

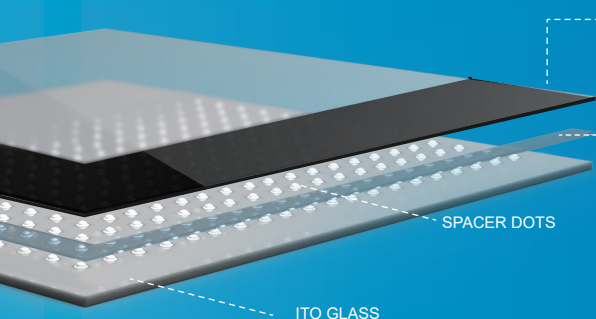


True Flat Resistive Touch Solution

Our **True Flat Resistive** touch solution combines the simplicity, versatility and durability of our 5-wire resistive technology with an attractive zero-bezel design. The flush surface is easier to clean and there will be no dust or dirt buildup or water leakage into the bezel, making it an excellent solution for sterile or dust free environments such as medical clinics, scientific laboratories, restaurants or food processing areas. What's more, you now also incorporate features such as logos or hotkey buttons on the cover design*.

(*THREE LAYER TRUE FLAT DESIGN)

Construction 1: Two Layer True Flat (black BM printing only)



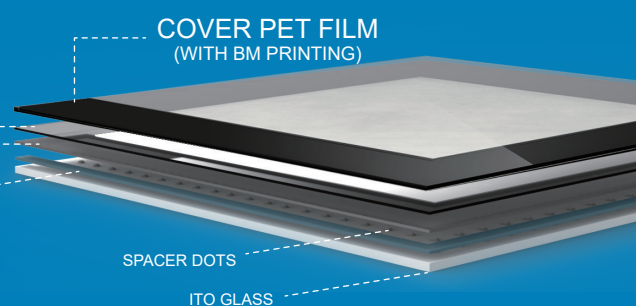
ITO FILM
(WITH BM PRINTING)

ADHESIVE

SPACER DOTS

ITO GLASS

Construction 2: Three Layer True Flat



COVER PET FILM
(WITH BM PRINTING)

OCA
ITO FILM

ADHESIVE

SPACER DOTS

ITO GLASS

Benefits of Higgstec True Flat Resistive Solution

Appearance

Flush zero-bezel surface, more visually attractive, more customization and easier to keep clean, prevents dirt / dust build-up or water to enter via bezel

Durability

Tested for up to 35 million touches. High temperature production process ensures excellent durability even in harsh operating temperatures.

Operation

Precise linearity, stable and no drifting. Versatile input: fingers, gloves, passive stylus

Mechanical

5-wire resistive design ensures long-lasting functionality and stability even if surface is scratched or broken. Hotkey buttons can be incorporated onto front bezel.



Front panel customizable with logos, hotkey buttons etc.



High temperature production process for ultra-durability



FPC tail can be customized for length, location and shape.


TOUCH PANEL SPECIFICATION

Size Range	7" – 21.5" (standard)	3.5" – 24" (customized)
Optical		
Light Transmittance	≥77% (Measured by BYK-Gardner)	
Mechanical		
Input Methods	Finger, glove or passive stylus	
Number of Touches	Single	
Touch Activation Force	R0.8 Stylus ≤ 50g (2-layer TF) R0.8 Stylus ≤ 80g (3-layer TF)	
Surface Hardness	3H	
Tail Options	FPC tail. Customize tail length and location.	
Customization Options	Solar-resistance, privacy filter, EMI shielding, anti-glare (2-layer TF & 3-layer TF) Anti-reflection, hard-coating (3-layer TF)	
Electrical		
Linearity	X ≤ 1.5%, Y ≤ 1.5%	
Reliability		
Operation Temperature / Humidity	-10 ~ +70°C	20%RH ~ 85%RH
Storage Temperature / Humidity	-40 ~ +80°C	20%RH ~ 90%RH
Knock Test	10,000,000 times (For military, automotive, high standard applications could reach 35,000,000 times with special materials)	
Compliance	CE, FCC, RoHS, REACH	
Warranty	2-year limited warranty	
Controller*		
Interface	USB / RS232 / COMBO	
Power Requirements	3.3~5V DC, 100mA typical	
OS Supported	Windows, Android, Linux, Mac, QNX	

**Typical values, various controller solutions available*