Wedgwood IT Group

Whiteboard guide



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Whiteboard introduction



Standard whiteboard

It's all a matter of evolution

In the beginning there were classroom blackboards which the teacher/presenter wrote on with chalk so that everyone in the room could see. Then came whiteboards with marker pens which did the same job but looked neater and without chalk dust all over the place. The drawback with both whiteboards and blackboards is that the only way to save what was drawn was to copy it onto paper.

Flipcharts were another progression on which the presenter wrote and drew on large pieces of paper, so the presentation notes could be kept afterwards. This is especially useful during brainstorming sessions were the ideas brought forward need to be kept (or there would be on point in brainstorming).



Copyboard with printer

Electronic copyboards look just like regular whiteboards but have the ability to print out what is drawn after the presentation. The copyboard prints onto A4 paper so that notes can then be handed out afterwards. Alternately, A4 sheets can easily be photocopied and handed out.

Copyboards have evolved further so that they can be connected to computers. The presentation can then be printed, saved, edited and emailed. This works by loading the software that comes with the whiteboard onto the computer. The copyboard then connects into one of the computer serial ports with the supplied cable. Everything that is drawn on the whiteboard is subsequently downloaded to the computer for saving and printing.



Standard whiteboard conversion system

Devices are also available to convert normal whiteboards into copyboards.



Front projection interactive whiteboard

Interactive whiteboards can act in the same way as copyboards, but are designed to work with a computer and multimedia projector. A multimedia projector takes the image that is normally displayed on a computer screen and projects it onto a large white projector screen. This allows everything that would appear on the computer screen to be seen by everyone in the room.

They are called 'multimedia' projectors because you can also use them with a video source such as a video recorder, DVD player or satellite system. Interactive whiteboards replace the usual white screen and projects the computer image directly onto it. The 'interactive' part is that the whiteboard becomes one huge touch screen. A computer is normally controlled by a mouse but you can touch the interactive whiteboard to control the mouse cursor instead. As you move your finger across the whiteboard which has the computers image on it, the mouse cursor follows. You simply tap the screen twice with your finger to perform the normal double-click you would do with the mouse. This is great as you can do all this fron the front of the class or meeting room.

Setting up an interactive whiteboard is straightforward. Connect the serial cable into a serial port on the computer and load the touch screen software with the CD that comes with the whiteboard. Connect the projector to the monitor port on the computer and project

onto the whiteboard. You then run the whiteboard software on the computer which then guides you through a 30-second 'registration'. 'Registration' means that you put your finger onto crosses projected onto the interactive whiteboard so that the touch screen knows where the mouse pointer should go when you touch part of the screen. All have full instructions and are easily setup. You don't have to be a computer expert.

All interactive whiteboards come with software so that you can use it as a copyboard as described above. Run the software and you can then write or draw on the whiteboard with your finger or the pens provided and save it on the computer. Most software also has built in OCR which is Optical Character Recognition software. This means that you can write on screen and the computer will recognise your handwriting and turn it into computer text (like what you are reading now).

Interactive whiteboards come in two basic forms, front projection and rear projection. Front projection whiteboards (see picture above) have the projector in front of the whiteboard. The only drawback with this is that if the presenter gets in front of the screen, they will cause shadows. Rear projection has the projector behind the whiteboard so that no shadows will be made. This gives a neat finish in a board room and the whiteboard just looks like a huge computer monitor. In-wall rear projection system and rear projection cabinets are available.



Plasma screens are large, thin computer monitors generally 42" or 50" in diameter. Interactive touch screen overlays are available for these that give the same functionality as an interactive whiteboard.

Plasma screen with interactive overlay

Guideline costs

Normal whiteboard Flipchart with stand

Copyboard with built-in printer

Copyboard that connects to computer

Standard whiteboard conversion kit

Interactive whiteboard

(front projection)

Interactive whiteboard

(rear projection)
Interactive overlay

for plasma screens

£10+VAT upwards

£80+VAT upwards

£800+VAT upwards

£900+VAT upwards

£500+VAT upwards

£1000 – 2000+VAT

plus £1800+VAT upwards for data projector

£7000 - 12500+VAT

plus £1800+VAT upwards for data projector

£2000+VAT for overlay

plus £4000+VAT for 42" plasma screen

Interactive whiteboards



Front projection interactive whiteboard

Front projection interactive whiteboards

As you can see from the above picture, the projector sits in front of the whiteboard and shines the computer image onto the screen. In this case they have put the projector on the table, but projectors can also be ceiling mounted. This is front projection. Rear projection is where the projector is out of site behind the whiteboard. Rear projection is extremely expensive in comparison.

Front projection whiteboards rang in size from around 47" to 77" in diagonal size. They come either with a wall mount bracket, desktop stand or floor stand on wheels. Portable versions are also available for presentations on the move. These tend to be around 47" screens to keep the weight down. You still need to take a computer with you, usually a notebook, and also a projector which can weight as little as 1.3kg.

Setting up an interactive whiteboard is very straight forward and all come with full instructions:

- Plug in and switch-on the whiteboard, computer and projector.
- Connect the computer to the projector with a single cable (provided).

 This projects the computer image onto the whiteboard. You will just have to adjust the focus and zoom to get the projectors image to fit of the whiteboard nicely.
- Connect the serial cable provided from the whiteboard to the serial port on the computer.
 - Easy to follow diagrams come with the whiteboard.
- Load the software CD that is included with the whiteboard, onto the computer. This software talks you through the registration of the whiteboard, which just involves touching the whiteboard on a series of crosses. Registration lets the whiteboard know were the cursor is on screen.

The computer software only needs loading once on either a desktop or notebook computer. The software will work with both PC's and Apple Macintosh computers.

Rear projection interactive whiteboards



Rear projection cabinet interactive whiteboard

Rear projection interactive whiteboards work the same as front projection whiteboards. The difference is that special screen material is used because the projector is mounted behind the whiteboard. Rear projection cabinets, like in the picture above, have the projector mounted in the cabinet under the screen and use a series of mirrors to project the image onto the screen.

There is also room in the cabinets for a computer base-unit, video recorder/DVD player and many have cable management systems for connecting to visiting laptop computers. (Visiting laptop computers will need to load the software from the whiteboard CD).



Rear projection in-wall system

In-wall systems are also available where the rear-projection whiteboard is built-into a wall that has an area behind it to house the projector. Partition walling, i.e. a false wall, is usually used to do this. This gives a wonderful effect of a huge computer monitor on the wall.

Interactive whiteboard uses

An interactive whiteboard can be used in four ways:

- As a large touch screen when used with a multimedia projector. Software packages such as Microsoft Word, Excel and Powerpoint, can be projected from the computer onto the interactive whiteboard. These programs can then be updated, saved and amended as normal using your finger or special pens. You can also annotate the projected image to highlight areas and capture these onto the computer.
- As a copyboard that connects to a computer so that notes can be printed, saved and emailed
- As a conventional whiteboard
- As a projector screen

Applications in presentations and training



- Write over the top of programs to highlight and annotate points (see picture above)
- View and navigate the Internet from the whiteboard. Surf and display websites which the entire room will be able to see.
- Students/audience members can approach the whiteboard and add their contribution to the discussion.
- Present ideas to large audiences.
- Display movie files or DVD's from the PC.
- Work on word processing documents, spreadsheets, design projects with your colleagues.
- Can be connected to video conferencing systems.

Stands and wall mounts

Most interactive whiteboards are priced without either a wall mount or a floor/table stand. Make sure that your preferred mounting option is included in any quotes you may receive. Floor stands can cost from £200 to £500.

Technologies

The interactive whiteboards needs to know where you are touching on screen. Interactive whiteboards use one of two technologies for this. The technologies are:

Resistive technology - Two pieces of resistive material with a small gap between then are used to detect where a person touches the screen. The co-ordinates correspond to the area on the computer monitor. Whiteboards based on resistive technology do not require a special stylus to write on the board, a finger can be used just as well. Smartboard interactive whiteboards use this technology.

Electromagnetic scanning technology - This uses special pens and the frame of the whiteboard detects where the pen is on screen. Because of this, if the whiteboard screen is damaged you can just replace the screen. The electromagic interactive whiteboards normally come with several pens. Hitachi Starboards and TDS Activboard interactive whiteboards use this technology.

Choosing a multimedia projector to go with your interactive whiteboard

An interactive whiteboard without a projector attached is just a copyboard. If you do not already have a multimedia projector you will need to purchase one at the same time as the whiteboard. There are over 100 different projectors on the market, so below are the main points you will have to find out before you purchase one:

Brightness - This is measured in ANSI lumens. For most class and meeting rooms you will need a brightness of around 1000 ANSI lumens. This will allow you to have the lights on and the blinds open in most average sized rooms.

Computer resolution - You need to buy a projector that has the same resolution as the computer you will be using with it. Most computers use 800x600 pixels (called SVGA) or 1024x768 pixels (called XGA). To find out what resolution your computer used then follow these instructions on any Windows PC:

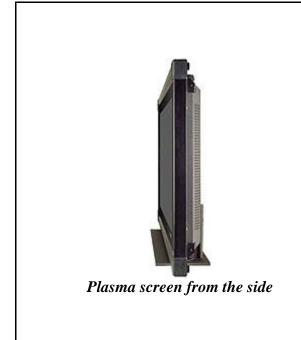
- Click on 'Start' then 'Setting' then 'Control panel'
- Double click the 'Display' icon
- Click on the 'Settings' tab
- Look at the 'Desktop area' section to see if it is 800x600 or 1024x768

You can also use multimedia projector and interactive whiteboards with Apple Macintosh computers.

A basic projector with 1000 ANSI lumens and SVGA 800x600 pixel resolution will cost around £1800+VAT. A XGA 1024x768 pixel projector will cost around £2500+VAT. Projector prices are continually on a downward trend.

If your computer uses XGA 1024x768 resolution and your budget is only large enough for an SVGA 800x600 projector, then you can lower the computers resolution to SVGA 800x600. This can be done by following the instructions above but move the slider in the 'Desktop area' to 800x600 and click on 'Apply'.

Interactive overlays for plasma screens



A plasma screen is a large 42" or 50" widescreen monitor which has the advantage of being very thin so that it can be hung on walls. Plasma screens can be used with computers and video recorders/DVD players etc.



Plasma screen with interactive overlay

Plasma screens which have an interactive overlay on them work in exactly the same way as interactive whiteboards. The advantage of using a plasma screen is that a shadow is not made by the presenter as he/she gets with front projection interactive whiteboards. Plasma screens also have a lifespan of around 30,000 hours use. Projectors used with interactive whiteboards only have an average of 2,000 hours lamp life and lamps for most projectors cost in the region of £350+VAT each.

The biggest disadvantage with the plasma screen is the screen size. A 42" screen will cost in the region of £4000+VAT and the overlay £2000+VAT. Compare this to an 70" interactive whiteboard at £2000+VAT and a basic projector at £1800+VAT and the plasma screen works out more expensive. A 70" interactive whiteboard will allow for large audience sizes than a 42" plasma screen. Plasma screens give a far neater finish in a board room environment and give far superior pictures if using video recorders, satalite systems or DVD players to show television or video.

For more information on plasma screens for use in pubs/clubs, in retail environments, for presentations, as display boards and home cinema use, then please visit www.plasmaguide.com.

Video conferncing

Interactive whiteboards and touchscreen plasma screens can also be connected to video conferencing equipment. The same computer image can then be displayed at every location connected. Any notes made can then be saved to computer and emailed/faxed to the other locations. When looking into video conferencing equipment make sure it will work with interactive whiteboards.

Copyboards



Overview

Electronic copyboards look just like regular whiteboards but have the ability to print out what is drawn after the presentation. The copyboard prints onto A4 paper that can be handed out to the people attending your presentation. Alternately, A4 sheets can easily be photocopied and handed out. The built-in printer sits just under the copyboard (see above picture).



Most copyboards have an optional pack that allows them to be connected to computers. The packs include cables and computer software. The whiteboard images can be downloaded to the computer and printed, saved, changed, faxed and emailed all over the world. This works by loading the copyboard software onto the computer. The copyboard then connects into one of the computers serial ports with the supplied cable. Everything that is drawn on the whiteboard can then transferred to the computer.

Unlike interactive whiteboards, where there are many manufactures, most copyboards sold in the UK are Panasonic Panaboard copyboards.

Thermal or paper copyboards

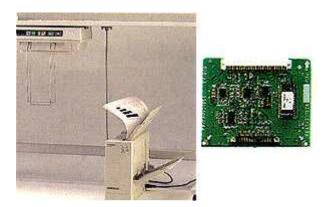


Most copyboards have a built-on printer that allows instant printing of what has been drawn. Like fax machines, these come in two types. Thermal printers print onto thermal fax paper. Paper printers print onto plain paper using ink cartridges that have to be replaced when they run out. Plain paper is obviously a nicer printout, but you can always photocopy the thermal printout for handouts.

Stands and wall mount brackets

You will also need to purchase either a wall mount bracket or floor stand with your copyboard.

Optional printer interfaces



Some copyboards allow you to attach a normal laser or inkjet printer to print out notes rather than use the built-in printer. You don't need a computer attached to do this although most require an optional printer board at additional cost. This has its advantages as laser printers are very cheap to run when producing large amounts of handout notes from the image on the copyboard.

Whiteboard to copyboard conversion kits



New devices have come onto the market that stick onto standard whiteboards (with rubber suckers) to turn them into copyboards. You can then connect them to a laptop or desktop computer to download whiteboard drawing to. Again, the notes can then be saved, printed, faxed and emailed.

You use specially designed pens to write on the whiteboard which use infra-red and ultrasound technology to determine where on the whiteboard you are writing. These devices are extremely portable and can be used on any whiteboard.

Schools and ICT

A history lesson with Mr Aston

There was a buzz of excitement as Mr Aston entered the history classroom to teach his next class after lunch. His students were all looking at the new objects in the room.

"What's that, Sir?" came a chorus from all directions.

"Wait and see" replied Mr Aston, "Now settle down. Today's class is about the Great Fire of London". A look of boredom immediately spread like a wave through the assembled faces. The students began slowly opening their text books to the relevant chapters. Mr Aston waited a moment.

"Books away. There's to be a change this lesson".

Mr Aston pressed the 'On' button on the remote control in his hand and light shot from the projector onto the interactive whiteboard at the front of the classroom. The class woke up and the light on the whiteboard slowly turned into a computer image on the screen. The screen was red with the words "The Great Fire of London" written in white writing. The students were clearly intrigued.

"This is what is known as an interactive whiteboard. The projector you see on the desk is taking the picture from the computer and showing a PowerPoint file I created earlier on this most interesting of subjects" said Mr Aston.

"Corr. That would be great for games, Sir" said one of the students to laughter from around the classroom.

"That's not a bad idea" said Mr Aston looking thoughtful, "but since computer games weren't invented in17th century London we won't be playing any today". He thought to himself that playing the Windows Minesweeper program on a screen this size would be worth seeing.

Mr Aston went over to the interactive whiteboard and tapped on the screen once with his finger. The next slide in his PowerPoint presentation then dissolved onto screen with a audible computer 'ding'. The students were looking intently at the new slide which was asking the question "Where did the fire of London start?".

"Where did the fire of London start?" said Mr Aston "Does anyone know?". The usual lack of response as no-one knew the answer was no real surprise. "I want you to remember the question and the next 5". Mr Aston then tapped on the whiteboard again and showed the next slide with another question. He repeated this another 4 times with time for the students to read the questions in between.

"Time to watch a short program on the Great Fire". One of the students asked where the television had gone. Mr Aston pressed the video button on his projector remote and the PowerPoint presentation disappeared. He then picked up a video recorder remote and pressed play. The video started and the television program on the Fire of London appeared on the whiteboard. Because the screen was 70" in diameter rather than the normal 28" television they usually used, everyone in the classroom could see the video with ease. "We'll leave the lights on for this video, so that you can make notes of the answers to the questions your just saw". It was still possible to see the screen with the lights on because of the brightness of the projected image.

The program was half an hour in length and the students seemed to enjoy a video for a change. Mr Aston then stopped the video recorder and pressed the computer button on his projector remote control. The PowerPoint presentation returned to the whiteboard. Mr Aston tapped on screen and, as this was the last slide, his PowerPoint presentation finished. He then went to PowerPoint's menu bar with his finger. The mouse cursor followed his finger across the screen. He tapped the screen once at 'File' on the menu bar and then tapped once on 'Exit' on the menu that appeared. PowerPoint shut down leaving the familiar Windows desktop on screen.

Mr Aston then loaded the copyboard program that came with the interactive whiteboard. Up came the program with a large white area on the screen. He then picked up a special whiteboard pen and wrote the first question he had asked on the board in red. His handwriting was well known to his students, as they had watched him write on the blackboard in History lessons for 4 years now. He then tapped the question with his finger and a black box appeared around it. To the classes amazement he tapped on a small letter 'A' in the corner of the black box and his handwriting disappeared and was replaced by computer text.

"Who wants to answer the question on the whiteboard?" asked Mr Aston. Many hands shot up and he pointed at a small boy who hurried over to the front of the class to the whiteboard. Mr Aston handed him another pen which wrote in blue ink this time. The boy wrote the answer on the whiteboard and Mr Aston talked him though converting his writing into computer text.

Mr Aston got different students to write the questions and answers on the whiteboard. He asked a series of new questions whose answers were contained within the television program the students had seen earlier.

Mr Aston decided that he would like all the students to have copies of the questions and answers on screen which he thought would be useful to the students later for exam revision. He used his finger on the whiteboard to select 'File' and 'Print' on the screen. The 'Print' dialog box appeared on screen. He wanted 20 copies, one for each student. He clicked on the number of copies box to highlight it. He then pressed a button that was on the side of the whiteboard. A keyboard appeared on the screen and Mr Aston pressed the 2 and 0 on the screen keyboard to enter the number into the 'Print' box. He then tapped on 'Print' and the laser printer next to the whiteboard started turning out the first of the 20 sheets.

A bell sounded heralding the end of the lesson. It has gone quite quickly, for a change. He asked one of the students to hand out the printouts before the students left for their break before their next class. It had been a good lesson. Mr Aston pressed the 'off' button on the projector remote and the interactive whiteboard picture disappeared.

Mr Aston was very pleased with himself. He had been given lessons on general computer use and a short course on the Powerpoint program. The schools computer technician had only spent 20 minutes showing him how to set-up and use the new equipment. It seemed so straightforward that he wondered why he had every felt nervous of all the new technology.

He had plans to use the interactive whiteboard to show students how to research history projects using computer encyclopaedia programs such as Microsoft Encarta. He even thought about connecting to the Internet and showing the students websites of museums, National Trust country houses, and how to find information on local history. Endless possibilities to teach students and learn more himself at the same time.

Allowing himself a smug smile, Mr Aston enjoyed his coffee break testing out Windows Minesweeper. Just in case the Head wants to know how it works, he grinned to himself.

Telephone +44 (0)1754 769967 Fax: +44 (0)1754 768036 www.interactive-whiteboards.co.uk

Manufacturer	Model	Projection	Screen diagonal	Weight kg	Board dimensions W x H x D	Warranty	Price
Front projection	whiteboards wit	th wall mount	bracket				
Smartboard	540	Front	47"		40" x 33" x 5.75"	2 year RTB	£825
Smartboard	540 traveller	Front	47"		40" x 33" x 5.75"	2 year RTB	£920
Hitachi	3040	Front	50"	8.1	45" x 35" x 0.8"	1 year RTB	£1,420
Smartboard	560	Front	60"		50.5"x 41" x 5.75"	2 year RTB	£1,475
TDS	IPM 1000	Front	62"	11.3		1 year RTB	£1,552
Hitachi	4226	Front	70"	14.5	61" x 47" x 0.8"	1 year RTB	£1,585
Smartboard	580	Front	72"		60" x 48.25" H x 5.75"	2 year RTB	£1,825
TDS	IPM 2000	Front	77"	16.3		1 year RTB	£1,940
Front projection	whiteboards wit	th floor stand					
Smartboard	540	Front	47"		40" x 33" x 5.75"	2 year RTB	£1,260
Hitachi	3040	Front	50"	8.1	45" x 35" x 0.8"	1 year RTB	£1,750
Smartboard	560	Front	60"		50.5"x 41" x 5.75"	2 year RTB	£1,910
TDS	IPM 1000	Front	62"	11.3		1 year RTB	£1,835
Hitachi	4226	Front	70"	14.5	61" x 47" x 0.8"	1 year RTB	£1,895
Smartboard	580	Front	72"		60" x 48.25" H x 5.75"	2 year RTB	£2,260
TDS	IPM 2000	Front	77"	16.3		1 year RTB	£2,395
Rear projection	cabinets						
Smartboard	1602	Rear	60"		With X-Port 10 & shelf	1 year RTB	£6,585
Smartboard	1802	Rear	72"			1 year RTB	£10,250
In wall rear proje	ection systems						
Smartboard	1610	Rear	60"			1 year RTB	£5,795
Smartboard	1710	Rear	67"			1 year RTB	£6,795
Smartboard	1810	Rear	72"			1 year RTB	£7,295
Plasma screen i	nteractive overla	iys					
Smartboard	Matisse NEC	42"					£2,195
Smartboard	Matisse Fujits	u 42"					£2,195
Smartboard	Matisse Sony	42"					£2,195
Smartboard	Matisse NEC	42"					£2,195
Smartboard Smartboard	Matisse Pione Matisse NEC						£2,625 £2,625

Please note:

All front and rear projection interactive whiteboards require a multimedia projector and computer. Plasma screen overlays require a plasma screen and computer.

All prices are subject to our standard terms and conditions and may change without prior notice. Delivery charged at £40+VAT due to size of whiteboards. All prices are excluding VAT. E. & O.E.

Telephone +44 (0)1754 769967 Fax: +44 (0)1754 768036 www.multimedia-projectors.co.uk

Model		Weight	Res	Warranty	•	Key	Additional	Price
	Lumens	kg			Life		Features	
Mitsubishi LVP SA51U	1000	3.2	SVGA	2 year swap	2000			£1,665
Epson EMP 50	1000		SVGA	, ,				£1,695
NEC VT 440	1100		SVGA	•		YES		£1,745
Acer 7763PA	1100	2.3	SVGA			NO	Video £100 extra	£1,815
Hitachi CP S845	1000	4.5	SVGA	•		YES		£1,825
Optoma EZ 705H	1000	2.3	SVGA	2 year RTB	2000			£1,845
Sony VPL-CS10	1000	3.5	SVGA	1 year RTB	1			£1,995
Mitsubishi LVP SD10U	1200	2.3	SVGA	2 year swap	2000			£2,075
Sanyo PLC SU20	1200	3.9	SVGA	2 year RTB	2000	YES		£2,085
Eiki LC NB2W	1200	3.9	SVGA	2 year RTB	2000	YES		£2,110
Proxima LS2	1200	3.9	SVGA	2 year RTB	2000	YES		£2,120
Toshiba TLP 470	1200	3.7	SVGA	2 year RTB	2000			£2,125
Panasonic PTL 501E	1100	3.8	SVGA	2 year RTB	1	YES		£2,205
Eiki LC NB2	1200	3.9	SVGA	2 year RTB	2000	YES	PCMCIA card	£2,275
Philips C Bright XG1	1100	3.6	XGA	1 year swap	1500	YES		£2,345
Optoma EZ 715H	1100	2.3	XGA	2 year RTB	1			£2,355
Acer 7765PA	1100	2.3	XGA	1 year on-site	1500	NO	Video £100 extra	£2,380
Optoma EZ 615H	1000	4.5	XGA	2 year RTB	2000	YES		£2,395
Epson EMP 505	1100	2.7	SVGA	2 year RTB	2000		PCMCIA card	£2,405
Toshiba TDP 660	1100	3.7	XGA	2 year RTB	2000	YES		£2,470
Sanyo PLC SU22	1200	3.9	SVGA	2 year RTB			PCMCIA card	£2,490
Eiki LC XNB2W	1000	3.9	XGA	2 year RTB		YES		£2,525
Optoma EZ 718	1100	2.3	XGA	2 year RTB				£2,525
Eizo IP420U	1100	3.2	XGA	2 year RTB		YES		£2,525
Hitachi CP X320	1100	3.2	XGA	2 year RTB				£2,525
Toshiba TLP 471	1200	4.4	SVGA	•			Document camera	£2,575
Hitachi CP X940	1000	4.5	XGA	2 year swap				£2,585
NEC VT 540	1000	4.0	XGA	3 year swap		YES		£2,595
Mitsubishi LVP X70	1100	3.2	XGA	2 year swap		YES		£2,595
Toshiba TLP B2	1000	2.6	XGA	2 year RTB		YES		£2,645
Plus U2 1110	1100	2.5	XGA	2 year RTB				£2,695
Panasonic PTL 701E	1000	3.8	XGA	2 year RTB		YES		£2,705
Proxima LX2	1200	3.9	XGA	2 year RTB				£2,725
Eiki LC XNB2WM	1200	3.9	XGA	-		YES		£2,750
Sanyo PLC XU20	1000	3.9	XGA	•		YES		£2,790
Davis DP X16	1000	2.3	XGA	-		N/A		£2,895
Davis DLX 10	1000	4.5	XGA	•		N/A	_	£2,925
Toshiba TDP 661	1100	4.4	XGA	-			Document camera	£2,930
ASK C90	1100	3.4	XGA	•		NO		£2,945
Eiki LC XNB2	1200	3.9	XGA	•			PCMCIA card	£2,960
Sharp XGNV51XE	1000	4.5	XGA	2 year RTB	2000	NO		£2,995

Note:

We would recommend a minimum of 1000 ANSI lumens for front projection interactive whiteboards. To determine whether you need SVGA or XGA, see section 'Choosing a multimedia projector to go with your interactive whiteboard'.

All prices are subject to our standard terms and conditions and may change without prior notice. Delivery charged at £10+VAT per projector. All prices are excluding VAT. E. & O.E.

Wedgwood plasma screens comparision chart

Telephone +44 (0)1754 769967 Fax: +44 (0)1754 768036 www.plasmascreens.co.uk

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Manufacturer	Model	Diagonal inches	Depth mm	Pixels	•		-	Contrast ratio	_	Aspect ratio	Additional features	Retail
25" to 40" Pla	asma monitors	IIICIICS	111111		max		kg	Tallo	11633	Tallo		
Hitachi	CMP205SXE	25"	122	1280x1024	SXGA	No	23.0	50:1	90	5:4	Includes desktop stand	£4,385
Hitachi	CMP307XE	37"	100	1024x768					150		Includes desktop stand	£6,770
Pioneer	PDP-V402E	40"	88	640x480	XGA		31.6	150:1	400		*XGA with optional converter	£4,045
42" 853 x 480) pixel plasma s	creens - w	idescre	en format -	ideal for use	with S	SVGA (80	00 x 600 p	ixel) re	solution	computers	
Daewoo	DSP-4210GM	42"	83	853x480			•	•	,	16:9	,	£3,525
Fujitsu	PDS-4208	42"	89	852x480			31.5	450:1	300	16:9	No audio	£3,580
Philips	420P10	42"	146	853x480	XGA	Yes	42.5	480:1		16:9	Comes with wall bracket	£3,660
JVC [.]	GD-V4210PCE	42"	89	853x480	XGA	Yes	38.0	750:1	240	16:9		£3,720
Fujitsu	PDS-4213	42"	85	852x480	XGA	Yes	31.5	400:1	580	16:9		£3,775
NEC	42PD2	42"	114	853x480	XGA	Yes	33.0	525:1	250	16:9	Built-in video wall controller	£3,880
Fujitsu	PDS-4214	42"	85	852x480	XGA	Yes	31.5	400:1	580	16:9	Class B	£3,965
NEC	42MP2	42"	89	853x480	SXGA	Yes	32.0	550:1		16:9		£3,995
Sony	PFM-500A3W	42"	152	852x480	XGA	Yes	45.0			16:9		£4,710
Universal	42	42"	110	852x480	XGA	Yes	32.0	450:1	300	16:9	TV tuner/pict in pict - stand/wall backet.	£4,795
Panasonic	TH-42PWD3	42"	89	852x480	XGA	Yes	29.5			16:9		£4,995
Conrac	X-Sight	42"		852x480	SVGA	Yes			300	16:9	Class B, TV turner, wall mount, speakers	£4,995
Thomson	WS 90 E	42"	96	853x480	SVGA	Yes	41.0			16:9		£4,995
Sanyo	PDP-42 WE2	42"	95	853x480	XGA	Yes	39.0			16:9		£5,475
42" 1024 x 10)24 pixel true XC	SA plasma	screen	s - widescre	en format -	ideal fo	or use w	ith XGA (1024 x 7	768 pixe	l) resolution computers	
Fujitsu	PDS-4221	42"	85	1024x1024	True XGA	Yes	31.5	580:1	500	16:9	ALIS	£4,435
Fujitsu	PDS-4222	42"	85	1024x1024	True XGA	Yes	31.5	580:1	500	16:9	ALIS Class B	£4,580
Sony	PFM-42D1	42"		1024x1024	True XGA	Yes				16:9		£4,995
Hitachi	CMP402HDE	42"	89	1024x1024	True XGA	Yes	33.5	350:1	250	16:9		£7,010
Sony	PFM-500A2W	42"	152	1024x1024	True XGA	Yes	45.0			16:9		£8,160
50" Plasma s	screens - widesc	reen form	at									
NEC	50PD1	50"	129	853x480	XGA	Yes	46.0	560:1	560	16:9	Built-in video wall controller	£5,975
Universal	50	50"	110	852x480	XGA	Yes	46.0	450:1	300	16:9	TV tuner/pict in pict. Inc stand/wall backet.	£6,995
Eizo	P5071	50"	114	1280x768	UXGA	Yes	47.0	550:1	500	16:9	Pict in pict - video wall controller	£7,355
Pioneer	PDP-502MXE	50"	98	1280x768	SXGA	Yes	40.3	350:1	120	16:9		£7,645
NEC	50MP1(XM1)	50"	107	1280x768	True XGA	Yes	46.0			16:9		£7,795

UK delivery £40+VAT on all plasma screens. Stands and mount brackets at extra cost. All prices are excluding VAT. E. & O.E. All prices are subject to our standard terms and conditions and may change without prior notice.