Features

- ■ Safety and robust
- ❏ Anti-scratch, laminate on the back of glass
- ❏ Waterproof, dust-proof, bullet-proof, Acid-proof
- ❏ No expose components, safety.
- ❏ No mechanical components with long life
- ❏ Industrial temperature range: −20 °C to +80 °C
- ■ Art and Sci-Fi
- ❏ High transparency ≥93%, glass-level transparency
- ❏ No bezel of touch area
- ❏ Thin and light, the sensor thickness only 0.17mm
- ❏ Thru-glass touch, the maximum thickness of glass can reach 20mm.
- ❏ Only hands valid, no touch action of metal, plastic, and so on.
- ■ Excellent experience
- ❏ Zero pressure touch, even with glove.
- ❏ Mouse function with Zoom in/out and rotation.
- ❏ 2 points Multi-touch, Support TUIO & Win Native
- ❏ Precise touch & real-time response
- ❏ Rapid handwriting performance
- ■ Advanced features
- ❏ Low power consumption, the maximum power consumption is only 0.5w
- ❏ Flexible, could be applied to curve surface touch screen
- ❏ The film sensor could be laminated on any smooth non-metallic flat
- ❏ Various size from 32" to 55", lowest cost customization.
- ■ Disadvantage
- ❏ Susceptible to the EMI (electromagnetic interference), We need to do EMC work strictly in system integration process.

Overview

The ProTouch® iFoil® DT-S64-YT is 6th generation interactive foil that manufactured by UC Nano Inc. Quickly allowing ordinary glass into a precise touch screen. It's large format flexible touch panel, covering from 32 to 55 inches. It consists of three key parts. 1st is film sensor, 2nd is the control circuit board (eBoard), 3rd is driver.

Film sensor is a flexible large touch film which is environment-friendly technology product, has features of high transparency, light and thin. The film encapsulated micro-nano wire grid sensor network, that can precisely sense finger touch. It uses glass through sensing technology, easily change an ordinary display to bullet-proof touch screen. Especially for large size.
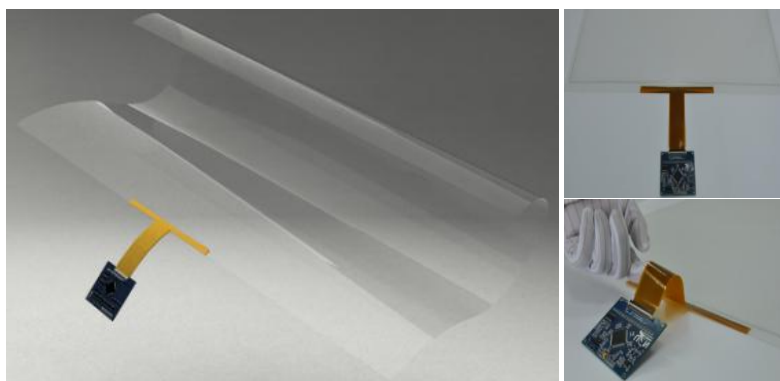
eBoard use SoC architecture, so the PCB is small and slim. With strong noise filtering algorithm, It can detect weak signal that caused by hands.

Driver supports Windows7(Professional/Ultimate/Enterprise) & Windows 8, include 32 bit and 64 bit, Linux and Android.

DT-S64-YT is a permanent version, once you peel off the cover layer and laminate onto the glass. the sensor will be permanently fixed.

Pure flat, sci-fi and bullet-proof are the application trend. DT-S64-YT can fulfill with this requirement. It Will bring much more value-added and fun to user.

Susceptible to the EMI (electromagnetic interference), is the only disadvantage of DT-S64-YT. In the system integration process we strictly do EMC (electromagnetic compatibility), ouch experience will be better. Please refer to " *ProTouch iFoil EMC application reference*".

Contents

Technical Specification

| TYPE	DT-S64-YT (DT-Dual Touch, SXX-Sensor, YT-Yellow Tail)
Detection Method	Improved Projected Capacitance Touch technology using a horizontal and vertical XY array of sensing wires
Size	32" - 55" (16:9)
	custom size available
Customisable features	Sizes, Tail Position, Active Area, Cut Size
Fixing Options	Permanent
Position Accuracy	Approximately 1mm relative, No Drift
Alignment	Software drivers provide a calibration facility
Number of Electrode	64 way
Sensitivity	Can be programmed for different thickness of glass and even use with gloved hands. Standard configuration functions with non-metallic single construction glass 25mm thick inclusive of glass and air gap. Sensitivity through Double Glazing also possible*
Scan frequency	70Hz to 120Hz
Output	USB 2.0, Male A to Male Mini B
Driver Compatibility	Windows XP, Windows 7, Windows 8 (32 Bit / 64 Bit)
	MAC OS X Lion (customization)
	Linux(Ubuntu) (customization)
	Android (4.0↑, Depends on customization)
Touch Function	mouse function and multi-touch 2 points (support TUIO & Windows Native) Support rapid handwriting
Temperature Range	-20℃ ~ +80℃
Humidity Control	0%-95%. Unaffected by condensation
Light Transmission	Typically better than 93%
EMC	EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011
Power	Maximum 0.5w
Invention Patent	ZL200910181699.5
Safety environment and health	CE (GR2107/010845CC), FCC (STE120904208), RoHS (UST-ROHS-0969)
*This device complies with Part 15 of the CE Rules Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2)this device must accept any interference received,including interference that may cause undesired operation.	

Product Version

Fixed Method Dependant

Version	Adhesive Type	Product Positioning	Main Uses	Can be attached to…
Permanent	tackiness	Permanent long term installations	Interactive writing board, etc.	Glass , smooth non-metallic surface

Tail Location Dependant

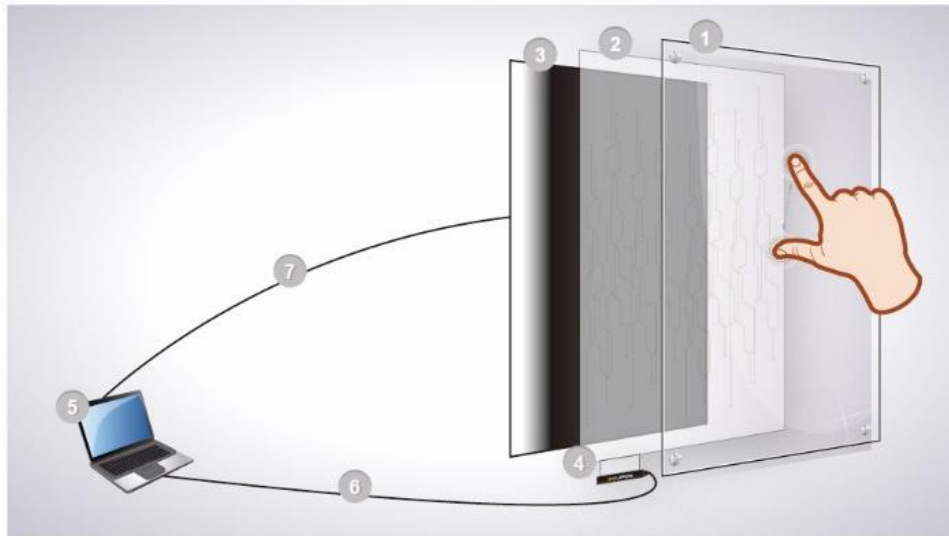| Version	Tail location
Side	Side extend or short side extend
Bottom	Bottom extend or long side extend
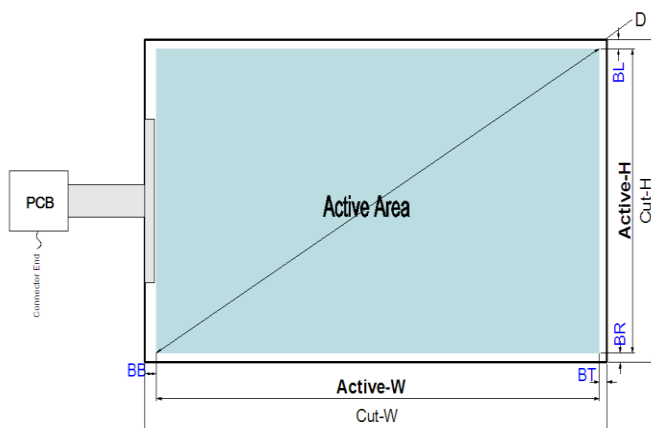
Side version
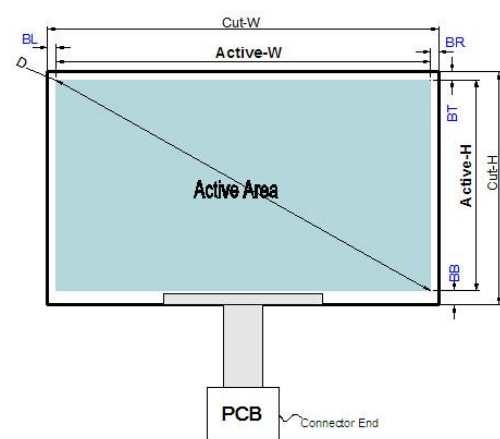
Bottom version

Usage

Permanent Version

interactive LCD/LED solution

1, Temper Glass

2, ProTouch iFoil

3, LCD

4, eBoard

5, Computer/PC

6, USB cable

7, VGA / HDMI cable

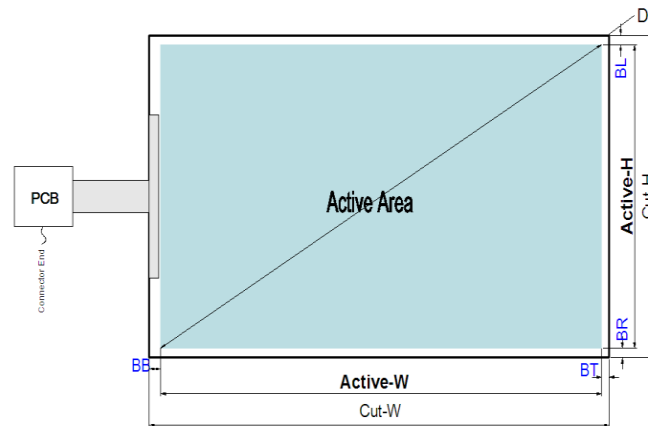Refer to Quick start and User manual in each Tube or Box package.

Driver

Version	Tail Location
Side	S64, S means Side, 64 means 64 way
Bottom	B64, B means Bottom, 64 means 64 way

Size Specification

Standard Sizes Reference (mm), Side Tail

Format	Ratio	Active-H	Active-W	D	Cut-W	Cut-H	BR	BT	BB	BL
32	16:9	400	710	815	745	420	10	10	25	10
40	16:9	498	885	1015	920	518	10	10	25	10
42	16:9	524	932	1069	967	544	10	10	25	10
46	16:9	573	1018	1168	1053	593	10	10	25	10
50	16:9	630	1110	1276	1145	650	10	10	25	10
52	16:9	648	1150	1320	1185	668	10	10	25	10
55	16:9	685	1218	1397	1253	705	10	10	25	10

eBoard Size

eBoard is the tail PCB board.
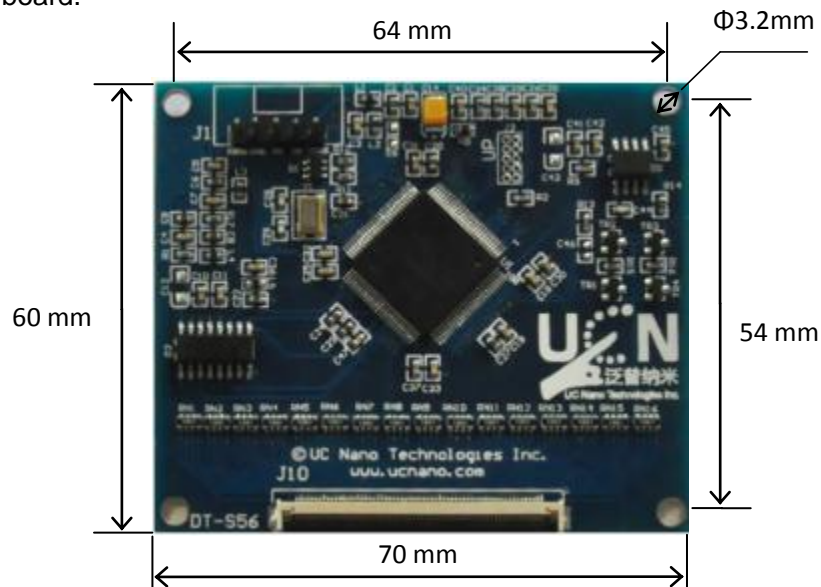
Ordering Information

Package type	Operating Temperature	Pieces of ProTouch® iFoil®	Ordering Code
Tube	Industrial	1 PCS	Sample 42-16x9-A524x932-C544x967-YT-CENT-NSU-S64-D
Box	Industrial	10 PCS	

Ordering Code Definitions

Sample

42-16x9-A524x932-C544x967-YT-CENT-NSU-S64-D

- Permanent version
- Driver version
- Side Tail. if NBU means Bottom Tail
- Film Tail Center
- Yellow Tail
- Cut area
- Touch valid area
- Ratio, that Bottom with Side
- Size

Application Reference

interactive Digital Signage, touch table, Kiosk. touch wall, touch mirror, etc.

Package Information

UC Nano provides 2 kind of standard shipping container for customers, unless customer specifies their own packing information. The standard packing method are tube and box.

Note, the Box contains 10 PCS, the size ≤ 55"

the tube contains 1 PCS, size from 32" to 55"

Document Conventions

Units of Measure

Symbol	Unit of Measure
° C	degree Celsius
ms	millisecond
mm	millimeter
V	volt
w	watt
"	Inch, 1 inch = 25.4mm

Acronyms

Acronym	Description
UCN	UC Nano Technologies Inc. ucnano.com
eBoard	electronics Board
ProTouch	Trademark of UC Nano
iFoil	Interactive Foil
EMI	Electromagnetic Interference
EMC	Electromagnetic Compatibility

Document History Page

Document Title: ProTouch® iFoil® DT-S64-YT - Product specification Document Number: 002-5.7-141016				
Revision	ECN	Orig. of Change	Submission Date	Description of Change
**	5.1	Jason	06/12/2010	New data sheet.
*A	5.5	Jason	11/21/2012	Porting to fit for new doc spec.
*B	5.5	Jason	12/28/2012	Updated Features, add size various ... Updated Technical Specification, scan frequency 70 to 120Hz, add Power section, add Android driver compatible. Updated package information, add box package. Updated Usage diagram. Add Application Reference. Updated Ordering Code Definitions. Add PROPRIETARY NOTE
*A	5.7	Cassiel Alinna Steven Eric	09/29/2014	Updated the product name, to DT-S64-YT Updated size range, the size is 30 inch -100 inch to 32 inches -55 inches Updated version of the product, leaving only Permanent Version Updated the Ordering Code Definitions in the size of the C, the original C100 becomes CENT,T60 becomes YT Updated the film edge size Updated the graphics and controller of touch control film graphics
*B	5.7	Young	10/16/2014	Revised packaging information

Legal Information

Service Support

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Service Support
Tel.   (86) 4006-192-129 / 4009-216-621
Fax.   (86) 0512-62111358
Web.http://ucnano.com

Products & Solutions

Different from Infrared touch screen or Optical touch screen, ProTouch iFoil integrated with LCD need the professional help of EMC engineers. Do EMI shielding processing, can bring a better touch experience. Please refer to "*ProTouch iFoil application reference*". If there is no EMC professional engineers, please ask UC Nano for technical support.

The ProTouch® iFoil® has many cooperators and integrators, thru-cooperator, we can provide many interactive kiosks and solutions. the interactive kiosk products include, Digital Signage, i-Kiosk. also we open integration technology to our user for your quick startup on using ProTouch® iFoil® series.

PROPRIETARY NOTE