

## SOTM17A-S001 Product information



The SOTM17A-S001 is the 17 inches model of the SOTM Touch screen solution from Sensitive Object. Using the Reversys™ technology, based on the recognition of acoustic waves generated by the user touch, the SOTouch® products combine the benefits of resistive, capacitive and SAW technologies.

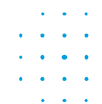
#### Key benefits :

- Multiple activation modes (finger, gloved hand, stylus or credit card)
- Very high accuracy
- Film free, scratch permissive surface
- Top optical characteristics allow use of low-powered and cost optimized displays

The SOTM17A-S001 product is best suited for integration into systems such as:

- Point of Sales
- Kiosks
- Automatic Teller Machine
- Medical
- Industrial
- Consumer Electronics
- etc.





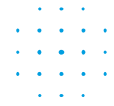
## Product Data

### General performances

<b>Activation method</b>	Finger, gloved hand, stylus, credit cardE
<b>Palm rejection</b>	Yes
<b>Accuracy</b>	Max error <1% of diagonal size
<b>Resolution</b>	Scalable from low to very high resolution (higher than 4096 x 4096)
<b>Seals</b>	Internal and external gaskets provided
<b>Max response time</b>	40ms

### Optics and Mechanics

<b>Light transmission</b>	Pure glass, light transmission >90%
<b>Surface finish</b>	Anti-glare (front side)
<b>Sealability</b>	Up to IP64
<b>Mounting</b>	See Product Manual for further details
<b>Diagonal size</b>	17.1" (operating area)
<b>Total dimensions</b>	355.6 x 288 mm
<b>View area</b>	341.6 x 274 mm
<b>Operating area</b>	339.6 x 272 mm
<b>External seal thickness</b>	Thickness 3 mm uncompressed (30% recommended compression), width 6mm
<b>Internal seal thickness</b>	Thickness 1.6mm, width 4mm
<b>Technical zone</b>	7mm
<b>Glass thickness</b>	2.85mm (+/- 0.05mm) excluding tail (tail thickness lower than 1mm, see integration manual)
<b>Touch activation force</b>	0.5N (dynamic)
<b>Tail mechanics</b>	14 mm width, 250 mm length, 9 o'clock positioning
<b>Tail shielding</b>	2 sides shielding



## Environmental

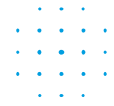
<b>Operating temperature range</b>	-20 / +55 °C
<b>Storage</b>	-40 / +70 °C
<b>Humidity</b>	93%, 40°C, 240 hours
<b>Noise immunity</b>	Up to 80dB
<b>Regulatory</b>	CE / FCC-B / CISPR22 Class B / CB Certificate (EN 60950-1 / IEC 60950-1 / UL 60950-1 / CAN/CSA C22.2 N°. 60950-1) / RoHS Compliant

## Durability

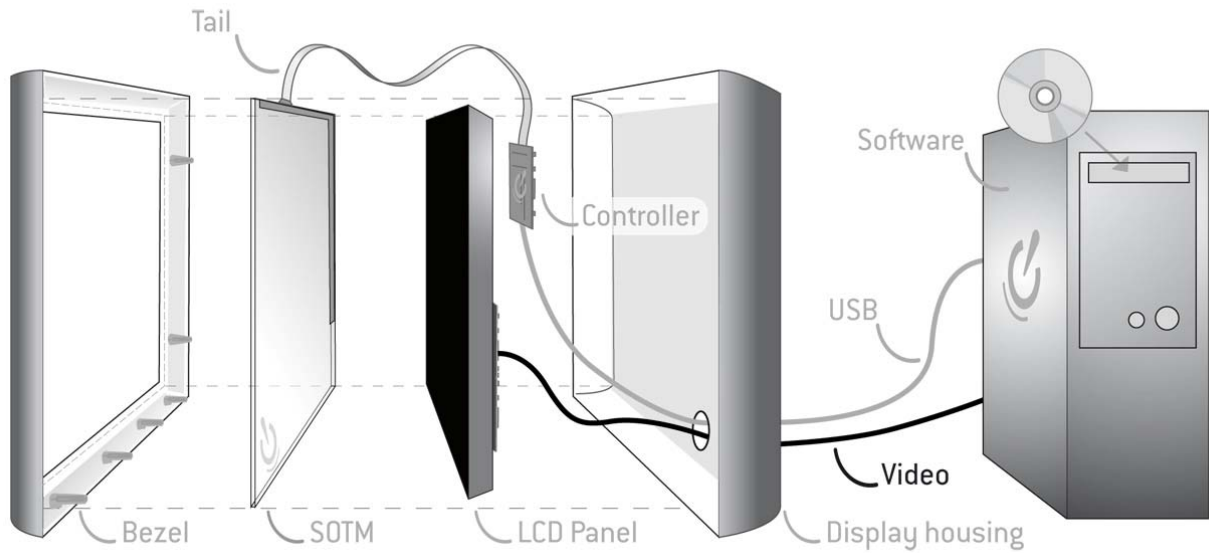
<b>Touch life</b>	>50 millions activation on a single location
<b>Calibration</b>	No recalibration against time
<b>Surface chemical resistance</b>	Glass resistance (tea, ink, Windex, beer, toluene, acetone, ethyl acetate, gasoline, ammonia based products)
<b>Surface state</b>	Dirt, liquids, other external elements on the active surface does not cause functional failure
<b>Surface hardness</b>	MOHS hardness 7 or higher is required to induce a scratch. However, this will not cause functional failure.

## Controller Information

<b>PC connection</b>	USB MiniB cable (not provided)
<b>Tail connection</b>	Latch type, face down, 2.54mm pitch
<b>MTBF</b>	>760 000 hours
<b>PCB dimensions</b>	62 x 33 x 1.6mm
<b>Operating temperature</b>	0° to +55°C
<b>Storage temperature</b>	-40° to +70°C
<b>Relative Humidity</b>	+40°C 93% RH (Non-Condensing)



## Product Structure



The SOTM17A – S001 touch screen solution is composed of:


- A touch panel
- A USB controller
- A driver software
- An acoustic database



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