DIGITAL COMPUTER LAB SYSTEMS

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Educational and
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DIGITAL COMPUTER LAB SYSTEMS

alphadidact® Digital

alphadidact® Digital is a digital, PC-based educational system whose core function is high-resolution image transmission of screen contents in real-time.

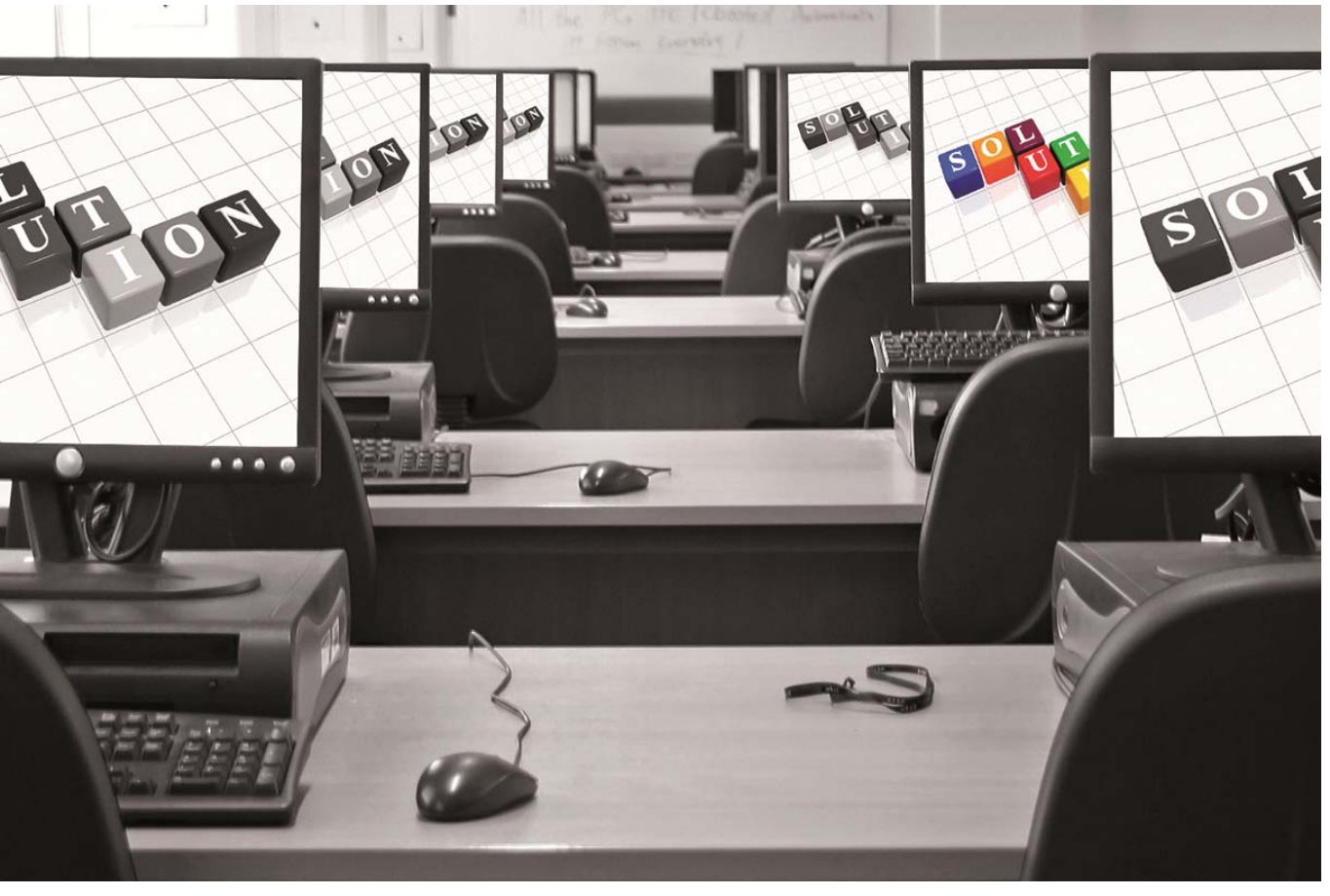
A multimedia educational system facilitates cross linking in a computer lab. It also works as central control of monitors, PCs, keyboards, mice, cameras, projectors, tablet PCs etc.

Objective of a centrally controlled multimedia system is the support of teachers during training sessions. Numerous functions have been designed specifically to aid a visually supported training, to actively integrate participants into the training, and to direct their attention.

EBS has been developing, manufacturing and installing their hardware-based educational systems for more than 25 years, and can show numerous references from all over the world.

Flexibility, quality and reliability especially distinguish our educational systems which allows the use in diverse areas of application.

BUSINESS USE



Automotive Industry – Chemical / Pharmaceutical Industry – Software Development – Power Industry – Telecommunication

Continuing education and high-class training of their own employees are the basis for a skilled and successful work performance for any enterprise.

With the help of a targeted image transmission a qualified PC training can be conducted efficiently.

For example: The lecturer transmits his/ her screen to all students, while a single student's screen can be displayed in parallel on the projection screen for comparison.

alphadidact® Digital systems exploit the possibilities and quality of high-resolution digital technology. Even highest screen resolutions (Full HD as well as 1920 x 1200) are transmitted accurately and in real-time.

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GOVERNMENT AGENCY USE

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A multitude of technologies (PC, notebook, projector, tablet PC, camera, document camera/ visualizer ...) make it hard for trainers and lecturers to use these media effectively or in combination.

Working with sensitive data (either personal or security-relevant data) also requires an environment that does not allow for any security gaps.

alphadidact® Digital, as a hardware-based training system, operates completely independent of any network, operating system or software.

Government Agencies / Authorities – Law Enforcement Agencies – Armed Forces – Embassies

EDUCATIONAL USE

Effective use of class time and control of attention during computer training courses can be optimized with the alphadidact® training systems.

Teachers, lecturers and trainers as well as students can focus on the essentials – the training content.

Schools – Community Colleges - Colleges – Universities – Training Centers – Adult Education Centers – Technology Centers

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USE IN MEDICINE AND RESEARCH

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Microscope / Dental Laboratories (Medical / Dental Schools) – Classrooms - Auditoriums - Lecture Halls – Autopsy Labs

When working with microscopes and cameras in medical education and research, a visual demonstration is of the utmost importance.

With the alphadidact® Digital system individual camera or microscope images can be broadcast to other work stations or a projection screen. By pressing one button the lecturer controls which image is to be displayed on which monitor, large display or projector, so that work progress and results are visible to all.

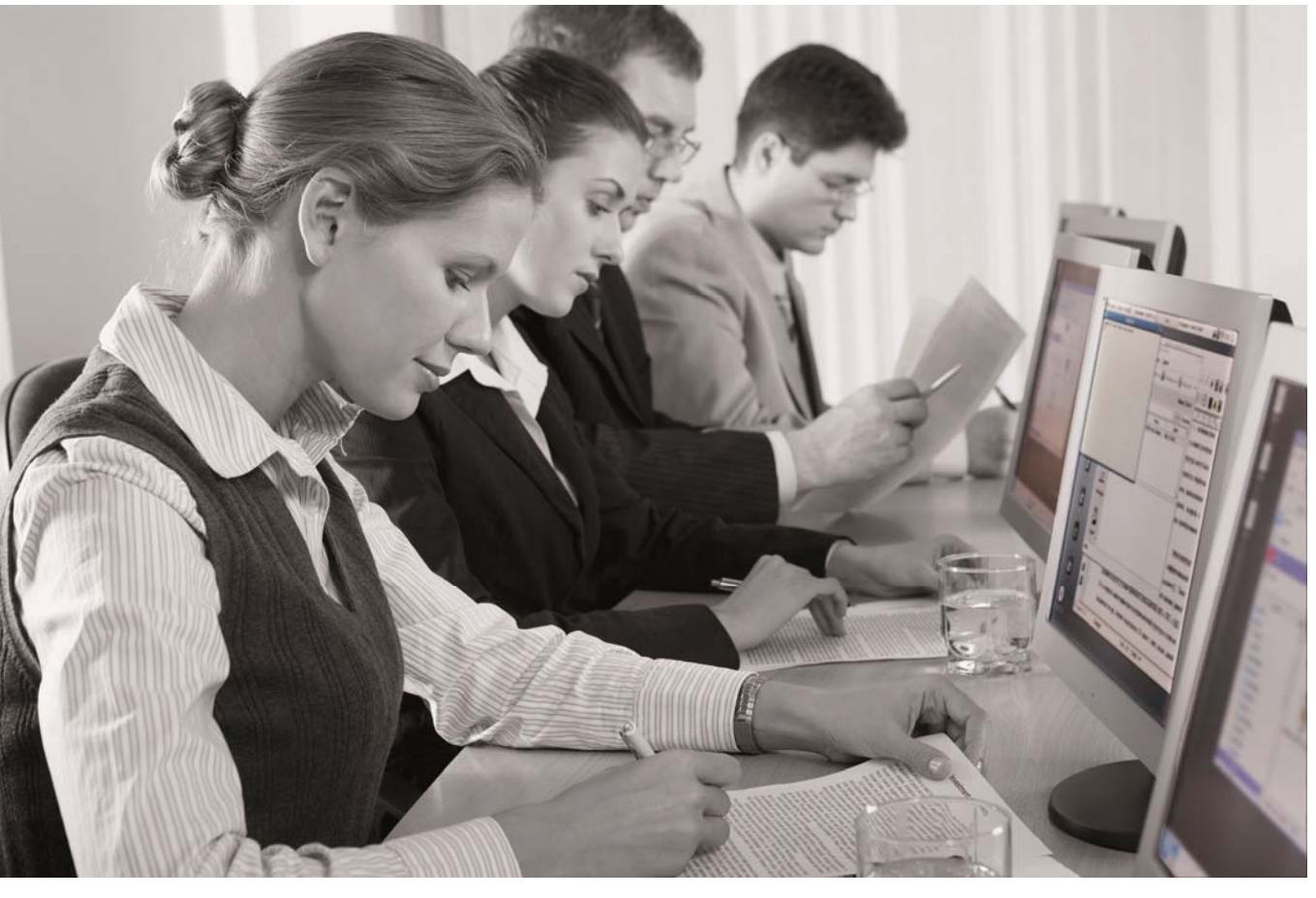
Alternatively, an educational film can be shown on all monitors, and each student profits from best possible viewing conditions.

Via the ScreenStudio feature the work progress of each individual student can be recorded, digitized and distributed.

USE IN BANKING AND FINANCE

When working with highly sensitive data in the banking and financial sector, the PC education and training must fulfill the highest requirements in terms of data security, reliability, and efficient use.

When transferring images to the monitors or a projector, the alphadidact® Digital training systems operate completely independent of existing data networks (LAN). Only this way 100% data security and network performance is guaranteed.



Banks – Mutual Savings Banks – Insurance Companies – Electronic Data Processing Centers (EDPC) – Tax/ Fiscal Authorities

USE IN TRAINING CENTERS

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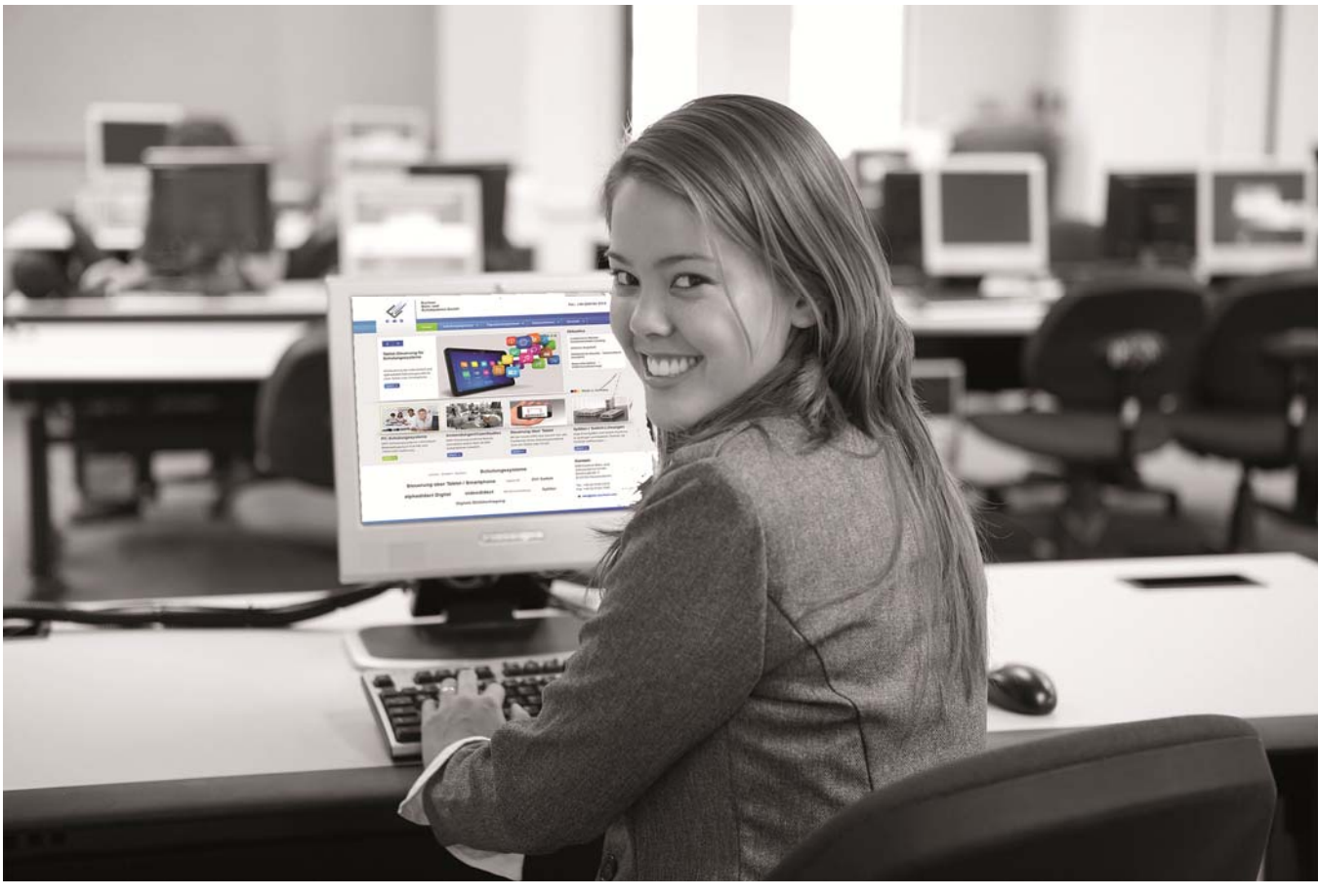
Private training centers have to provide a perfectly functioning and easy-to-use working environment for both their lecturers and trainers, as well as the course participants. External lecturers must also be able to use it as quickly and efficiently as possible.

When working with the alphadidact® digital system the trainer can, at the push of a button, transmit screen images in native resolution (*pixel perfect)* at highest resolution, regardless of the operating systems and training content that are being used.

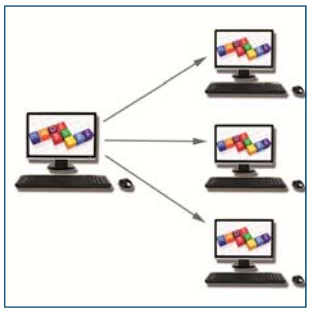
A transmission of sound can also be made simultaneously during the transmission of screen images. The trainer can also support the participants by accessing their keyboard and mouse.

CAD/CAM Trainings – Language Courses – PC Trainings – User Trainings

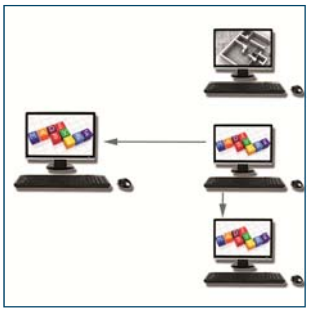


IMPORTANT FEATURES AT A GLANCE

Basic Functions: Image Transmission



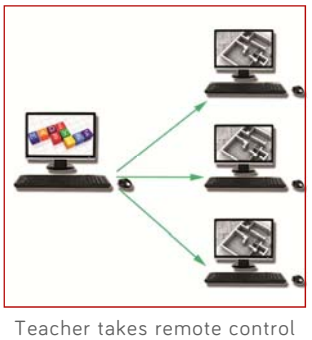
Teacher screen
to all student screens



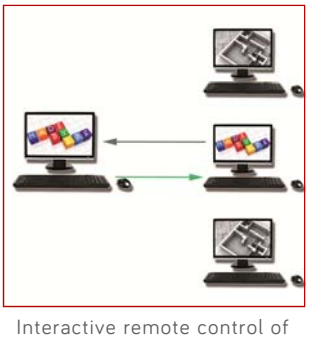
Student screen
to teacher screen,
as well as other
select student screens

Blanking of
all student screens

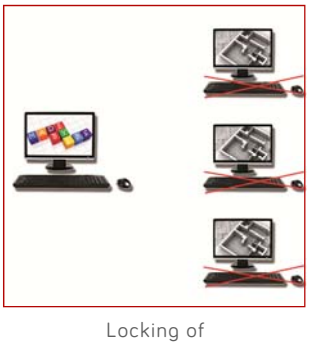
Optional Functions: Remote Control & locking of Student´s Keyboards and Mice



Teacher takes remote control
of all student´s keyboards
and mice
(administrator´s rights)



Interactive remote control of
a single student´s keyboard
and mouse by the teacher
(support function)



Locking of
all student´s keyboards and
mice by the teacher

Optional Function: Integration of Peripheral Devices (e.g. Projector, Laptop, Tablet, Camera, Visualizer, Loudspeaker etc.)

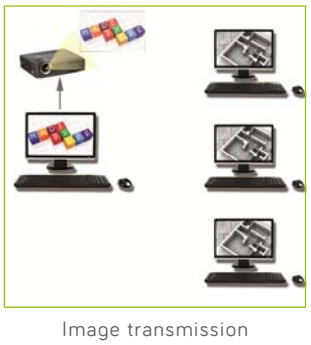


Image transmission
from teacher screen
to projector

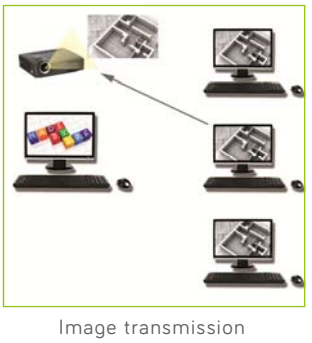


Image transmission
from a single student screen
to projector

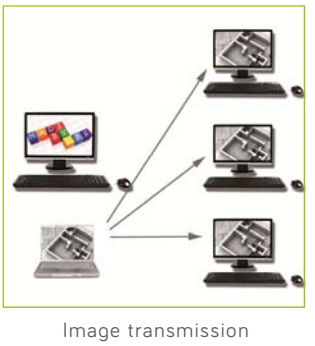


Image transmission
from a notebook
to all student screens

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alphadidact® Digital STAR

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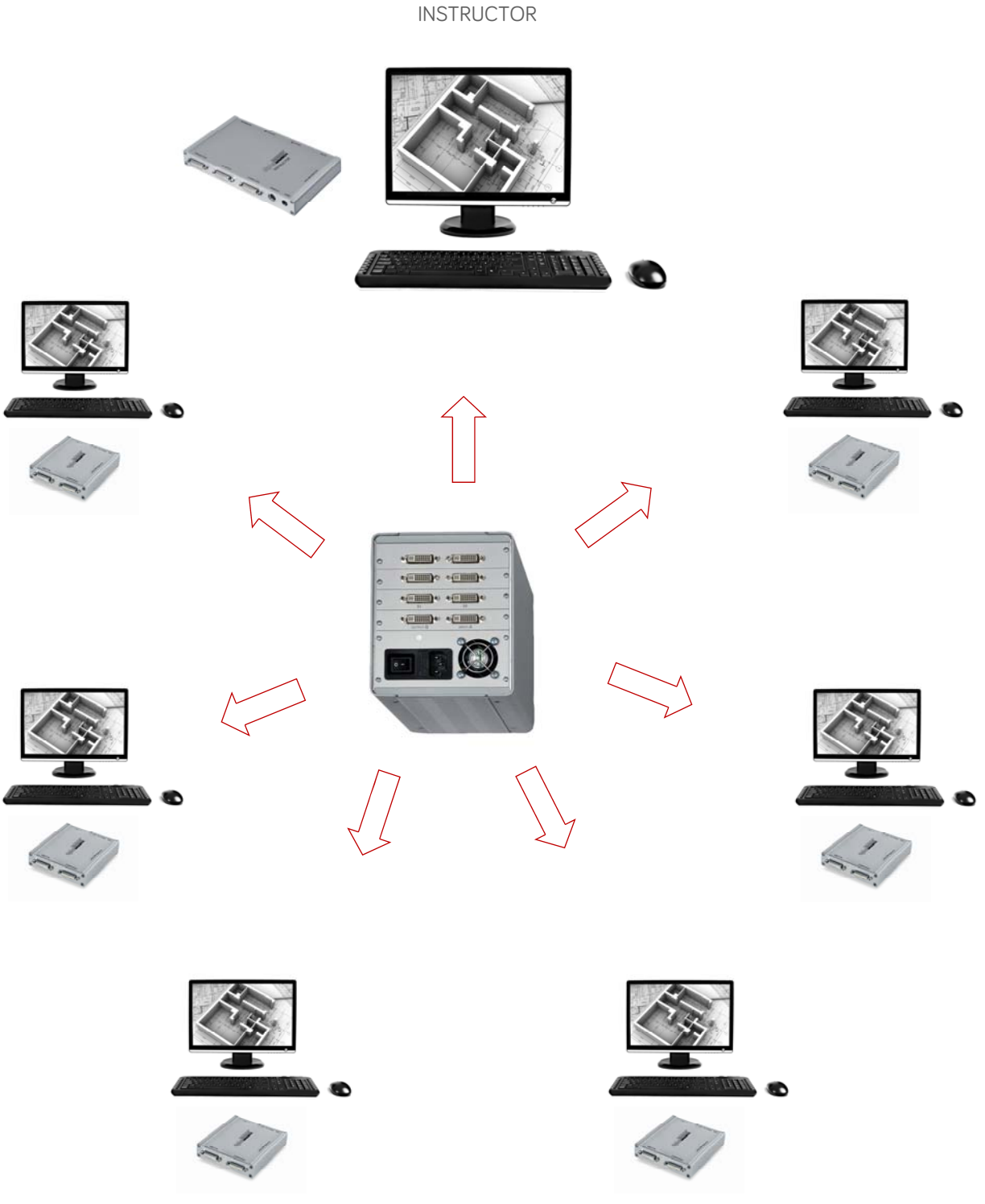

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TOP QUALITY AND RELIABILITY

Technical Setup/ Configuration	• STAR topology • DVI port – screw-mountable connectors for reliable contact • compatible with HDMI and DisplayPort • teacher and student connections via external digital connection boxes • high operational reliability (complete functionality of connected workstations guaranteed, even when our system is turned off) • point-to-point connection for high transmission quality • flexible configuration choices (star, satellite, system-coupling) • customizable to fit individual room requirements • eco-mode: No power consumption by alphadidact system while PCs are switched off
Seating Chart Display	• individual seating charts displayed on system keyboard or tablet PC (function keys are customized and labelled for each seat according to room layout)
Features	• entirely digital screen transmission via DVI-D Dual Link Technology • resolution up to 1920 x 1200, as well as Full HD (1920 x 1080) • pixel perfect transmission – without compression! • real-time image transmission – without time lag • blanking of all student screens while automatically locking keyboards and mice • video scan function (monitoring) • 'advanced function' allows for simultaneous operation of notebook PC and projector • comparative presentation of student and teacher image • simultaneous transmission of notebook image as well as instructor-PC image • simultaneous transmission and reception of DVI-signal at teacher PC • Interface for multimedia projectors, notebook + tablet PCs, multimedia hard drives, microscopes, digital cameras, document cameras/ visualizers, head sets, speakers, etc.
Possible Functions	• teacher transmits his/her image to an individual student/ a group of students, or all • one student transmits his/her image to another student/ a group of students, or all • teacher can retrieve image from a single student's screen to view on his/her own screen
Operation/ Use	• execution of each function is intuitive and carried out with just one touch of a button • system operation via keyboard or tablet PC • simultaneous operation possible via keyboard or tablet PC

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alphadidact® Digital RING

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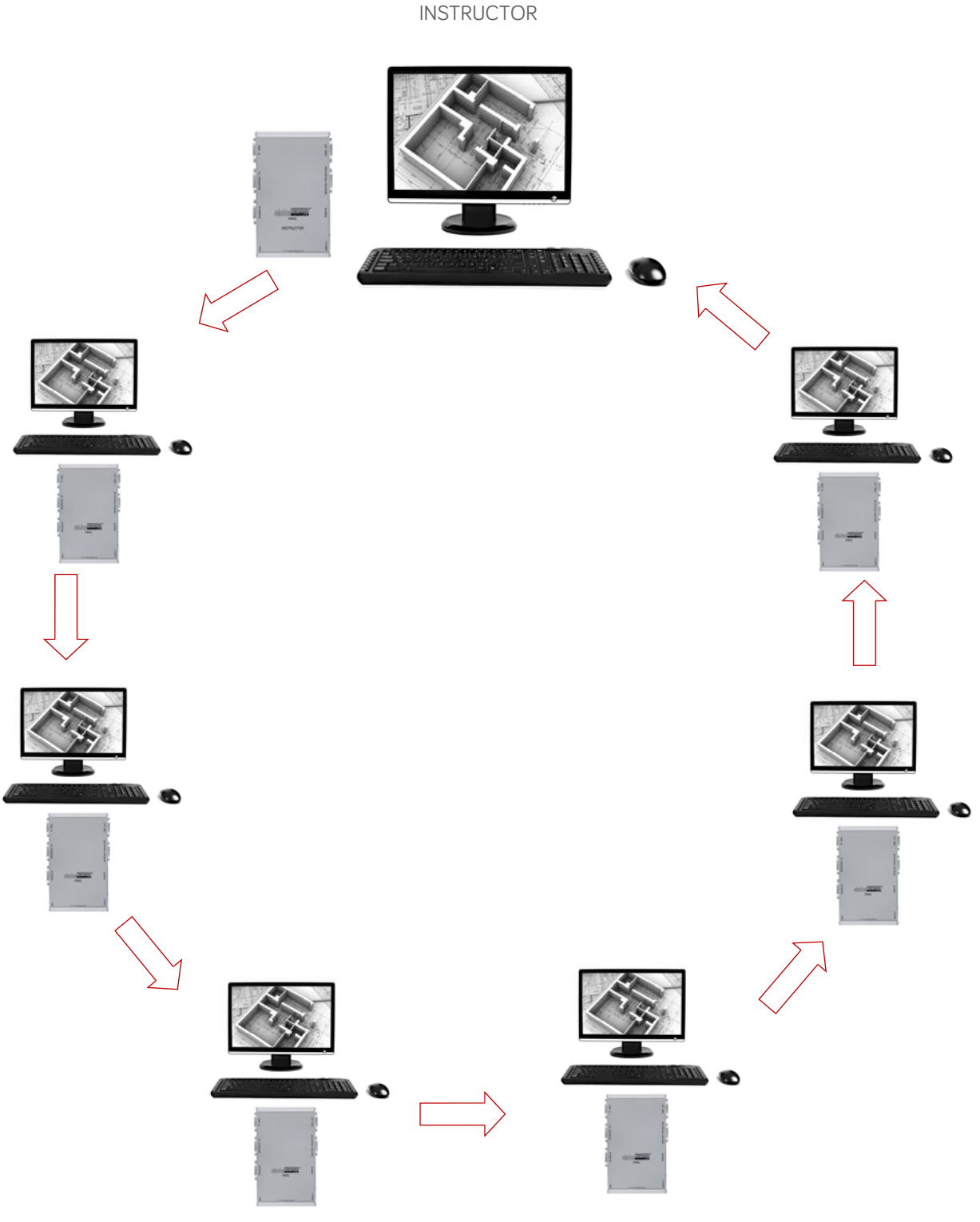

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COMPACT AND POWERFUL

Technical Setup/ Configuration	• **RING topology** • DVI port – screw-mountable connectors for reliable contact • compatible with HDMI and DisplayPort • teacher and student connections via external digital connection boxes • high operational reliability (complete functionality of connected workstations guaranteed, even when our system is turned off) • high transmission quality • data signaling rate in real-time – without time lag • flexible configuration choices - customizable to fit individual room requirements • permanent self-diagnosis of ring system via ping signal and appropriate feedback via system keyboard • eco-mode: No power consumption by alphadidact system while PCs are switched off
Seating Chart Display	• individual seating charts displayed on system keyboard or tablet PC (function keys are customized and labelled for each seat according to room layout)
Features	• entirely digital screen transmission via DVI-D Dual Link Technology • resolution up to 1920 x 1200, as well as Full HD (1920 x 1080) • pixel perfect transmission – without compression! • data signaling rate in real-time – without time lag • blanking of all student screens while automatically locking keyboards and mice • video scan function (monitoring)
Optional Features	• 'advanced function' allows for simultaneous operation of notebook PC and projector • comparative presentation of student and teacher image • simultaneous transmission of notebook image as well as instructor-PC image • simultaneous transmission and reception of DVI-signal at teacher PC • Interface for multimedia projectors, notebook + tablet PCs, multimedia hard drives, microscopes, digital cameras, document cameras/ visualizers, head sets, speakers, etc.
Possible Functions	• teacher transmits his/her image to an individual student/ a group of students, or all • one student transmits his/her image to another student/ a group of students, or all • teacher can retrieve image of single student´s screen to view on his/her own screen
Operation/ Use	• execution of each function is intuitive and carried out with just one touch of a button • system operation via keyboard or tablet PC • simultaneous operation possible via keyboard or tablet PC

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alphadidact® Digital CONFERENCE MASTER

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ONE KEY TO SHOW A PRESENTATION

Technical Setup/ Configuration	• CONFERENCE MASTER • RING topology • DVI port – screw-mountable connectors for reliable contact • compatible with HDMI and DisplayPort • instructor and participant connections via external digital connection boxes • high operational reliability (complete functionality of connected workstations guaranteed, even when our system is turned off) • high transmission quality • data signaling rate in real-time – without time lag • eco-mode: No power consumption by alphadidact system while PCs are switched off
Features	• entirely digital screen transmission via DVI-D Dual Link Technology • resolution up to 1920 x 1200, as well as Full HD (1920 x 1080) • pixel perfect transmission – without compression! • data signaling rate in real-time – without time lag
Operation/ Use	• One key per participant • Each participant decides for him-/ herself when to start his/ her presentation and the transmission of his/ her image

The alphadidact® Digital Conference Master system allows each participant in a meeting an individual presentation directly from the notebook or tablet PC.

By pressing one button, each participant can easily and conveniently transfer his/ her notebook or tablet PC signal to a projector or display.

No plugging/ unplugging of computer wires is necessary, all participants can – directly from their seat – start a presentation of their individual solutions.

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EFFICIENT TRAINING COURSES

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Functional diversity with image transfer, interactive remote control and lock, integration of digital media (projectors, notebook PCs, DVDs, microscopes, document cameras/ visualizer, cameras, headsets and speakers for parallel audio transmission)

Transmission of moving images (TV, DVD, internet)
Examples: TV documentaries, educational films on DVD, live stream of the internet

Transmission of **highest resolution** (1920 x 1200) in best quality, no compression

Image transfer in real time, without delay
Example: The instructor presses the button 'ALL' and the screen content of the instructor's screen immediately appears on all participant's screens, live and in full resolution.

Easy to operate, no prior knowledge or user training necessary. The keys are arranged according to the seating arrangement in the classroom (seating plan).

Entirely hardware based, irrespective of existing hard- and software, as well as operating systems

PC contents can not be accessed for safe handling of sensitive data. The monitor signal is tapped at the graphics card.

No extra costs, no administration or maintenance required

No additional network load, and no occupation of storage space

Modular set-up allows for expansion of system at any time

SMALL BOX - GREAT PERFORMANCE

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INDIVIDUAL PRESENTATIONS

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INCREASE LEARNING SUCCESS

alphadidact® Digital educational systems provide ideal educational support for teachers and lecturers during computer-based trainings.

Through intuitive control of the image transmission all digital media in the classroom are centrally integrated, thus ideal viewing conditions are created at each workstation.

Besides the screen content of the lecturer's monitor each participants' individual monitor image can be transmitted. This allows for individual presentation options for all participants, and interactive participation during the training.

Real-time transmission of screen contents ensures maximum flexibility and efficiency. There is no display lag developing, and therefore no hold-up during the training course.

The system keyboard and/or control via tablet PC, on which the respective classroom's seating plan is mapped, grant the lecturer complete freedom of action in the classroom.

The system does not require any further support as it operates completely independent of existing network hardware, operating system and software.

Turn On – Press a Button – Done!

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TABLET CONTROL FUNCTION

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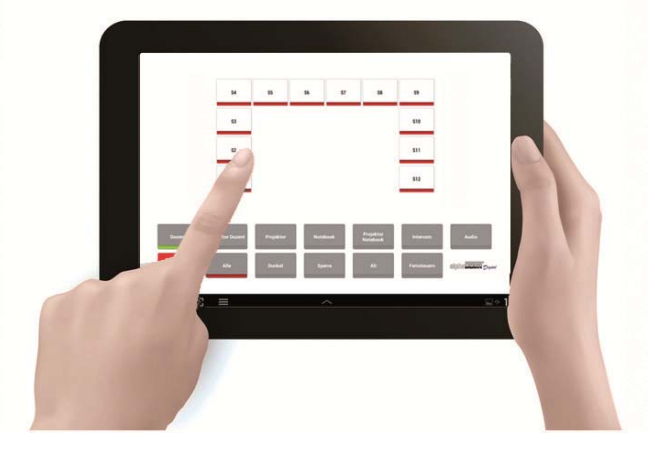
Intuitive and wireless use/ operation of alphadidact Digital educational system via tablet PC or smartphone with the ‘control app’.

The ‘control app’ is pre-programmed with the seating chart according to the classroom layout, but may be adjusted at any time via the built-in function ‘layout creator’.

The alphadidact® Digital manuals are stored and available in several languages. One tablet PC may be used to control several educational systems and classrooms.

The tablet PC can be integrated as an additional signal source for image transmission to all monitors.



REMOTE CONTROL & LOCK FUNCTION

INSTRUCTOR

alphadidact® Digital allows for interactive remote control of students' keyboards and mice (through the teacher).

While under the teacher's 'remote control' the student can still continue to work independently. If necessary, the teacher can interactively engage and collaborate on the student's PC.

In order to increase attention during a training session, the teacher can lock individual or all keyboards and mice of the students.

The administrator function allows access to all work stations simultaneously. That way the administrator can work on all PCs at the same time, for example to replicate an installation image on all devices.

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SCREEN STUDIO FUNCTION

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The screen studio function records the screen content of select participants. The recorded sequences or work progress can be stored, edited, documented and forwarded.

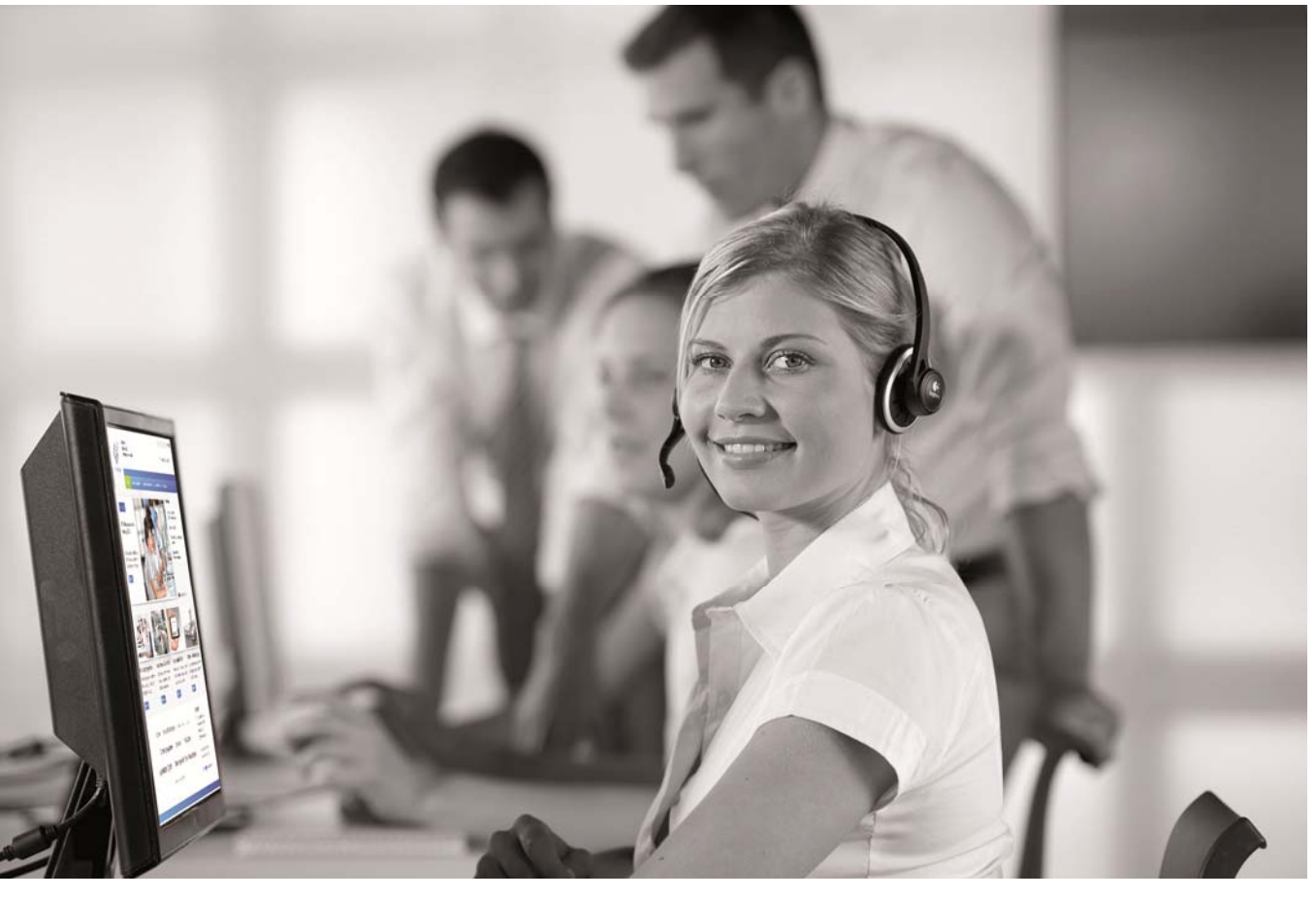
Using the alphadidact® keyboard or the 'control app' the teacher can select any student, and record the corresponding image signal for as long as he/ she desires.

After saving the recorded sequence as a video file (e.g. AVI, MOV format etc.) the 'film' can be made available to all students.

AUDIOLINE FUNCTION

The audio line function turns alphadidact® Digital into a stereo multimedia language laboratory. The voice communication to and from the individual workstations is automatically coupled with the image transmission. Video and audio signals are transmitted simultaneously.

An external stereo sound system (loud speakers) and/ or headphones may be used.



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EBS is manufacturer of the computer lab systems alphadidact® Digital and videodidact® .
Products made in Germany!

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