lock, optimal latency)
  - Can be flexibly moved to monitor of choice
  - Sources can be sent to the work area
  - Quick launch bar for best source organization
  - Any information just one click away
- **Supported sources**
  - Digital streaming video (H.264/V2D)
  - Embedded audio formats
  - Remote Desktops with low-latency Video2Data (V2D)
  - Virtual Network Computing desktops (VNC)
  - Virtual Desktop Remote Desktop Protocol (RDP)
  - Encrypted RDP channels

OpSpace compatibility requirements

OpSpace application server software
- **Enterprise-class server**
- **CPU type**
  - Minimum: Intel® Xeon® E3, 3,0 GHz
- **Hard disk space**
  - Minimum: 240GB solid state drive (SSD)
- **Main memory**
  - Minimum: 16GB, DDR4
- **Virtual environment**
  - VirtualBox 5.2.24
  - VMware ESXi 6.7 / 7.0
  - VMware vSphere 6.7 / 7.0

OpSpace workstation client software
- **Thin clients:**
  - OpS-110 (detailed specs see hardware spec sheet): up to 2x HD
  - OpS-210 (detailed specs see hardware spec sheet): up to 2x HD/WQHD or 1x 4K displays
- **Maximum workstation configuration:**
  - Up to 16 screens (with multiple thin clients)
  - Up to 32 megapixel total workspace (with multiple thin clients)

ENABLING BRIGHT OUTCOMES

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