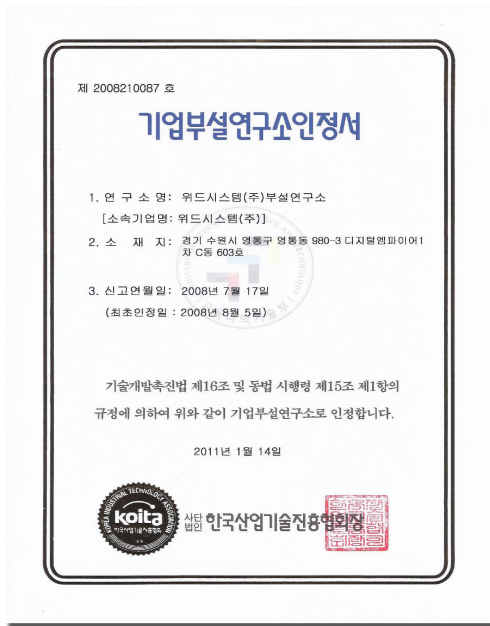
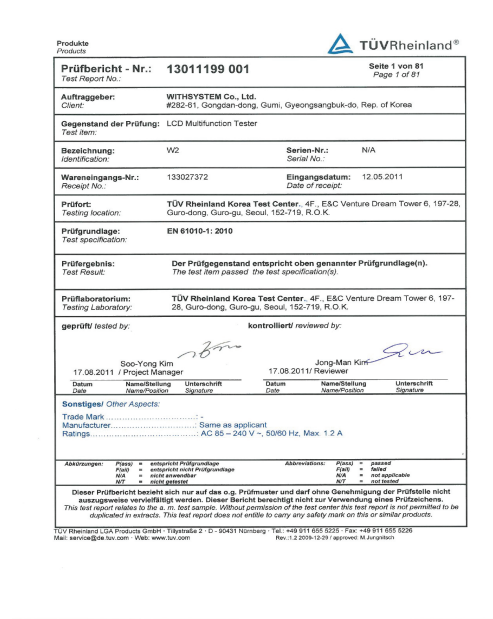
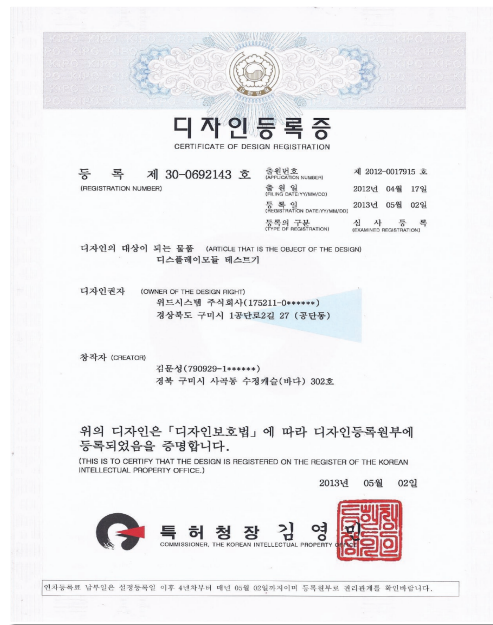
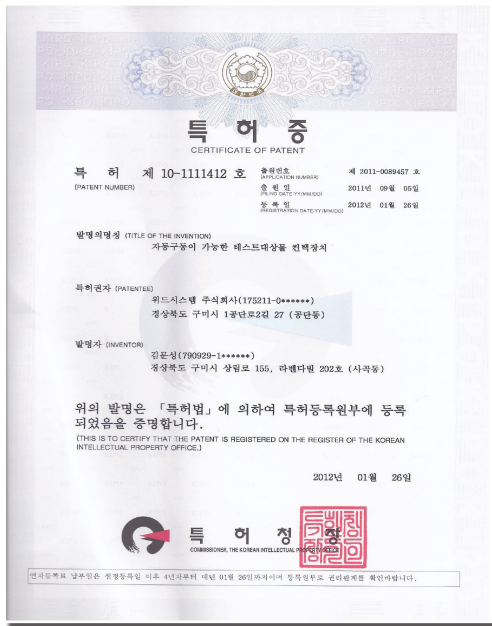


Innovative changes based on
unlimited creative imagination

withsystem







WITHSYSTEM Co., Ltd is growing toward the world.

withsystem

WITHSYSTEM assures our customers that it will exert the utmost efforts to satisfy them and provide the best values.

Since its establishment in 2002, WITHSYSTEM has continuously developed proprietary inspection solutions that are used in display, mobile and other IT areas.

WITHSYSTEM assures our customers that it will exert the utmost efforts for them based on its technical expertise.

WITHSYSTEM will strive to become the best global company in this fiercely competitive era which provides a variety of solutions using differentiated inspectors, measuring systems, super-precision processed micro contacts and jigs.

Please continue to give us your support for our growth.

대표 김성진



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China's Branch: New west #1 Zemeiludian, Kanglenanlu, Xintangcun Houjiezheng, Dongguancity, Guangdong prc. China P.C: 523960
 Tel : 86-769-8582-9396 / Fax: 86-769-8582-9556

Vision

withsystem is growing toward the world. **A Superior Global Company**

To become a business partner that creates new values through developing future-directed and human-oriented new technologies from the perspective of our customers.

Future-directed and human-oriented management

WITHSYSTEM promotes a human-oriented management while placing great emphasis on respect for individual values and the achievement of goals in order to enhance further growth.



A business partner focusing on customers

WITHSYSTEM plays the role of the best business partner who understands and shares a variety of its customers' concerns and demands and seeks solutions based on advanced technologies.

Value creation through new technology development

WITHSYSTEM is continuously researching and developing based on its passion and desire to overcome challenges in order to provide better technologies and services in diverse areas.

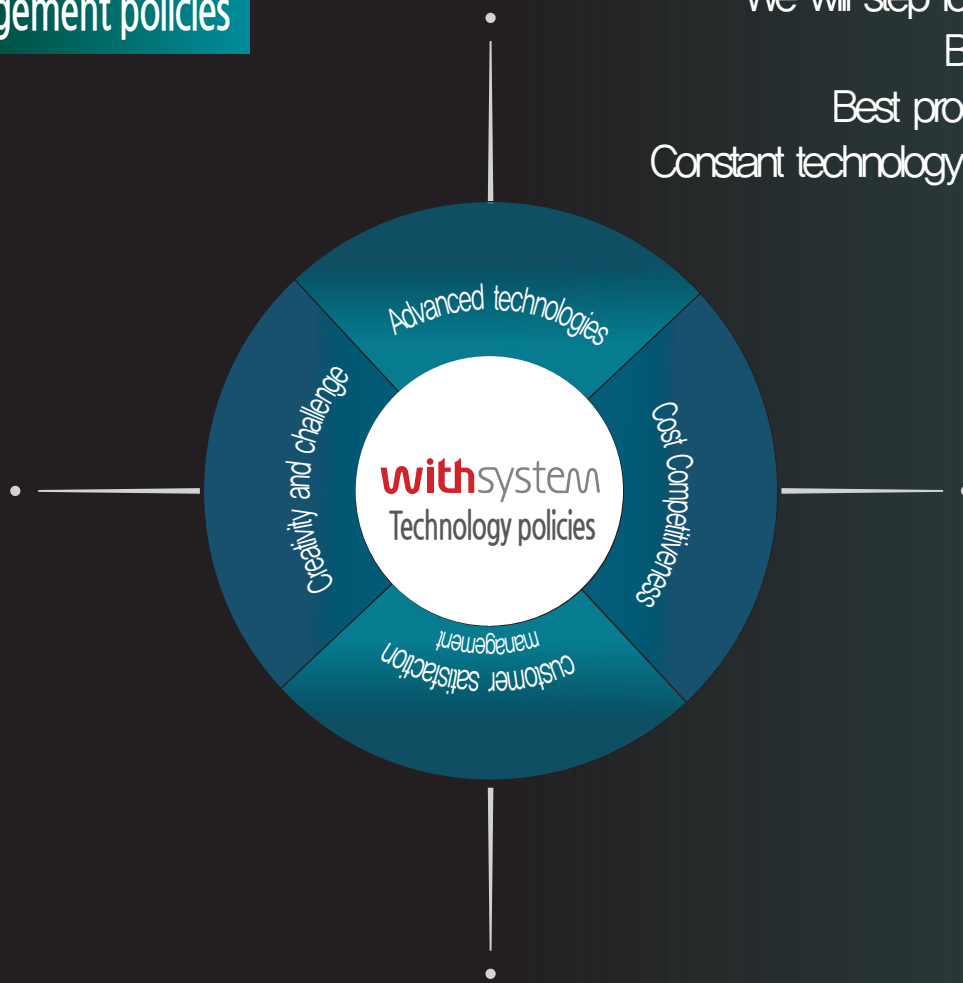
History

2002-2013 **withsystem**

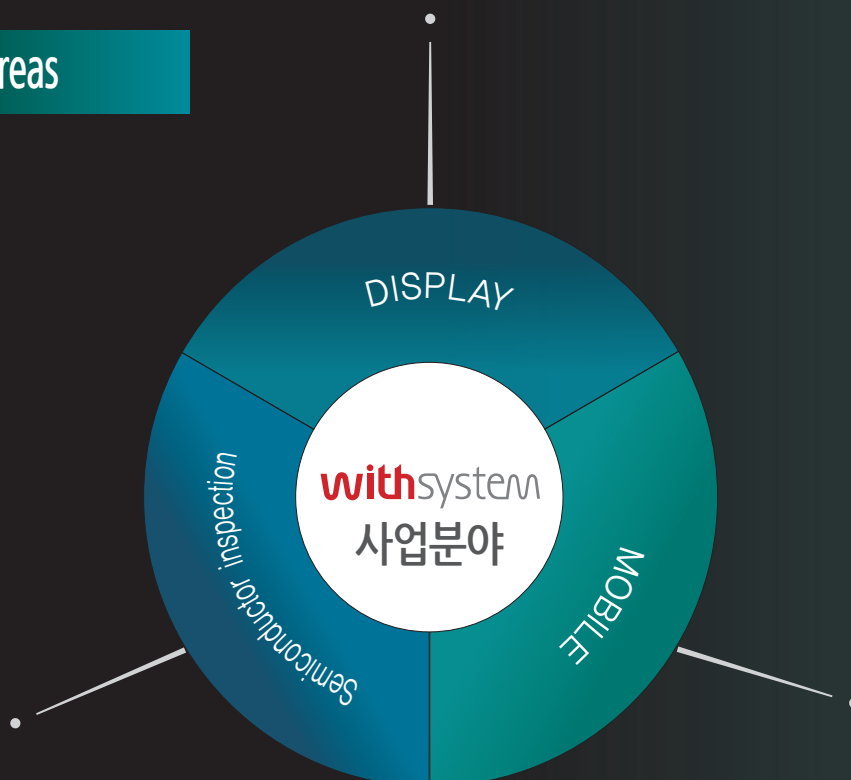
- Mar **2002** WITH Co., Ltd. established
- May **2004** Increased capital by 300 million won
- Jul Relocation after new factory construction
- Oct **2005** Changed the company name to WITHSYSTEM Co., Ltd.
- Mar **2006** Established a lab in Suwon
- Mar **2008** Dongguan Wida Limited (China's Dongguan branch)
- May ISO 9001 Quality management system certified
- May ISO 14001 Environment management system certified
- Jul Company's lab licensed
- Dec INNO-BIZ certified
- Dec **2009** Designated as an alternative form of military service
- Nov **2011** Designated as an export promising business (SMB)
- Dec **2012** Increased capital by 300 million won
- Aug **2013** Relocation after new factory expansion construction

Management policies

We will step forward with
Best quality;
Best products; and
Constant technology innovation



Business areas





WITHSYSTEM will do its best to become one with its customers while staying true to its original ideals.

| DISPLAY MULTI FUNCTION TESTER (W3, W2, U3)

| 2013 DEMOKIT.

| LCD FUNCTION TESTER DEMOKIT.

| LCD FUNCTION TESTER F2

| AGING TEST SYSTEM

| FLICKER TESTER

| POGO PIN BLOCK

| LCD VISUAL TESTER P2



LCD MULTI FUNCTION TESTER W3



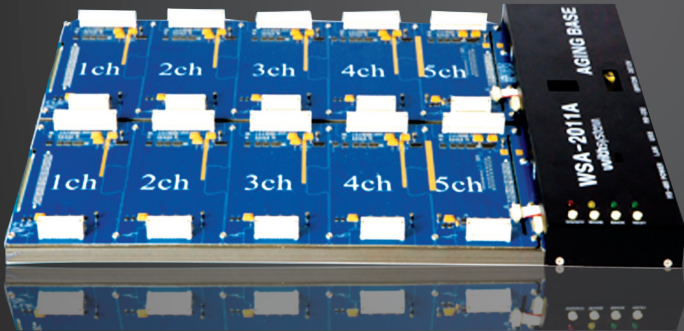
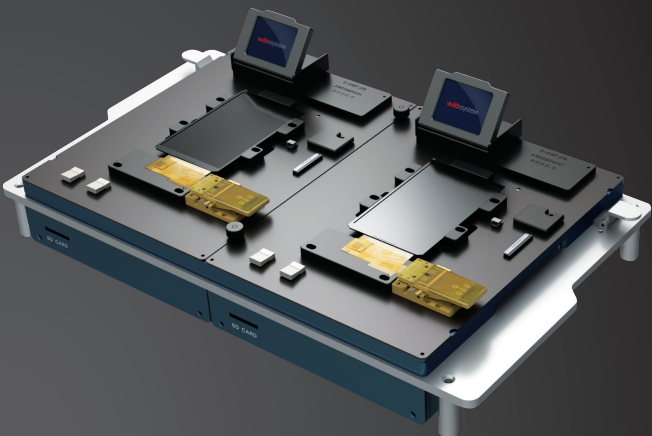
LCD MULTI FUNCTION TESTER W2

LCD MULTI FUNCTION TESTER U2, U3



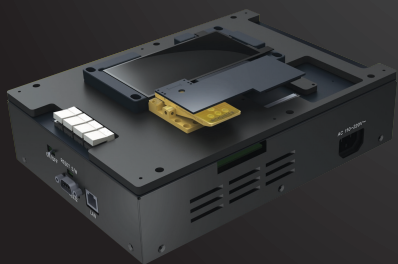
PRODUCT

LCD FUNCTION TESTER F2

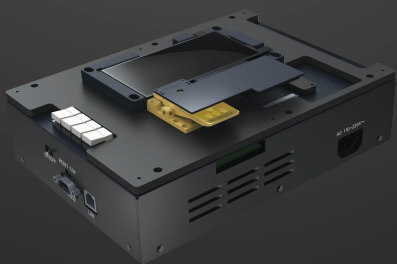


AGING TEST SYSTEM

LCD FUNCTION TESTER DEMOKIT



1ch-1

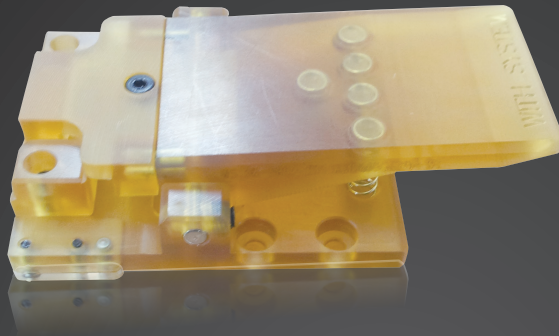


1ch-2

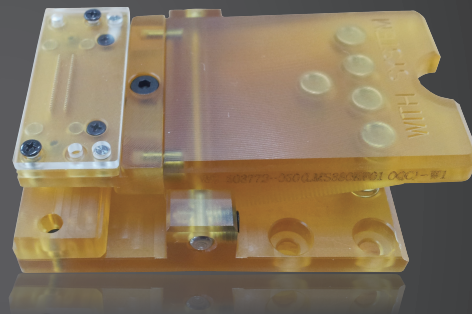
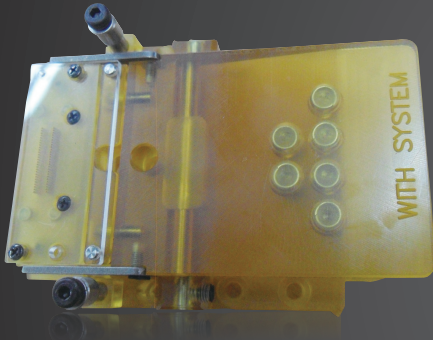


2013

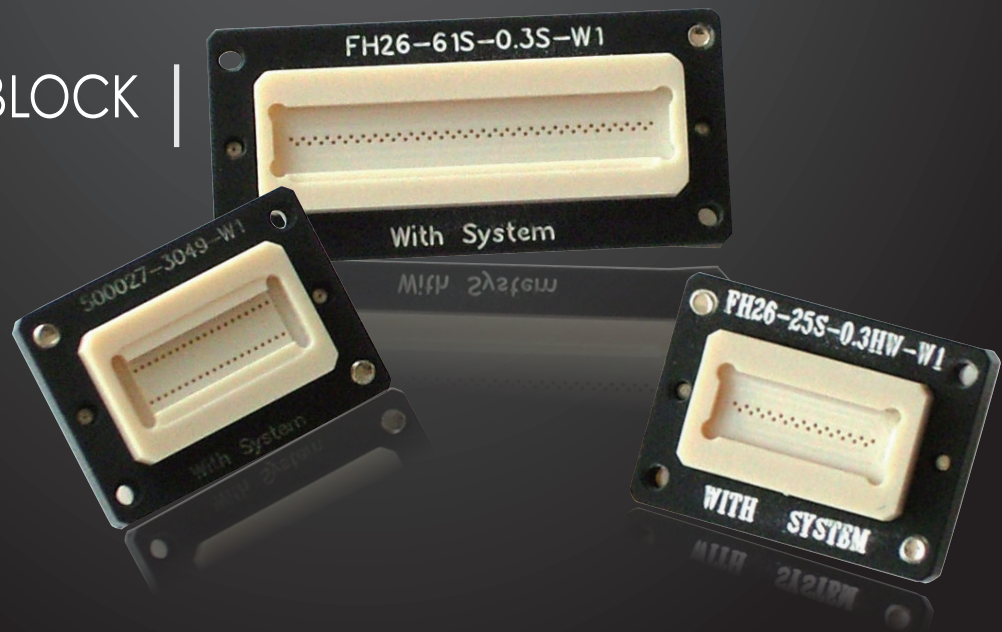
PRODUCT



| Original socket



POGO PIN BLOCK |



PRODUCT

DISPLAY MULTI FUNCTION TESTER

w3



W3 FEATURES

Inspection Item

- Interface offered for the mobile display
- Testing various patterns of the test module
- Camera test and image file test
- Testing the touch panel and current limit
- Current consumption measurement available
- SIZE : 120(W)*150(D)*60(H)

SPECIFICATION

Model Name		W3				
Testing object		OLED, LCD Module, OTP, MTP, COG E/T Test, Touch etc				
Size		120(W) * 150(D) * 60(H)				
System power		DC 12V 10A				
CPU		Cortex-A8 S5PV210 (1GHz, 32bit)				
PC Connect		LAN, RS-232				
External Interface		RS-232, USB_A, USB A_DUAL, MINI USB, LAN				
Internal Interface		CPU 24bit Interface (8,9,16,18,24bit) RGB 24bit Interface (6,8,16,18,24bit) MIPI 4Lane eDP 4Lane LVDS 4Lane-Single/Dual				
Support Resolution		2048*2048 Format (BMP supported)				
Function		ICT(RGB, MIPI, CTRL LINE), WIFI				
Extension I/O		100PIN * 2, 20PIN * 1, 32PIN * 1				
Power	ITEM	VBAT1	ELVSS	VDD1,2, VCI, VBAT2	VEXT1,2	VEXT3
	Out Voltage	1.0V~10V ±0.003V	-1.0V~-10V ±0.003V	-1.0V~-10V ±0.003V	1.0V~23V±0.1V (with no load)	-1.0V~28V±0.1V (with no load)
	Current	4A Scale±0.5%	2A Scale±0.5%	950mA Scale±0.5%	Power shut off at over 100mA	Power shut off at over 15mA
		50mA Scale±0.5%	50mA Scale±0.5%	50mA Scale±0.5%		
		5mA Scale±0.5%	5mA Scale±0.5%	5mA Scale±0.5%		
		500μA Scale±1.0%	500μA Scale±1.0%	500μA Scale±1.0%		
Test Application		Register setting, Power setting, Interface setting, Timing setting, Test pattern, Test sequence and final test file created to determine detailed inspection direction .				
Accessory		PC Program (UI), User's Manual, 12V/10A Power Adapter				



AMOLED

LCD MULTI FUNCTION TESTER

W2

W2 Inspection
is the major feature

Inspection Items

- CPU 24bit (8, 9, 16, 18, 24) Interface (max 2048X2048)
- RGB 24bit (6, 8, 16, 18, 24)
Interface 1600X1200 (max 2048X2048)
- LVDS Output
- MDDI 2Lane Interface
- MIPI 4Lane Interface (1Clock, 4Lane)
- MIPI-DSI 1Port Supported
- PWM Control
- Touch Panel (4-wire type)
- Capacitive Touch Panel
- Current Limit Test, Current Draw Measurement
- FLM Frequency Measurement
- SPI, I2C Supported

LCD MULTI FUNCTION TESTER W2

Model Name		W2				
Testing object		LCD(TFT, AMOLED, STN, MONO) module, OTP, MTP, COG E/T TEST, TOUCH etc				
Feature		Main+Channel expansion (Max. 4 channels, individual channel separable)				
Size		Total : 403(W) X 254(D) X 166(H) Main : 203(W) X 254(D) X 166(H) Channel : 50(W) X 254(D) X 166(H)				
System power		AC 90~240V Free voltage. 50~60Hz				
CPU		Main, Channel : Cortex-A8 S5PV210 (1GHz, 32bit)				
OS		Window CE 6.0				
Status LCD		<ul style="list-style-type: none"> 800X600 RGB 7""TFT LCD (Touch supported) Test Information (Inspection items, drive voltage, real-time current monitoring) UI configuration using ACT, MODEL, SETUP, TEST, Info etc. 				
Storage		<ul style="list-style-type: none"> Inside Memory: 256MB Memory or above Outside Memory: SD Card 4GB ore above: standard 				
PC connect		USB, LAN, RS-232				
External Interface		<ul style="list-style-type: none"> Main Front REMOTE_A,REMOTE_B,USB_A,SD Card, Function KEY Rear RS-232, USB_A, USB_B, LAN, SD Card, HDMI Channel Rear RS-232, RS-232, USB_A, USB_B, SD Card 				
Channel Interface		<ul style="list-style-type: none"> CPU 24bit Interface (8, 9, 16, 24bit) RGB 24bit Interface (8, 9, 16, 24bit) MDDI 2Lane MIPI 4Lane (1Clock, 4Lane) MIP-DSI (LCD) 1Port supported 				
Channel Support Resolution		<ul style="list-style-type: none"> SXGA: 1600X1200 Format (BMP supported) D-CLK : MAX 80MHZ 				
Channel Extension I/O		26PIN, HDMI/VGA, HDMI_29PIN, 100PIN				
Power	Item	ELVDD	ELVSS	VDD1,2,VCI,VBAT	VEXT1,2	VEXT3
	Outvoltage	1.0V~10V±0.01V	-1.0V~-10V±0.01V	1.0V~5V±0.05V	1.0V~23V±0.1V (at free of load)	-1.0V~-23V±0.1V (at free of load)
	Current	1uA~2A	1uA~1A	1uA~500mA	1uA~500mA	1uA~500mA
Test Application		<ul style="list-style-type: none"> Register setting, Power setting, Interface setting, timing setting Test pattern, test sequence and Detail inspection direction decision Final test file created Final test file download from W2 toSD memory 				
Accessory		<ul style="list-style-type: none"> PC program (UI), MOD file User's manual, Cable, SD card, Mouse 				
Option		<ul style="list-style-type: none"> OTP, MTP use Remote FS-2 : Flicker and brightness test sensor Debug TOOL Voltage Current proofreading TOOL 				



LCD MULTI FUNCTION TESTER U3

U3 TESTER CHARACTERISTICS

Application of high-speed process

Uses ARM9 400MHz and high-speed FPGA used in cell phones and other IT equipments enabling Pass/Fail through real-time monitoring of current and voltage leading to a more precise test.

Support Various Interfaces

- Supports RGB48bit, CPU24bit, MDDI, I2C, SPI etc Interface as default.
- Realizes internal image pattern regardless of resolution in RBG (inserts internal image)
- Provides FPGA palmware auto update function and MDDI Read function.
- Supports maximum 300Mbps high-speed serial interface such as CDP, MIPI, LVDS (Option)
- Can be expanded from minimum one channel to three channels, can test three same or different products as the same time, which reduces production time to enhance productivity.
 - can test OTP, MTP up to 3 channels simultaneously
 - can test LCD Test and supplementary functions up to 3 channels simultaneously (TOUCH, SPK, MOTOR, LED, BLU, KEY, CAMERA, AUDIO AMP, etc), allows auto flicker or manual flicker measurement and calibration by connecting with Flicker tester (FS series).

High-Resolution Testing Function

- Stop image(format:BMP) supports up to resolution 1600*1200(Dot-C LK 80MHz)
- Supports video can run up to 60 frames.

Improvement of user convenience

All test functions are offered in GUI type application, therefore, a separate compilation process is unnecessary, furthermore the product allows up to 3 comparison tests of the same or other models. In addition, the function also supports remote control where tester state and tester internal programs are controlled by remote from the main office.

Enables real-time operation by connecting with PC

User oriented UI program(anyone can set initial value and operation condition), real-time PC monitoring function

Compatible with various equipments with diverse interfaces

Easy operation with touch panel

LCD MULTI FUNCTION TESTER U3

Model Name		U3							
Testing object		LCD(TFT, AMOLED, STN, MONO) module, OTP, MTP, COG E/T TEST, TOUCH etc							
Feature		Channel expansion							
Size		360(W) x 250(V) x 160(H)							
System power		100-250 Free Voltage							
Status LCD		<ul style="list-style-type: none">· 6.4" QVGA Color TFT LCD TOUCH부착· The present test mode, Supply voltage, Consume current Monitoring· ACT VIEW, ICT VIEW, MODEL SET, SETUP, LCD TEST, INFO							
Storage		<ul style="list-style-type: none">· Outside memory : SD card· Inside memory : 128 MB Memory							
PC connect		<ul style="list-style-type: none">· USB, LAN, RS-232							
Interface		<ul style="list-style-type: none">· RGB interface : 8, 16, 18, 24, 48bit· CPU(I80/M68) interface : 8,9,16,18, 24bit· MDDI series high-speed serial interface, MDDI Read· DMAC, I2C, SPI, Offer various types of interface· CDP, MIPI, LVDS(S/D) Option							
Support resolution		<ul style="list-style-type: none">· DOT CLK 80MHz· Stop movie high-resolution : 1600*1200, Format (BMP)· Support video : after upgrade							
Extension I/O		<ul style="list-style-type: none">· I/O1(100pin) : 24Bit data Bus, CS1, WE, RS1, RESET1, GPIO, Power, VSYNC, HSYNC, ENABLE, DOTCLK, Touch, PWM, POWER, SPI etc.· I/O2(20pin) : OTP, MTP power, Sol V/V control support max 8· MDDI(6pin) : MDDI, power I/O1, I/O2I, MDDI cable length : 80Cm(MDDI 1.8M)							
Power	Item	VDD	VEE	VBAT	VEXT1	VEXT2	VEXT3	VEXT4	VEXT5
	Out voltage	1.5V ~ 5 (Step 0.01V), MAX 500mA	1.0V ~ 5V (Step 0.01V), MAX 500mA	1.0V ~ 5V (Step 0.01V), MAX 500mA	1.0V ~ 15V (Step 0.01V), MAX 500mA	1.0V ~ 15V (Step 0.01V), MAX 500mA	1.0V ~ 24V (Step 0.1V), MAX 500mA	1.0V ~ 24V (Step 0.1V), MAX 500mA	0V ~ -28 (Step 0.1V), MAX 500mA
	Current	1uA~500mA	1uA~500mA	1uA~500mA	1uA~500mA	1uA~500mA	.	.	.
Test Application		<ul style="list-style-type: none">· Register setting, Power setting, Interface setting, timing setting (LCD INIT)· Test pattern, test sequence and Detail inspection direction decision (ACTION SET)· OPEN/SHORT test (ICT SET)· Final test file created (INIT + ACT + ICT + MOD = WMT)· WMT file download from U2 toSD memory							
Accessory		<ul style="list-style-type: none">· PC program (UI), MOD file· User's manual, Cable(I/O1, I/O2, MDDI, POWER), SD card, Mouse							
Option		<ul style="list-style-type: none">· OTP, MTP use Remote (3channels)· FS-2 : Flicker and brightness test sensor· Debug TOOL· Voltage, Current proofreading TOOL							

2013 DEMOKIT



2013 DEMOKIT FEATURES

Inspection Item

- Channel expandable from 1CH to 10CH
- Each channel can be driven individually when expanded
- Testing various patterns of the test module
- Image file test
- Touch(TSP) panel test
- Size : 116.4(W)*136.4(D)*19.9(H)
- Environmental temperature :
Low temperature -20℃, room temperature 70℃,
Moisture 93%(measured at 60℃)

SPECIFICATION

Model Name		2013 DEMOKIT	
Testing object		OLED, LCD Module, COG E/T Test, Touch etc	
Size		116.4(W) * 136.4(D) * 19.9(H)	
System Power		DC 12V 5A	
CPU		Cortex-A8 S5PV210 (1GHz, 32bit)	
PC Connect		LAN, USB	
External Interface		RS-232, USB_A, MINI USB, LAN, SD MEMORY SOCKET	
Internal Interface		CPU 24bit Interface(8,9,16,18,24bit) RGB 24bit Interface(6,8,16,18,24bit) MIPI 4Lane(Max 1Gbps)	
Support Resolution		2048*2048 Format (BMP supported)	
OS		WIN CE(Android 4.0 Ice Cream Sandwich optional)	
Extension I/O		100PIN * 1	
POWER	ITEM	VBAT1	VDD1,2, VCI, VBAT2, IOVCC
	Output Voltage	1.0V~10V ±0.003V	1.0V~5.0V ±0.003V
Test Application		Register setting, Power setting, Interface setting, Timing setting, Test pattern, Test sequence and Detail inspection direction decision Final test file created.	
Accessory		PC Program (UI), User's Manual, 12V/5A용 Power Adapter, PC Connection Gender Board, LAN Cable, SD Memory Card	



LCD FUNCTION TESTER DEMOKIT

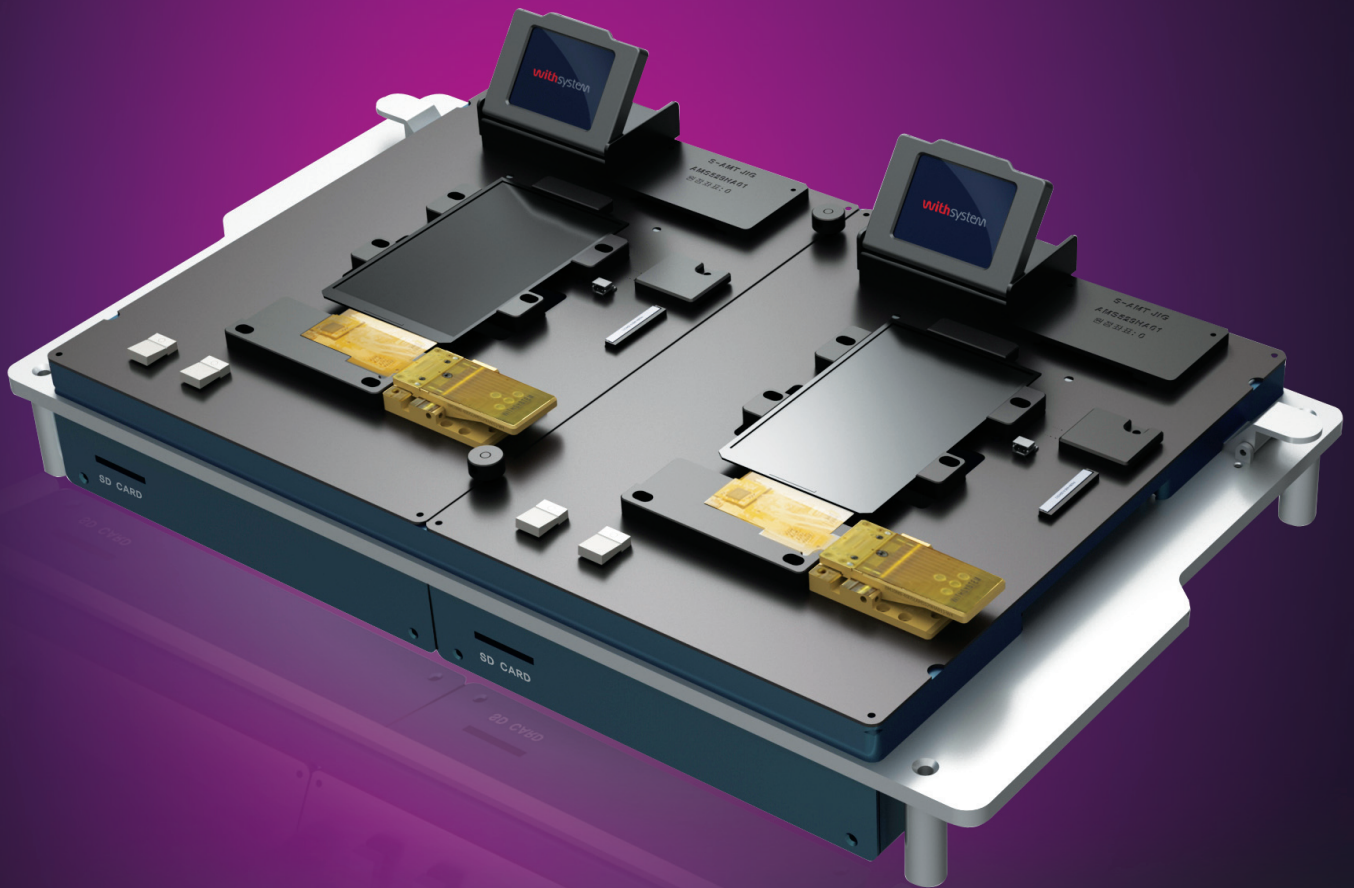
DEMOKIT Features

Inspection Items

- CPU 24bit (8, 9, 16, 18, 24)
- RGB 24bit (6, 8, 16, 18, 24)
- Resolution 1600X1200 (Internal Pattern max 2048X2048)
- MDDI 2Lane Interface
- MIPI 4Lane Interface (1Clock, 4Lane)
- MIPI-DSI 1Port
- PWM Control
- Touch Panel (4-wire)
- Capacitive Touch Panel
- FLM Frequency Measurement
- SPI, I2C

LCD FUNCTION TESTER DOMOKIT

Model Name		DOMOKIT			
Testing object		LCD(TFT, AMOLED, STN, MONO) module, OTP, MTP, COG E/T TEST, TOUCH etc			
Feature		Main Control Board & Sub Board			
Size		Total : 180mm(W) X 250mm(D) X 77mm(H)			
System power		AC 90~240V Free voltage 50~60Hz			
CPU		Cortex-A8 S5PV210 (1GHz, 32bit)			
Storage		Inside Memory: 256MB Memory			
PC connect		USB, RS232, LAN			
Interface		<ul style="list-style-type: none"> ▪ CPU 24bit Interface (8, 9, 16, 24bit) ▪ RGB 24bit Interface (8, 9, 16, 24bit) ▪ MDDI 2Lane ▪ MIPI 4Lane (1Clock, 4Lane) MIP-DSI (LCD) 1Port 			
Support Resolution		<ul style="list-style-type: none"> ▪ SXGA: 1600X1200 Format (BMP Support) ▪ D-CLK : MAX 80MHZ 			
Power	Item	ELVDD	VDD1,2,VCI,VBAT	VEXT1,2	VEXT3
	voltage	1.0V~10V±0.01V	1.0V~5V±0.05V	1.0V~23V±0.1V (No load)	-1.0V~-23V±0.1V (No load)
	Current	1uA~2A	1uA~500mA	1uA~500mA	1uA~500mA
Test Application		<ul style="list-style-type: none"> ▪ Register setting, Power setting, Interface setting, timing setting ▪ Test pattern, test sequence and Detail inspection direction decision 			
Accessory		PC program (UI), MOD file, User's manual, Cable, SD card			



LCD FUNCTION TESTER F2

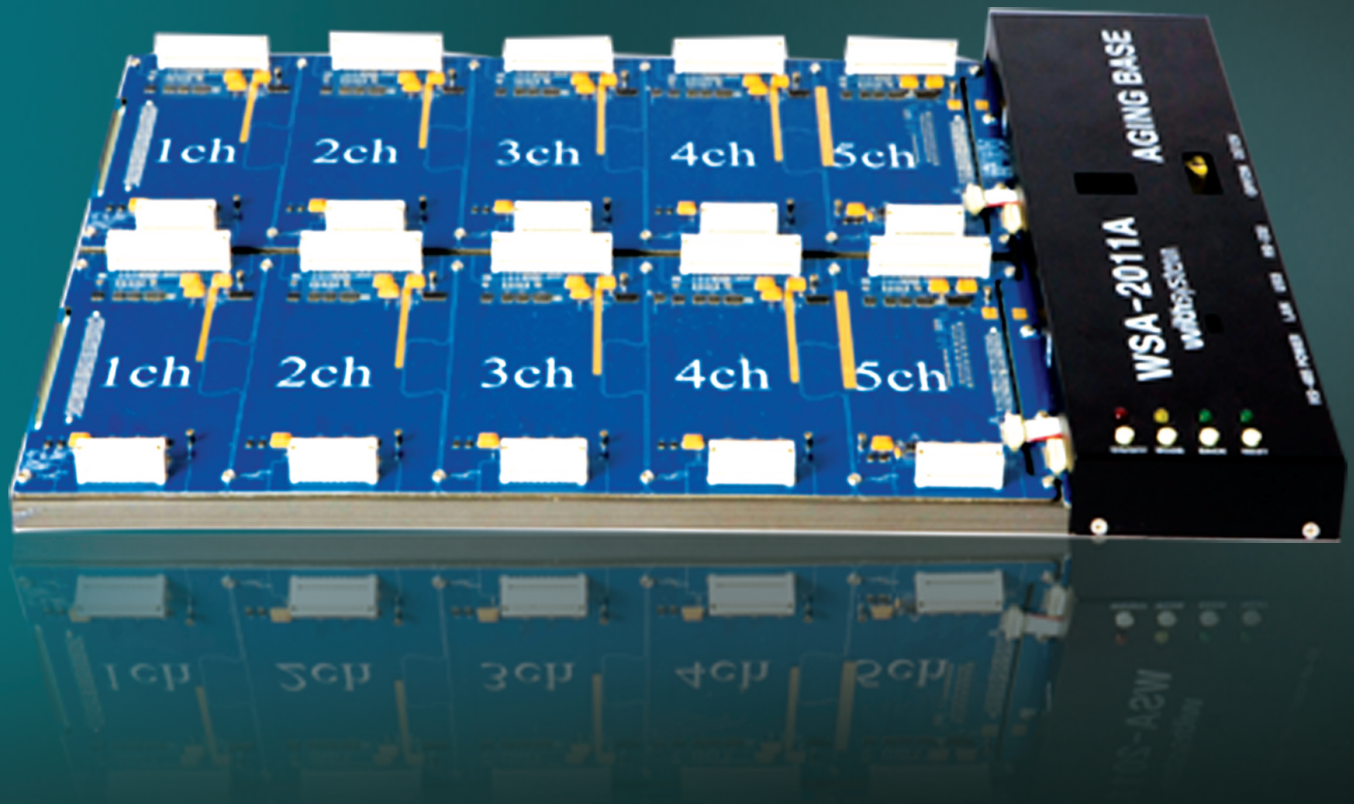
F2 Features

Inspection Items

- CPU 24bit (8, 9, 16, 18, 24)
- RGB 24bit (6, 8, 16, 18, 24)
- Resolution 1600X1200 (Interface Pattern max 2048X2048)
- LVDS Interface (Option)
- MDDI 2Lane Interface
- MIPI 4Lane Interface (1Clock, 4Lane)
- MIPI-DSI 1Port Supported
- PWM Control
- Touch Panel (4-wire)
- Capacitive Touch Panel
- Current limit Test, Current consumption measurement
- FLM Frequency Measurement
- SPI, I2C

LCD FUNCTION TESTER F2

Model Name		F2				
Testing object		LCD(TFT, AMOLED, STN, MONO) module, OTP, MTP, COG E/T TEST, TOUCH etc				
Feature		Channel Expansion (Max. 2CH, Channel separation is available)				
Size		Total : 520mm(W) X 300mm(D) X 64mm(H)				
System power		Power Adapter 12V				
CPU		Cortex-A8 S5PV210 (1GHz, 32bit)				
Storage		<ul style="list-style-type: none"> ▪ Inside Memory: 256MB Memory ▪ Outside Memory: SD Card 4GB 				
PC connect		USB, RS232, LAN				
Interface		<ul style="list-style-type: none"> ▪ CPU 24bit Interface (8, 9, 16, 24bit) ▪ RGB 24bit Interface (8, 9, 16, 24bit) ▪ MDDI 2Lane ▪ MIPI 4Lane (1Clock, 4Lane) MIP-DSI (LCD) 1Port 				
Support Resolution		<ul style="list-style-type: none"> ▪ SXGA: 1600X1200 Format (BMP Support) ▪ D-CLOCK : MAX 80MHZ 				
Power	Item	ELVDD	ELVSS	VDD1,2,VCI,VBAT	VEXT1,2	VEXT3
	voltage	1.0V~10V±0.01V	-1.0V~-10V±0.01V	1.0V~5V±0.05V	1.0V~23V±0.1V (No load)	-1.0V~-23V±0.1V (No load)
	Current	1uA~2A	1uA~1A	1uA~500mA	1uA~500mA	1uA~500mA
Test Application		<ul style="list-style-type: none"> ▪ Register setting, Power setting, Interface setting, timing setting ▪ Test pattern, test sequence and Detail inspection direction decision 				
Accessory		PC program (UI), MOD file, User's manual, Cable, SD card				
Option		<ul style="list-style-type: none"> ▪ OPT, MTP use REmote ▪ FS-2: Flicker and brightness test sensor ▪ Debug TOOL ▪ Voltage Current proofreading TOOL ▪ LVDS Interface Bridge Board 				



AGING TEST SYSTEM

AGING JIG PALLET

AGING PALLET Skills

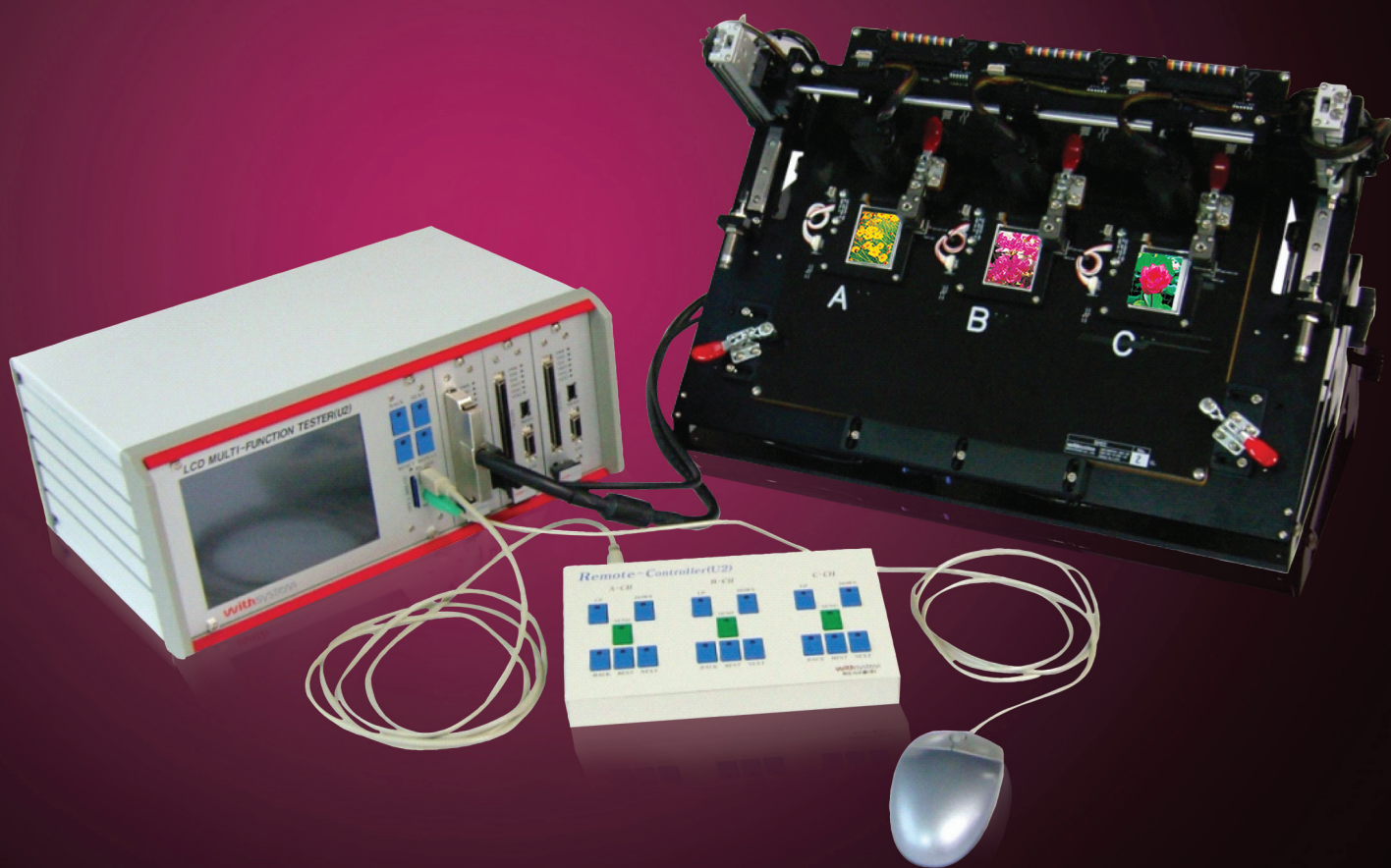
- Drive 10 channels at a time
- UI program for the User
(Anyone can set initials and driving conditions)
- Max 30 devices can be particularly operated and program downloaded with a integrated remote-control

AGING JIG Specification

- **Model Name** : AGING JIG
- **Body** : ARM9 (400Hz)
- **Interface** : LAN, USB, RS-232, RS-485
- **Memory** : Built-in 64MB
- **Voltage** : VDD, VEE, VBAT, VEXT(1~5V)
- **Channel** : 10ch (controls all at a time)
- **Dot – CLK** : 80MHz
- **Drive** : R.G.B (24bit), CPU (18bit), MDDI, LVDS, MIPI
- **Testing object** : TFT, STN, OLED, MONO
- **POWER** : DC 12V 10A

AGING TEST SYSTEM

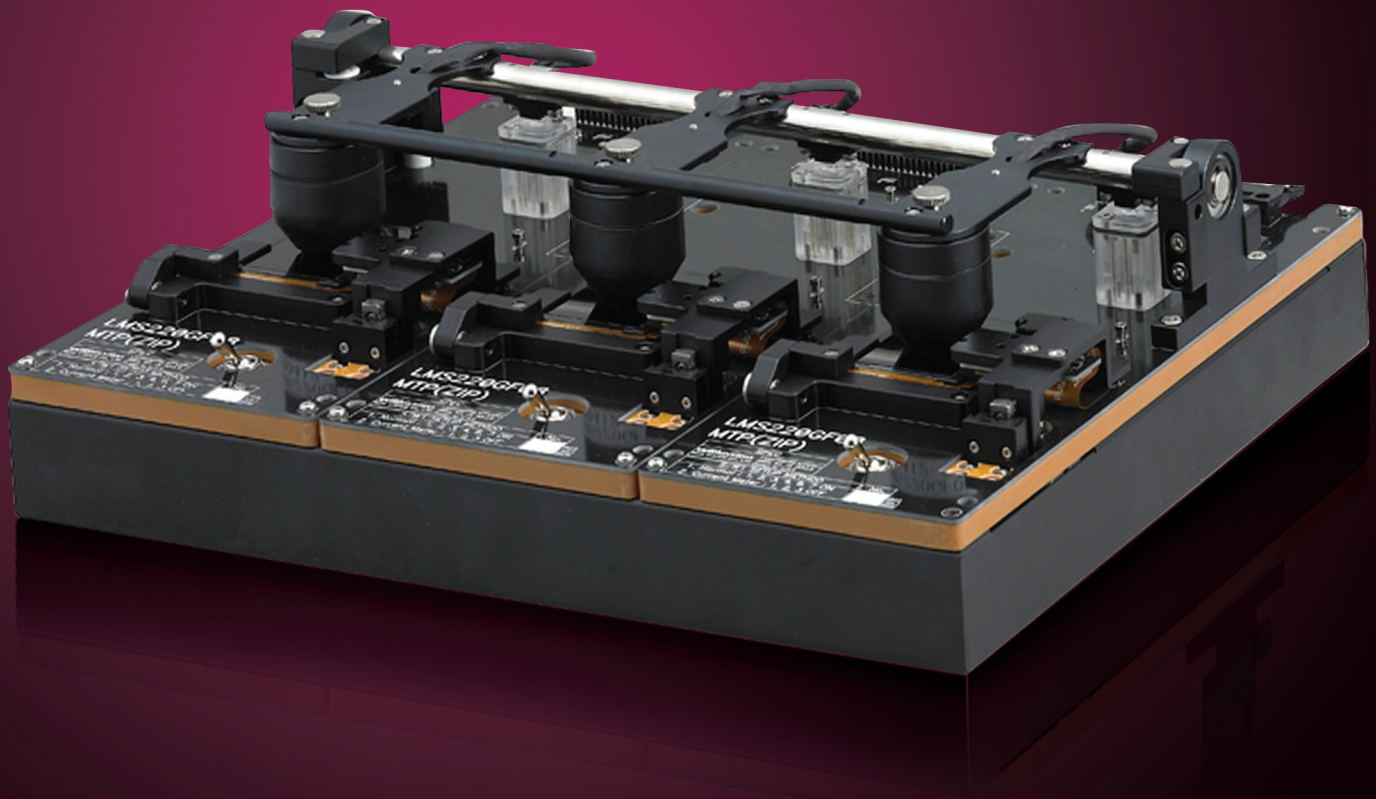
CPU	SAMSUNG S3C2440A (ARM920T,289FBGA)-400MHz
FLASH	AM29LV160 1EA (2MByte)
NAND FLASH	NAND FLASH K9F5616 2EA (64MByte)-8bit/16bit, Combination
SDRAM	K4S561632 2EA (64MByte)
USB	Supports USB Device
UART	Supports UART 2 ch (DSUB 9pin 2EA)-RS232
JTAG	JTAG Connector (Multi-Ice Compatible)
LCD	CPU(18BIT), RGB(24BIT), MDDI, MIPI LCD Interface
POWER	4Channel 1~5V (Max 3A)
RS485	19200bps, (00~99) ID set
TCMD	Take TCMD
POWER	7~15V DC, 3A
ETHERNET	10M, DHCP, TFTP SERVER & CLIENT
VOLTAGE	VDD, VEE, VBAT, VEXT(1~5V)
TEST TYPE	TFT, STN, OLED, MONO
DOT CLK	30MHZ
PC UI	ANYONE CAN SET INITIALS AND DRIVING CONDITIONS
KEYBOARD	INTERGRATED REMOTE-CONTROL
CHANNEL	10CH(CONTROLS ALL AT A TIME)



FLICKER TESTER

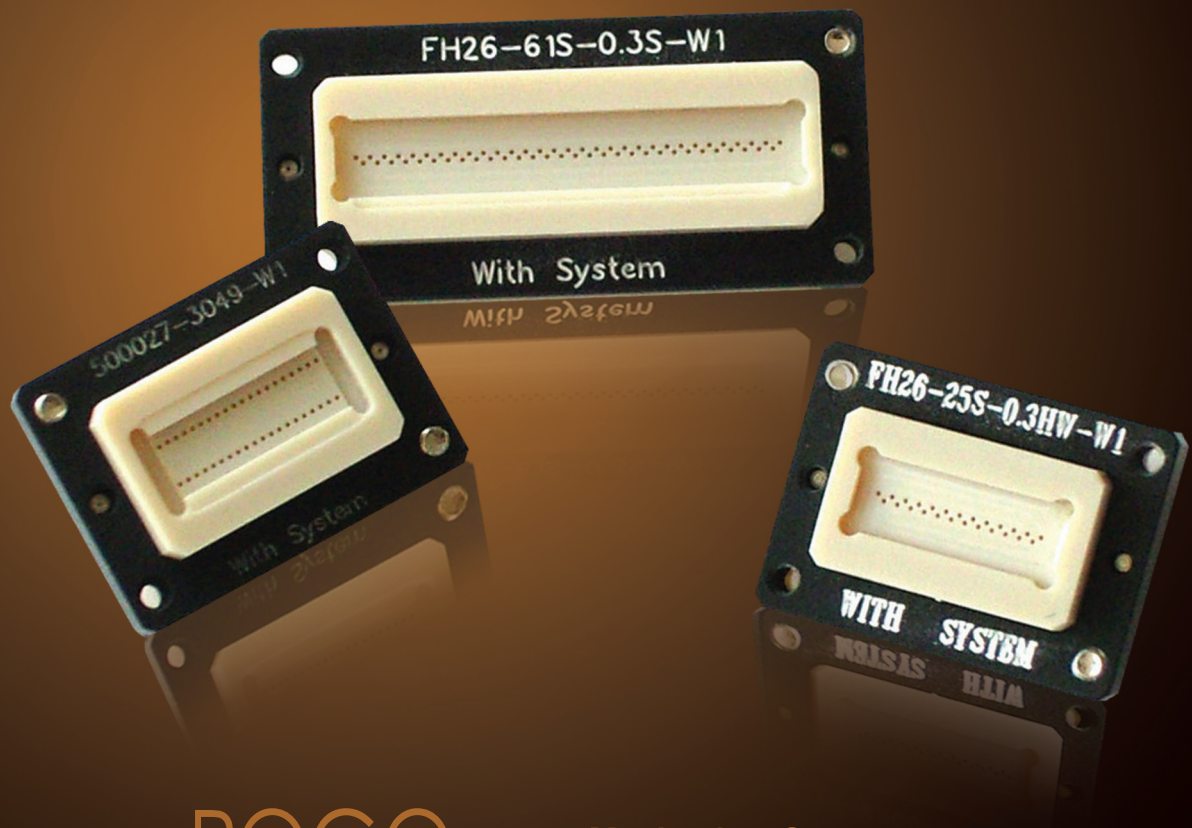
FLICKER TESTER (FS SERIES)

- Tested on : TFT, STN
- Measures : Flicker, luminance, and color coordinates
- Installed with self-controller
- Secures credibility by synchronizing with the measured value of CA-210 equipment
- Test number : allows up to maximum 3 simultaneous test
- When connecting with U3 tester, allows automatic flicker and luminance calibration
- Allows auto/manual measurement and calibration



FLICKER TESTER (MANUAL FLICKER Series)

- Tested on : TFT, STN
- Measures : Flicker, luminance, and color coordinates
- Installed with self-controller
- Secures credibility by synchronizing with the measured value of CA-210 equipment
- Test number : allows up to maximum 3 simultaneous test
- When connecting with U3 tester, allows automatic flicker and luminance calibration
- Allows auto/manual measurement and calibration
- Can be produced at a lower price than FS Series, since the FLICKER sensor can be manually operated which allows a more simple design of tools.



POGO PIN BLOCK

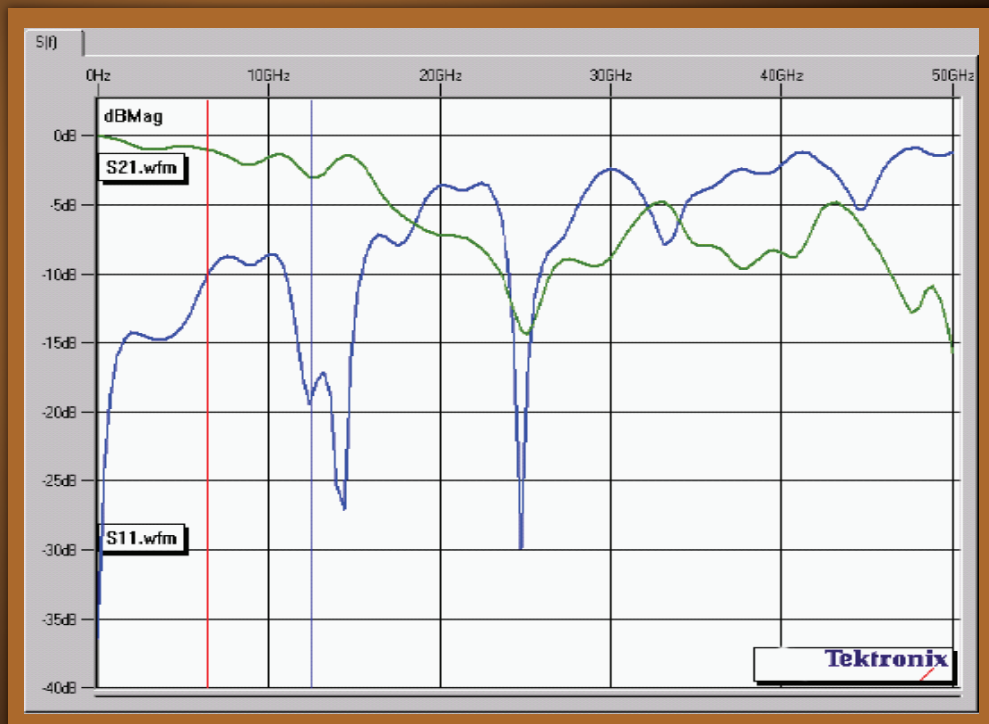
Product Introduction

Mechanical Spec

- Spring - Music Wire / Gold Plated
- Barrel - PBT / Gold Plated
- Plunger - SK4, BeCu / Gold Plated
- Full Travel : 0.8mm (.0314)
- Recommended travel : 0.6mm (.0236)
- Spring Force : 25g @ 0.7mm
(.0236) (+/- 20%)

Electrical Spec.

- (Dielectric Material : MDS)
- Propagation Delay : 63ps
- (Dielectric Material : MDS)
- Self Inductance : 1.76nH
- (Dielectric Material : MDS)
- Bandwidth : 6.4 GHZ @ -1dB
- Probe Resistance : Less than
100mohm
- Current Rating : 0.5A Continuous



POGO PIN BLOCK CHARACTERISTICS

- POGO PIN BLOCK of With System provides diverse types of BLOCKS that fit the product by approaching with JIG concept. Designs after full review of the product with high-tech tester.
- The high-speed machine tools allows process precision and short lead time to enable mass production (maximum RPM 260,000)
- Produces various products of DNJF 800ROWJDEH
- Maximum production volume per month is approximately 3000.



LCD VISUAL TESTER P2

P2 TESTER FEATURES

Overview

Visual tester is an equipment that tests the abnormality of the panel by authorizing AC, DC, and Video signals instead of operating IC(LSI) of OLED and small sized TFT-LCD panel that is produced in A-SI, P-SI(LTPS) type and it is a high precision tester that supports up to SOG 1 to SOG 4 levels.

Usage

The visual tester(P2) is used in the final test of the companies' all panel process that produces TFT and OLED panels.

Features

P2 tester is a tester that currently supports up to SOG 1~SOG 4 level and since it needs to conduct complicated operating IC's functions as a tester, the product has the following features.

- AC PORT(30 channels) : -20V ~ +40V (0.1V precision / 100ns variable)
- DC PORT(6 channels) : -20V ~ +40V (0.1V precision / 100ns variable)
- VIDEO PORT(24 channels) : -15V ~ +15V (0.1V precision / 100ns variable)
- GND PORT(2 channels)
- The H/W has a high-speed image processing technology at FPGA, an analog technology that converts voltage by PORT to high speed signals and a PC UI technology where users can manually or automatically call each signal image and convert the image.
- FPGA uses Vertex 4 level of Xilinx that has high speed large memory volume and for voltage variable and variable speed, it realizes a precision voltage by using 100MBps level a/d and d/a.
- For PC UI, the product uses USB and LAN enabling various types of data downloads such as model operating materials speedily and is developed to enhance users'convenience.

LCD VISUAL TESTER(P2)

MODEL NAME		P2
DESCRIPTION		PATTERN GENERATOR SPECIFICATIONS
OUTPUT TERMINAL	CONNECTOR	FLAT CABLE (62 CH)
	AC PORT	54 CH (VIDEO PORT 24 CH)
	DC PORT	6 CH
	GND PORT	2 CH
OUTPUT CHARACTERISTICS	OUTPUT RANGE	-20V ~ +40V (VIDEO PORT : $\pm 15V$)
	VOLTAGE RESOLUTION	$\leq 100\text{ mV}$
	CURRENT	$\geq 50\text{ mA}$
	PEAK CURRENT	$\geq 50\text{ mA}$
AC PORT CHARACTERISTICS	RISE & FALL TIME	$\leq 100\text{ns}$ at 0 ~ 20V AMPLITUDE
	NON - PERIOD FUNCTION	ALL PORT NON - PERIOD (70ms / FRAME)
	INVERTING, NON - INVERTING	AC PORT
	TIME RESOLUTION	$\leq 100\text{ns}$ (VIDEO PORT : $\leq 50\text{ns}$), IN ALL PORTS
	PORT TO PORT DELAY	VIDEO PORT $\leq 5\text{ns}$
ARBITRARY WAVEFORM GENERATOR (GUI)		GENERAION USING SCRIPTER, VIEWER & CONTROL
INTERFACE (IO PORT)		USB2.0 HIGH-SPEED (480Mbps) $\times 1$, RS-232 $\times 1$, SPI $\times 1$
LINE INPUT		220 VAC
DIMENSIONS		TBD



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