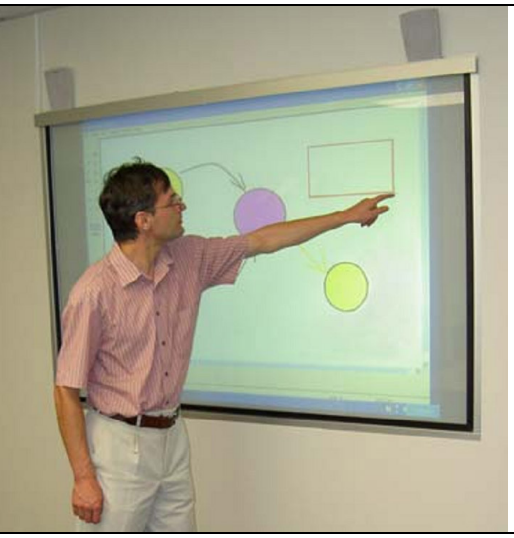

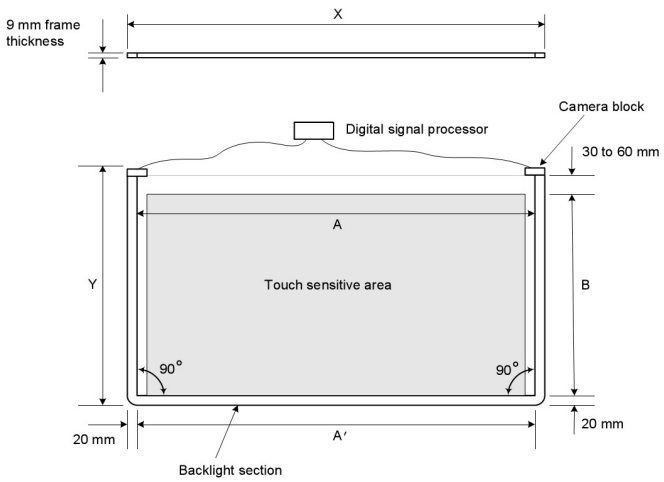

Camera block

Digital Signal Processor

Optisches Whiteboard-Kit

The 2900 interactive whiteboard kit provides components for manufacturers to touch enable any flat surface used for front or rear projected images.

The 2900 kit includes an optical imaging touch technology, which, in conjunction with projection equipment, allows companies to build custom-sized interactive whiteboards—enabling highly effective tools for teaching and presentation in classroom, conference or boardroom environments.

You can operate writing, drawing and presentation software simply by moving your finger across the screen. All standard mouse functions are supported—click, right-click, double-click and drag. You can draw, write, move/edit objects and scroll through menus.

You can project any software, such as a spreadsheet or animation, and operate the program by touching the screen. In addition, high-quality, specialised interactive whiteboard applications are readily available.

- Touch-controlled mouse functionality over the whole screen.
- Light touch—no pressure required.
- Any touch method can be used—finger, gloved hand or pointer.
- Front or rear projection.
- Serial interface or plug-and-play USB connection.
- Any surface can be used including glass or standard whiteboard.

The 2900 Interactive Whiteboard Kit includes the following components:

- Backlight frame (three parts, aluminium extrusion incorporating LED PCBs)
- Two camera blocks incorporating optical components
- Digital signal processor
- Power supply unit

2101 Touch frame	
Dimensions	The backlight frame sections are made to suit the manufacturer's whiteboard design.
Touch surface Frame	Any durable surface suitable for front or rear projected images
Bezel colour	Standard: silver or black anodised. Other colours available on request
Construction	Aluminium, nylon, opal acrylic, EMX 503 filled nylon, annealed polycarbonate, PVC and PCBs
Luminous transmission	100% without glass, >92% with glass (depending on anti-reflective surface coating)
Aspect ratio	Usually 16:9 or 4:3, but can be any rectangular shape
Touch technology	Optical Imaging—no special surface coatings
Touch method	Finger, gloved hand, or any other pointer
Touch activation force	No pressure required
Touch accuracy	± 5 mm (for 100" screen) over 90% of the touch sensitive area USB reported touch resolution 32767 x 32767
Touch durability	Unlimited
Touch response time	Typically 71 touches per second (14 ms) for single touch with no ambient synchronisation
Environment	Temperature Operating: 0°C to 55°C Storage: -25°C to 85°C Humidity Operating: 10% to 90% RH, non-condensating Storage: 10% to 90% RH, non-condensating
Power supply	+12 VDC, nominal (+11.5 V to +12.5 V) 250 mA rms (peaks of 1 A for 8 ms), typical at +12 VDC. Average power dissipation is 3 W. Supply must be capable of providing 500 mA minimum Total noise and ripple requirement must be less than 100 mV for frequencies below 1 MHz, and less than 50 mV (p-p) for frequencies above 1 MHz (As supplied, part number 302140000. Input: 90-263 VAC 47-63 Hz. Output: +12 VDC 3.5 A.)
Reporting speed	10 ms per coordinate set (max) Typical 15 ms (66 updates per second)
Calibration	Simple four-point driverless calibration. (Requires no software) Automatic landscape/portrait orientation detection
ESD	Per EN 6100-4-2 1995: Level 4. Contact discharge 8 kV, air discharge 15 kV on USB connector pins
Interface	USB 1.1 (full speed), HID compliant, plug-and-play compatible
Operating systems	Windows XP, Mac OS, Win 2000, Linux.
Software	No software required. Works with Windows native HID mouse driver. Touch+ software provides additional utilities.
Weight	Weight for 32" is less than 1 kg (approx.) without glass
Warranty	1 year parts and labour