INSPIRED

THINKING AHEAD

NEW LEARNING

DIGITAL IS BECOMING THE EVERYDAY

PEOPLE
FURNITURE
MEDIA

3

SCHOOL

www.vs.de/en/

THINKING AHEAD

NEW LEARNING

DIGITAL IS BECOMING THE EVERYDAY

PEOPLE
FURNITURE
MEDIA

People are different. Luckily! One of the jobs of schools is therefore to discover and foster the individual talents of children and adolescents - one reason why teachers these days often call their role as learning guides. To the same extent, there is increasingly talk of self-regulated, self-organised or personalised learning

A new learning culture of this kind needs the room concept that supports it. At the same time, new room concepts help to bring about a changing learning culture. Modern digital infrastructure and equipment play an important role in this and are the basis of a holistic solution for future-proof education.

To avoid any misunderstandings: digital media are not a tool that improve education by themselves. As always, people are needed for that. However, alongside knowledge and basic skills, digital media enable children and teenagers to acquire fundamental skills that they need in the **digital age**: networking with others and getting involved in collaborative participative processes. All of this characterises the **school of the future**.

In our room concepts, therefore, we think of people, furniture and media together. This applies just as much to teaching and learning rooms as to areas for teachers. We develop ideas for flexibly designed learning and working rooms in which the analogue and digital world can be brought together.

With their solution-based equipment, these **digital learning landscapes** offer a stimulating and supportive working environment for innovation, participation and the development of potential. An enthusiasm for learning can develop in rooms like this.

Take inspiration from leafing through the following pages. If you want to find out more or would like some advice, please contact us!

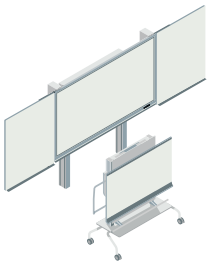
Yours

Holger Englert
Head of Sales IT Solutions

Contents

Our VS Complete Service for You

Planning
Together with you, we identify what you need for your facility. We ask questions, listen and advise.

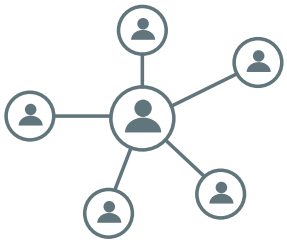


Presentation Technology and Delivery Systems
What presentation technology do you need? From the display and delivery systems to the document camera – we can advise you independently.

Strong Partner
We are not alone. Our partners include Promethean, SMART, Epson and Microsoft.

Project Management
Together with you, we develop a reliable project schedule and timetable for the roll-out.

WiFi Access Points
right places. We survey your building and thus identify their ideal positions.



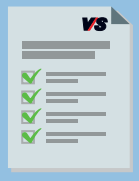
Network
We plan and install the pupils' and the teachers' network for you with all of the components needed, such as switches, gateways and routers.

Support/Hotline
And after the handover, our VS team is still by your side.

Teachers' Workstations & Furniture
Benefit from matching furniture solutions: from the display cabling to the teacher's workstation, pupils' workstations and the organisational system.

Training Courses
Do your staff want to know more? Then, we will be happy to come for workshops. Or show you our self-learning courses.

Commissioning and Instruction
When everything is installed, we commission the system. You therefore receive a working complete solution. If you have any questions, just call our hotline.



Assembly and Installation
We expertly assemble and install everything on site.

Security
Date security is very important to us. We make sure that your data is protected by a firewall.

All height adjustments from VS, even those with an electric motor, have a GS Tested Safety certificate according to DIN EN 14434, which is based on 25,000 adjustment cycles.

The New Age of the Board

Learning is communication and communication needs facilitators or media. This applies to analogue as much as digital communication, face-to-face teaching as much as home schooling or hybrid forms of teaching.

A “board” as a common presentation medium or a medium on which something can be developed, communicated and then shared together, therefore still makes sense in many learning scenarios - even in pure tablet classes. However, these boards should no longer just be the classic black boards or a simple whiteboard. These can be written on in the analogue world - but that's it.

That's why our range includes various interactive boards and displays that can be combined with delivery systems and sometimes with analogue board surfaces. All options for learning and teaching are therefore available.

Interactive Touch Displays and Whiteboards

Three manufacturers are particularly successful in the education sector with their interactive touch displays: VS, SMART and Promethean. Epson is the market leader in interactive projectors for whiteboards. We will be happy to advise you on what is the right model for you.

The integrated board software is one difference: Note on VS, ActivInspire on Promethean and SMART Notebook on SMART. If you need training courses: they're available from us, too. Find out more on page 58.

But the technical equipment of the displays also varies. For example, Promethean and SMART only use infrared technology. As for our own VS displays, we can also offer them with capacitive technology (page 28).

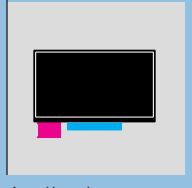
Wall-Mounted or Mobile

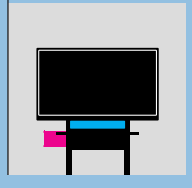
The interactive boards are suitable for everyday use when they are nearly and safely wired. We offer the suitable delivery systems for them: wall-mounted and mobile, with manual or electric motor height adjustment.

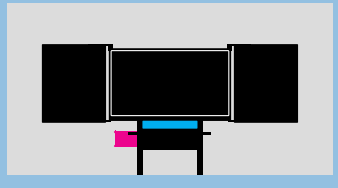
Depending on the delivery system, the digital boards can be supplemented with analogue board side panels or writing surfaces.

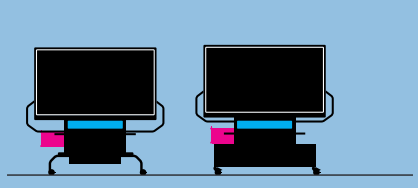
FIX

DELIVERY SYSTEM WITH GAS-SPRING HEIGHT ADJUSTMENT (GF)









Applications
Page 48, 49, 50, 52, 56

Page 12, 22, 23, 24, 25, 37, 53

Page 20

Page 14, 25, 47

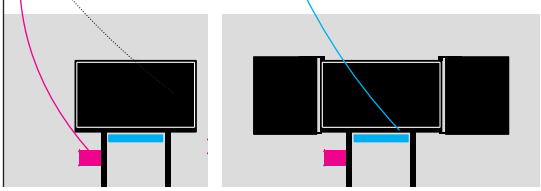
VS, SMART, Promethean
leading manufacturers of interactive touch displays for the education sector. We stock all three.

Board Side Panels
in various colours and with different line patterns or as magnetic whiteboard.

Sound Bar
for a full sound even in large rooms.

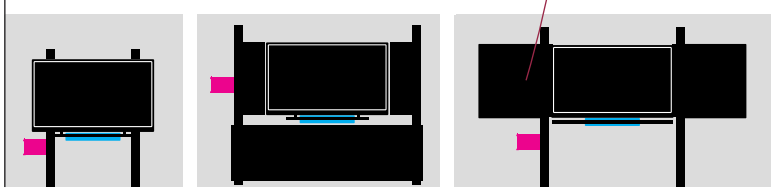
Mini-PC-Halter
to take an external mini PC (Windows).

ELECTRICAL HEIGHT ADJUSTMENT (EL)



Applications
Page 15, 26, 42, 44, 46

COUNTERWEIGHT HEIGHT ADJUSTMENT (GG)



Page 13, 32, 33, 34, 35, 36

The right accessories are what make a digital solution complete. They also help to make digital teaching even more professional.

Mini PC and Slide-In PC

Integrated mini PCs or slide-in PCs (OPS) are recommended to expand the functions of the interactive boards above and beyond the basic functions of the Android operating system. The mini PC is mounted at the side on the delivery system of the interactive displays. The slide-in PC disappears into a slot on the side of the display to save space. In the VisuBoard, the mini PC is integrated into the system as a whole by means of a mount. Mini PCs need only a little space and energy, but they offer the same expandability and performance as a desktop PC. The working memory, processor and hard drive capacity can be selected as required. This means that you all have the opportunity to use your software from the windows world on the display or the board.

Screen Mirroring

With the Screen Mirroring function, the screen content of one or more terminal devices can be transferred to another device. This can usually be done with an app. If this is not possible on the software side, the mirroring function can be performed by external hardware, such as the AirServer Connect of the Apple TV 4K.

They are fixed in mounts on the delivery systems that also protect against vandalism. If you only work with miracast-compatible Windows and Android devices in lessons, transfer of screen content using the Microsoft Wireless Adapter is recommended. It is connected to the interactive display or projector by USB or HDMI. With this solution, only one terminal device at a time can be mirrored.

Sound Bar and Loudspeakers

All interactive displays in our range are fitted with integrated loudspeakers. We recommend an additional audio system to reach the pupils at the back of the room. A sound bar has proved effective; it is usually attached to the delivery system below the screen. We recommend an additional audio system for interactive whiteboards. The best results are achieved by loudspeakers arranged in pairs above the projection surface or a sound bar.

Video-Sound Bar

These days, lessons are not just limited to the classroom, but also finds their way to the learners. If the lessons are being streamed out of the classroom, devices are needed that transmit sound and video in high quality. A video sound bar is more practical than combinations of cameras, microphones and loudspeakers.

They are available as permanently installed versions on the delivery system or as stand-alone solutions.

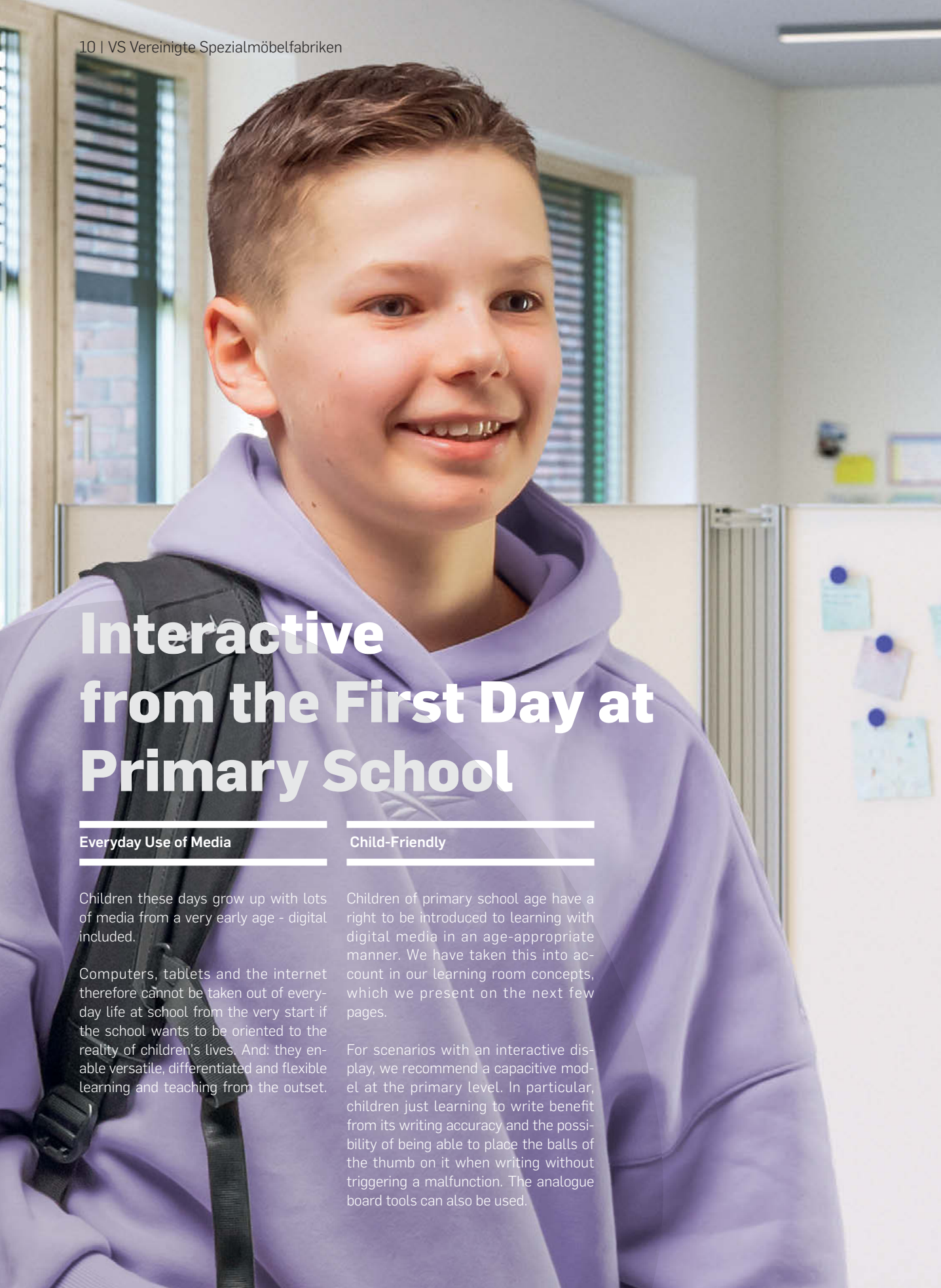
Document Camera

Document cameras are the means of choice for presenting analogue things digitally - from print documents to exhibits from the biology collection. The models we offer have various options. They can transmit live to the screen. But they also allow image and video recordings to be saved. It goes without saying that they have digital and optical zoom. Depending on the camera model, comments or labels can be directly integrated in the digital picture. Alternatively, analogue contents can be transmitted using the camera function on tablets. For this, we offer tablet mounts (e.g., Belkin Stage).

Connection Fields

Connection fields are suitable for connecting peripheral devices to a height-adjustable interactive or whiteboard. They can be used to connect the devices so that nothing happens even when the screen is being raised. All device connections and important functions of the interactive display are thus centred at a permanent, easily accessible position or in the pylon or at the workstation.

Accessories: Rounding Off Digital Equipment



Interactive from the First Day at Primary School

Everyday Use of Media

Children these days grow up with lots of media from a very early age - digital included.

Computers, tablets and the internet therefore cannot be taken out of everyday life at school from the very start if the school wants to be oriented to the reality of children's lives. And: they enable versatile, differentiated and flexible learning and teaching from the outset.

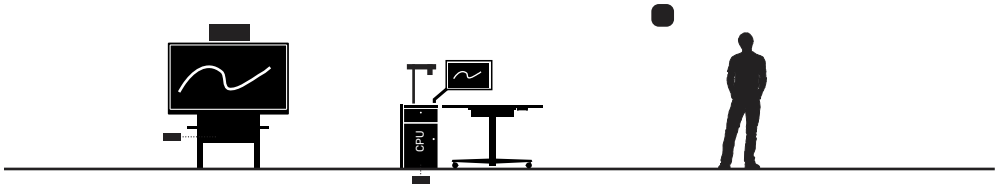
Child-Friendly

Children of primary school age have a right to be introduced to learning with digital media in an age-appropriate manner. We have taken this into account in our learning room concepts, which we present on the next few pages.

For scenarios with an interactive display, we recommend a capacitive model at the primary level. In particular, children just learning to write benefit from its writing accuracy and the possibility of being able to place the balls of the thumb on it when writing without triggering a malfunction. The analogue board tools can also be used.

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

Group Room: Whiteboard with Interactive Projector

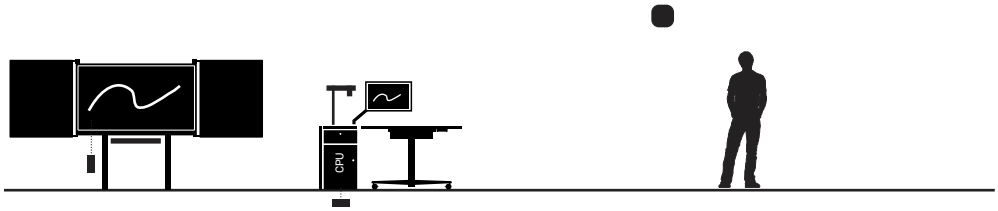


Thanks to the interactive projector, the **VS VisuBoard** becomes a digital board that can still be written on by hand. The height of the board can be adjusted by a gas spring.

The stationary **MediaBox** teacher's workstation has storage space and all of the connections for a standard computer including a mouse and keyboard, monitor and document camera. The set-up requires complex wiring to the MediaBox, e.g., by means of a cable bridge on the floor.

The mobile, height-adjustable **Rondo-Lift** teacher's table can be used flexibly in the room.

A WiFi network is created via the **Access Point**, which is connected to the central school router. The entire digital content is therefore directly available.



The height of the display can be adjusted by **Media-Pilon CW 1.4** with counterweight. It is operated by a touch gesture on the interactive display or on the external computer in the **MediaBox**. The two folding board or whiteboard panels can be written on with chalk or markers.

The stationary **MediaBox** teacher's workstation has storage space and all of the connections for a computer including a mouse and keyboard, monitor and document camera. The set-up requires situation-based wiring, for example via a cable bridge or floor tanks, depending on requirements.

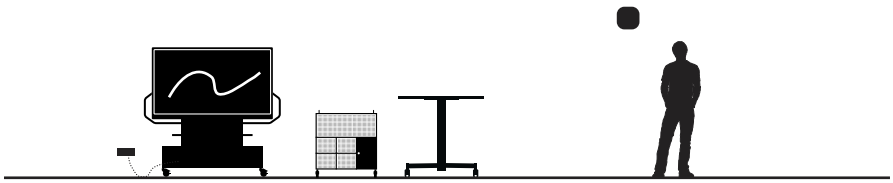
The mobile, height-adjustable **Rondo-Lift** teacher's table can be used flexibly in the room.

A WiFi network is created via the **Access Point**, which is connected to the central school router. The entire digital content is therefore directly available.

Classroom: Digital, Combined with Analogue

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

Multipurpose Room: Display on Casters for More Freedom of Movement when Learning

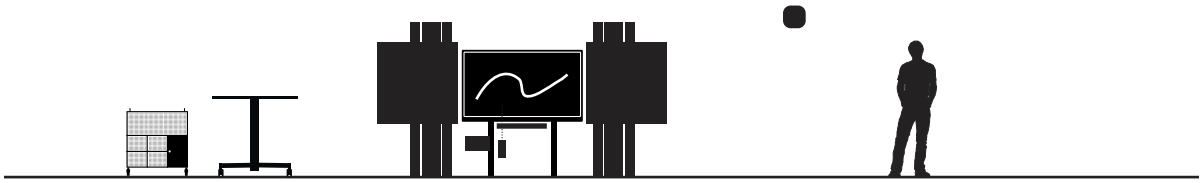


The interactive display with sound bar is mounted on the mobile **MediaCenter-GF 1.0** with storage space and the height can be adjusted by gas spring.

The mobile, height-adjustable teacher's desk **Shift+ Base** and the mobile, lockable storage space **Shift+ Landscape** fit in with the interactive room concept.

The **Access Poin**t ensures stable internet access in the teaching room.

The interactive display is operated directly by a touch gesture over the integrated Android board software or by wireless keyboard and mouse.



The mobile, height-adjustable teacher's desk **Shift+ Base** encourages interaction in the room. Personal material is locked in the mobile storage space **Shift+ Landscape.**

The electro-mechanically height-adjustable display on the **Media-Pilon-EL** 1.0 delivery system has a sound bar and mini PC. The analogue board surfaces are mounted separately, and their height can therefore be adjusted independently.

The **Access Point** ensures stable internet access in the room. The interactive display is operated directly by touch gesture over the Windows-based software of the mini PC, optionally also by wireless keyboard and mouse.

Classroom: Capacitive Touch Display with Autonomous Board Surfaces

This Much Networking Is Needed

The Elements of a Digital School

Nowadays, educational institutions must meet many IT requirements: pupils access the school's networks with mobile terminal devices in the classroom or from home and expect a perfect playback, even of streamed content. Interactive displays and boards are increasingly replacing chalkboards and need a state-of-the-art network infrastructure. The secretariat and teachers use applications whose servers have to be reliably connected to the school's administrative network or in the cloud. All of this requires an efficient network in the school and a broadband connection to the high-speed internet.

Network Infrastructure

The essential foundation of a "Digital School" is an efficient network infrastructure. Further components are also needed that form the backbone of the digital school solution.

Security

You can take care of safe accesses and the protection of learners' sensitive data with a professional firewall solution. It should meet various compliance standards, including child and youth welfare. A content filter helps here. To protect against spam, viruses, malware and cyber attacks, the firewall needs comprehensive UTM functions (Unified Threat Management).

Rely on our experience in IT that we have gathered as a highly digitised SME and that we pass on to our customers. As a market leader in the school furniture sector that has been dealing with furnishing educational institutions for 125 years, we know your needs with respect to security, performance and availability.

Network

For schools, it is important to safely separate the administrative and educational network. One way this is done is via virtual LANs, VLANs for short. A guest network for private devices brought by pupils is also needed.

Gateways (connects networks) and switches (connect devices within a network) should have sufficient reserves in terms of ports (interfaces). And they should have a sophisticated, but easy to administer, management interface. Ideally, the gateway for your school allows several internet connections simultaneously

Here, a manufacturer that is established on the market and that ensures, by means of regular software updates, that your school network is protected against threats from the internet is recommended.

The internet connection should be a fibre connection. Anything else slows down the high data flow needed in schools.

Components with Multi-Gigabit-Ports and PoE (Power over Ethernet) are recommended for the switches. PoE technology, combined with professional planning including WiFi coverage for the building, minimises the amount of wiring.

At the same time, the number of Access Points is optimised. If efficient WiFi Access-Points with Wi-Fi 6 Standard (IEEE 802.11ax) are then installed, full performance is ensured even in the school's internal wireless network.

But: even in the WiFi network, the various user networks should be separate from each other. The Access Points should therefore support the provision of several SSIDs (Service Set Identifier) via one device.

IT Partners

Benefit from our implementation experience and our strong partners in projecting and equipping. Our holistic approach, which is based on 125 years of experience in furnishing schools, guarantees solutions-oriented processing in a spirit of partnership. Our experts will support you from the start with guidelines and check lists in the design and dimensioning of your solution.

And, naturally, we don't leave you alone afterwards, when services such as repairs, exchanges, patches or monitoring are needed.

Multiple Room Access Point Coverage

Exactly Right for Secondary Schools

Digital Learning Worlds

The focus at schools nowadays is on planning learning processes. Traditional teaching methods are supplemented by forms of individual demand and support. Teachers plan and organise the learning package and support learning processes. Because learning is just as individual as each individual pupil.

New Learning Culture

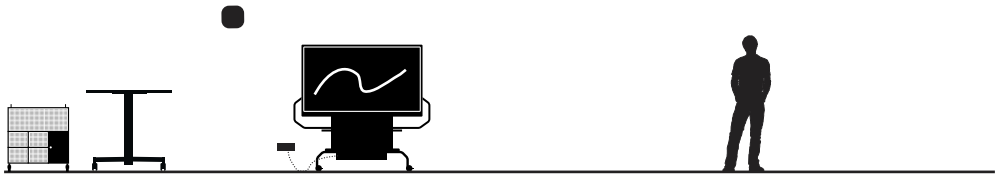
Learning environments that permit great flexibility are key for this new learning culture at school. In addition to furniture, this also requires digital media that meet all technical and practical demands. Because the quality of learning always depends on the media used.

In the following, we will show you room concepts suitable for teaching in secondary schools.


Der Wärmehaushalt
von Eisbären
NAHRUNG
FELL
Eisbären haben
eine schwarze Haut
Sie ernähren sich von Robben,
Walrossen, aber auch von kleinen Tieren
wie z.B. Vögeln oder Fischen

The pictures and texts describe example installations that can be individually expanded or adapted to requirements

Marketplace: Interaction in Rooms Used Across Groups



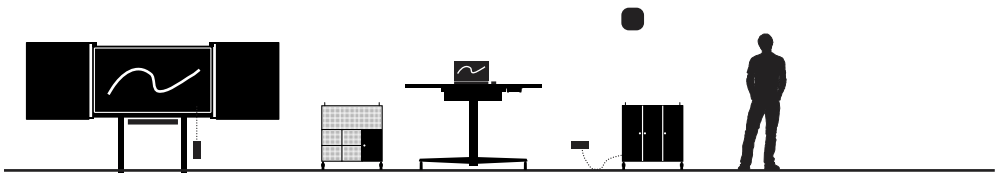
The mobile, height-adjustable teacher's desk **Shift+ Base** gives freedom when teaching. Important documents are locked away in the **Shift+ Landscape** cabinet.

The mobile gas-spring height-adjustable delivery system **MediaBasic-GF 1.0** with display, sound bar and mini PC can be used anywhere in the room.

The interactive display is operated directly by touch gesture or by a wireless keyboard and mouse via the Windows-based software of the mini PC. The **Access Point** ensures stable WiFi in the room.

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

Classroom: Learning, Working, Presenting in iPad Classes

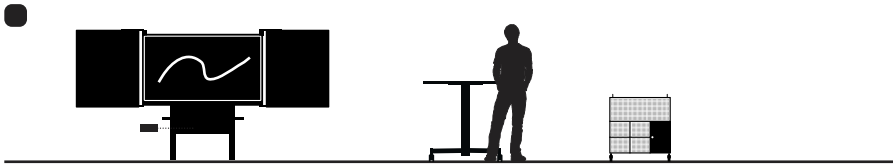


Lesson contents are transmitted by iPad screen sharing on the interactive touch display with sound bar. The height of the display can be adjusted with a gas spring **(Media-Pilon-GF 1.4).** Work on the board panels is analogue with board markers.

The height-adjustable teacher's desk **RondoLift** – just like the pupils' desks in the room – has a ReCharge battery slot for the inductive charging of the iPads (more about **ReCharge by VS:** p. 38).

Materials can be locked away in the mobile cabinet **Shift+ Landscape**.

Handing out, working on and correcting worksheets – everything is done via the iPads. The battery slots, which are under the desks, are charged in the **Shift+ ReCharge** drawer cabinet. The **Access Point** ensure stable WiFi.



The large display is mounted on the **MediaPilon-GF 1.4**. It has a sound bar and folding board panels. The height adjustment has a gas spring.

The **display** is operated directly by a touch gesture or by a wireless keyboard and mouse, via the Windows-compatible slide-on PC in the display slot. The board panels can be written on conventionally.

The mobile height-adjustable teacher's desk Shift+ Base can be used anywhere in the room.

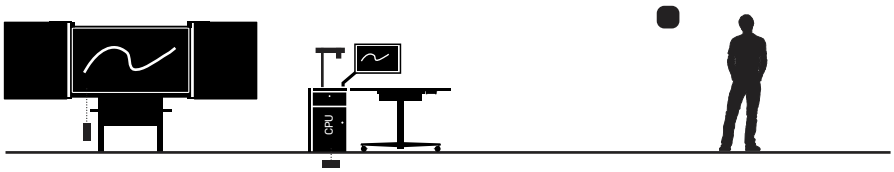
The **Access Point** ensures stable WiFi.

Subject Room: Digital Cooperation


09:23


09:23

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.



The **Media-Pilon-GF 1.4** delivery system has two board panels with four writing surfaces. The height of the display can be adjusted by a gas spring, and it is supplemented by a sound bar.

The stationary **MediaBox** has storage space and connections for computers and the document camera, mouse, keyboard and monitor. The set-up requires situation-based wiring, for example via a cable bridge or floor tanks, depending on requirements.

The mobile, height-adjustable **RondoLift** table enables Interaction in the room.

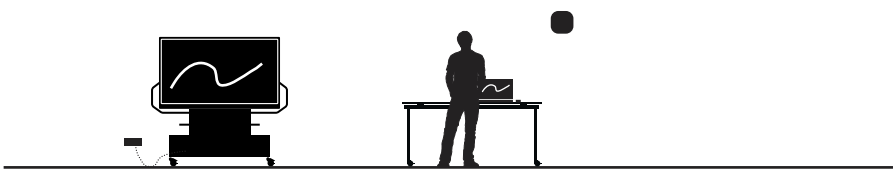
All of the technology that the teacher needs for the lessons is already in this room. The interactive display is operated directly by touch gesture or via the external computer in the MediaBox by means of keyboard and mouse.

The board panels are written on conventionally.

The **Access Point** ensures stable WiFi in the room.

Classroom: Interactive Display for Input Phases

Project Room: Mobility and Flexibility in Project Work

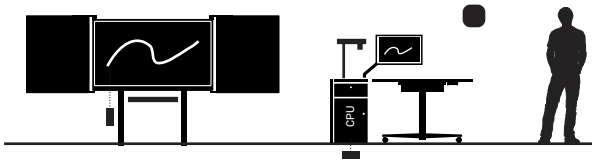


The mobile **MediaCenter-GF 1.0** delivery systems with storage space is suitable for rooms that can be designed flexibly. The display is completed by a sound bar.

The interactive **display** is operated directly by touch gesture or by the Windows-based programs on the slide-in PC with wireless keyboard and mouse. Optionally, also by screen-sharing from a laptop. The **Access Point** ensures stable WiFi in the room.

Multipurpose Room: Focused Understanding of Content

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.



The height of the display can be adjusted with an electric motor via the **Media-Pilon-EL 1.4** delivery system. It is completed by two board panels and a sound bar

The stationary **MediaBox** provides storage space for external computers and the document camera, as well as for the monitor. The set-up requires complex wiring to the MediaBox, e.g., by means of a cable bridge on the floor. The mobile, height-adjustable **Rondo-Lift** teacher's desk enables interaction in the room.

All of the technology required is in this room: the interactive display is operated directly by touch gesture or via the **external computer** in the MediaBox by means of keyboard and mouse. Digitally prepared materials are on the server, which is accessed by WiFi **(Access Points).**

It's really practical: you touch the screen surface on a display (or another device) and can operate it intuitively in this way. Various technology is behind this.

How Does a Touch Screen Work?

Infrared Principle

Displays based on infrared technology can be recognised on the raised display frame. Infrared LEDs and detectors are located on the inside of the frame. The LEDs cover the display surface with a network of infrared rays, the detectors read them out. If the network is broken, the detectors calculate the touch position that is played out as a visible touch point.

Infrared technology is relatively affordable. The sensors react very quickly and accurately. The displays are very robust because protective glass is placed directly over the touch-sensitive surface. They can be written on with a finger or another object. This is also a disadvantage: every interruption of the infrared network is visible as a touch point - whether the ball of the thumb that you lean on when writing, a lock of hair wiping over the screen, or a tool that is placed on it, such as a set square. In addition, incoming light can disrupt the touch entry.

The number of simultaneous touch points is limited, depending on the structure of the network of photoelectric barriers. When cleaning, make sure that no liquid flows into the frame. Most of the touch displays used in schools today are based on infrared technology.

Interactive touch displays with infrared technology: VS-S-C-Serie, VS-S-E-Serie, Promethean ActivPanel 9 and Promethean ActivPanel 9 Premium.

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Infrared InGlass Principle

The InGlass works in a similar way to the infrared technology. Here, the light-transmitting and light-receiving sensors are located below the pane of glass that protects the display.

When the display surface is touched, the light flow is disturbed. This, in turn, enables the sensors to calculate where the “interrupter” is located. A distinction is made between fingers, the balls of thumbs and pens, which makes writing easier. Nevertheless, all objects or dirt can result in unwanted entries here too.

Interactive touch displays with InGlass technology: Smart SBID 6286S-V3, 86", Smart MX-Serie 86" V4, Smart GX- Serie 86" V2 - all series are also available in 65" and 75".

Capacitive Principle

PCAP (Projective Capacitive) touch screens are fitted with a network of electrodes that project an electromagnetic field on to the surface. If this field is touched with a finger or a special pen, its electrical capacity changes. This change is measured, and the position of the pen or finger identified in this way.

Thanks to this technology, PCAP screens are very flat and do not have an annoying frame. In addition, they are highly robust and scratch-proof - the surface is made of toughened safety glass and can be cleaned easily. But above all, the PCAP technology expands the writing accuracy, the natural writing feeling and the possibility of counteraction. Whether Drag and Drop, zooming or rotating, whether with a pen or a finger - everything works. With up to 40 simultaneous touch points.

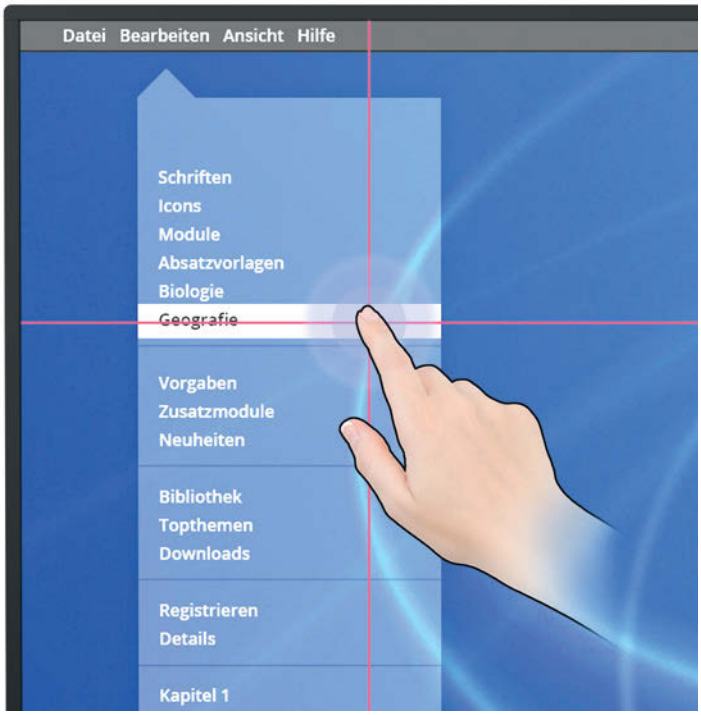
If you lean on the screen with the balls of your thumb or other parts of your hand when writing, this is not registered as a touch point. This feature is called “Palm Detection”. Children just starting to write benefit from this because they can write, do sums and draw on the PCAP screen like an analogue board or a piece of paper.

Interactive touch displays with PCAP technology: VS-S-P-Serie

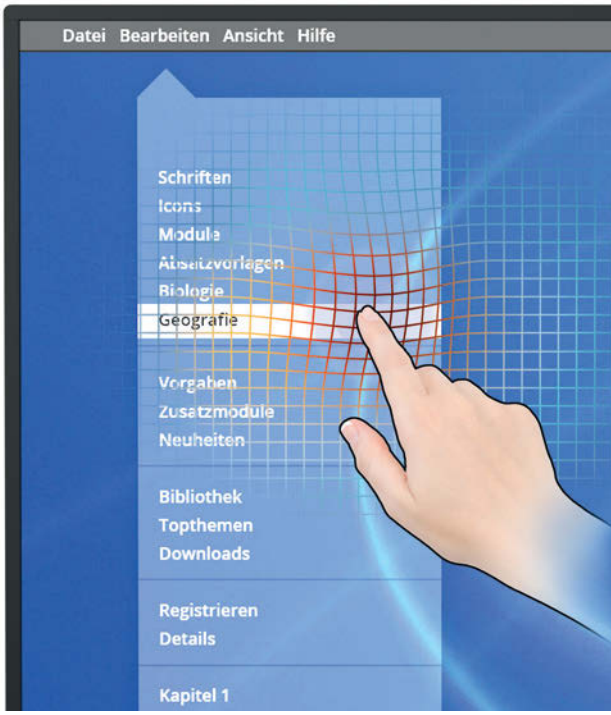
Resistive Principle

Here, the touch screen is made of two sheets that are each coated with an electrically conductive layer and separated by an air gap. If you touch the surface of the display by exerting light pressure, the two layers come into contact with each other and a current flow. The touch point can be calculated on the basis of the resulting voltage difference.

Resistive screens are very affordable, but also susceptible to wear because they react to mechanical stress. In addition, only one touch point can be registered. Counteraction - i.e., enlarging or making smaller with two fingers - is therefore not possible and only one person can work at the display. For this reason, resistive touch displays are no longer used these days.



In displays with infrared technology, the light network is interrupted by a finger or pen.



The electromagnetic field changes when displays with PCAP technology are touched.

Digital Through Upper Stage and Vocational School

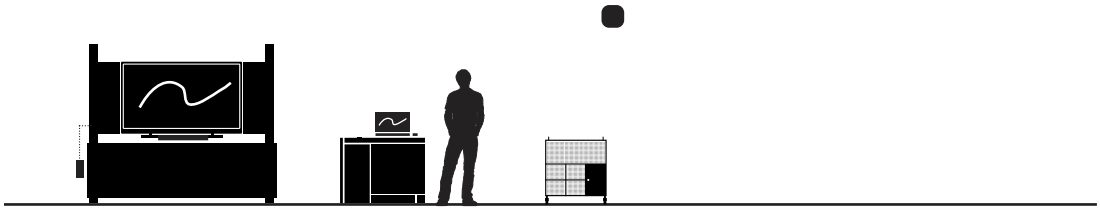
Shaping Learning Processes

In the upper stage and in (university) seminars in particular, digital media offer many opportunities for making teaching more effective, more interactive and more personalised and supporting independent learning and design processes.

Networking and Collaboration

Teachers and learners mainly benefit from the diverse opportunities for networking, working together on projects and exchanging interactively. With the help of learning platforms or individualised learning programs, you can adapt your learning and design it individually.

Upper Stage, Vocational School, University



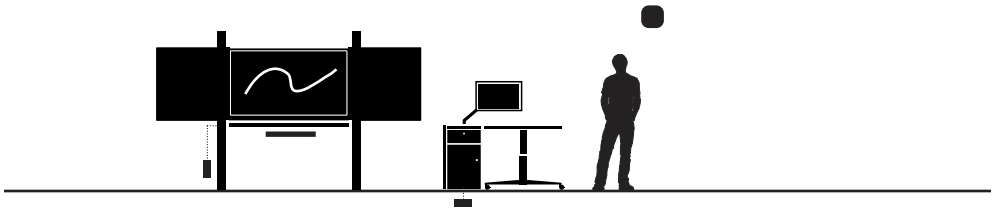
With the **MediaPilon-GG 1.1** delivery system, a large-format board panel completes the display. Their height can be adjusted separately from each other by means of counterweights. To round it off, a sound bar is installed.

The stationary **InteractiveTeach** teacher's desk is supplied with electricity and data by the floor tank.

The interactive display is operated directly by touch gestures or via a laptop. The **Access Point** ensure stable WiFi.

Seminar Room: Classic Teaching, Digitally Optimised

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.



The height of the display can be adjusted by counterweight via **MediaPilon-GG 1.4** with two board panels. It is completed by a sound bar.

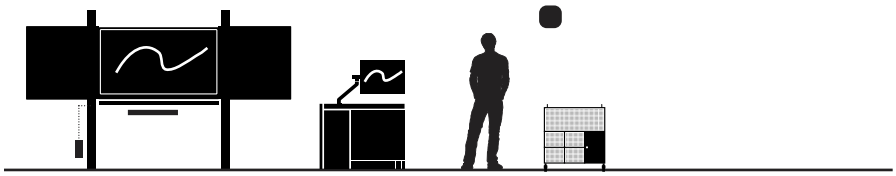
The stationary **MediaBox** provides storage space for external computers and the document camera, as well as for the lecturer's monitor. The interactive display is operated directly by touch gesture or via the external computer in the MediaBox by means of keyboard and mouse. The set-up requires complex wiring to the MediaBox, e.g., by means of a cable bridge on the floor.

The mobile, height-adjustable **RondoLift** teacher's desk enables interaction in the room. Digitally prepared materials are on the server, which is accessed by **WiFi**.

Specialist Work Room: Change from Input to Group Work

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

Seminar Room: Specialist Room Perfectly Networked



The height of the display mounted on **MediaPilon-GG 1.4** can be adjusted by counterweight. It is fitted with a sound bar and is completed with two board panels.

The stationary **InteractiveTeach** teacher's desk is supplied with electricity and data by the floor tank.

The interactive display is operated directly by touch gesture or from the teacher's laptop, which is on the **RondoLift**. The **Access Point** ensure stable WiFi.

Seminar Room: Stationary Computers for Everyone

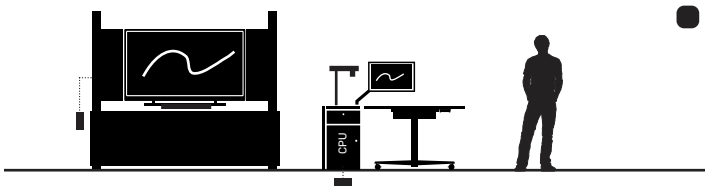
With the **MediaPilon-GG 1.1** delivery system, the height of the board surface and display can be adjusted by counterweight separately from each other. In addition, a sound bar has been installed.

Here, the **EcoTable-R** has been used as a teacher's workstation, with a CPU holder and classical container as storage space for the computer and monitor. The set-up requires complex wiring to the teacher's workstation, e.g., by means of a cable bridge on the floor.

In this example, all of the technology needed for pupils and teachers is in the room. The display is operated tiredly by touch gestures or via the external PC on the **EcoTable-R**. Digital material is on the server, which is accessed by WiFi (**Access Points**).

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

Group Room: Fast Change from Input to Group Work



With the **MediaPilon-GG 1.1** delivery system, a large-format board panel completes the display. The height of both can be adjusted by counterweight. In addition, a sound bar has been installed.

The stationary **MediaBox** teacher's workstation has storage space and all of the connections for a standard computer including a mouse and keyboard, monitor and document camera. The mobile, height-adjustable **RondoLift** desk can be used anywhere in the room. The set-up requires complex wiring to the workstation, e.g., by cable bridge on the floor.

All of the technology for teaching is available here. The display can be operated directly by touch gesture or from the PC. Teaching materials are easily accessed on the server, to which there is a stable WiFi connection thanks to the **Access Point**.

The gas-spring height-adjustable display is mounted with **MediaPilon-GF 1.0** and has a sound bar.

The stationary storage element **Serie 600** gets the power and data for the laptop from a floor tank.

The interactive display is operated directly by touch gesture or from the teacher's laptop. The **Access Point** ensure stable WiFi.

Subject Room: Well Equipped in Large Spaces

A battery unit is inserted under the tabletop for this. A Qi module is permanently installed in the tabletop and the iPad that is lying on it is charged inductively.

Only after an iPad has been completely charged three times does the unit itself need a power boost and is then put in the Re-Charge cabinet for around six hours. This is usually used for multiple classes.

The battery units can be changed easily at any time, even by the pupils. But the units are optionally available with a lock so that they cannot be taken away. In this case, they are changed by the caretaker or a member of IT staff or at the teacher's workstation by the teacher themselves, who have their own keys.

To charge the iPad on the tabletop it has to be put in a special sleeve. This charging sleeve has been developed by us and is certified by Apple. It is suitable for all seventh, eighth and ninth generation iPads. It also protects the device.

The iPad and the sleeve are placed on the marked charging place on the table. It is either in the front area of the tabletop, in the "writing position", or in the rear area, in the "reading position". If the iPad doesn't need to be charged, it can naturally be used at any other place on the table.

The ReCharge equipment is available for various VS pupils' desk models. Existing tables can be converted into ReCharge desks with a retrofitting kit.

Constant Energy: ReCharge by VS

On the way to the wireless digital classroom

Exercise books are so yesterday. Today, people increasingly work with mobile terminal devices in schools, almost exclusively with iPads. The devices are not only lent on an hourly basis in lessons. They are increasingly personalised. This means that the pupils - and the teachers - take their iPads home with them. It is quickly forgotten to charge the device again for the next day.
That's why we have developed the ReCharge by VS® concept. Here, the iPads are charged in school, wirelessly, on the pupils' or teachers' desks. They are therefore constantly available for use.

And some teachers' desks are available with ReCharge equipment. At home, the iPad can stay in its sleeve when being charged at a socket. The sleeve contains a USB-C port for this.

Safe and tested

The ReCharge by VS® is completed by the charging cabinet. It has three rows of cupboards, at least one of which is fitted with a charging capacity. For this, there is a charging column inside on which the battery unit docks wirelessly. After around six hours, the unit is fully charged again.

The charging system works with protective low voltage and over-current limiters, is therefore absolutely safe, as confirmed by the GS symbol. Current flows only when a battery unit is inserted.

TÜV Rheinland as an independent testing centre has thoroughly inspected all of the individual parts of the ReCharge by VS® concept – i.e., furniture and electrical components – and then awarded the GS symbol. ReCharge by VS therefore meets all of the quality and safety standards of the German Product Safety Act.

Our tip: Even with just a few ReCharge desk per room at the start, the age of the wireless digital classroom has dawned.

More information about ReCharge by VS

vs.de/recharge/

Interactive Media for the Staff

Encouraging Exchange

Lesson preparation, exchanging ideas with colleagues, conferences, subject meetings, internal or external further training - there are lots of reasons why the areas of teachers and lecturers should also be digitally equipped to the highest standard. Exchanges can be made more inspiring – and more inclusive because hybrid forms of cooperation are also possible.

Enabling Further Training

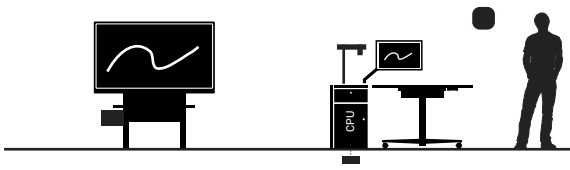
Another benefit: interactive media can be used for further and advanced training that is not bound to a location or time.

With online courses and webinars, it is easy to expand knowledge in the team, get to know new methods and discuss them. Or to find out about current developments in the educational sector - without complex organisation and high costs


Teilnehmer:

Teacher's Workstation: The Nerve Centre of the Digital Classroom

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.



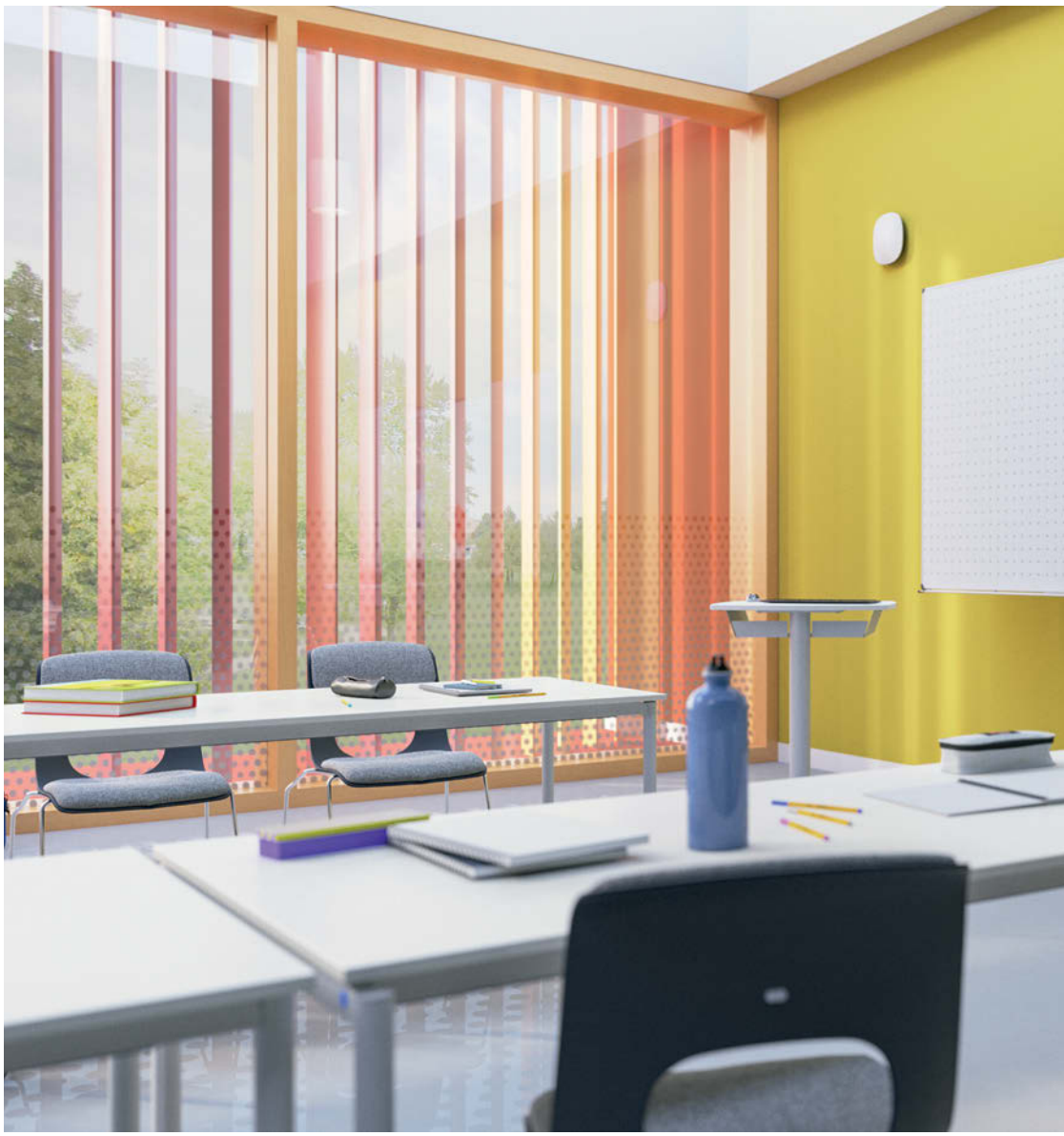
The height of the display can be adjusted with an electric motor via the **Media-Pilon-EL 1.4** delivery system. It is completed by a sound bar.

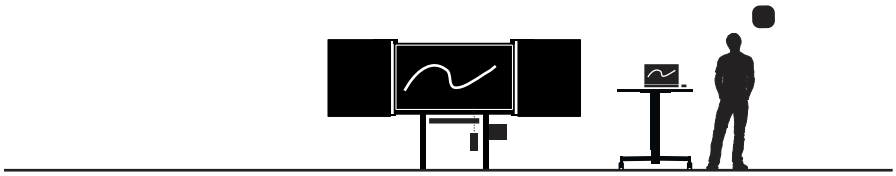
The stationary **MediaBox** provides storage space for external computers and the document camera, as well as for the monitor. The mobile, height-adjustable **RondoLift** teacher's desk enables interaction in the room. The set-up requires complex wiring to the **MediaBox**, e.g., by cable bridge on the floor.

All of the technology required is in this room: the interactive display is operated directly by touch gesture or via the **external computer** in the MediaBox by means of keyboard and mouse. Digitally prepared materials are on the server, which is accessed by WiFi (**Access Points**).

Staff Room: For Teachers' Council and Meetings

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.





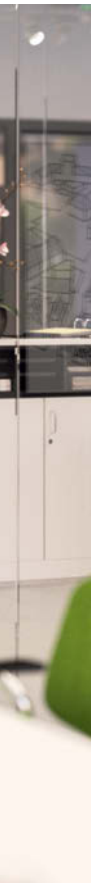
The **MediaPilon-EL 1.4** delivery system has two folding board panels and a sound bar. The height of the whole system can be adjusted by an electric motor. The display is operated directly by touch gesture or classically by wireless keyboard and mouse via the **Windows-based mini PC** or, alternatively, from the teacher's laptop vie wireless screen sharing.

The stationary height-adjustable **Shift+ Base** teacher's and lecturer's desk provides space for speakers in front of the teaching staff.

Meeting Room: Exchange in a Subject Group

The height of the **Media-Pi-lon-EL 1.0** delivery system can be adjusted with an electric motor.

The touch display is either operated directly or classically via a wireless keyboard and mouse, via the **Windows-based mini PC**, alternatively wire-lessly by screen sharing from the laptop at the meeting workstation. The **Access Point** ensures stable WiFi.



Subject Area Room: Digitally Mobile in the Team Room

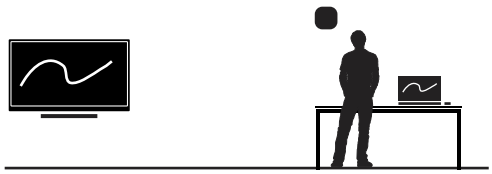
The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

The mobile, gas-spring height-adjustable **Media-Center-GF 1.0** delivery system has a sound bar and lockable storage space.

The touch display is either operated directly or classically via a wireless keyboard and mouse, via the integrated slide-in PC, or alternatively wirelessly by screen sharing from the laptop at the meeting workstation. The **Access Point** ensures stable WiFi.

Staff Room: Information for Teachers

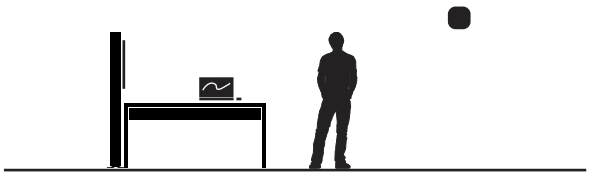
The pictures and texts describe example installations that can be individually expanded or adapted to requirements.



The multimedia display is mounted directly on the wall, as is the sound bar. As an output medium, the display can be accessed wirelessly by screen sharing.

Presentations are made from a laptop. The **Access Point** ensures stable WiFi.

Meeting Area: Spontaneous Exchange and Preparation in a Team

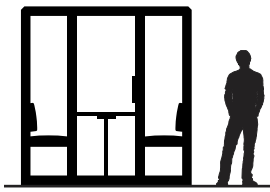


The multimedia display with sound bar is integrated in the team element **M-Panel** with **M-Table**.

Presentations are made from a laptop by screen sharing or by direct cable connection. The **Access Point** ensures stable WiFi.

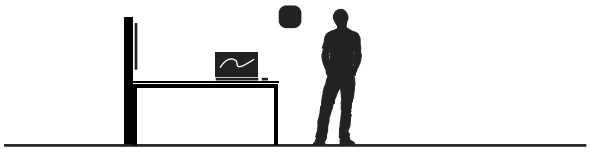
The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

Staff Room: A Room in a Room for Undisturbed Peace



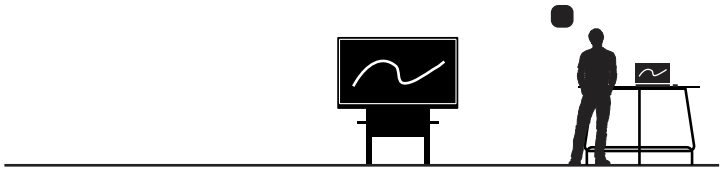
The **Mute Space** meeting box offers a protected space for withdrawal when things get lively. Telephone calls, confidential conversations, online meetings - this is just the right space for all of this. The WiFi reception inside is just as good as outside.

Management Office: Exchange in a Working Group



The multimedia display with sound bar is integrated in the team element **M-Panel** with **M-Table**.

Presentations are made from a laptop by screen sharing or by direct cable connection. The **Access Point** ensures stable WiFi.



The height of the **MediaPi-lon-GF 1.0** delivery system including the sound bar can be adjusted with a gas spring.

The touch display is either operated directly or classically via a wireless keyboard and mouse, via the integrated **slide-in PC**. Alternatively, operation is wireless via screen sharing from the laptop on the **TriUnion** meeting table. The **Access Point** ensurse stable WiFi.

Open Space: Planning Projects Together

The pictures and texts describe example installations that can be individually expanded or adapted to requirements.

Always Well Informed: Information and Open Areas

The Digital Noticeboard

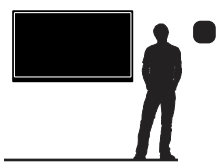
Deputising plans, deadlines, announcements, project information - general communication in educational facilities is barely possible without a central information platform. Where little notes once predominated, a digital noticeboard ensures clarity nowadays. And it is accessible at all times

Clear and Up-to-Date

The content of the digital noticeboard is controlled centrally, for example, by the secretariat by means of TeamViewer or similar software. Changes are possible up to the last minute, information can also be uploaded at any time, even at short notice - a time saving and information plus for everyone.

Information and Open

Infoterminals: A Clear View for Everyone, Always Up-to-Date



The wall-mounted display as an infoterminal presents centrally managed data by LAN or WiFi.


13.01.2023
VERTRETUNGSPLAN
Klasse Raum Stunde
7a 102 3,4 Raumwechsel
10c 207 2 Raumwechsel
8b 188 6 Vertretung
11b 312 8,9 Vertretung
11d 21 7 Vertretung
6d 182 1,2 Fällt aus!
8a 12 1,2 Fällt aus!
10c 210 6 Fällt aus!

Expertly Designing Digital Learning Environments

We can now all use digital devices. But are we really using them efficiently? Are we aware of all the options that they offer us that could make our learning and working lives easier?

With our training offerings, we want to support teachers and staff in using digital devices and applications safely and confidently. We start out from the relevant level of knowledge and the individual needs and have developed various formats for this.

The content of **workshops** can be freely defined. This is where we specifically deal with your wishes and requirements. A high proportion of practical work is extremely important to us. This means that the participants are not just fed knowledge but that they can implement in practice straight away. We design workshops for you at intervals of two hours.

Seminars last four hours or longer. For on-site seminars, i.e., in the educational facilities, VS trainers bring a mobile training room with them. This means that up to ten participants can use a device each.

In the Basic Seminar, we teach basic functions. Depending on the pace and stamina of the participants, the seminar can be expanded as much as you like.

The Advanced Seminar is aimed at participants who have already gained several weeks or months of experience. Specific questions and problems often arise from experience. That is precisely what we deal with here.

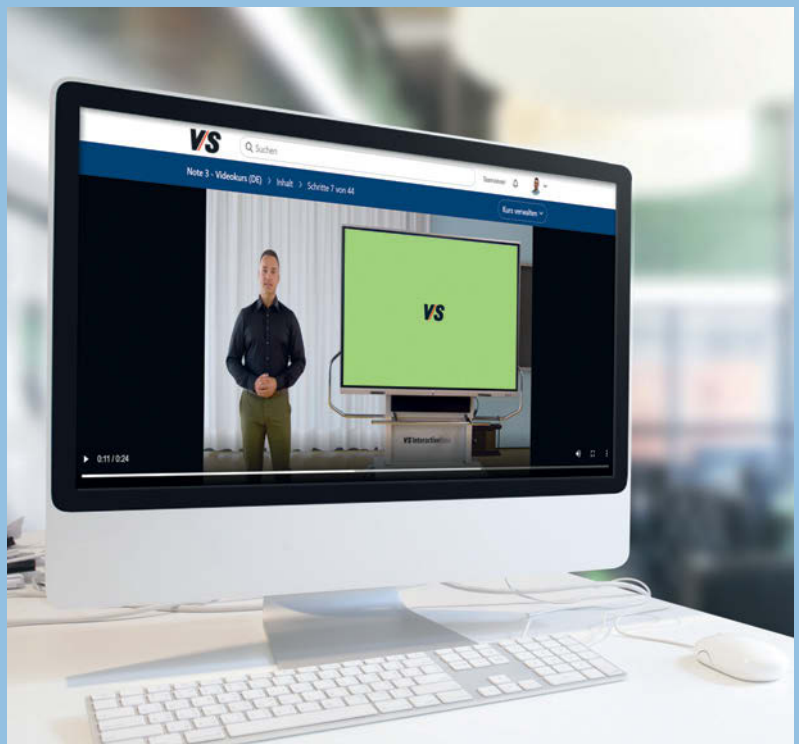
Multipliers' Training Courses are aimed at staff who hold, or are to take on, supportive roles. Training courses of one or several days are possible. Here, up to ten people within an organisation (school/school authority) can be trained in use of the desired software and/or hardware. The aim is for participants subsequently to be able to master the most varied challenges on their own. This involves the preparation of an offer for support services that enables independent working within the school association (teach the teacher).

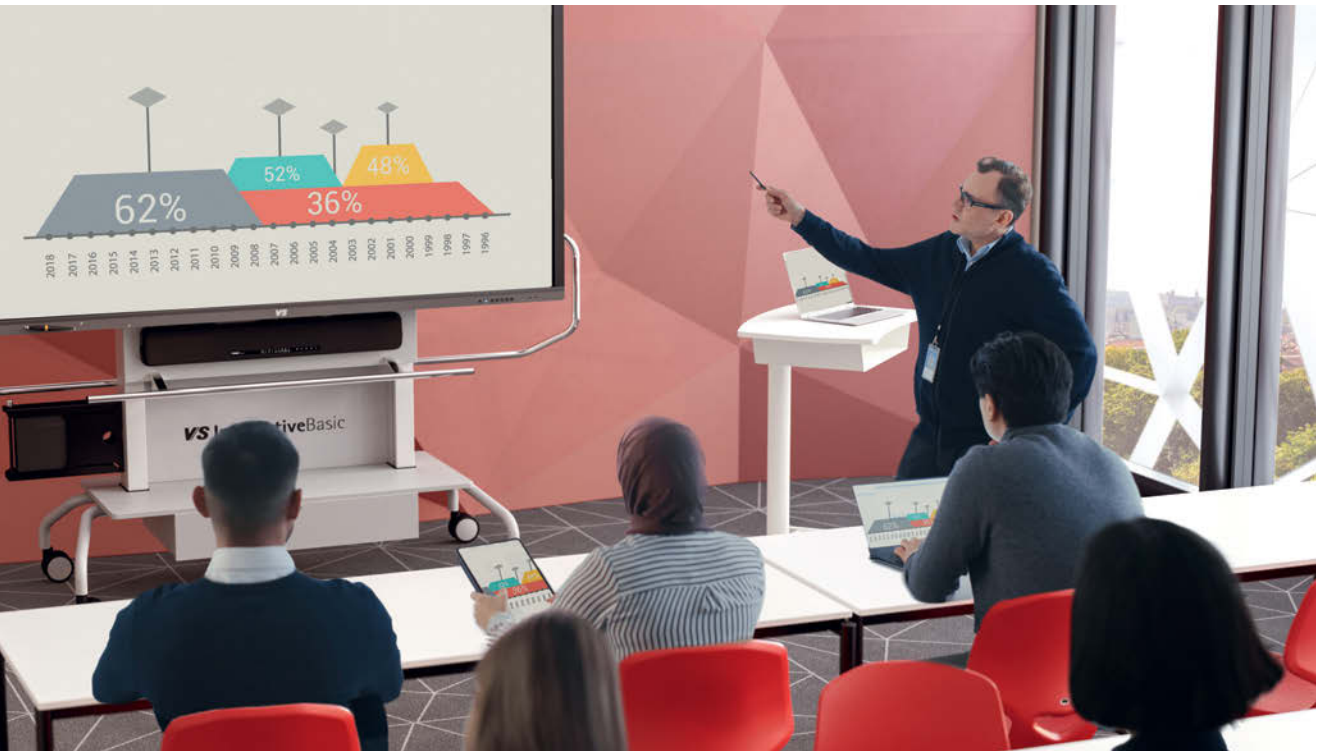
We conduct these courses on-site at your premises on online using conferencing software, usually on Teams.

A Learning Management System (LMS) supplements our training offering. We use it to provide content that can be accessed on demand and used for self-study. In terms of content, the focus in the LMS lies on training well-known educational software such as ActivInspire or Smart Notebook/Smart Learning Suite Online. Another focus is on the possibilities of using Microsoft 365 in lessons.

Secure and certified

Our experienced trainers are specially trained and have badges for Promethean, SMART and Microsoft. Our hardware and software manufacturers are certified according to ISO 20000, ISO 27001, ISO 27701. This means that educational facilities are going on the safe side with us.





VS Hardware and Software Training Offerings

An Overview of our Training Modules

Course	Workshop	Basis Seminar	Advanced Seminar	Multipliers' Seminar	Learning Management Modules
Introduction to products	jointly decided focuses	Basic training	Training for the advanced	Experten training	Self-study with leraning objectives checked
2 hours	2 hours	4 hours	4 hours	1–2 days	depending on subject 15–240 minutes
on site	on site or Conferencing Tool	on site or Conferencing Tool	on site or Conferencing Tool	on site or Conferencing Tool	on demand or online
	with Certificate	with Certificate	with Certificate	with Certificate	sometimes with Certificate
max. 10 participants	max. 10 participants	max. 10 participants	max. 10 participants	max. 10 participants	individual


Kühlsystem
Stator
Rotor
Lagerung B-Seit
Lagerung A-Seite
Löse
zum
Wer
Drehdurchfüh
Werkzeugschnittstelle (HSK)
Werkzeugspanner
(Federpaket + Spannzange)
Befestigungsflansch
Pen
VS InteractiveBasic

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Telefon: +49 (0) 9341 88-0 | vs@vs-moebel.de