

MODULAR AND FLEXIBLE DRACO KVM SOLUTIONS

ihse.

SECURE
KVM SYSTEMS
FOR FUTURE
MOBILITY IN
SMART CITIES

COMPUTER ACCESS AND CONTROL FOR SMART CITY CONTROL CENTERS

THE SMART CITY OF THE FUTURE

Cities of the future will be much smarter, with a greater emphasis on technology to control, monitor and manage urban passenger transport networks. The aim is to provide a safer, more sustainable and efficient experience for passengers and network operators. Achieved through the use of artificial intelligence, data analytics, passenger management, network monitoring and automated routing and other techniques and technologies yet to be devised.

Human oversight and supervision of autonomous systems will still be required, with controller intervention necessary in some situations for crisis management and emergencies.



IHSE KVM switching technology connects network controllers and supervisors to the banks of computers running automated smart applications. Individual selection of critical data streams ensures that operators can access the most pertinent information at all times and support the systems running the whole transport network.

KEY BENEFITS OF DRACO KVM SOLUTIONS

- **Instant switching flexibility**
Operators can select and interact with any computer-based control and information system.
- **High quality data transmission**
Negligible data transmission delay with lossless image and sound quality.
- **Secure and reliable**
Designed for 24/7 mission-critical operation with total security. Back up and redundancy features and hot-swap of components.
- **Multiple video and data modes**
Supports all common video formats, resolutions and data interfaces.
- **Future proof**
Modular design allowing customized solutions for future expansion and new technologies.



ESSENTIAL INFORMATION, SIMPLE ACCESS

Operators and network supervisors choose the information they need. Multiple streams of information are accessed using a single keyboard and mouse to minimize desktop clutter and simplify network management tasks in a stressful environment.

Essential data can be shared between operators and displayed on common videowalls using simple and fast switching routines. Every operator has the information needed right in front of them.

Draco vario Extenders



Transmit keyboard, video and mouse signals between computer and user workstation for point-to-point, long distance extension.

Draco tera KVM Matrix Switch



Used in conjunction with **Draco vario** extenders to add flexible and convenient switching between computers. Allows operators to choose and instantly connect to any connected source device.

Draco tera IP Gateway & Draco SIRA



Adds connectivity between users, computers and KVM switches across TCP/IP connections and networks, without compromising the high level of data security inherent in **Draco tera** technology.

FLEXIBLE AND RELIABLE SOLUTIONS FOR SMART CITY CONTROL CENTERS

A KVM switch allows any data signal to be displayed on any screen. Control room operational staff can select the detailed information they require at every moment of their working day, instantly changing between sources and applications at will. KVM technology provides full flexibility and enables operators to select the critical information they need to ensure that the network operates with complete safety and utmost reliability.

The modular **Draco tera** system includes extensive backup and redundancy capabilities enabling network infrastructures to be constructed that meet near-zero downtime objectives.



Draco tera KVM SWITCHES FOR TOTAL CONNECTIVITY

The **Draco tera** switch range extends from 8 to 576 non-blocking assignable ports. With mixed operation over copper and fiber cables, **tera** switches handle all types of digital video together with digital audio and USB connectivity. The **Draco tera** KVM switch delivers visually lossless transmission, instant connectivity and extensive configuration and redundancy options.

The **Draco tera** system includes inbuilt security procedures that maximise resistance to all forms of illicit access and cyber-attack on both closed-network and IP connections.

Draco tera instantly connects and switches operators and controllers to remote CPUs and servers. With no transmission delay or image degradation. It is the ideal solution for today's and tomorrow's control rooms.



IHSE PIONEERS FUTURE SMART CITY CONTROL CENTER FOR AUTOMATED AND CONNECTED DRIVING

IHSE is a major contributor to the ALFRIED project: an automated and connected driving initiative for inner-city logistics, founded by the German Federal Ministry for Digital and Transport (BMDV).

The company is responsible for the development of a Smart City control center that amalgamates and presents large amounts of data from the traffic and urban infrastructure to controllers. This data is used to enhance the local mobility data space for the Friedrichshafen region and to generate optimal traffic routes leading to an efficient inner-city traffic flow model.

The inherently secure IHSE technology will also be used to explore with the various data owners the most appropriate method of security to guard against cyber-attacks.



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