WOLFVISION

How to demonstrate a WolfVision VZ-8plus[4]/VZ-8light[4]

Basic Setup:

HDMI IN

USB

LAN
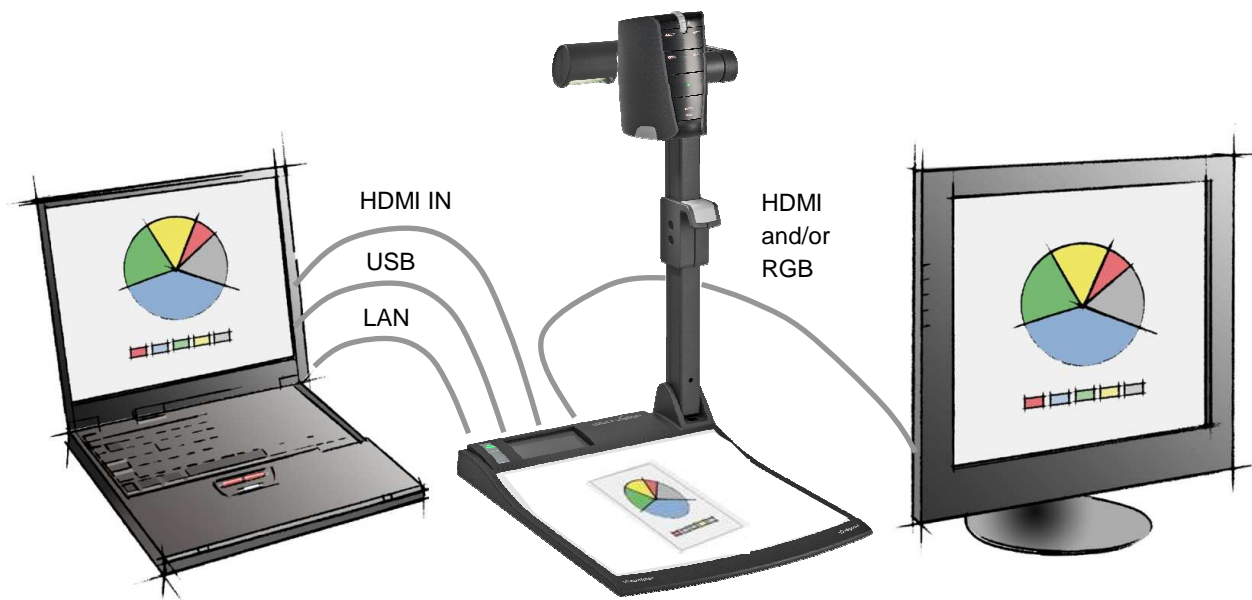
HDMI and/or RGB

PC or Laptop
(use LAN/USB port and
Monitor Out to HDMI IN)

VZ-8plus[4]/VZ-8light[4]

Monitor and/or Projector
(use HDMI and/or RGB output)

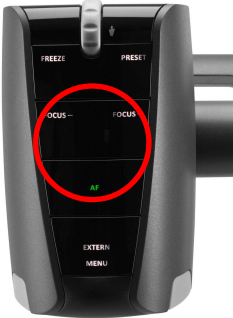## List of demo items:

(part of WolfVision Demo Set)

- WolfVision test chart
- Transparency
- Toy car or other 3D objects
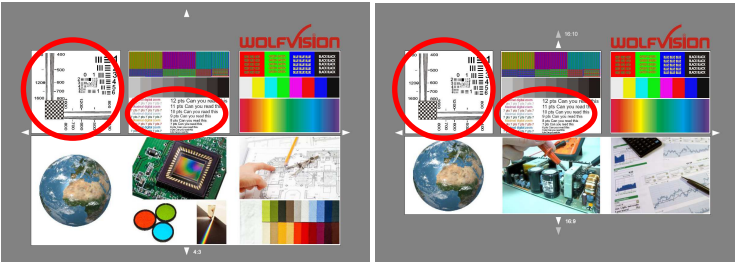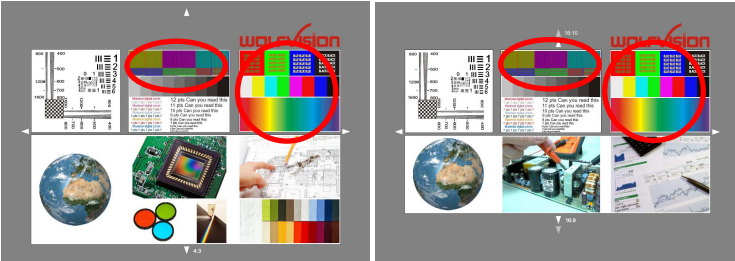
Tip:
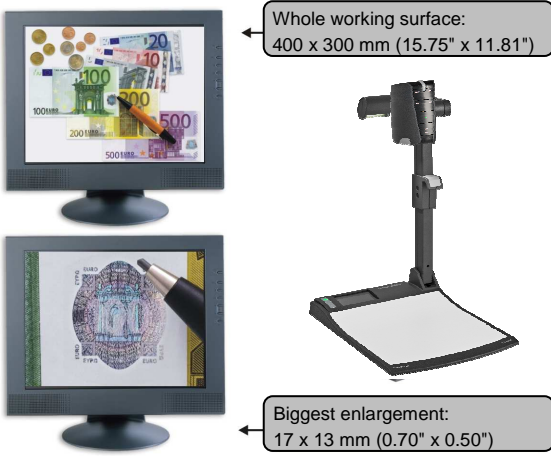
If need be, to assist you during a presentation, refer to our brochures very quickly to ensure that you have not forgotten an important feature. Just check the headings and pictures, as all important features are explained in detail in the brochures.
Attention: Features marked with a * are only available on the VZ-8plus[4] or come with the optional Feature pack for the VZ-8light[4] (except unique features like inbuilt preview monitor, 60 fps and video streaming H.264)!

#	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
1.			Introduction	Short introduction about WolfVision, Visualizers in general and respective applications: • Since 1990 WolfVision has been known as the "Technology Leader" in the Visualizer market - the company that sets the standards when it comes to product quality, innovation and ease of use. Completely focused on Visualizers, WolfVision offers a wide range of solutions to meet customer's requirements, applications and budgets. • A WolfVision Visualizer is a special Live-Camera System which is designed to pick up objects on and outside the working surface, using perfect lighting and depth in focus. All types of objects (like photos, books, brochures, transparencies, slides or 3-dimensional objects) can be picked-up very quickly and easily. This eliminates the need of producing OHP-transparencies or slides, because a user can display all original objects. The image produced by a WolfVision Visualizer can be displayed on TV-monitors or projected onto a large screen using a video projector or data projector. • A Visualizer is the perfect presentation tool and can be used in various applications: - meeting and conference rooms - for training and education - within court rooms - as an enhancement to Videoconferencing systems - for medical applications - documentation and multimedia applications
2.		Set up in seconds	Lift the camera arm	 The VZ-8plus[4] and VZ-8light[4] can be set up in seconds. A gentle tug lifts the arm and light into the working position. The user then needs only to turn the camera head to the desired viewing angle. Just as easily, it folds back into its compact size with just one pull on the centre ring, to be neatly stored during or after a presentation.
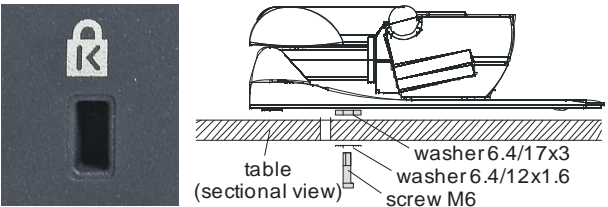
#	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
3.		Easy to use Zoom Wheel	Explain easy-handling concept	 For a smooth presentation, it is very important that a Visualizer is extremely easy to use. Less experienced users only need to use the **ZOOM wheel** on top of the camera head (or the **ZOOM keys** on the remote control*). Everything else (focus, iris etc.) is adjusted automatically by the VZ-8plus[4] and VZ-8light[4]. The zoom wheel offers the possibility to zoom with varying individual speeds.
4.	Transparency	Continuous Autofocus	Place the transparency onto the working surface and zoom in and out to show fine detail (**ZOOM wheel**)	 The continuously working **autofocus** recognizes all objects very quickly and precisely. As a result, a presenter never needs to worry about focusing. For special objects a manual focus is also available.

#	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
5.	Transparency	Special Surface for Transparencies	Explain benefits of working surface Demonstrate the critical hotspot area and how this can be prevented by the shape and design of the working surface	 All WolfVision Visualizers have a **special crystalline white working surface** for perfect reproduction of transparencies. The quality of a transparency on this surface is even better than with a bottom light, because there is more contrast and the colors are not "washed out". The whole working surface has the same even color, providing a perfect background for transparencies and other objects. For x-rays or oversized slides, external lightboxes are available in different sizes. Due to the intelligent design of the housing, the whole working surface is **completely reflection free** as it is curved in the upper part where the light is normally reflected into the camera. The Visualizer comes with a High-Brightness LED Light System. The light output is high while the power consumption is so low, that even PoE+ can be used as optional power source for the VZ-8 series. The light system has an incredible long lifetime of 30,000 hours - which can be considered as "maintenance free" for most installations. The light of the Visualizers is focused on the working surface. Neither the audience nor the speaker will be blinded in a darkened room and there is no disturbing stray light from the Visualizer on the projection screen.
		Optional Lightbox for X-Rays		
		Reflection Free Working Surface		
		Maintenance Free High-Intensity LED Light System	Explain benefits of LED-illumination	

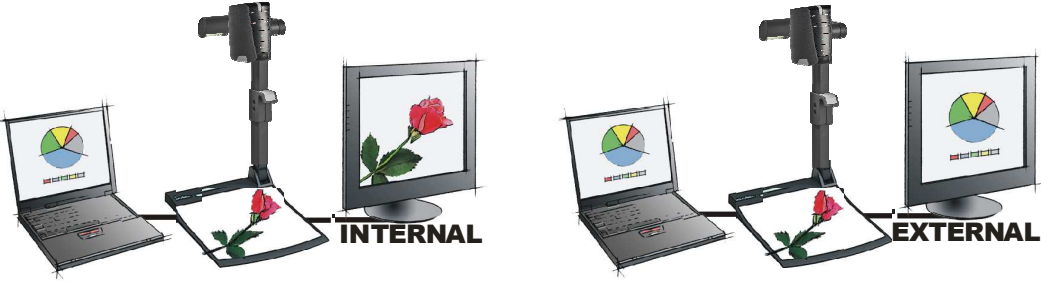| #	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
6.	Test chart	State of the Art Picture Quality	Place the test chart onto working surface and zoom in until the markings are clearly outlined (**ZOOM wheel**) **Important**: The test chart supports standard format of 4:3 and on the backside widescreen formats of either 16:9 or 16:10. Choose the right aspect ratio according to your display unit and the supported resolution of the WolfVision Visualizer A more detailed explanation about how to use the various test patterns on the chart can be found in the guideline for the test chart!	 The key elements of the exceptional picture quality are: • **WolfVision's Progressive Scan lens** (the image is extremely sharp, even in the corners of the picture) • **WolfVision's Progressive Scan camera** (resolution and color reproduction are outstanding.) • **WolfVision's Intelligent Electronics** The VZ-8plus[4] and VZ-8light[4] feature a **1-CMOS camera with 1920 x 1080 pixels at 30 frames** per second. This is **native FULL HD- resolution** with an aspect ratio of 16:9. The VZ-8plus[4] even offers 60 frames per second in all widescreen resolutions. Using a display device with 1920 x 1080 (or more) pixels, **980 lines resolution** are visible on your screen. The camera also outputs various other resolutions in aspect ratios of 4:3 and 16:10.
7.	Test chart	sRGB Color Precision	Zoom into colored parts of test chart (**ZOOM wheel**)	 WolfVision Visualizers have been renowned for their perfect colors. The outstanding color precision even meets the high requirements of the sRGB standard. **Important:** To get the best picture quality projector or monitor should be also set to sRGB!

#	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
		Powerful magnification	Demonstrate zoom range by showing min. and max. zoom (**ZOOM wheel**)	Whole working surface: 400 x 300 mm (15.75" x 11.81") Biggest enlargement: 17 x 13 mm (0.70" x 0.50") A large optical zoom range is one of the most important features of a Visualizer. It is absolutely necessary that objects in every size can be picked up in full resolution. WolfVision's **optical 12 times zoom** offers the possibility to pick up objects as large as an open book (400 x 300mm / 15.75" x 11.81") and as small as a stamp (33 x 25 mm / 1.30" x 1.00") in full size to fill the screen. For enlarging even smaller objects down to 17 x 13 mm (0.70" x 0.50") the Visualizers also offer **2x digital zoom**. Due to the large range optical zoom, it is not even necessary to use much of the digital zoom, so in most cases you can work with full resolution.
8.	Test chart and presenters left hand	Motion and 30/60* Frames per second	Point to different areas of the test chart and then make some finger movements **Important:** Only the VZ-8plus[4] offers 60 frames per second in all widescreen resolutions!!	Motion used to be the weakness of Progressive Scan cameras. Some years ago they could only pick up 15 or less pictures per second. A low number of pictures per second often resulted in a disturbing strobe effect on the screen, whenever something was moved in the picture or when adjusting the zoom or iris. WolfVision has improved the technical standards for Progressive Scan cameras in recent years and **all current WolfVision Visualizer models can pick up 30 frames per second. The VZ-8plus[4] even offers 60 frames per second in all widescreen resolutions.**
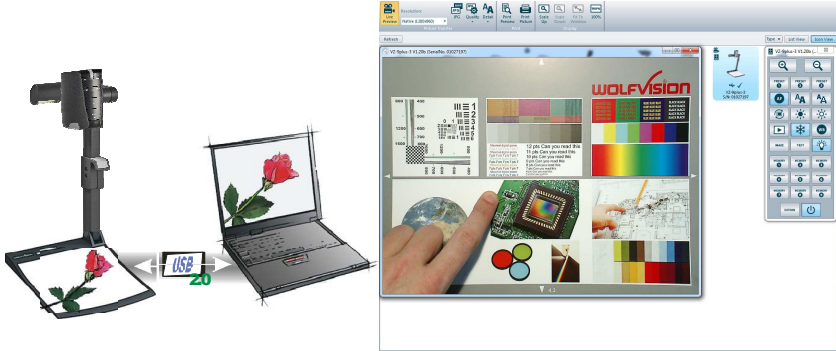
#	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
9.	Test chart and presenters left hand	Freeze	Pointing to some detail on the test chart with your left hand, press the **FREEZE key** on the camera head of the VZ-8plus[4] or VZ-8light[4]	The freeze function is a very convenient feature during a presentation. While the current image is frozen and still presented to the audience, the presenter has time to prepare the next live image. ***Next step for VZ-8light[4] - see point 12.***
10.	3D object	Built-in Preview Monitor	<u>**Important:**</u> Image is still frozen!! Place the object onto the working surface and adjust zoom range by using the **ZOOM wheel** (afterwards switch to the live image by pressing the **FREEZE key**)	The VZ-8plus[4] has a built-in LCD-preview monitor. The built-in monitor makes positioning of objects very easy and there is no need for an additional control monitor on the table.

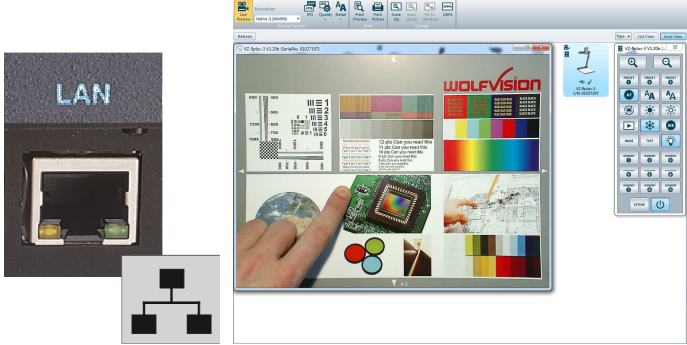| #	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
11.		9 Picture Memory *	Use remote control to store the current image in the internal memory (press **MEMORY key** 1 for at least 2 seconds) Afterwards use the **USB key** to show a split image Then explain keys on remote control briefly (place the remote control onto the working surface)	
		USB-Host *		With the VZ-8plus[4] a user has the opportunity to **store 9 images** in the internal memory and recall them by just pressing one of the numerical keys on the infrared remote control. By pressing the "MEM" key, a **split image with all 9 pictures** of the memory can be displayed, enabling easy selection. The 9 pictures in the memory can also be downloaded to a PC via USB. More images can be stored when a USB-stick is connected to the USB-host of the unit. By pressing the "Snapshot" key, a user can simply make snapshots during a presentation and download them afterwards via USB.
		Remote control *		Stored images at the USB-stick can be recalled easily by pressing the "USB" key. Navigation within the split image is done by using key **4 and 6**; the image is selected by pressing key **5**. By storing a PPT as static JPG's on a USB-stick a presentation can be done without the need for a PC. The VZ-8plus[4] is equipped with a flash memory, so images remain in the internal memory even when the power is disconnected. With the remote control the user can control: - Zoom (Tele/Wide) - Auto/Manual Focus - Manual Brightness - 3 different Preset keys to setup Visualizer according to customer needs - EXT to switch between PC/Laptop and live presentation - MEM and USB-Access - Snapshot, Freeze and PiP - Menu (to configure and adjust Visualizer settings)

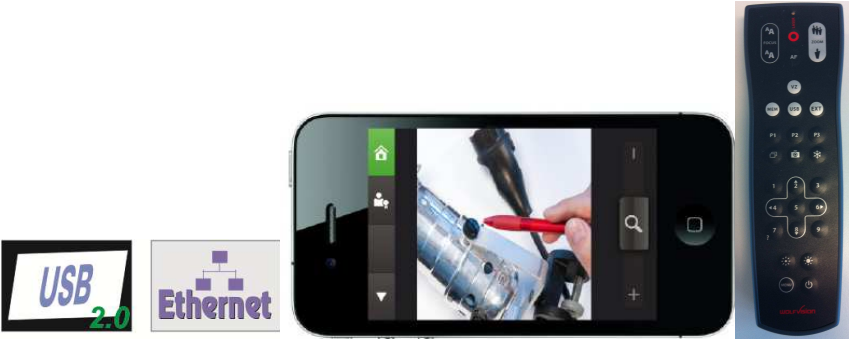| #	Object	Feature/Topic	What to do...	Screenshot / Argumentation or Story
12.	Toy car (large 3D object when available)	Recordings behind the unit	Place an object behind the unit and pan the camera directly onto it. Open the hinged close-up lens (optional zoom for fine details)	
		Flexible viewing angle	Move the camera arm to demonstrate another viewing angle	When objects are too big to be placed on the working surface or need to be shown from the side (like glasses of liquids etc.), just move the camera arm of the Visualizer and pick-up objects behind the unit.
13.	Presenter	Recordings in front of the unit	Turn and pan the camera towards yourself and open the hinged close-up lens (optional zoom for fine details)	
		Image Flip		The VZ-8plus[4] and VZ-8light[4] can not only record objects behind the unit. The camera head can also be turned to record in front of the unit. This is perfect for showing a speaker or charts on a wall behind the speaker on a large screen during a presentation. When the camera of the Visualizer is turned to record in front of the unit, the image is automatically turned around 180 degrees ("**image flip**"), because originally such recordings would be upside down.

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		Light System		For recording objects at greater distances to the device, the close-up lens of the Visualizers can be hinged away from the camera. It won't get lost because it remains attached to the unit. The light of the Visualizer is focused on the working surface. Neither the audience nor the speaker will be blinded in a darkened room and there is no disturbing stray light from the Visualizer on the projection screen.
14.		Antitheft Devices	Show and explain benefits of Antitheft devices	T-Lock (Kensington® Lock) and Table Lock Bolt on the bottom of the unit The Visualizer has two anti-theft devices. On the bottom of the working plate is a thread for attaching the unit to a table with the supplied table lock bolt. T-Lock (Kensington® Lock) devices can also be used. The connection can be found on the bottom of the arm.

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15.		Flexible integration	Demonstrate and explain the use and benefits of the ports on the interface board (rear side of the Visualizer)	Connectors of VZ-8light/plus[4] The VZ-8plus[4] and VZ-8light[4] offer various connection possibilities to ensure a high flexibility when integrated into sophisticated AV-systems. Thanks to an additional thread beside the HDMI connector, it can be secured with cable lacing brackets, like the Extron LockIt® system for instance. This reduces the stress on the HDMI connectors and prevents intermittent or complete signal loss due to a loose cable connection.
		Securing HDMI connectors		
				HDMI Connector of VZ-8light/plus[4] with Extron LockIt®
		Auto Resolution		RGB (analogue) and HDMI (digital, also DVI compatible): The Visualizer recognizes equipment connected to the RGB and HDMI outputs and automatically detects the optimal output mode.
		Widescreen Support		1080p, SXGA, SVGA, WXGA .... 720p The native signal output of both units is 1080p HD with an aspect ratio of 16:9. They can also output the image converted into the following signal formats: SVGA 800 x 600 pixel 4:3 scaled XGA 1024 x 768 pixel 4:3 scaled SXGA 1280 x 1024 pixel 5:4 scaled UXGA 1600 x 1200 pixel 4:3 scaled 720p HD 1280 x 720 pixel 16:9 scaled

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		Firmware Updates		**1080p HD 1920x1080 pixel 16:9 native** WXGA 1280 x 800 pixel 16:10 scaled WUXGA 1920x1200 pixel 16:10 scaled All projectors, monitors or plasma displays on the market can display at least one of these standards. If new standards come up in the future, WolfVision will be there with Firmware Updates! Firmware Updates: WolfVision's Visualizers are the only units on the market that offer an upgradeable firmware. This allows for new features and technical improvements to be added at no cost! Downloading firmware updates from the internet and up-loading them onto the Visualizer is very easy. On the VZ-8plus[4] and VZ-8light[4] the user can choose 2 different connections between Visualizer and computer for updating the firmware: LAN or USB. WolfVision's engineers are constantly working on new improvements and features to keep your units up to date with the technology of tomorrow!
16.	Test chart	Computer Input	Set the Visualizer to the standard presentation mode and zoom to the size of test chart (ZOOM wheel)	 A computer can be connected to the HDMI input of the Visualizer. With the EXTERN switch, a user can switch between the Visualizer image and computer image to be output by the Visualizer's HDMI-output. The advantage of using the EXTERN switch is that only one HDMI-cable to the display unit (projector, monitor, video conferencing system etc.) is required and no separate remote control has to be used for switching between the two image sources.

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			Press the EXTERN key on the VZ-8plus[4] or VZ-8light[4] or remote control * (PC or Laptop should be connected to HDMI IN port or otherwise just explain this function)	When the Visualizer is in stand-by mode the external signal is looped through automatically. Once the Visualizer is turned on the live image will be displayed.
17.	Test chart	USB 2.0 port	Start the WolfVision Connectivity-Software on your computer and briefly demonstrate (PC or Laptop should be connected to USB port or otherwise just explain)	The USB output of the Visualizer can be used to transfer images from a Visualizer to a computer and save/record them in various file formats. This way the Visualizers can be used as a 3-D scanner for a computer. WolfVision Visualizers are equipped with a fast USB 2.0 port.
		Saving and recording live Videos		
		Remote control		WolfVision Visualizers are fully controllable using the interactive remote control within the Connectivity software. For zooming in or out, recording or saving live images, the software helps to increase the functionality of your visualizer.
		Firmware updates		Besides the multi lingual settings, Connectivity 2 offers greater flexibility when a number of Visualizers are being used. On the one hand they can be upgraded automatically via a firmware update, while on the other hand it allows you to operate various visualizers in parallel saving a great deal of time and costs for IT administrators.

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		Annotation Streaming TWAIN/WIA support		In addition it comes with an integrated annotation tool offering a wide range of painting and writing options to create more effective presentations. Using the streaming function of the software means lecturers and trainers can now perform presentations interactively via the web with an audience thousands of miles away. Wolfvision's Connectivity 2 works perfectly with all interactive whiteboards. Furthermore, the software works under Windows XP, Vista, 7 (there is also a USB-Software available for Apple Macintosh) and it is fully TWAIN/WIA compatible.
18.	Test chart	LAN	Start the WolfVision Connectivity-Software on your computer and briefly demonstrate (PC or Laptop should be connected to LAN port or otherwise just explain)	The Visualizer is equipped with an Ethernet (LAN) port (10/100 Mbps). It is IP addressable and can be integrated into a computer network and controlled from any computer in the network. It can even be controlled over the internet, if it is assigned an official (WAN) IP-address. The network/LAN-port has become a central feature of all high-end Visualizers from WolfVision in recent years. The VZ-8 series offers additional LAN features: • PoE+ The low power consumption of the Visualizer allow operation in a PoE-enabled network, which makes integration into existing infrastructure easy. • Remote control via smartphone** Thanks to the integrated LAN port, a presenter can even use his smartphone as a remote control. An additional live preview function on the smartphone screen also makes life easier for the speaker. **WolfVision App available for iPhone and Android phones.* • Multicast Streaming* The VZ-8plus[4] offers unicast and multicast streaming of live images directly from the Visualizer (without a connected PC) in popular streaming modes like H.264.

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19.		External Controlling (LAN, USB and Infrared *) *RS232 can be offered by using external LAN/RS232-converters by third party manufacturers!*	Explain function and benefit of interfaces	 The VZ-8 series offers numerous possibilities to control the unit from external devices, such as a remote control system for the whole room, a video conferencing system or a computer: - USB - Ethernet (LAN) - Infrared * - Smartphone Remote - Serial (RS232) by using a LAN/RS232-converter WolfVision Visualizers are capable of communicating with Room Management Systems (RMS) over their built-in network interface and the professional protocol. The following RMS vendors are supporting WolfVision Visualizers with drivers for their system development tools: