

Your World View in a Touch



# Touch Window – Solution for a bezelless design



## Introduction:

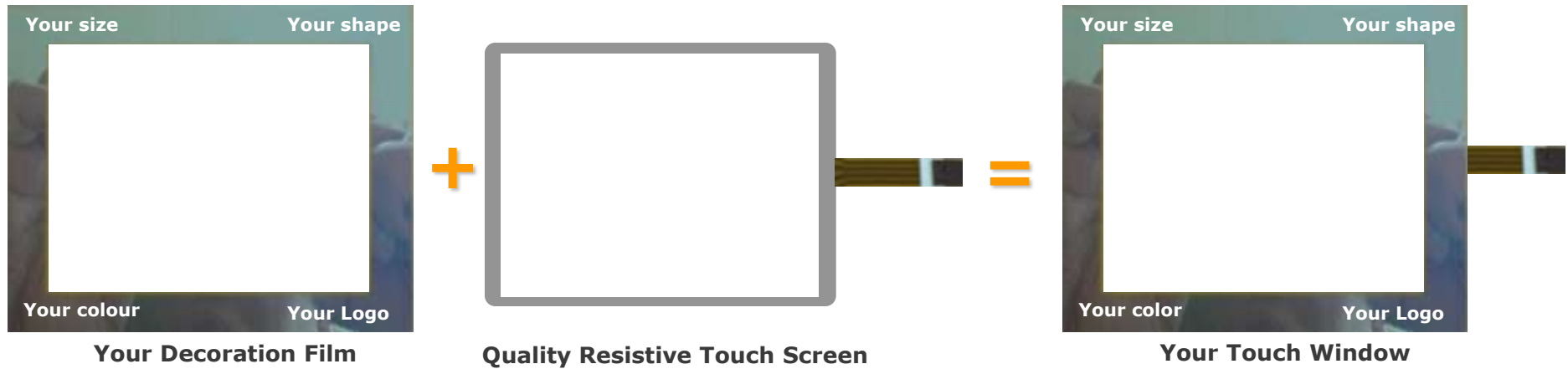
The market shows a growing demand for Touch-Input-Devices with a flat surface and no bezel. Reasons for flat surface designs range from product design aspects to esthetics or hygienic purposes. (e.g.: Easy cleaning for medical applications)

TouchWindow Solutions are dedicated customized Products, which fulfill all requirements for bezel-less designs, printed surfaces and additional touch-based function keys.

Our TouchWindow solutions can also incorporate Resistive Multi-Touch Functionality. (RMTS)

The next pages introduce TouchWindow developments for special customer requirements.

## Touch Window – Solution for a bezelless design



A decoration cover lens (customized design) is optically bonded to the front of a quality resistive Touch Screen or RMTS. This Technology was especially innovated for bezel-less design applications (Industrial Control, Medical, Mobile Devices).

### Features:

- Fully customized - No edge effects
- Completely flat surface with better visual effect
- Very Thin Structure
- Slim assembly without bezel makes the devices thinner and smaller
- A variety of decorative printing as well as customization available
- Substrate flexibility: Glass (Stability) or PC (Flexibility)
- Suitable for RMTS (Resistive Multi-Touch-Screens)

# Touch Window – Solution for a bezelless design



## Material:

## Stack-up Layers:

## Function:

Decoration  
Film



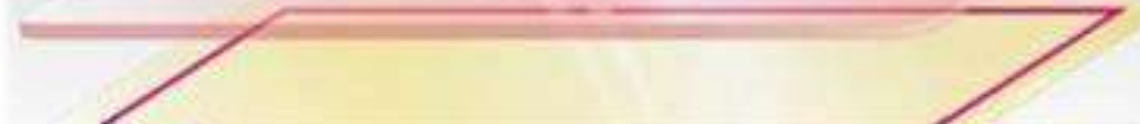
Decoration Layer  
Customized Printing / Logo /  
Function Keys

OCA



Optical Clear Adhesive to  
attach Decoration-Film to ITO-Film

ITO-Film



Assures Linearity / Activation Force  
Hitting- and Writing-Life, Reliability

DST



Double-Sided-Tape to  
Connect ITO-Film to ITO-Substrate

ITO-  
Substrate

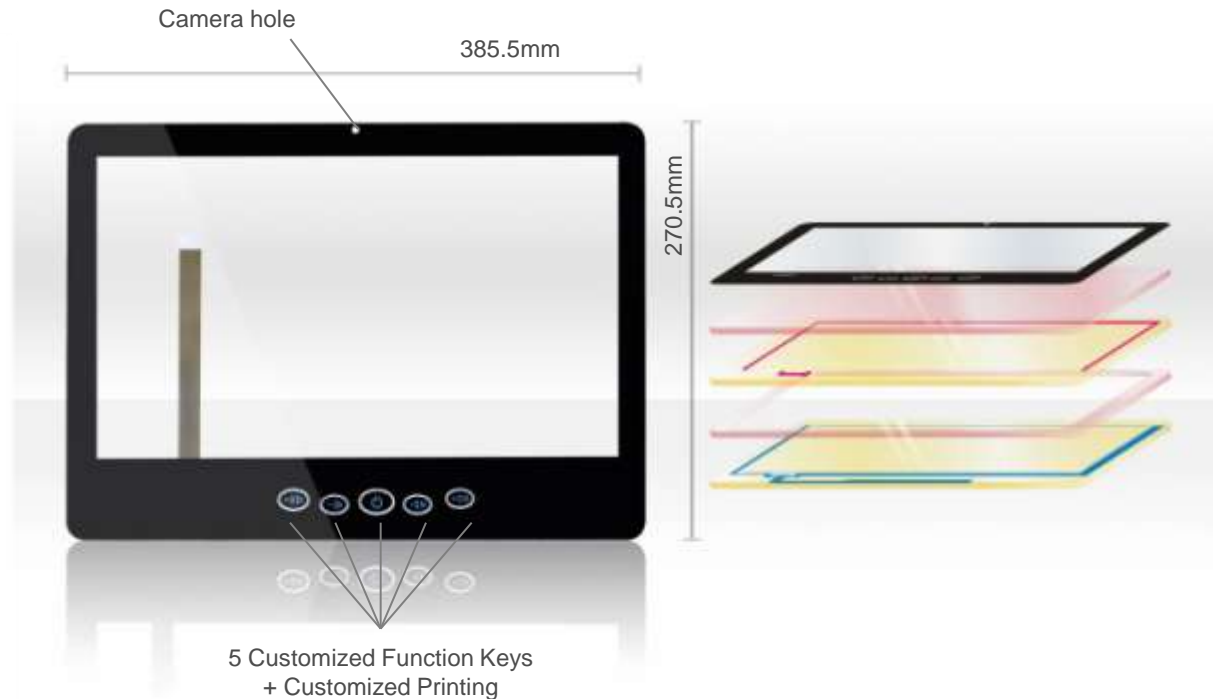


Stability & Assembly  
Option of ITO:  
**Glass (Stability)** or  
**Polycarbonate (Flexibility)**  
Assembly with Monitor (LCD/TFT)  
or ID Housing

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## Examples for customized designs :

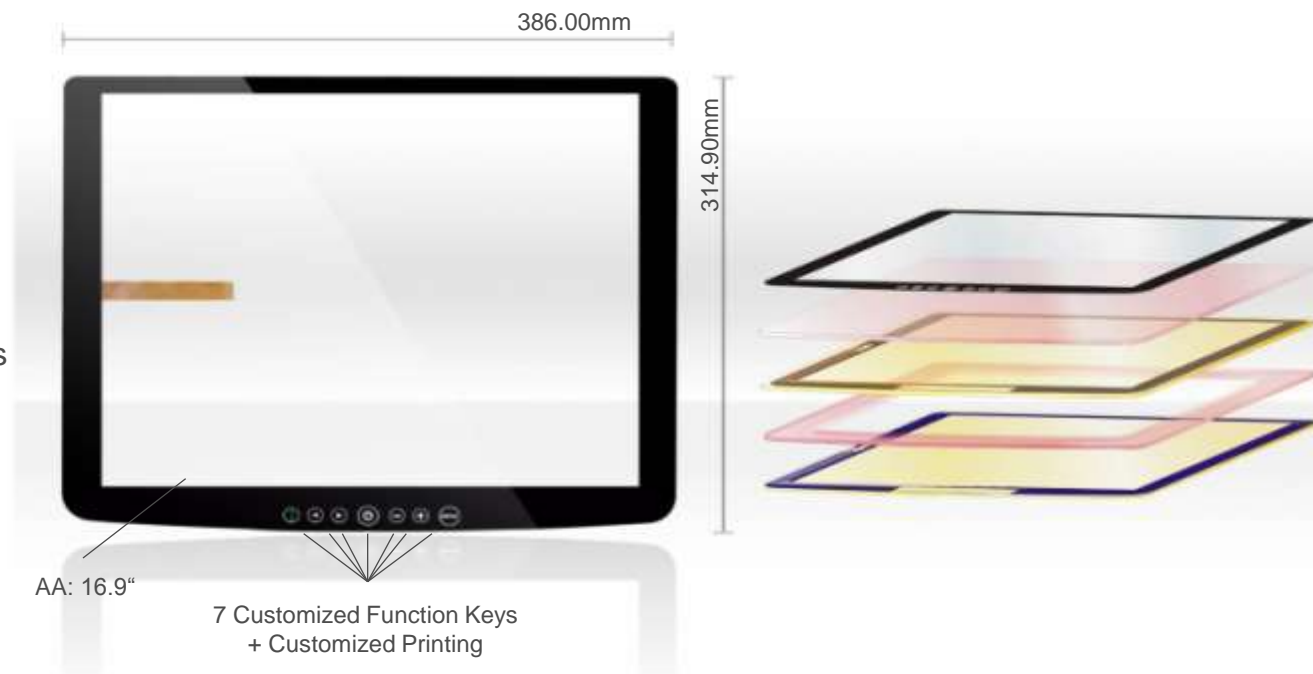
- 15.9" Analog Resistive Touch Window
- 5 Customized Digital Function Keys
- Camera Hole / LED Indicator
- Anti-Glare Surface Treatment
- 2.8mm Chemically Strengthened ITO Glass
- Transmission Rate: 80%
- Haze : 1.5%



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## Examples for customized designs :

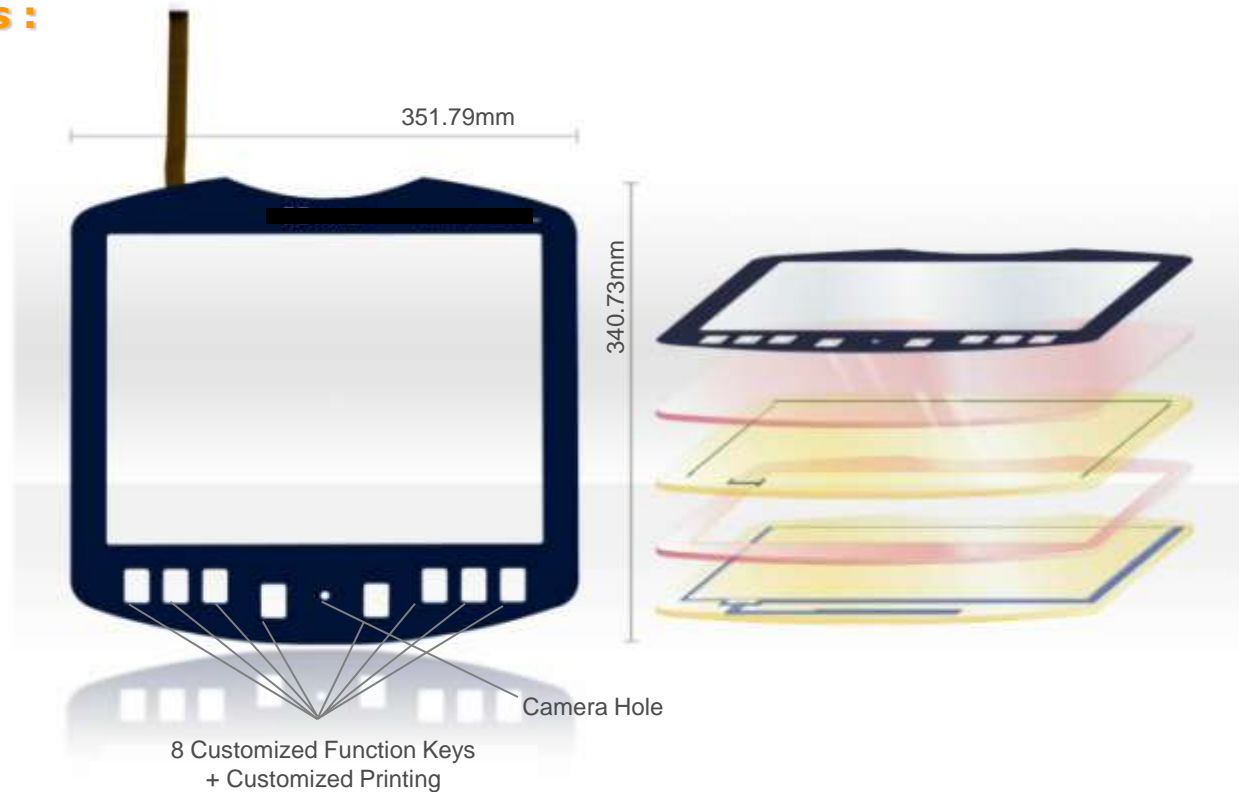
- 16.9" Analog Resistive Touch Window
- 7 Customized Digital Function Keys
- Anti-Glare Surface Treatment
- 1.8mm Chemically Strengthened ITO Glass
- Transmission Rate: 80%
- Haze : 1.5%



# Touch Window – Solution for a bezelless design

## Examples for customized designs :

- 14.9" Analog Resistive Touch Window
- 8 Customized Digital Function Keys
- Camera Hole / LED Indicator
- Anti-Glare Surface Treatment
- 2.8mm Chemically Strengthened ITO Glass
- FPC routing through Substrate Glass
- Transmission Rate: 80%
- Haze : 1.5%



## PanJit Touch Screens – Your Advantages



- Leadership in Designing & Manufacturing Touch Screen Technologies
- Full Range of Customized Solutions
- All-In-One Controller available (on Chip- or Board-Level)
- Support + Assistance: From Standard Products to Customized Solutions
- Full Supply Chain: From First Inquiry to After-Sales-Support
- Strong Project Monitoring to meet Your Deadlines
- Short Design Cycles

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