TOUCH SCREEN PANEL TEST EQUIPMENT

CAPACITIVE TOUCH SCREEN PANEL MODULE EVALUATION EQUIPMENT

K-9601T

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FEATURES

Capacitive Touch Screen Panel Module Evaluation Equipment for R&D, K-9601T is designed to evaluate test items of Capacitive Touch Screen Panel Module (Touch Screen Panel mounted controller IC) such as accuracy, report rate, response time, power consumption, drag linearity, sensitivity, two finger separation and hover etc..
Touch Screen Panel Module is fixed on the test stage by vacuum absorption and then the machine's conductible touch tip touches the surface of Touch Screen Panel Module while K-9601T's Sensing B/D picks the report data of Touch Screen Panel Modules such as Signal Delta related capacitance value, X/Y coordinate data and measures current consumption, etc. and the data is displayed through MIK21's unique GUI.
K-9601T can test up to 14" Capacitive Touch Screen Panel Module and K-9601T is a best solution for your evaluation of Capacitive Touch Screen Panel Module for R&D.

K-9601T는 R&D용으로 설계 제작된 정전용량형 터치패널 평가장비로서 터치패널의 정확도, 정밀도, 선형성, Hover, Adjacent finger, Palm&Face, 출력주기, 응답속도, 소비전력, 감도, SNR, C_Line, P to P, Two finger seperation 등의 다양한 검사를 지원합니다.
검사대상 시료는 스테이지위에 흡착 고정되고, 장비의 Z축인 전도성 터치팁이 터치패널의 표면을 터치하여 터치패널모듈의 시그날 델타값과 관련된 정전용량값을 읽어오고 X/Y 좌표값 및 소비전력을 측정하여 MIK21 전용 GUI에 디스플레이시켜줍니다. 모든 데이터는 엑셀형식으로 저장이 가능하기 때문에 사용자가 용이하게 검사데이터를 분석할 수 있습니다.
K-9601T는 최대 14인치를 지원하는정전용량형 터치패널모듈 평가 및 검사의 최적의 솔루션입니다.

SPECIFICATIONS

Contents	Specification
Artificial Finger Motion	X, Y, Z Linear Movement (Diagonal Movement)
Motion Stroke [X/Y/Z]	330X310X50 (mm) / Possible to test Max. 14" (In case of AR 16:9) / 1Stage 1Axis
X, Y Coordinates Resolution	10um
X, Y Coordinates Repeatability	±50um
X, Y Tilting For DUT	Vision System (CCD Camera) – Manual Adjustment
Data Interface	System to PC : RS-232C / System to DUT : I2C
PC S/W	PC GUI [Data Dump, Parameter Setting, Graph, Raw Data Save, Etc.]
Manual	Paper
Touch Force	1g~300g
Drag Speed	1mm/Sec ~ 50mm/Sec (Adjustable By 1mm/Sec Unit)
DC Power Supply	Two Channel, 0.1V ~ 5V For DUT (Adjustable by 0.01V unit)
Dimension [WXDXH, mm]	1,500 X 1,250 X 1,566 / Height : excluded Alarm Lamp
General Specification	Input Power : 220VAC 1Ø, 2W / Gross Weight : Max. 450Kg / Power Consumption : Max. 1.5KW
Component	Main Unit / Computer & Monitor / Touch Tips / Lubricant / Manual

EVALUATION ITEMS

Evaluation Items	Content
Accuracy	Distance between target coordinate and report coordinate
Precision	The deviation value of report coordinates which Touch Controller IC outputs
Linearity	Linearity of report coordinate when machine touch tip drags line
Hover	Proximity sensing function test of Capacitive Touch Screen Panel
Adjacent Finger	Resolution test of Touch Screen Panel against a simultaneous 4 touch inputs
Palm & Face	Simulation of Palm and face detecting event (using large area artificial finger, Typically use 30Ø, Possible to Customize)
Report Rate	Period of interrupt signals of Touch Controller IC
Latency	Response time of Touch Controller IC
Power Consumption	Power consumption of Touch Controller IC at Sleep mode, Idle mode and Active mode.
Sensitivity	Capacitance Value of Non-touch signal delta and touch signal delta and dispersion of capacitance value over all touch points of touch panel
SNR	Signal to Noise Ratio of output capacitance value
C_line Linearity	Linearity of report coordinate once machine touch tip drags a lot of lines horizontally and vertically ; Min. 2mm Line Pitch
P to P Accuracy	Distance between target coordinate and report coordinate ; Min. 2mm Point Pitch
Two Finger Separation	Resolution test of Touch Screen Panel against a simultaneous 2 touch inputs

* All specifications are subject to change without any notice.