

PAN JIT 強茂股份有限公司
SEMI CONDUCTOR PAN JIT INTERNATIONAL INC.

Touch Panel Division



C O D I C O[®]

Mühlgasse 86-88 • A-2380 Perchtoldsdorf • Austria
Tel: +43 1 86 305 - 0 • Fax: +43 1 86 305 - 98
e-mail: office@codico.com • www.codico.com



About TP Division

PAN JIT TP Division's mission is to provide innovative and competitive touch panel peripherals with a total commitment to technical services and support.

- ▶ **Our products include :**
Touch Panel, Touch Screen, Touch panel Driver.
- ▶ **Merit :**
Automatic production line
High quality and efficiency
Satisfactory customer service

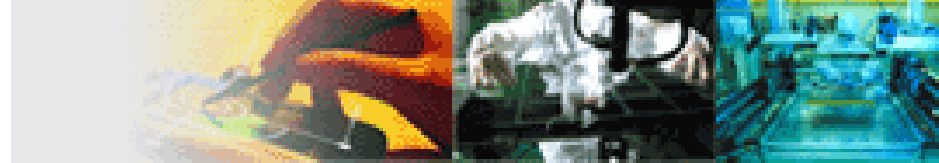




Company Overview

- ▶ **Founded in : October, 2000**
- ▶ **Fab area : 3000m²**
- ▶ **Products : Touch Panel, Touch Screen, Driver Module**
- ▶ **Location: 8F, No. 17-1, Yong Gong 1st Rd, Yongan Shiang, Kaohsiung Hsien, Taiwan 828, R.O.C.**
- ▶ **Wed site : <http://www.panjit.com.tw>**





Company Overview

History

The main product for PAN JIT TP Division at the beginning was Touch Panel. There are many patents applied now and PAN JIT TP Division is qualified to be competitive with the others.

Executive profiles.

PAN JIT TP Division possesses rigidly technical research team and continuously innovates with high quality. We prided ourselves on the customer's satisfactory, and insists upon "innovation, development, responsibility and permanent" to lead the group into the new century.

Fully Automated Production Line:

- High quality and efficiency
- Fast and resilience
- Research on new system engineering





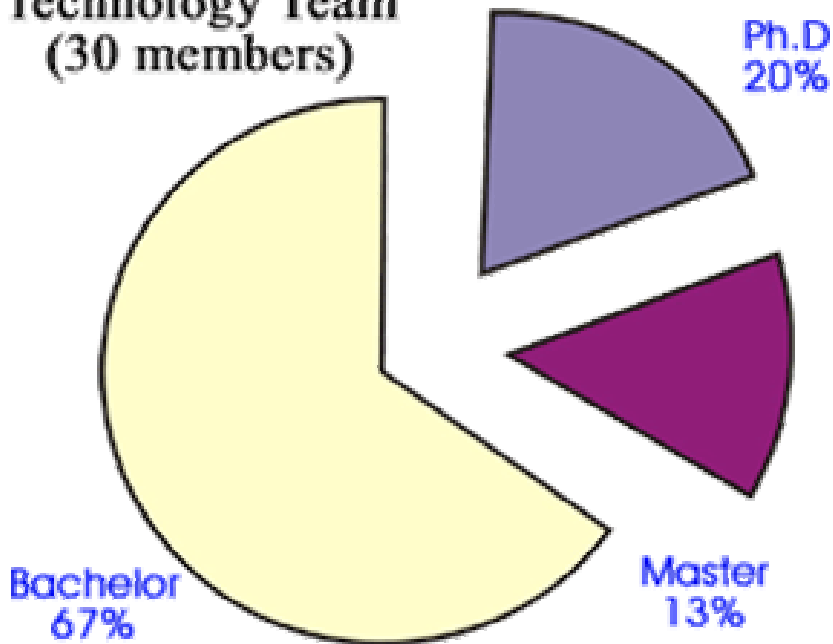
Technology Team

Experience:

- Product research
- Process innovation
- Patent announcements

- Optical design
- Semiconductor process techniques
- PCB process techniques
- Drive IC and software design.

Technology Team
(30 members)





Quality System

I.Q.C

- 1.Raw Material Incoming Inspection Management
- 2.Subcontract Material Inspection Management
- 3.New Material I.Q.C Procedure Planning
- 4.Supplier and Subcontract Evaluate and Audit

I.P.Q.C

- 1.In Process Products First Article Inspection
- 2.In Process Products Quality Inspection
- 3.Process Quality Failure Control
- 4.Process SPC Quality Improvement Audit
- 5.Process Critical Parameter Audit

O.Q.C

- 1.Final Product Appearance Inspection
- 2.Product Yield and Defect Analysis
- 3.Out-Going Sampling Inspection
- 4.Out-Going Specification Verify and Planning
- 5.Out-Going Product Reliability Test
- 6.New Material Reliability Test

C.S

- 1.Customer complain Investigate and C.A.R Feedback
- 2.Return product Defect Analysis and management
- 3.Customer Request and After Service
- 4.Quality System Meeting For Customer Visiting

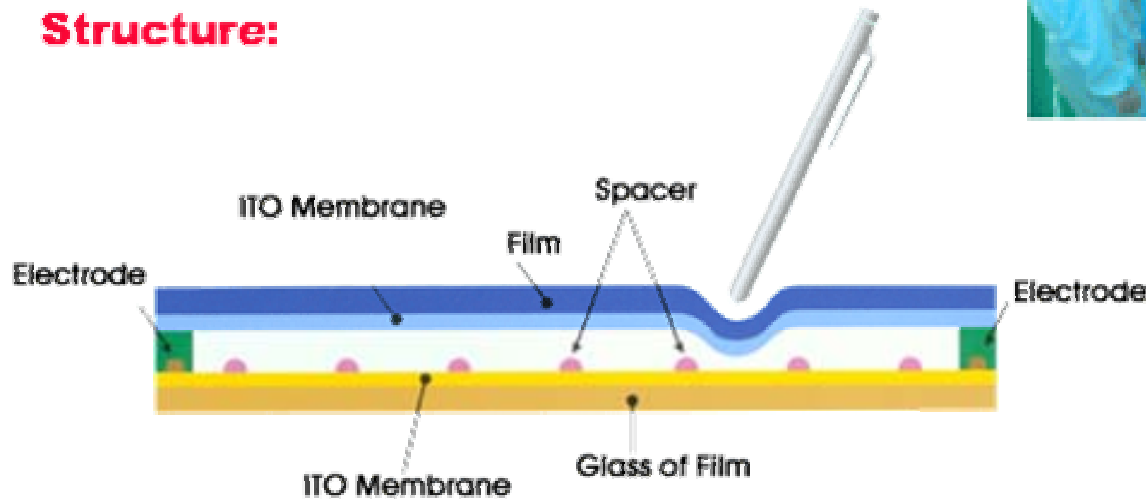
ISO/DCC

- 1.ISO System Management And Maintenance
- 2.Document Operation Management
- 3.Internal Quality System Audit And Maintenance
- 4.Equipment Measurement Monitoring
- 5.ECN Quality Traceability Control



Touch Panel

Structure:



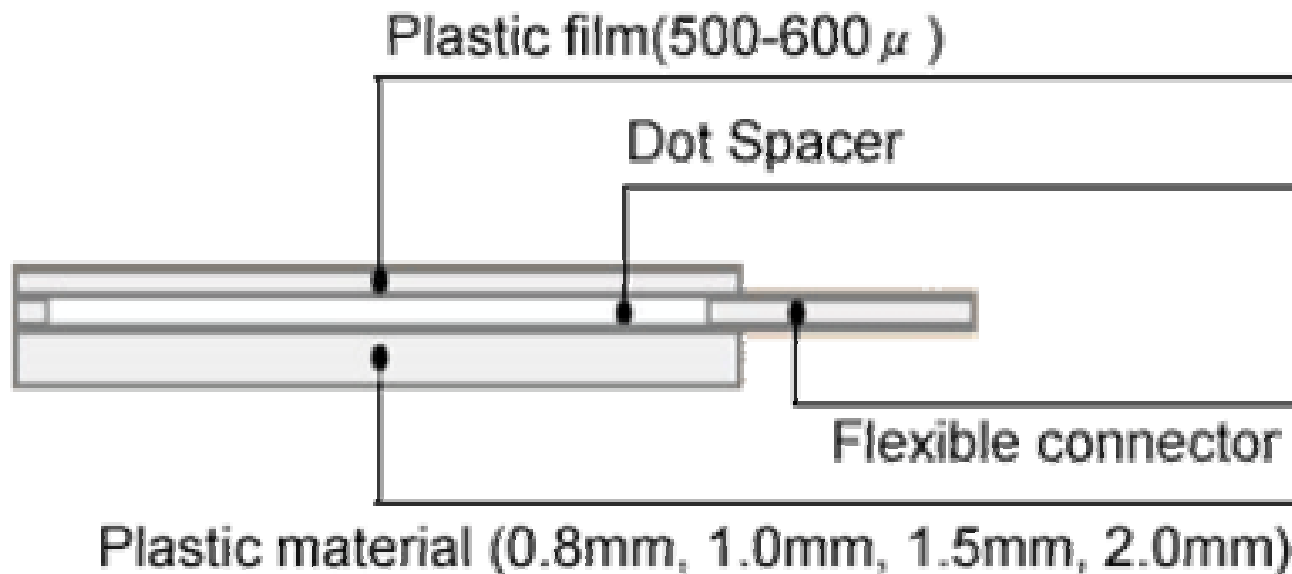
Product: Thin film resistive touch panel.

Material: Indium Tin Oxide Conductive glass and film.

Principle: Applying a load on top electrode by finger or pen to cause the conduction with the bottom electrode. Then get the touch position by calculating the electrical signal.



Film on PC More flexible, Longer life



Cross-section



Product description:

- The need for digital life and reach the visional entertainments
- A new generation flat panel display with accurate handwriting function
- Possessing the strongly handwriting and recognizing functions of the Tablet PC
- Being able to write and control on the LCD touch panel by the arrangement with the PC
- The applications on the digital life: commercial environment, education, medical system, public guide, electric sign and art design
- Directly signing, leaving the script on picture or operate the interacted presentation on screen easily.
- Substitution of the traditional mouse and keyboard.



Touch LCD Monitor

Product Characteristics:

- System requirements:
 - Pentium 200 MHz or above
 - 32MB RAM or above. (64MB suggestion)
 - X4 CDROM
 - USB / RS232 interface
 - At least 24bit (High color) display with 4MB memory of video card.
- Windows 98/ME/2000/XP, Mac 9.0/9.1/9.2





Touch LCD Monitor

Specification:

LCD Panel	15.0" TFT, 0.297mm, TTL	Audio	1w/8Ω Stereo 3D
Response Time	13ms/25ms	Power Supply	AC 90~264, 50~60Hz
Tuner (optional)	NTSC-M; PAL B/G; PAL I	Power management	VESA-DPMS (Max.) : 30W Saving mode less than 3W
Viewing Angle	-70~70 °C (H), -55~65 °C (V)	User's Control	power on/off, OSD control
Resolution	1024 x 768(XGA)/800 x 600 (SVGA)/640 x 480(VGA)	Dimension (mm)	300 (L) x 285 (W) x 47 (D)
Display Colors	16.7 M (8 bits/color)	Weight	3.9 Kg
Pixel Pitch	0.297 (H) x 0.297 (V) (mm)	Safety certifications	UL, FCC, CE
Backlight Unit	2 Edge-light CCFL	Environmental Condition	Operation temperature): 0~50°C Reservation temperature: -20~60°C
Contrast Ration	350:01:00		Moisture: 10~90%
Brightness	250 cd/m2	Accessories	12V 48W power convert power wire signal wire
Display Area	304.1 (H) x 228.1 (V) (mm)		
Video	C - Video ; S - Video		

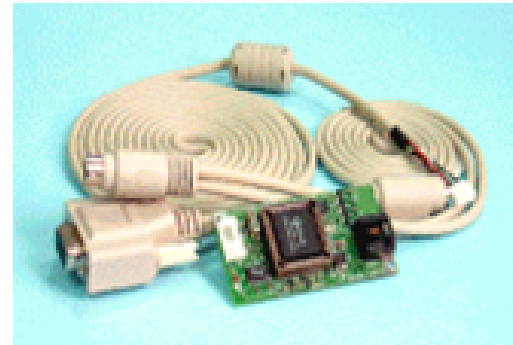


Controller

Support serial RS232 interfaces.



Support USB interfaces.



- Touch panel controller provides the optimistic performance of 4-wire and 5-wire analog resistive touch panels.
- It communicates with PC systems directly through RS232 or USB connector.
- The design supplies sensitivity, accuracy and friendly operation.
- The touch panel driver emulates mouse left and right button function and supports operation systems
- Including Microsoft Windows2000, Windows 9X, WindowsMe, Windows NT 4.0, DOS, Linux, iMac, Windows CE, WindowsXP 2002,etc.



Specification

Size (inch)	Model No,	Outside dimension(mm)	Active Area AA(HxV)(mm)	Glass thickness (mm)
4-wire				
2,2	S022402	55,68x41,9	43,56x34,848	0,7
2,3	S023401	55,5x45,0	47,7x34,0	0,7
2,6	S026401	57,9x54,48	51,4x46,38	0,7
2,7	S027401	69,9x46,4	62,385x35,985	0,7
2,7	S027402	70,0x46,5	61,6x37,505	1,1
3	S030401	70,3x63,25	61,2x51,8	1,1
3,2	S032401	66,0x67,5	57,1x57,1	0,7
3,2	S032402	76,2x60,0	65,0x49,0	0,7
3,5	S035401	84,0x65,9	72,5x54,6	0,7
3,8	S038401	87,0x70,0	78,3x59,6	0,7
3,8	S038403	90,5x69,4	77,8x58,6	0,7
3,8	S038404	89,0x68,0	77,6x58,5	0,7
3,9	S039401	89,4x69,4	79,5x59,6	0,7
4	S040401	91,3x69,6	60,1x81,3	0,7
4,8	S048401	128,0x74,0	108,0x57,6	0,7
4,8	S048402	104,0x89,8	94,5x77,3	0,7
5,2	S052401	135,1x59,5	123,6x47,6	0,7



Specification

Size (inch)	Model No,	Outside dimension(mm)	Active Area AA(HxV)(mm)	Glass thickness (mm)
4-wire				
5,7	S057401	132,5x104,7	116,2x87,4	1,8
5,7	S057402	142,4x109,0	117,2x88,4	1,1
5,8	S058401	140,0x104,0	119,2x90,3	1,1
6	S060401	132,5x104,6	121,4x93,3	1,1
6,4	S064402	143,0x117,0	132,3x99,8	1,1
6,5	S065401	155,7x105,0	138,7x87,5	1,1
7	S070401	166,0x100,0	155,0x88,0	1,1
7,1	S071402	165,0x106,0	153,4x92,1	1,1
7,5	S075401	99,0 x 191,0	83,0X171,0	1,1
7,5	S075402	181,0x143,0	158,0x118,0	1,1
8,2	S082401	195,0x133,0	175,0x114,7	1,1
8,4	S084402	189,0x141,7	172,2x129,5	1,1
10,4	S104405	225,3x174,0	213,0x160,2	1,1
12,1	S121401	268,0x204,0	246,0X185,0	1,8
14,1	S141401	298,4x228,6	286,7x215,3	1,1
17	S170402	362,0x289,0	338,0x268,0	1,8
20	S200401	433,3X336,4	408,0X306,0	1,8



Specification

Size (inch)	Model No,	Outside dimension(mm)	Active Area AA(HxV)(mm)	Glass thickness (mm)
5-wire				
10,4	S104501	238,8x188,7	212,1x159,3	1,8
12,1	S121502	271,3x205,7	248,9x187,4	1,8
14,1	S141501	327,2x240,0	287,0x214,4	2,8
14,9	S149501	330,2x254,0	304,09x228,09	2,8
15	S150501	330,9x248,9	304,1x228,1	1,8
15,1	S151501	333,6x257,5	307,2X230,3	1,8
17,1	S171501	365,0x298,0	340,0x272,0	1,8
17,1	S171502	365,4x290,2	338,0x268,0	1,8
18,1	S181501	388,0x311,0	362,2x290,8	1,8
18,1	S181502	388,1x308,6	359,0x287,0	2,8
19	S190501	411,26x328,0	378,32x303,06	1,8
20	S200501	433,3X336,4	408,0X306,0	2,8
20,1	S201501	436,0x334,0	409,0x307,0	1,8



Application

- Palmtop computer
- Pocket calculator
- Cell phone
- PDA
- Tablet PC
- E-Book
- Game machine
- Handy terminal
- Web pad
- Car navigation system
- Portable information terminal
- OA equipment
- Cash register
- Vending machine
- Touch-enhanced workstation
- Communication device
- Educational equipment
- Measuring apparatus
- Medical equipment



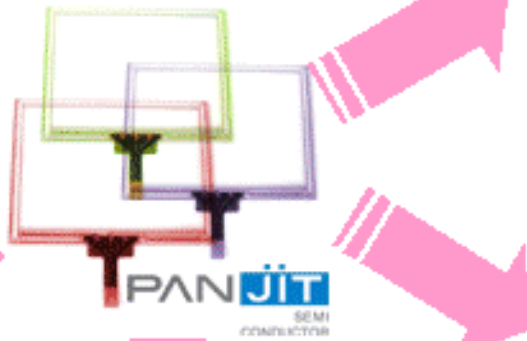
Applications



Medical instrument



Navigation



Game machine



Food Corporation



Finance, banking