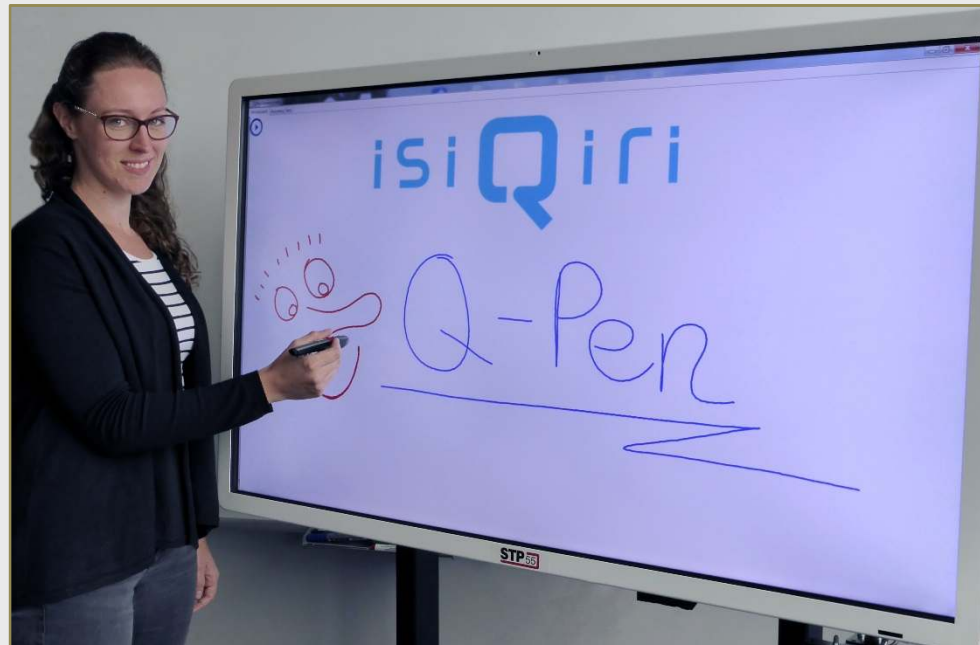


Q-Pen

active stylus solution for any type of touchscreen



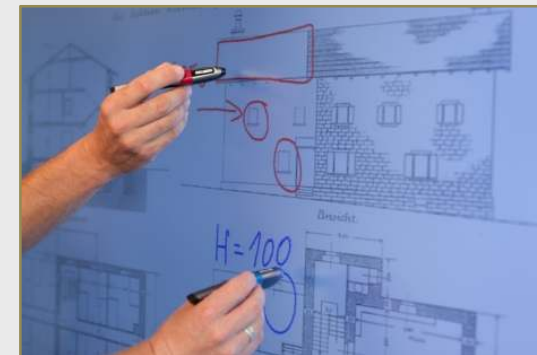
- unique device identification
- distinguish between pen and finger
- high positional accuracy
- can be used on ANY type of touchscreen

Q-Pen

Unique device identification



- Facilitates multi-user interaction in meetings, discussions, etc.
 - user authorization can be hooked to specific pen
 - actions can be (re-)traced (who did what?)
- Pen-specific settings (color, brush, eraser, ...)
 - each pen can have different settings assigned to it
 - multiple users can use independent settings while drawing/writing
- Hardware functions can be added to Q-pen
 - buttons (e.g. for right click, selecting or change functionality)
 - pressure sensitivity (e.g. to change line thickness)
 - fingerprint sensor for authorization
 - current settings indicator (color, brush, ...)

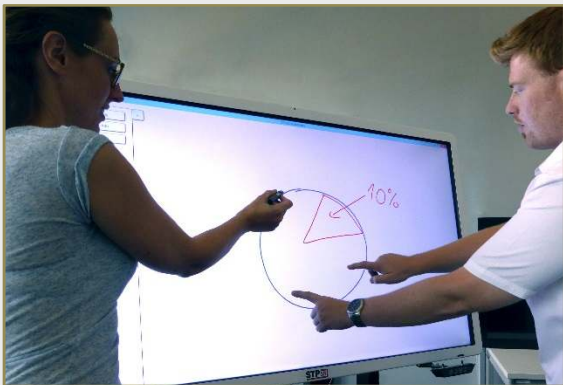


Q-Pen

Distinguish between Q-Pen and finger



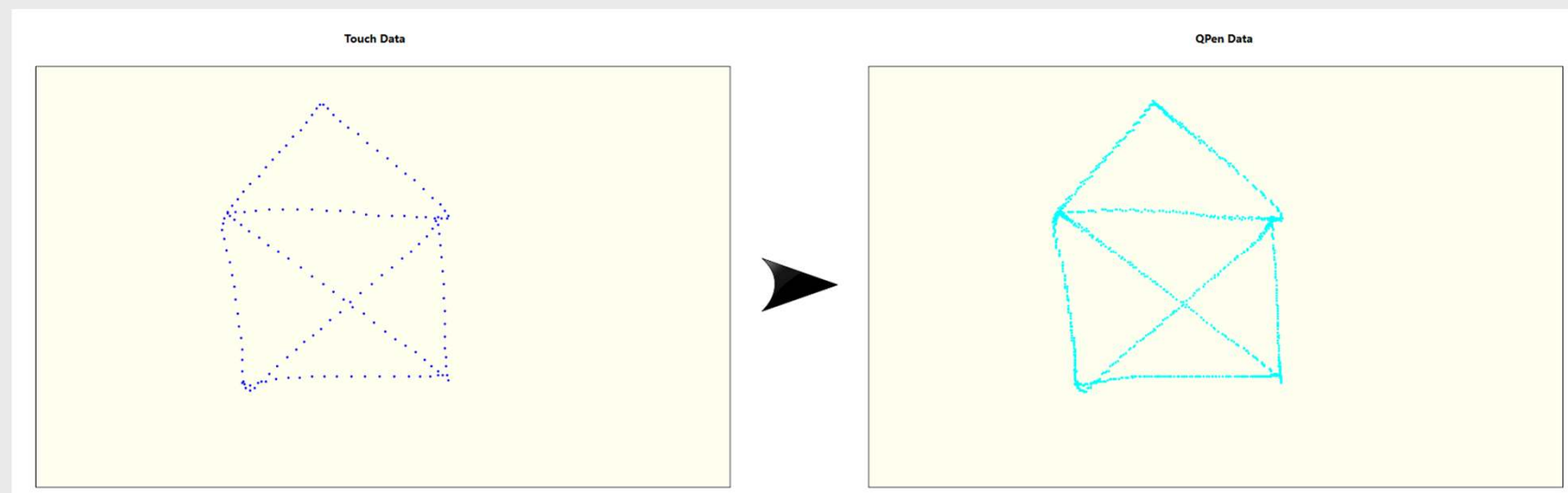
- Q-Pen interaction can trigger different events than finger touches
 - Q-Pen draws and creates ink objects (OCR for handwriting and shape recognition)
 - finger touch for pan and zoom gestures, object handling
 - predefined functions (e.g. close program or save data) only accessible by Q-Pen to avoid unwanted or unauthorized actions on touch display
 - teacher uses Q-Pen, pupils finger touch or passive pens in a classroom situation



Q-Pen

High positional accuracy

- Q-Pen can have much higher position resolution and accuracy as the touch sensor it is used on
 - improve handwriting on large touchscreens with low resolution
 - Reacts as quick as a mouse
 - higher framerate than touchscreen possible

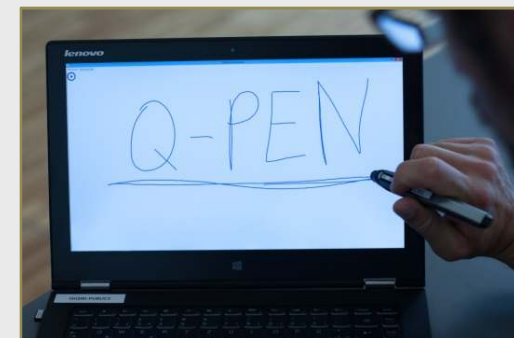
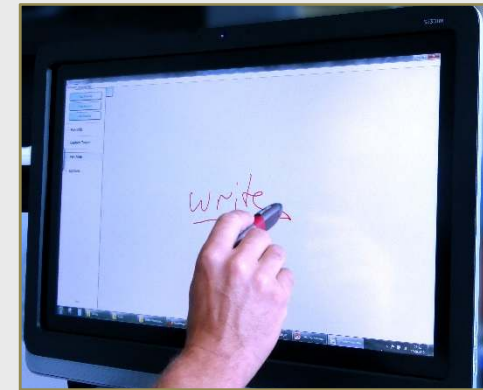
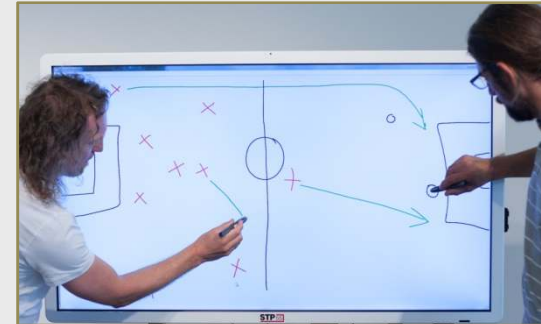


Q-Pen

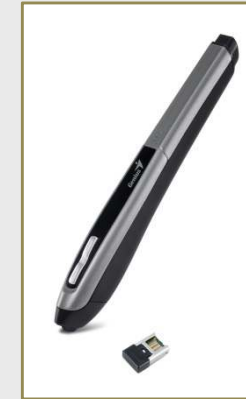
Compatible with ANY type of touchscreen



- Large area optical touchscreen
(e.g. IR grid, Q-Frame[®], ShadowSense[™])
- All-In-One PC with multicamera or capacitive touch
- Ultrabook with capacitive touchscreen



- Pen-Mouse: wireless optical mouse shaped like a pen
 - sends relative movement data
 - sends touchdown information
 - sends all data connected to unique ID
 - can include additional sensors (pressure, buttons,...)
 - proven mass produced technology, available from many sources



- Touchscreen: any touch digitizer
 - sends absolute coordinates of fingers and pens on the surface
 - commonly available

- Q-Pen driver software
 - correlates information of optical pen-mouse and touch digitizer
 - connects absolute coordinates with unique ID
 - connects absolute coordinates with additional sensor data
 - improves absolute coordinate data by using relative data from pen-mouse



- Patents pending in US, WO, EP, CN, JP, AT

Q-Pen Applications



- Accessory for interactive whiteboards
 - multiple pens can be sold per whiteboard (e.g. with fixed colors)
 - continuous sales due to pens getting lost / broken
 - added value to whiteboard software integrating Q-Pen functionality
 - retrofit of existing installations



- Accessory for any personal touch device (All-in-one PC, Ultrabook, Tablet)
 - Q-Pen is compatible with Windows Stylus functions
 - can use any touchscreen to get functionality as with stylus
 - many programs available supporting Windows Stylus API
 - can be bundled with Windows Stylus compatible software



Q-Pen

Further Information



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