

KVM IN MOBILE PRODUCTION



ihse.



# DRACO

## ESSENTIAL TO THE BROADCAST WORKFLOW

### **IHSE KVM SWITCHES IN OB VANS**

In the fast-paced environment of outside broadcast the need for efficiency and flexibility has never been greater. Production staff rely on their equipment and the ability to access it instantly and without compromise.

### **PROVEN PERFORMANCE**

IHSE KVM systems are selected by the world's leading outside broadcast production companies for the latest and most sophisticated OB vehicles. Those in daily operation around the world in the production and transmission of major sporting, cultural and historical events.

### **FLEXIBILITY & CONVENIENCE**

KVM switching allows operators to access any device, whenever they need to, simply and quickly. The number of operator workstations is reduced, making better use of space and reducing power consumption, as well as making production teams more efficient.

### **RELIABILITY IN OPERATION**

IHSE Draco tera KVM switches are designed to operate with total reliability. Extensive back-up and redundancy features add to the level of confidence that can be built into OB van designs. Ensuring continuous operation in the most intense and high pressure broadcast situations.

From the Oscars to the Olympics, NEP provides the technology and know-how to produce the world's most important live and broadcast events.

The new fleet of four supertrucks, HD11, 12, 13 and 14, offers 4K outside broadcast capability with unmatched capacity in the Australian continent.



### KVM SYSTEM

A Draco tera compact KVM switch handles a wide range of video sources from legacy VGA equipment to dual head HD and 4K/UHD.

Control of switch connections is handled locally by operator keyboard command. Integration with the Lawo Virtual Studio Manager system incorporates switching into the truck workflow management.



### PERFORMANCE

“ These trucks break the mould in terms of what can be achieved by an OB vehicle. Enhanced technical power meets the ever-growing needs of our diverse clientele. Exciting new features elevate the experience for operators. The IHSE Draco switch is unsurpassed in quality and performance and makes this all possible.

Milan Milenkovic, Project Director



### CONFIGURATION

- Vehicles: HD11, HD12, HD13, HD14 Supertruck Fleet
- Specification: Expanding, 15 m long, 28 cameras
- Capability: All resolution to 4K/UHD
- KVM system: 48-port IHSE Draco tera compact matrix switch, Draco vario extenders



## KVM SYSTEM

Recently upgraded to expand its capabilities, SS18 includes an IHSE Draco compact KVM matrix that supports 48-ports in the A unit and 16 ports in the B unit. Workstations are configured with DVI/RS-422 combination extenders in record and replay areas.

Lawo Virtual Studio Manager system incorporates switching into the truck workflow management.



## PERFORMANCE

“Supershooter 18 is one of our premier HD sports truck, capable of any assignment. With a back to back tape room, SS18 can operate natively in any production format from 1080i or 720p to Standard Definition.”



## CONFIGURATION

- Vehicle: Supershooter SS18
- Specification: Expanding, 16 m long, 11 cameras
- Capability: All resolutions to 1080 Full HD
- KVM system: 64-port IHSE Draco tera compact matrix switch, Draco vario extenders

Serving the whole of the American continent, NEP USA OB vans capture live action, no matter where it happens.

Supershooter trucks are designed for rapid setup with total recall functionality in production, audio and record replay areas, making them particularly suited to one-day set-shoot-strike deployments. Single and dual-unit configuration addresses the demands of events of every size.



Game Creek Video works with the world's largest television networks, production companies and news organizations to provide the best technical, logistical and production support using state-of-the-art OB technology.

Game Creek is present at virtually every major televised sport and political event in the USA. To better serve an extensive portfolio of clients that includes ESPN, CBS and Fox Sports, Game Creek has created an architecture that can quickly adapt to individual requirements.



### KVM SYSTEM

In the latest OB vans in its extensive fleet, Game Creek has installed IHSE KVM technology to enhance and optimize each van's working environment, connecting operators to onboard broadcast devices.

Matrix Grid interconnects individual KVM switches in separate A/B/C units, enabling them to work together as a single entity.



### PERFORMANCE

“*PeacockOne, our latest truck, was designed to push the boundaries of mobile production. We again chose IHSE to help us meet the critical challenges of shared A/B unit replay sources. With the success we had in other trucks, it was an easy decision to incorporate the IHSE matrix.*”

Jason Taubman, Game Creek Video



### CONFIGURATION

- Vehicles:** Spirit, Riverhawk, Encore (A/B/C units), PeacockOne (A/B units), Madison, Yogi (A/B units)
- Specification:** Expanding, 16 - 22 m long, 12 - 23 cameras
- Capability:** All resolutions to 4K
- KVM system:** 32-, 80-port IHSE Draco tera compact matrix switch, 160-port Draco tera enterprise matrix switch



# DRACO tera compact series

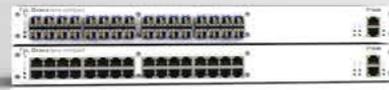
## A SPECTRUM OF CAPABILITY

IHSE Draco tera KVM switches work with all broadcast production tools, including the latest HD and 4K/UHD systems as well as legacy analogue devices. They interact and transfer essential data via USB HID, high-speed USB 2.0 and serial interfaces and carry all forms of analog and digital audio.

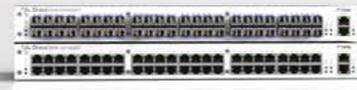
16 ports



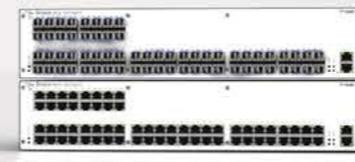
32 ports



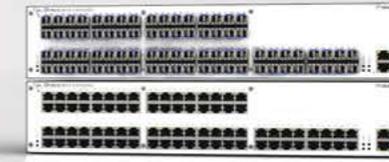
48 ports



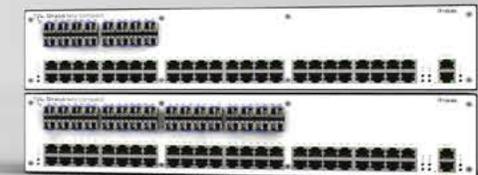
64 ports



80 ports



Combined ports



## STREAMLINE THE BROADCAST WORKFLOW

IHSE Draco tera KVM switches allow operators, engineers and producers to manage all broadcast devices from their individual workstations, without needing to change position or interrupt colleagues. With just a simple keyboard command, each operator can instantly connect to any device on the vehicle and operate it as though it was at their side, with no delay, visual artefacts or lack of response.

## HIGHLIGHTS

- Instant connection and switching to all devices
- Near-zero video transmission latency
- HD-SDI and USB 3.0 parallel switching
- Mixed copper and fiber configuration
- Supports all digital and audio video formats
- Extensive redundancy and security options
- Modular, expandable, future-proof design
- From 8 to 576 non-blocking, assignable ports

Videohouse, based in Belgium, is part of the Euro Media Group (EMG); Europe's major creative and technical service supplier to the broadcast industry.

OB14 is a new-concept OB van, with many unique technical and construction features, including an optimized ergonomic interior design and modular equipment racks that are pre-loaded to meet individual production requirements.



## KVM SYSTEM

The Draco tera switch gives operators access to broadcast devices in the equipment bay. The truck's reconfigurable equipment rack system is aided by the Draco tera's configuration capability. The KVM system administrator can rapidly reconfigure the switch to meet the requirements of the forthcoming production project.



## PERFORMANCE

“ The Draco tera compact switch was extremely simple to integrate in the OB truck and delivers video and data with no latency that can be changed instantly by the operators, for a truly flexible and efficient workflow.

Michiel Spaepen, ProjectBuilders



## CONFIGURATION

**Vehicle:** OB14  
**Specification:** Expanding, 12 m long, 12 cameras  
**Capability:** All resolutions to 4K/UHD + HDR  
**KVM system:** 32-port Draco tera compact matrix switch, Draco vario and compact extenders



## KVM SYSTEM

OB7 and OB8 each house 32 production staff in comfortable, efficient and highly-productive environments. Deployed on sporting, entertainment, music and industrial assignments around the world, the vans use 32-port Draco tera compact switches to help operators and production staff create the best possible broadcast content.



## PERFORMANCE

“ The products developed by TV Skyline are unique in the world and manufactured in-house. The systems deployed in OB7 and OB8 enable us to offer our clients customized production concepts in every project.

Laurent Schiltz, CTO



## CONFIGURATION

- Vehicles: OB7, OB8
- Specification: Expanding, 16 m long, 26 cameras
- Capability: All resolutions to 4K/UHD + HDR
- KVM system: 32-port IHSE Draco tera compact matrix switch, Draco vario extenders

With over 25 years of high quality TV production, TV Skyline has evolved to become one of Germany's leading outside broadcast operators as well as an innovative manufacturer of speciality cameras and systems.

The company is an innovator and recognised leader in the provision of high-quality television and broadcast services.



Launched in 1997, Hunan TV has developed into China's second most-watched satellite channel with over 200 million viewers every day. With strategic relationships with global broadcast organisations, including the BBC and Lionsgate Films, Hunan TV is rapidly evolving and growing to better serve TV viewers in the region.

Hunan's newest OB van was built by Projectbuilders in Belgium and produced by Sony to a conceptual design proposed and developed by Hunan TV.



### KVM SYSTEM

The Draco tera compact switch is integrated with the VSM broadcast control system to enable operators to access the suite of onboard broadcast tools, including Sony PWS and EVS XT3 servers and Riedel and Lawo broadcast devices.



### PERFORMANCE

“IHSE equipment has proven itself to be stable, powerful and reliable. It has enabled a flexible work environment in the Hunan TV OB van. The users benefit greatly from working with it.”

Hui Du, Solutions Manager, Sony Professional Solutions Group



### CONFIGURATION

- Vehicle: OBVAN
- Specification: Expanding, 13 m long, 20 cameras
- Capability: All resolutions to 4K/UHD
- KVM system: 32-port Draco tera compact matrix switch, Draco vario extenders



## KVM SYSTEM

At each workstation terminal the operator has full instantaneous interactive control of all the broadcast equipment on the van. USB HID, USB 2.0, RS232 signals and audio feeds are also accommodated to ensure that all technologies and equipment are managed; reliably and effectively.



## PERFORMANCE

“ The truck is highly versatile and includes powerful technology that delivers the highest level of quality. With the Draco switch we can perform all routing and switching tasks, including multi-screen replication in a single compact unit, saving weight and space.

Jan de Pijper, Managing Director



## CONFIGURATION

- Vehicles: OBV5, OBV6
- Specification: Expanding, 10 and 12 m long, 12 cameras
- Capability: All resolutions to 4K/UHD
- KVM system: 32-port Draco tera compact matrix switch, Draco vario extenders



Facility House Broadcast Group is the Netherland's newest full-service facility management company for the television industry and already one of the most highly respected providers in their home market.

Facility House offers video, film and production services for news and documentaries, music concerts, reality, drama and educational programs as well as all types of sports events.

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