

Air Traffic Management Solutions

KVM Secure Core Display Management Systems

www.ihseusa.com



2019



A US Small Business



GSA Contract GS-35F-075BA



KVM SecureCore^(tm) Solutions

Get the right products with unlimited FREE technical support.

For more than 35 years, IHSE has been providing global solutions for federal, state, and local governments with a wide array of KVM products for extending and switching computer data. Need secure TAA compliant products for the US Markets? You will find them at IHSE USA. Many NATO countries have already standardized on IHSE KVM - a move that has become increasingly important as countries modernize their communications capabilities for interoperability.



Free, Live, 24/7 Tech Support

- In the U.S. Call us at 732-738-8780
- e-mail us at info@ihseusa.com
- Our U.S. based technicians are located in New Jersey, USA
- 24/7 Tech support carries over to our offices in Germany and Singapore



Same Day Shipping on most items

- In-stock items can ship same day
- Free standard shipping for GSA
- Call for stocked items
- Out-of-stock items can be expedited with express service



Custom Design / Special Requirements

- Need something special? Call us with your requirements and we can work with you to customize our products to fit your needs.



No Hassle Warranty

- Products include a full 2 year warranty on all extenders and switch products
- Extended warranties available
- Service Agreements available



Cross Reference with other KVM Systems

- Contact your sales representative to check interchangeability and cross-reference part numbers for other manufactures KVM systems.
- Offering trade-in / trade-up incentive program specials. Call for more info



We make it easy to order

- Call 732-738-8780 to place an order
- email us at info@ihseusa.com
- fax to: 732-631-0121
- mail to:
IHSE USA, LLC
1 Corporate Drive
Cranbury, NJ 08512



About IHSE USA

Audio & Video Solutions Anytime, Anywhere

IHSE started business producing private label KVM products to many large box solution providers and has now grown to be a world recognized leader in KVM solutions. As the company has grown customers have come to recognize the IHSE name as the go-to company for high quality KVM solutions.

We offer a comprehensive portfolio of KVM extender and switch solutions ranging from legacy VGA to the latest 4K60 high definition video and beyond - all focused on security and interoperability.

IHSE not only leads the market in KVM systems for Air Traffic Control solutions, but also provides systems for some of the most successful commercial organizations around the world. From basic conference room switching to full scale real-time tracking of analysis and video communications - IHSE has the right solution for you.

We will work with you and your goals in mind to achieve immediate cost reductions, increase network reliability, optimize performance, and ensure maximum network and application security. And we'll do it quickly, affordable and responsibly ... the same way you strive to serve your customers.

IHSE offers a wide range of KVM solutions for mission-critical work applications for air traffic control and airspace management control rooms

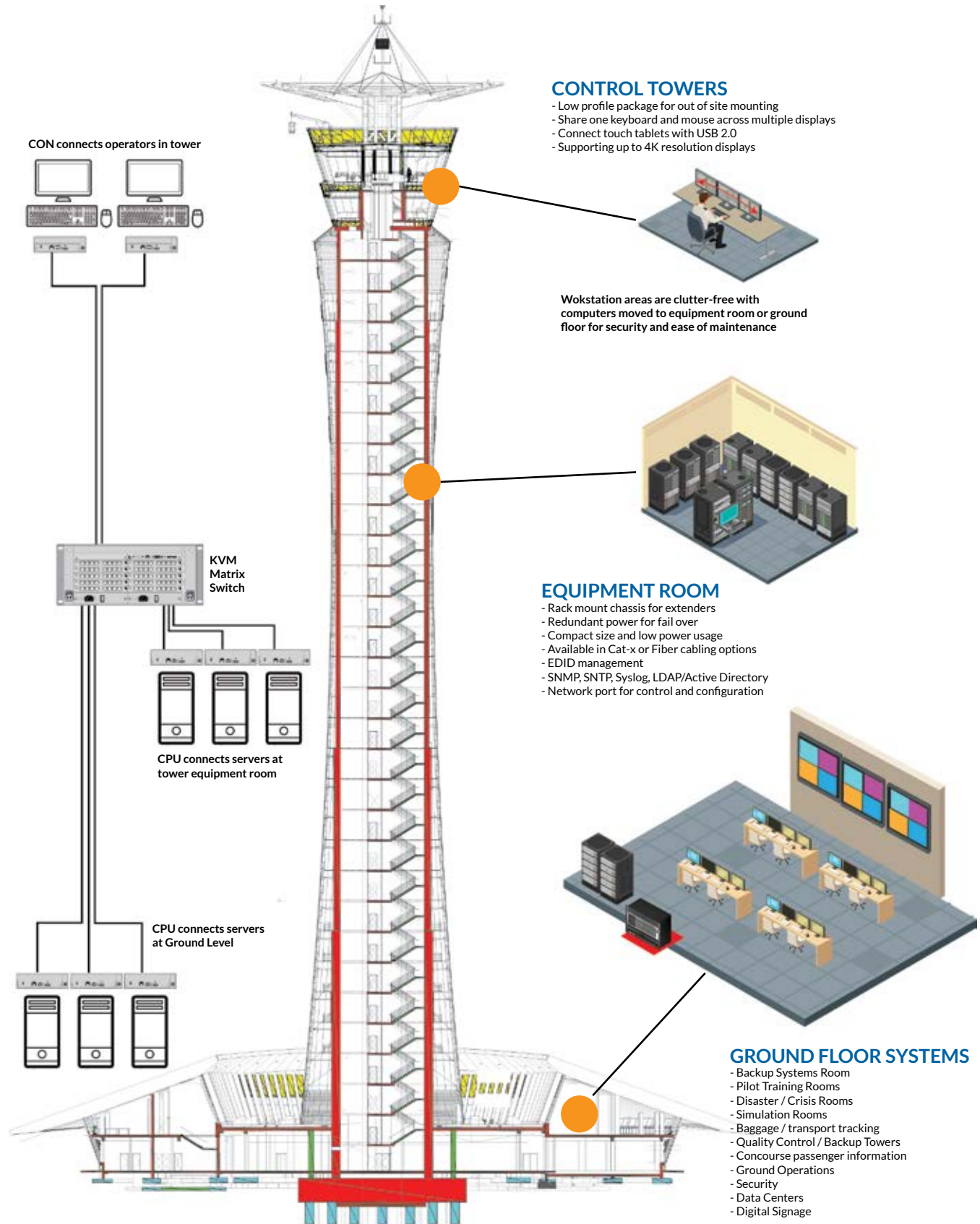


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TAX ID: 26-4224375



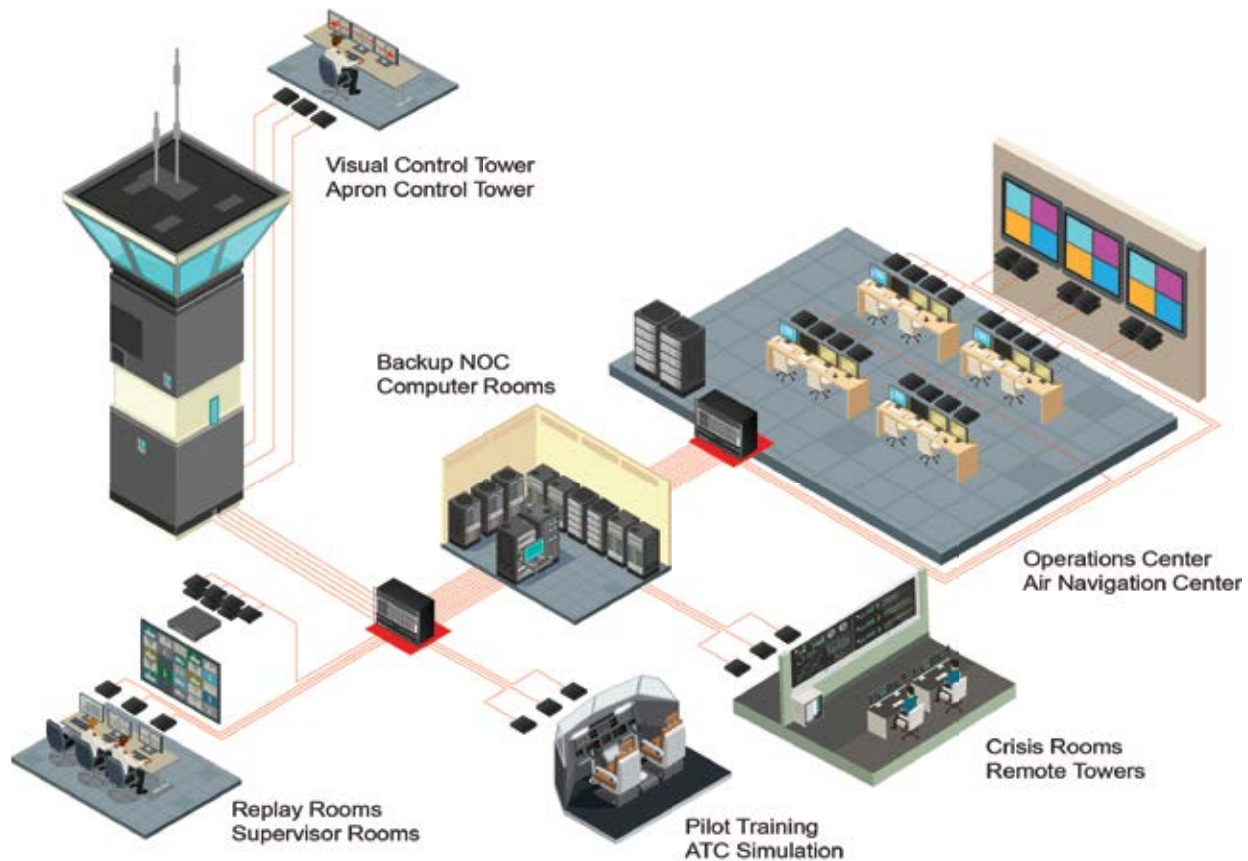
KVM - Air Traffic Control Towers

Information is crucial to safe and efficient air operations. IHSE KVM technology transports real-time data throughout the entire air traffic control and management process, enhancing safety and operational efficiency from take off to landing and beyond.



KVM - Air Traffic Management

Information is crucial to safe and efficient air operations. IHSE KVM technology transports real-time data throughout the entire air traffic control and management process, enhancing safety and operational efficiency from take off to landing, and beyond.



Bringing you the tools for a more efficient Air Traffic Control Tower

IHSE's reputation for excellence and quality reflect the safety and reliability standards for German engineering. Our products are built to suit all environments of air traffic environments – from regional to international airports- and can work independently or as an integrated part of the overall airport computer management system. All IHSE systems give the customer the flexibility to add modules when needed for future expansion.

Exceptional system reliability with built-in redundancy

Some airports are large; some small and some growing. The IHSE products for ATC can be sized and scaled to suit almost any environmental situation. For small airports, our Draco compact series of KVM matrices are a very cost effective solution. For larger airports with increased traffic control requirements, our modular Draco enterprise KVM matrix solutions provide a modular design that can grow or expand as your needs do – without the need to remove or replace installed equipment. Our products are designed to support critical work flow environments with options for redundant power, redundant path extensions and redundant controllers.

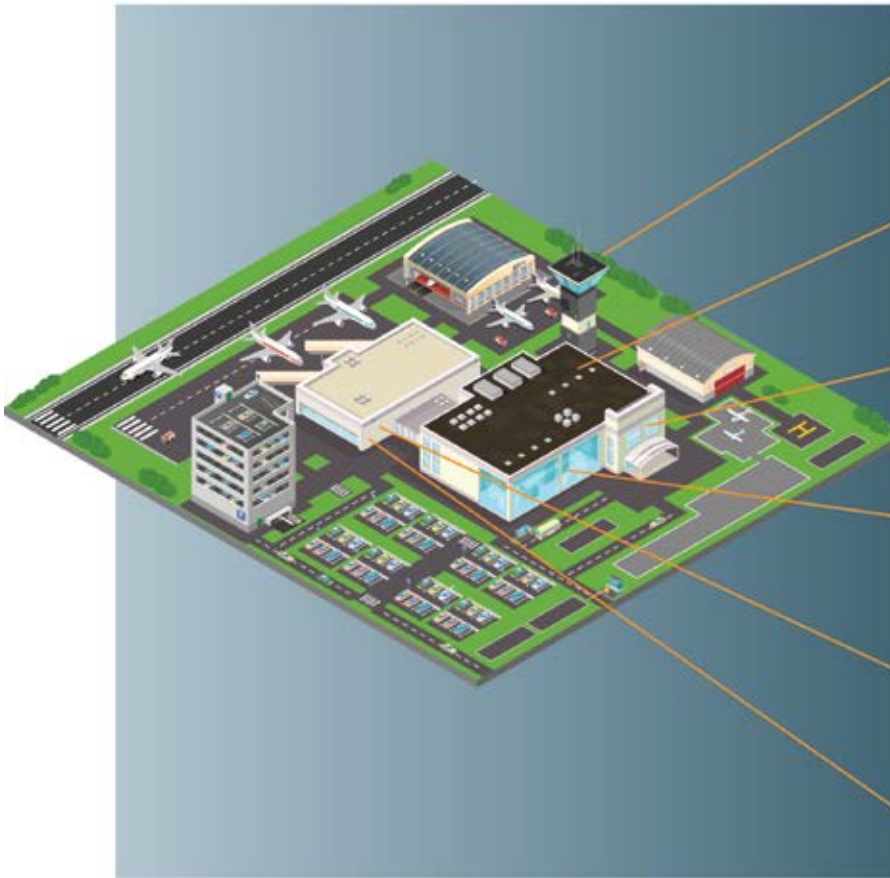
Bringing multiple disparate systems under one keyboard and mouse

In a traditional ATCT, a large number of disparate systems are installed that function as stand-alone devices. These systems are frequently obtained from different manufactures equipped with their own displays and input interfaces. This normally forces the Air Traffic Controller to interact with multiple systems and keyboards. With IHSE's U-Switch and matrix switch solutions, it becomes much easier to manage these systems under a single keyboard and mouse. This reduces desktop clutter as well as creates a superior work flow to manage multiple screens and operations under one access point.

Design systems that fit your specific configuration

When merging various data systems under a centralized KVM switch environment, the Draco tera compact and enterprise series of matrix switchers establish the perfect focal point for video and data distribution to the workstation area.

KVM - Air Traffic Management



ATC Operations

Create cleaner operations area by moving computers out of the tower and combining multiple servers under one keyboard, mouse and display



Concourse Information

Quickly change passenger flight information on large display screens or inject important airport changes or security level messages



Security

Connection of remote video cameras and surveillance devices for visual observation of airport facilities and perimeters.



Digital Signage

Immediate changes for up-to-date passenger information, entertainment or general information.



Data Centers

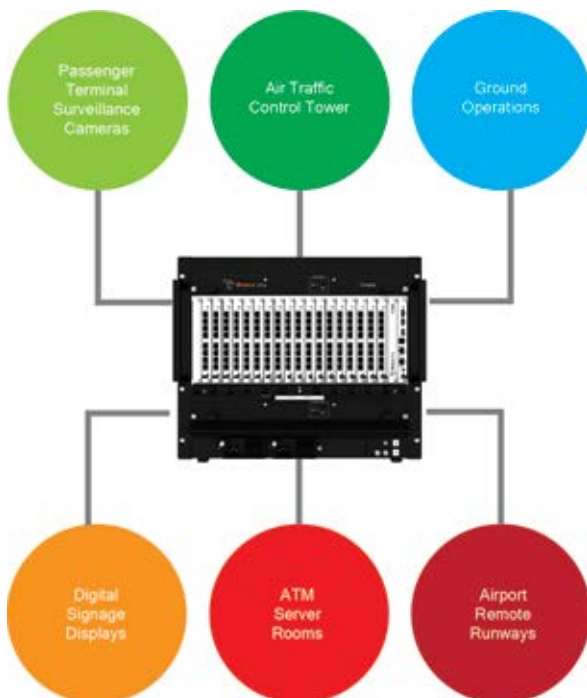
Secure, reliable and instantaneous access and switching of computers



Ground Operations

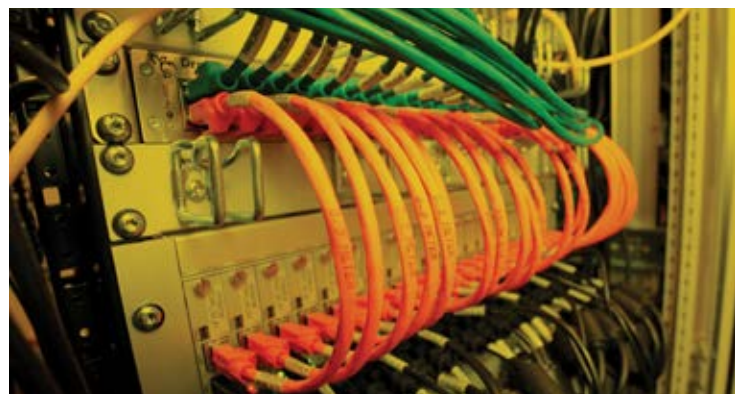
Vehicle movement, ground traffic, training and airport administration.

Doing more, Doing it Better



Picture air traffic controllers able to do their jobs more effectively with KVM systems designed to allow faster access to critical flight information

IHSE KVM Systems serve as the backbone of computer sharing for processed flight plans and surveillance data, providing communications support and immediate display data access for air traffic controllers. These systems expand coverage beyond workstation boundaries, enabling controllers to handle more data efficiently through a single keyboard, display and mouse. It also improves information security and provides the latest technology to enable the transformation to next generation air traffic control.



KVM - Air Traffic Management

Key Benefits

Move your computer source away from the desktop

Separate operators and computer equipment as much as 10km using fiber optic connections or 140m using copper cat5e/6 cabling.

Get glitch-free performance of video sources

Switching between sources is instantaneous so operators are not faced with blank or frozen screens during critical operations.

Providing full redundancy and backup

IHSE equipment offers full redundancy supporting fail-safe, auto-switching and backup connections to ensure continued operations.

Comprehensive control tools for system configuration

Get an extensive set of control and monitoring tools with the tera tool software management package included with every KVM matrix.

Systems built for continuous operations

Designed for 24/7 operations with hot-swap capability enabling component replacement without system shutdown.

Perfect visual display

Switching between sources give perfect picture quality without degradation or latency in motion images.

Supporting all video formats

No matter your video format or resolution requirements, IHSE has a solution supporting VGA up to full 4K and beyond.

Connect multiple systems under on control

With IHSE matrix grid options, up to 24 KVM systems can be connected together under one single management system.

Mouse and keyboard access across 8 displays

Operators can control independent computers across multiple displays with a single keyboard and mouse. As the mouse is moved to a display, the operator gains immediate access to the connected source.

Products used for the following designs around the world.

- Government facilities
- Airport Security
- Ground Services
- Air Trac Safety and Security
- ATC Operations
- Dubai 2020 RTA
- Ground ATC Networks
- Civil Aeronautics
- Ground-based Navigational Aids
- Central Monitoring Systems
- Smart and Interactive Display Solutions
- ATC Navigation and Guidance Systems
- Civil Aviation Authority
- AOCC - Airport Operation Command & Control
- Data Centre
- Network Operation Centre
- Security Operations
- Fire Command Centre
- Maintenance Operations
- CFADS Systems
- CBMS Systems
- Crisis Management Centers
- Rapid Deployment Tactical Operations

Installations

ERAM Project USA

A multi-million dollar project to modernize the FAA's air traffic control systems. Multiple KVM systems to be deployed over several years.

Dubai Airport (DXB)

4K video extenders and redundant KVM switches for ATC tower

DANS (Dubai Airport Navigation Services)

4K video extenders for AL Maktoum International Airport, UAE

Delhi Airport

Video extenders for airport management systems

Mumbai Airport

Video extenders for airport management systems

Sofia Airport

Data transmission between management buildings and the ATC tower up to 1 km away uses KVM extenders and fiber cabling.

Ben Gurion Airport

Draco tera switches and vario extenders are used at Ben Gurion Airport in Tel Aviv.

Jeddah Airport

IHSE Draco tera KVM matrix switches distribute vital data throughout the new tower at King Abdulaziz International Airport.

Thales SkyCentre

Draco tera KVM switches allow the center to operate efficiently and with a high level of adaptability.

Heathrow Airport

The UK's busiest airport relies on IHSE KVM extenders to transmit critical data to operators over fiber links.

Schiphol Airport

LVNL Air Traffic Control operations relies on IHSE KVM extenders at Schiphol East.

Barcelona Airport El Prat

Passenger information systems operate daily using IHSE KVM extenders.

Vienna Airport

High resolution images and passenger information are transmitted throughout Vienna Airport using Draco KVM extenders.

Frankfurt Airport

Draco tera KVM matrix switch enables smooth traffic flow at the Airside Coordination and Data Centre.

Changi Airport

Fully redundant system with fiber multiplexing of signals for a robust and flexible KVM system.

Qingdao Airport

Multi-level system redundancy, back-up and failsafe operation ensure continuous operation of security systems.

Lianshui Huaian Airport

ATM systems extension from ground level equipment room to controllers at the top of the air traffic control tower.

Extender Enclosures for any setup



The draco vario extender family is designed around a modular concept that lets you build an extender system to fit your specific needs. Enclosure frames are available in 2-bay, 4-bay, 6-bay and 21-bay units.

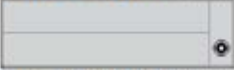
Try our online product selector and enclosure configurator.
<https://www.ihseusa.com/downloads/vario-design-tool.html>

Use your QR reader to access the online configurator

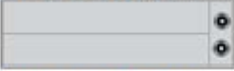


- 5.7 in x 5.8 in x 1.7 in
 (145 mm x 147 mm x 41 mm)
 mounting kit: 474-VRMK
 1RU rack kit: 474-2RMK


Part No: 474-BODY2: Two bay enclosure, external power supply


- 5.7 in x 5.8 in x 1.7 in
 (145 mm x 147 mm x 41 mm)
 mounting kit: 474-VRMK
 1RU rack kit: 474-2RMK


Part No: 474-BODY2R: Two bay enclosure, redundant external power supply


- 8.7 in x 5.8 in x 1.7 in
 (221 mm x 147 mm x 41 mm)
 mounting kit: 474-2NRMK

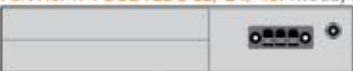
Part No: 474-BODY2BPF: Two bay enclosure, integral backplane, internal power, redundant PS option


- 8.7 in x 5.8 in x 1.7 in
 (221 mm x 147 mm x 41 mm)
 mounting kit: 474-2NRMK

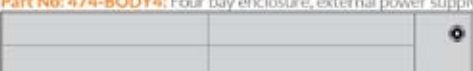
Part No: 474-BODY2N: Two bay enclosure, internal power supply (with external redundant PS option)


- 8.7 in x 5.8 in x 1.7 in
 (221 mm x 147 mm x 41 mm)
 mounting kit: 474-2NRMK


Part No: 474-BODY2DC-12, -24, -48: Two bay enclosure, for 12V, 24V, 48V DC power


- 11.5 in x 5.8 in x 1.7 in
 (293 mm x 147 mm x 41 mm)
 1U rack kit: 474-4RMK


Part No: 474-BODY4: Four bay enclosure, external power supply


- 11.5 in x 5.8 in x 1.7 in
 (293 mm x 147 mm x 41 mm)
 1U rack kit: 474-4RMK


Part No: 474-BODY4R: Four bay enclosure, redundant external power supply


- 17.4 in x 5.8 in x 1.7 in
 (442 mm x 147 mm x 41 mm)
 1U rack kit: 474-6RMK


Part No: 474-BODY6R: Six bay enclosure, internal power supply (with external redundant PS option)


- 17.4 in x 5.8 in x 1.7 in
 (442 mm x 147 mm x 41 mm)
 1U rack kit: 474-6RMK


Part No: 474-BODY6DC-12, -24, -48: Six bay enclosure, for 12V, 24V, 48V DC power


- 17.4 in x 9.8 in x 1.7 in
 (442 mm x 250 mm x 41 mm)
 1U rack kit: 474-6RMK


Part No: 474-BODYBPF: Six bay enclosure, internal power supply (power same side as plug-in cards)


- 17.4 in x 9.8 in x 1.7 in
 (442 mm x 250 mm x 41 mm)
 1U rack kit: 474-6RMK

Part No: 474-BODYBP: Six bay enclosure, internal power supply (power opposite side of plug-in cards)


- 19.0 in x 18.2 in x 6.9 in
 (482 mm x 462 mm x 176 mm)
 4U frame

Part No: 474-BODY21/4U: 4RU Rack Mount chassis with 21 slots, setup for redundant power





Secure KVM Matrix Switching

Draco tera enterprise Matrix Switch for Peripheral Sharing Devices

Flexible, instantaneous crosspoint switching and peripheral extension of high definition video for situational awareness and command and control rooms



48 Ports



80 Ports



160 Ports



288 Ports



576 Ports

- Flex-Port Technology
- Modular I/O cards
- Multi-screen control
- Mix Cat-X / Fiber cards
- Control up to 24 Levels
- Modular Extender Styles
 - DVI
 - HDMI
 - DisplayPort
 - VGA
 - SDI
 - USB-HID
 - USB 2.0
 - USB 3.0
 - Digital Audio
 - Analog Audio
 - RS-232
 - RS-422

The Draco tera enterprise matrix is the perfect high performance, modular routing system for complete in-band signal distribution of high definition video, audio, and data over Cat X, multi-mode or single-mode fiber optic cable supporting up to 576 I/O ports in a single frame. Designed with performance and flexibility in mind, the Draco tera enterprise offers tremendous scalability with cost effective features. Each port can be user-configured as an input or an output scalable from one CPU to multiple workstations or with multiple CPUs managed by a single workstation console. For mission-critical installations, Draco tera matrix switches are ideal. The multi-level redundancy concept of the Draco tera enterprise offers the highest level of reliability for 24/7 operation. Each Draco tera enterprise chassis supports fully redundant power and hot swappable modules for full service and field upgrades without interrupting signal flow. The Draco tera enterprise is compatible with all IHSE extenders.

FEATURES

- Instantaneous delay-free switching
- Modular platform with up to 576 bi-directional ports
- 8 port cards auto configurable for input or output devices
- Extend signals up to 140m over CATx or up to 10km over fiber
- Supports switching video, keyboard, mouse, and tablets
- Full HD resolutions to 1920x1200, 2K up to 2560x1600, and 4K up to 4096 x2160 @60Hz / 5K and beyond
- Optional video resolutions for Composite Video (NTSC) and SDI
- Switches in less than one frame
- Hot key switching enables instant access to critical data
- Software upgrades for remote access over IP networks
- N+1 power supply supported
- Grid up to 24 frames managed through a single control system
- Bi-directional digital audio, analog audio and RS-232/422 options

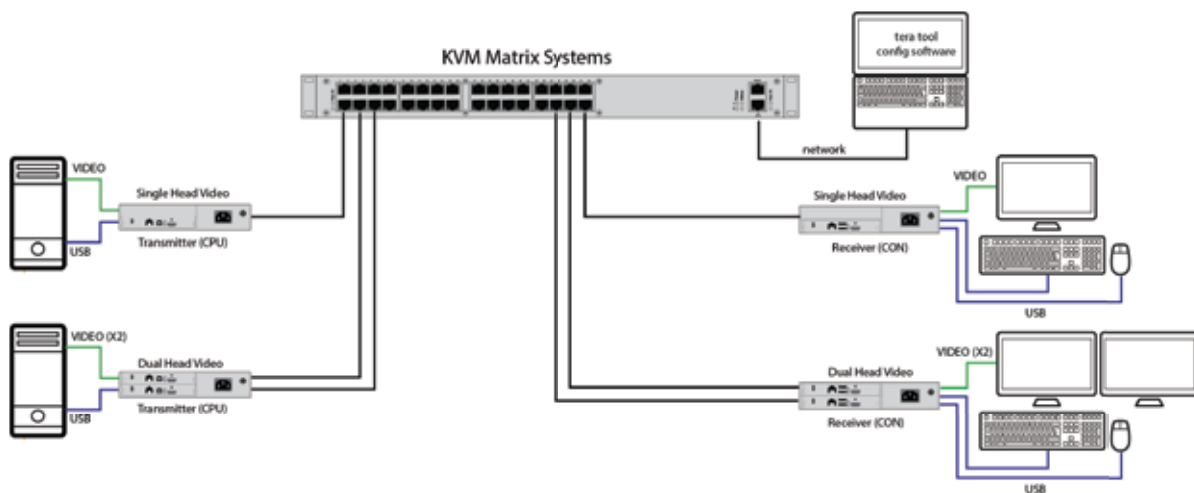


Draco compact KVM matrix systems

The Draco tera compact switch with its form factor of max. two 19" rack units is specifically designed for smaller and mid-sized KVM requirements using the same technology found in the larger Draco tera enterprise matrix systems. Based on a small footprint package, the cost-effective frame can be used with all of the Draco extender modules creating the world's widest selection of KVM solutions. It is a simple operation to set up and configure the matrix with the On-Screen Display (OSD) or through the feature-enhanced Draco tera Tool.

Extenders can accommodate a variety of signal formats and the Draco tera compact auto-senses the individual units through any available port on the chassis. By simply connecting the extender to the chassis, the internal firmware will recognize and auto-configure the port as a CPU or console device. This Flex-Port technology provides a huge time saving for system installers who normally have to pre-configure ports to specific I/O requirements. The system includes instant switching technology for all the popular formats up to 4K resolutions at 60 Hz and 10 bit color depth (4:4:4).

With incredible speed, switching between sources is glitch-free and instantaneous thus reducing eye strain and annoying video tearing found with other systems. With the small footprint and ruggedized chassis design, the Draco tera compact is the perfect KVM space-saving solution where centralized switching of KVM is necessary. It is especially suited for factory floor automation control systems, production studios, OB Vans, and command and control environments.



Compact switch with extenders for single and dual display options

Secure KVM Matrix Switching

Draco tera compact Matrix Switch for peripheral sharing devices

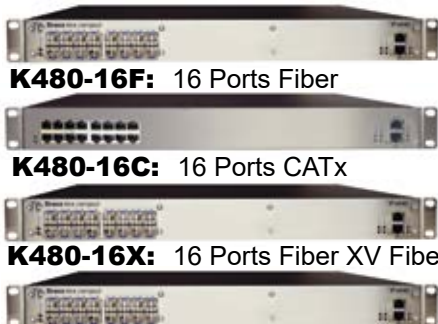
Fixed-size, instantaneous crosspoint switching and peripheral extension of high definition video for situational awareness and command and control rooms. Available in 8 to 80 ports.



- K480-08F:** 8 Ports Fiber
- K480-08C:** 8 Ports CATx
- K480-08X:** 8 Ports XV Fiber (High Speed)
- K480-08U:** 8 Ports Uni-slots

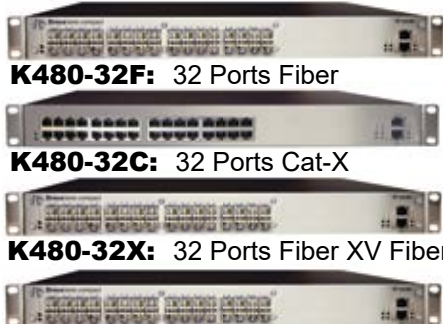


1RU - 16 Ports



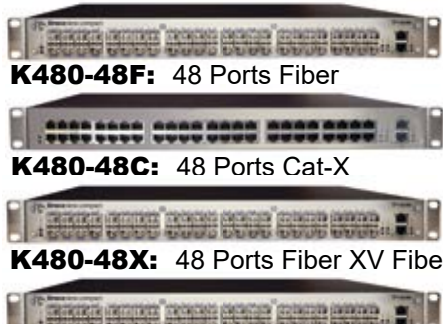
- K480-16F:** 16 Ports Fiber
- K480-16C:** 16 Ports CATx
- K480-16X:** 16 Ports Fiber XV Fiber
- K480-16U:** 16 Ports Universal

1RU - 32 Ports



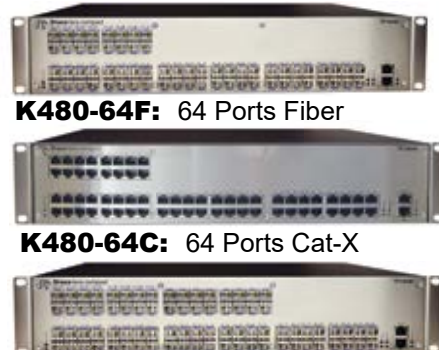
- K480-32F:** 32 Ports Fiber
- K480-32C:** 32 Ports Cat-X
- K480-32X:** 32 Ports Fiber XV Fiber
- K480-32U:** 32 Ports Universal

1RU - 48 Ports

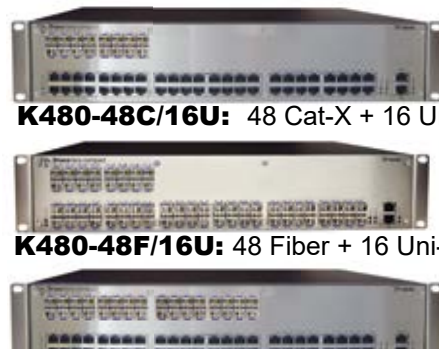


- K480-48F:** 48 Ports Fiber
- K480-48C:** 48 Ports Cat-X
- K480-48X:** 48 Ports Fiber XV Fiber
- K480-48U:** 48 Ports Universal

2RU - 64 or 80 Ports



- K480-64F:** 64 Ports Fiber
- K480-64C:** 64 Ports Cat-X
- K480-80F:** 80 Ports Fiber
- K480-80C:** 80 Ports Cat-X
- K480-48C/32F:** 48 Cat-X + 32 Fiber
- K480-48C/16F:** 48 Cat-X + 16 Fiber



- K480-48C/16U:** 48 Cat-X + 16 Uni-slots
- K480-48F/16U:** 48 Fiber + 16 Uni-slots
- K480-48C/32U:** 48 Cat-X + 32 Uni-slots
- K480-48F/32U:** 48 Fiber + 32 Uni-slots

Ultra Series: Modular Extenders



KVM Extenders for point-to-point connections or end-points for KVM matrix systems

IHSE brings True KVM workstation management solutions with the latest high performance extenders for computer video and USB keyboard and mouse extension over fiber or CATx connections. Based on the highly efficient Fraunhofer IIS Lici® codec, these new extenders enable picture perfect transmission of video sources with resolutions up to 4096 x 2160 at 60 hertz and full color depth (10bit, 4:4:4).

HDMI



- 1920X1080p 50/60Hz / 1920x1200
- HDMI 1.x (8 bit, true color)
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

DRACO ULTRA - 491 SERIES

Designed to extend HDMI signals up to 140 meters over Cat5e/6 twisted-pair cabling or up to 10 kilometers over single-mode fiber. These state-of-the-art extender units provide up to 2160p30 video resolution along with latency-free USB for keyboard and mouse

DVI-D



- 1920X1080p 50/60Hz / 1920x1200
- DVI Dual Head or Dual Link
- USB-HID for keyboard / mouse
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

DRACO ULTRA- 492 SERIES

The Draco ultra 492 Series Cat5e/6 and fiber extenders for DVI-D in dual-head or dual-link models. The dual-head model, the Draco ultra Dual-Head KVM extender, makes it possible to connect two DVI monitors over a single twisted-pair or fiber cable, saving the expense of a second extender and reducing cabling cost and installation effort.

DisplayPort 1.1



- Up to 4096X2160p 30Hz
- DisplayPort 1.1
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

DRACO ULTRA - 493 SERIES

The 493 Series Draco ultra DP extender allows the operation of CPUs from a remotely located workstation including DisplayPort monitor, keyboard and pointing device over a single duplex fiber cable. Transfer of fully-digital video is supported in 4K resolutions up to 4096 x 2160 and 3840 x 2160 at 30-Hz refresh rate and full color depth (24-bit, 4:4:4).

DVI-I (VGA)



- Up to 1920X1200 @60Hz
- DVI-I (VGA)
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

DRACO ULTRA - 494 SERIES

IHSE has long offered DVI-I extenders to convert analog VGA signals to digital DVI. Now, with the Draco ultra 494 Series, legacy VGA signals can easily be interfaced to all other Draco ultra extenders, reducing the need to incorporate additional VGA-to-DVI conversion boxes.

HDMI 2.0 (4K)



- Up to 4096X2160p 60Hz
- HDMI 2.0
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Lici CODEC
- EDID / USB emulation capable

DRACO ULTRA - 495 SERIES

The 495 Series Draco ultra for HDMI 2.0 enables users to operate CPUs from a remotely located workstation – including DisplayPort monitor, keyboard, and pointing device – over a fiber connection. The 495 Series supports the transfer of fully digital video in 4K resolutions up to 4096 x 2160 and 3840 x 2160 at a real 60 hertz refresh rate and full color depth (30 bit, 4:4:4).

DisplayPort 1.2 (4K)



- Up to 4096X2160p 60Hz
- Option for 1080p240Hz
- Options for 5K/8K with dual ports
- DisplayPort 1.2, 30 bit, 4:4:4
- USB-HID for keyboard / mouse
- embedded audio
- Fiber SM / MM
- Lici CODEC
- EDID / USB emulation capable

DRACO ULTRA - 490 SERIES

Connecting a DisplayPort monitor, keyboard and pointing device over a single duplex fiber cable. Transfer of fully-digital video is supported in 4K resolutions up to 4096 x 2160 and 3840 x 2160 at 60-Hz refresh rate and full color depth (30-bit, 4:4:4). Optional, up to 1080p240Hz supported for high frame rate extender requirements.

Extenders can support 5K/8K as dual port models when combined with IHSE's synchronized firmware option.

Vario Series: Modular Extenders



By relocating CPU devices in separate equipment rooms, it becomes much easier to protect critical CPU's and servers from dirt, moisture and unauthorized access

With KVM extenders, users can re-locate their computers or CPU servers at longer distances than standard cabling interconnects allow. KVM extenders can be interconnected via copper cables (CATx) or fiber optic cabling up to 10km. IHSE extenders provide complete peripheral connections (keyboard, mouse, monitor, USB-HID and USB 2.0) as if they were located directly at the workstation.

HDMI



DRACO VARIO- 481 SERIES

Designed to extend HDMI signals up to 140 meters over Cat5e/6 twisted-pair cabling or up to 10 kilometers over single-mode fiber. These state-of-the-art extender units provide up to 1080p60 video resolution along with latency-free USB for keyboard and mouse

- 1920X1080p 50/60Hz / 1920x1200
- HDMI 1.x (8 bit, true color)
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- EDID / USB emulation capable

DVI-D -DH/DL



DRACO VARIO- 482 SERIES

The Draco 482 Series Cat5e/6 and fiber extenders for DVI-D in dual-head or dual-link models. The dual-head model, the Draco ultra Dual-Head KVM extender, makes it possible to connect two DVI monitors over a single twisted-pair or fiber cable, saving the expense of a second extender and reducing cabling cost and installation effort.

- 1920X1080p 50/60Hz / 1920x1200
- DVI Dual Head or Dual Link
- USB-HID for keyboard / mouse
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

DisplayPort 1.1



DRACO VARIO - 483 SERIES

The 483 Series Draco DP extender allows the operation of CPUs from a remotely located workstation including DisplayPort monitor, keyboard and pointing device over a single duplex fiber cable. Transfer of fully-digital video is supported in 4K resolutions up to 4096 x 2160 and 3840 x 2160 at 30-Hz refresh rate and full color depth (24-bit, 4:4:4).

- Up to 4096X2160p 30Hz
- DisplayPort 1.1
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- EDID / USB emulation capable

DVI-I (VGA)



DRACO VARIO - 474 SERIES

IHSE has long offered DVI-I extenders to convert analog VGA signals to digital DVI. Now, with the Draco 474 Series, legacy VGA signals can easily be interfaced to all other Draco ultra extenders, reducing the need to incorporate additional VGA-to-DVI conversion boxes.

- Up to 1920X1200 60Hz
- DVI-I / VGA
- USB-HID for keyboard / mouse
- Cat-X or Fiber connections
- Fits all enclosures
- EDID / USB emulation capable

SDI / KVM



optional NTSC/PAL for legacy cameras

DRACO VARIO - 486 SERIES

Supports cross-conversion of 3G-SDI signals for sharing serial digital video with IHSE's Draco tera KVM matrix switches. This extender allows source and destination extensions up to 10 kilometers over single-mode fiber. or up to 140m over CATx. This capability allows users to view content on a wide range of monitors without needing dedicated SDI displays and extra cables for SDI extension.

Combine composite video with KVM

L486 Draco serial digital devices to KVM

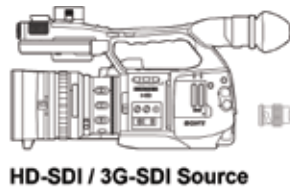
The IHSE L486 Series is a high performance 3G-SDI to digital video main board for the vario line of extenders. When correlated to other styles of vario extender boards, video formats are converted from 3G-SDI, HD-SDI or SDI formats for conformance to IHSE's fast-access transport to display either DisplayPort 1.1, HDMI, DVI or VGA video signals. SMPTE compliant serial digital inputs from 576p60 up to 1080p60 as well as advanced features for processing deinterlaced signals up to 1080i are supported. Legacy NTSC video input conversion available



Features

- Accept HD-SDI sources and convert to computer video
- Optional NTSC / Analog Video SFP
- HD-BNC connection (adapter to std. BNC required)
- Output resolution from 576p to 1920x1080p60
- SDI 4:2:2 input standard
- Embedded Audio
- Available in CATx or Fiber ports
- Compatible with all Classic model extenders 474, 481, 482, 483

INPUT



From SDI Source
Coax Cable

SDI to KVM



To KVM Switch **OUTPUT**



R486 Draco KVM to serial digital video

The IHSE R486 is a high performance digital video to 3G-SDI main board for the vario line of extenders. When correlated to other styles of vario extender boards, digital video formats such as DisplayPort 1.1, HDMI, DVI or VGA are converted to 3G-SDI, HD-SDI or SDI formats compliant with SMPTE serial digital formats. A built-in scaler accepts SMPTE video resolutions from 480i up to 1080p60. The cost efficient 486 supports an array of HD video formats and provides digitally pure video (HDMI, DVI, DP 1.1) to SDI conversion, ensuring no loss in the conversion for both video and embedded audio signals.



Features

- Preview KVM video on SDI displays
- HD-BNC to BNC SFP
- Output resolution to 1920x1080p60
- Digital 4:4:4 to SDI 4:2:2 outputs
- Embedded Audio
- Available in CATx or Fiber ports
- Compatible with all Classic model extenders 474, 481, 482, 483

INPUT

From KVM Switch



KVM to SDI

Coax Cable
To SDI Destination

HD-SDI / 3G-SDI Destination



OUTPUT



Integrated KVM over networks

IHSE extends the connectivity of its KVM switching solution infrastructure with the release of new Remote IP CPU and IP CON network gateways. Users can now access a secure KVM system directly, over a local area network or across a wider network using IP and cloud connectivity. These IP CON devices provide remote user access over a network connection and the IP CPU devices support remote access to computer sources via RDP as well as supporting virtual machine access.

This further extends the potential that IHSE KVM technology delivers by enabling access to contained and restricted KVM installations from remote users over IP connection. As with all IHSE products, security is paramount; integral KVM SecureCore technology maintains total security within the KVM switch and prevents unauthorized access to data carried within the KVM network infrastructure.

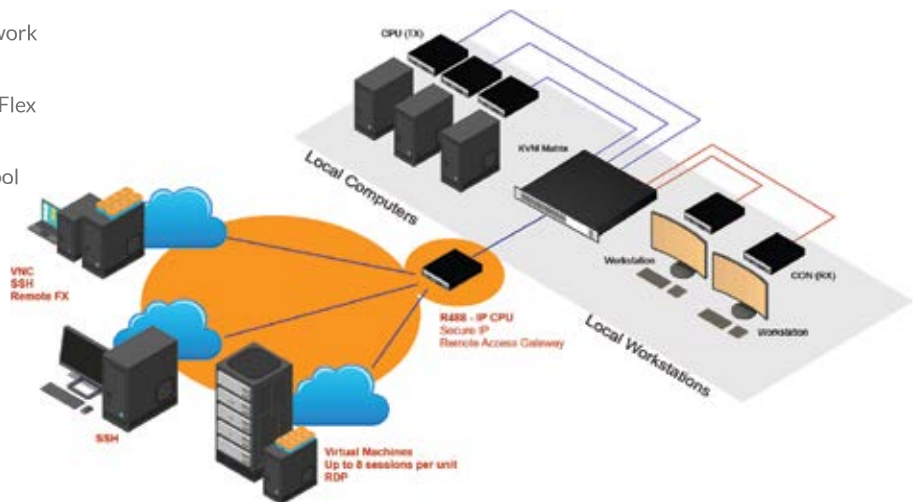
L488 Draco CPU: Connecting network CPU devices



The Draco vario Remote IP CPU combines the functionality of a gateway and a KVM extender (transmitter). This space-saving solution is fully compatible with the Draco vario extender and the Draco enterprise and compact matrix switch series. This concept is further improved with IP-based video access to virtual machine servers. Using virtual machines allow users to access a virtual source remotely via the network, like it were an RDP or VNC session.

FEATURES

- Emulated IP Thin Client gateway allows network devices to connect to a baseband KVM system.
- Cross conversion between TCP/IP and IHSE Flex Port Protocol
- Compact enclosure fits all vario frame types
- Configurable network parameters via tera tool control manager
- LED status indicators



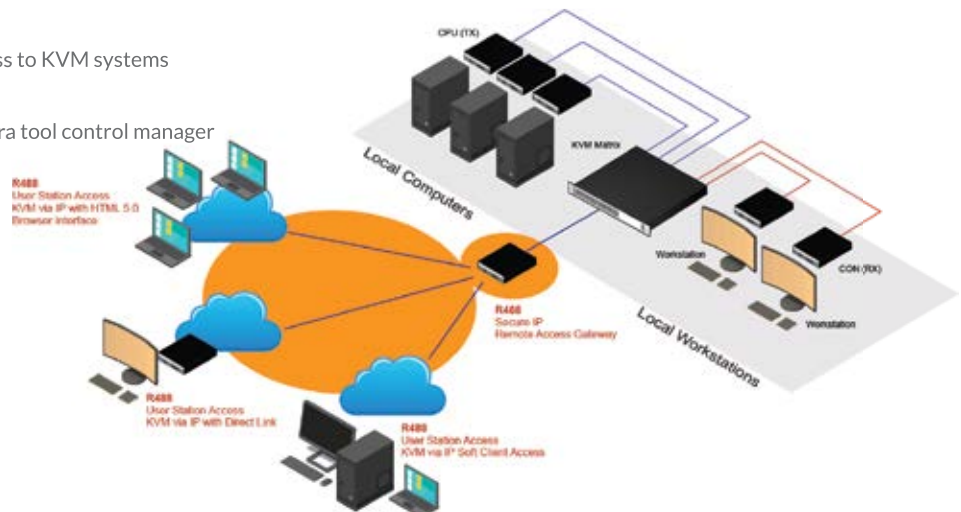
R488 Draco CON: Gateway allowing user remote access



The Draco vario Remote IP CON combines the functionality of an IP-KVM adapter and integrates it as an emulated direct-connect CON extender (receiver). This space-saving solution is fully compatible with the Draco enterprise and compact matrix switch series. With the R488 Series extender module, users can access a KVM matrix system from remote locations using secure connections linked to through a standard TCP/IP connection.

FEATURES

- Emulated gateway for remote user access to KVM systems
- Optional Redundant TCP/IP port
- Local connections for monitoring
- Configurable network parameters via tera tool control manager
- LED status indicators



Warranty:

Products sold by IHSE are manufactured for long term performance and reliability. IHSE warrants these products against defects and workmanship for a period of two years.

Services:

Customer support is available 24 hours a day, 7 days a week by calling 1-866-721-0744.

International customers call

+1 (732) 738-8780
support@ihseusa.com

In addition to our standard customer warranty service support, we offer extended warranties. For quotes or additional information call +1 (732) 738-8780

On site factory training or remote web-based training is available for control system operations, technical, and maintenance training. Contact our technical support group for additional information.

Spares can be ordered through your area sales representative or contacting our inside sales team.

Government Purchasing Options

IHSE offers several purchasing options designed to meet your specific requirements.

GSA Schedule Purchase

If your organization is authorized to purchase from the General Services Administration (GSA) Schedule, the IHSE USA GSA Schedule offers a fast, easy purchasing path that eliminates time-consuming bids.

Open Market Purchases

If you prefer to purchase on the open market, competitive pricing is available through IHSE USA's authorized channel partners program. Our channel partners can offer you affordable pricing as well as the benefits of local service and repair.



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IHSE USA, LLC
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Germany

ORDERING INFORMATION

IHSE USA LLC

1 Corporate Drive, Suite F
Cranbury, NJ 08512, USA
Tel: +1.732.738.8780
www.ihseusa.com
info@ihseusa.com

IHSE GmbH

Benzstraße 1
88094 Oberteuringen
Germany
Tel. +49 7546 9248-0
info@ihse.de

IHSE GmbH Asia Pacific Pte Ltd

158 Kallang Way, #07-13A
Singapore 349245
Tel. +65 (6841) 4707
info@ihseapac.com