

AUTOMATION & INDUSTRIAL IT

SIMATIC S5 S7 HMI IPC – OPC Servers – S5/S7 Adapters Industrial Computers & Monitors – Servo Motors Data Archiving Systems – Reporting – Alerting

DISTRIBUTION - SERVICES - TRAININGS

CASE STUDY:

KVM extenders in a paint shop (automotive industry)

Need

One of the leading car manufacturers needs to use a panel with dedicated software in its paint shop. Due to the difficult conditions in the paint shop, placing a computer there is quite risky. The safe zone (with friendlier conditions) is several dozen meters away. It is too far to mount just a monitor in the paint shop and connect it to a computer located in a safe zone, because the maximum distance for video cables is 15 meters and for USB (touch screen) 5 meters.

Solution

The solution turned out to be KVM extenders, the devices that transmit video signals (HDMI, DVI, DisplayPort, VGA) from PC to the monitor and USB signals (e.g. from the keyboard, mouse, touch screen) to the computer over long distances.

Extenders from the Austrian company **kvm-tec** were selected.

Specifically the **smartEASY Single** and **smartEASY Dual** models of the Easyline series.



smartEASY Single





smartEASY Dual

These devices transmit the DVI signal (or HDMI/DP through an appropriate adapter) from the computer to the monitor over a distance of up to 100 meters over an Ethernet cable (twisted pair) CAT.5e/6/7 or more using a switch or repeater.

And all this without loss of image quality and without any delays!

INEE Sp. z o.o. | ul. Kasztanowa 2D, 44-144 Kuźnia Nieborowska k/Gliwic | NIP: 969-149-36-87 (VAT UE: PL9691493687)



AUTOMATION & INDUSTRIAL IT

SIMATIC S5 S7 HMI IPC – OPC Servers – S5/S7 Adapters Industrial Computers & Monitors – Servo Motors Data Archiving Systems – Reporting – Alerting

DISTRIBUTION - SERVICES - TRAININGS

The **smartEASY Single** model allows you to connect to **1 remote monitor** and additionally **use the monitor locally** (at the computer).

PC	MONITOR / TV	local	100m CAT. 5e/6/7		MONITOR / TV
·	DVI/HDMI/DP USB		smartEASY Single	4x USB	

More information:

https://www.kvm-tec.com/en/overview-products/easyline-full-hd/smarteasy-full-hd-kvm-extender/smarteasy-single

The **smartEASY Dual** extender enables connection to **2 remote monitors** (2-monitor workstation).



More information:

https://www.kvm-tec.com/en/overview-products/easyline-full-hd/smarteasy-full-hd-kvm-extender/smarteasy-dual

The final effect

After using KVM extenders, the customer can place any computer in a control cabinet in the clean zone, and leave only the monitor and the remote KVM unit in the paint shop. This will allow for long, stable and failure-free operation of the computer.

The client uses several dozen pairs of devices (sets) for 1:1 connections - permanent connection.

However, it is also possible to connect the extenders into a network and create a network KVM switch.

INEE Sp. z o.o. | ul. Kasztanowa 2D, 44-144 Kuźnia Nieborowska k/Gliwic | NIP: 969-149-36-87 (VAT UE: PL9691493687)



AUTOMATION & INDUSTRIAL IT

SIMATIC S5 S7 HMI IPC – OPC Servers – S5/S7 Adapters Industrial Computers & Monitors – Servo Motors Data Archiving Systems – Reporting – Alerting

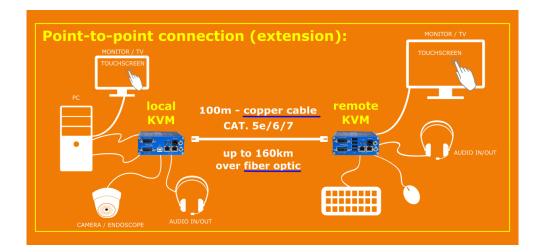
DISTRIBUTION - SERVICES - TRAININGS

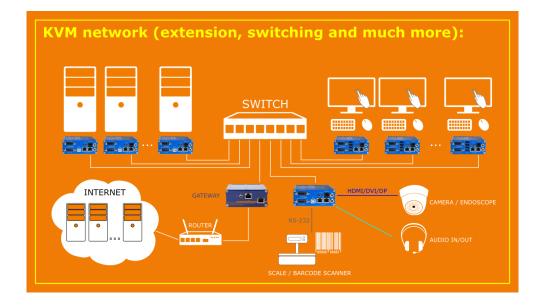
More about KVM-TEC / IHSE extenders

KVM-TEC, together with IHSE, offer many models of KVM extenders, including USB extenders, 4K extenders, Gateway enabling remote access to computers and virtual machines (also via the Internet), as well as complete KVM network systems with software for connection management.

These devices are used in television and radio stations, airport control towers, railway traffic control centers, power plants, hospitals, production halls and even conference rooms.

Extenders can be used both as a simple point-to-point connection and in a network with the ability to switch between devices, duplicate images, create groups and users, and much more.





www.inee.pl

www.kvm-tec.com

www.ihse.com

Article about KVM: (in Polish)



INEE Sp. z o.o. | ul. Kasztanowa 2D, 44-144 Kuźnia Nieborowska k/Gliwic | NIP: 969-149-36-87 (VAT UE: PL9691493687)