



WHEN KVM
SPECIALISTS
CONNECT

STRONGER TOGETHER

kvm tec

"ihse.

- IHSE is a leading global technology provider for KVM solutions (keyboard, video, mouse)
- IHSE offer modular and future-proof KVM solutions via proprietary network protocols
- Applications particularly in mission-critical areas such as air traffic control, control rooms and in the utilities and transport sector
- IHSE is based in Oberteuringen, Germany with subsidiaries in the USA, Singapore and China







- kvm-tec is a cutting edge provider of KVM-over-IP solutions offering great flexibility and lower-cost implementation
- kvm-tec enable the high-performance, latency-reduced transmission of the signals via the standard IP protocol in existing networks
- KVM solutions over the standard IP protocol are increasingly being deployed in industrial applications, broadcasting, post-production and the public sector
- kvm-tec is based in Tattendorf, Austria

QUOTES FROM OUR MANAGEMENT TEAM

With kvm-tec's IP-based product portfolio we are strengthening our strategic competitive position in the market for further growth. Now we offer the right KVM solution for every customer requirement. Our joint technology platform also means we are reinforcing our innovation capabilities in a rapidly changing market.

Dr. Enno Littmann CEO, IHSE By expanding our product portfolio, we can offer our customers a one-stop-shop approach and expand our global reach. The two companies form a perfect synergy and will undoubtedly be stronger together.

Michael Spatny CSO, IHSE Since kvm-tec was founded some 15 years ago, we have continuously developed the technology behind our KVM-over-IP products which complement perfectly IHSE's proprietary portfolio.

Ing. Dietmar Pfurtscheller, Founder and CEO, kvm-tec We are confident that we have found the right partner with IHSE to support our ongoing growth. With its global footprint and KVM expertise we are well positioned to become a 'KVM Global Powerhouse'.

Ingrid Pfurtscheller MSc Head of Sales and Marketing, kvm-tec We are delighted that our technology group is continuing to grow with the acquisition of kvm-tec by IHSE. We make Mittelstand champions even better, even stronger, even more successful - this is exactly what Brockhaus Technologies stands for. We support our subsidiaries with our network and our expertise, and are a reliable partner for acquisitions.

Marco Brockhaus CEO, Brockhaus Technologies

CONNECTING BOTH WORLDS - ONE STOP HOMOGENEOUS SOLUTION



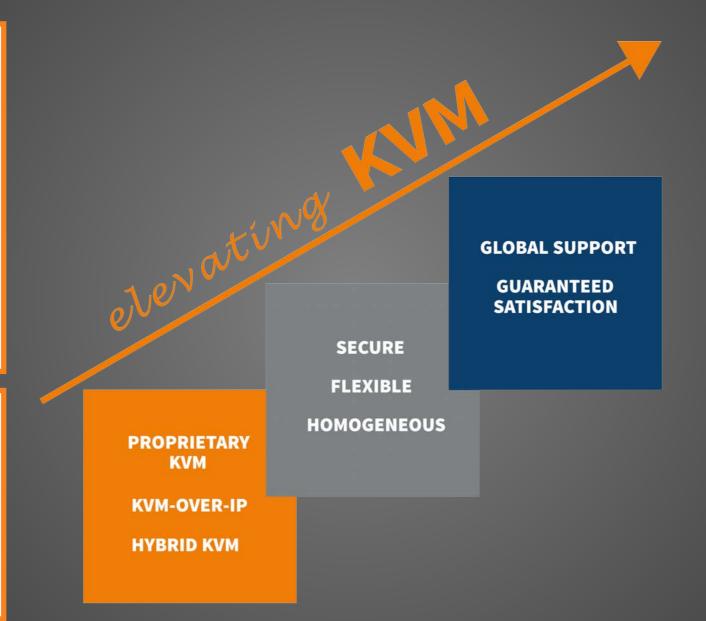
REASONS FOR THE PURCHASE OF KVM-TEC

- IHSE identified kvm-tec as a rising company in the KVM-over-IP market
- With IHSE's extensive experience and know-how, kvm-tec's devices can be improved even further
- With the support of IHSE's sales channels, kvm-tec products can be distributed faster and more widely
- IHSE can use the KVM-over-IP possibilities to offer hybrid systems and a one-stop-shop approach
- Numerous synergies of both companies can be used and maximized (e.g. purchasing and production)



WHAT DOES THIS MEAN FOR THE IHSE PORTFOLIO?

- kvm-tec's KVM-over-IP is an add-on to IHSE's product portfolio: classic proprietary KVM technology is complemented by KVM-over-IP
- Homogeneous interoperability of proprietary,
 IP-based and hybrid platforms allow for a streamlined applicational offering





- Existing systems can be seamlessly extended with IP
- Offering the best solution for the customer, fully adapted to their requirements
- Increased flexibility of signal management and infrastructure: homogeneous, hybrid systems
- Advanced and innovative products designed to meet the specific needs and applications of customers
- Generate clear advantages by combining both approaches in one system
- One-stop-shop approach allows the customer to stay with their preferred and proven provider now offering both systems
- Combining the sales and technical organizations lead to improved customer satisfaction
- Possibility to seamlessly connect KVM systems through compatible products



HISTORIC MILESTONES AND ACHIEVEMENTS

1984 Foundation of IHSE GmbH

1988 Introduction of first KVM extender 2009 Foundation of IHSE USA 2011
Start cooperation with
Fraunhofer Institute

2015
100% ownership of APAC/
Singapore based representation &
World's first KVM matrix switch
with 576 I/O-ports

2019
Relocation to new HQ & production facility & Introduction of IP-enabled solution & Buy-out by Brockhaus Technologies AG

2021 Foundation of IHSE China

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2001 First OEM partnership

2010 Introduction KVM matrix switch Draco tera 2013
Foundation of IHSE APAC

World's first matrix grid architecture for dynamic coupling of KVM matrix switch

2016
Rrockhaus Pri

Brockhaus Private Equity acquires majority shareholding

2020

IPO Brockhaus Technologies AG & Launch Draco MultiView 4K60

2021
IHSE acquires
a majority
stake in
kvm-tec
Holding GmbH

1987

Foundation of Ing. Dietmar Pfurtscheller's company

1990s

Development of graphics cards with high performance and industry leading Pecad Hurrican graphics card 2004

Start of development of video signal transmission

2017

Relocation to new kvm-tec HQ facility

kvm-tec P

1980s

Development of desktop publishing monitors for Nixdorf

Mid 1990s

Development of industrial video converters

2005

Renaming into kvm-tec electronic GmbH

2018

Establishment of sales departments in the US and China



KVM-OVER-IP TECHNOLOGY BY KVM-TEC

KVM-over-IP enables the connection to existing KVM systems and remote workplaces.

Remote (Console Unit)

Decodes video and audio data that comes from PC's and delivers native signals to peripherals via onsite cable.

> Encodes input signals from the peripherals and sends them to the computers.

. Video / Keyboard and Mouse are connected to the remote (console) unit.

bandwidth for 4K.

SWITCH

Work Stations



Work Stations

••••• Standard Network Switches for superfast switching without time lag from every workstation to every computer. With up to 2000 endpoints and 1GB bandwidth for Full HD and 10 GB







CPU (Local) Unit

Encodes video, audio and data signals from the source and sends them via onsite cables to the console (remote) unit.

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Decodes audio and data from the input devices at the workstation and sends them to the computer.

WHY KVM OVER IP?



FLEXIBILITY

- Compatible with standard network switches
- Up to 2000 endpoints
- Flexible with Full HD and 4K in one system
- Redundant, uncompressed
- Latency time 0,47 ms
- In-house development Patent pending USB 2.0 implemenation



SECURITY

Dedicated network



COST & ENERGY SAVINGS

- Excellent price-performance ratio
- Ergonomic workspace solutions
- Additional software features
- Low power consumption





PROPRIETARY KVM TECHNOLOGY BY IHSE

KVM technology enables the high-performance separation of workstations and their individual computers.

MORKSTATIONS

KVM SWITCH

Enables direct real-time access at full bandwidth and with maximum video resolution from every workstation to every computer

CPU UNIT EXTENDER

- Encodes video, audio and data signals from the source and sends them via onsite cable to the console unit
- Decodes audio and data from the input devices at the workstation and sends them to the computer

BENEFITS OF KVM



OPTIMIZATION

- Outsourcing of computers
- Direct access
- Latency-free extension of computer signals



- Longer service life
- Jointly used resources
- Total cost of ownership
- Green KVM: low power consumption, ergonomic workspace solutions



CONNECTIVITY

- Signal distribution
- Signal interconnection
- Signal extension
- Signal conversion



REDUNDANCY

Constant availability



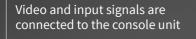
- Access control
- Complete isolation



- Fail-safe
- Highly critical areas







VIDEO AND KEYBOARD



- Decodes video and audio data that comes from computers and delivers native signals to peripherals via onsite cable
- Encodes input signals from the peripherals and sends them to the computers



ATV Privat TV GmbH & Co KG

The Austrian television channel of ProSiebeSat.1 Media SE.



Cirque du Soleil Los Angeles, USA

Cirque du Soleil provides an unparalleled experience with fascinating shows and events around the world.



Northeast China Power **Grid Company**

A branch of China State Power Grid which provides energy to the northeast of China.



BBC One

The flagship television channel of the BBC airing across the UK. It is the oldest and most popular TV channel in the country.



Space Science Industry

China Academy of Space Technology (CAST)

Dedicated to the exploration of space, it is CAST's mission to use the most advanced space technology for the benefit of mankind.



Shanghai Gaogiao

Shanghai petrochemical company is one of the top 10 petro chemical companies in China refining more than 10 million tons of oil per year.



China Central Television Station (CCTV)

One of the largest TV channels in the world producing top news around the world.



ORF

With 4 TV channels and 3 radio channels, it is the largest and only national public service broadcaster in Austria.



DOHA Film Institute

The national museum of Qatar was inspired by the "desert rose", a crystal cluster found in the Qatari desert.











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