

LCD INSPECTION SYSTEM **LIS-01**



ALL in One System !

All the necessary component units to test varieties of TFT-LCD modules are in one system.

All in One

The LIS-01 integrates a universal TFT-LCD driver, a TFT-LCD module holder, a probe and an operation panel in a cabinet. An ionizer on the top of the TFT-LCD module holder eliminates static electricity from the TFT-LCD panel surface.

A variety of TFT-LCDs in the size from 0.9" to 11.4" can be tested only with the LIS-01.

Thinking about operators' convenience and health

An inverter power supply of stable luminance and of fast rise time is employed for the back-light of the LIS-01, enabling the shut-off of the back-light by one-touch switching. In addition, it greatly reduces strain on operators' eyes.

In TFT-LCD module testing, the test starts by pressing START button on a remote controller and proceeds automatically. The program for the automatic inspections can be custom configured. Please consult MECC representatives.

Universal TFT-LCD Driver

The universal TFT-LCD Driver integrated to the LIS-01 is a universal signal generator for TFT-LCD modules, featuring multi-channel driving and analog signal input. The number of channels for video signal input is 24 and can be upgraded to 48. Video signals and drive signals can be edited with a PC easily and the data can be transferred to the TFT-LCD driver using EtherNet or a floppy disk. The device also contains a power supply for a TFT-LCD and a common grid signal generator.

SPECIFICATION

SOFTWARE ENVIRONMENT		
MS Windows Version	MS Windows 95	
PATTERN GENERATOR		
VIDEO MEMORY		
PIXEL (RESOLUTION)	2048(H) x 2048(V) or less	
BIT	8-bit	
PATTERN	16-pattern or less	
OUTPUT	24-channel or less (8-channel x 3-color at color signal)	
EXTENSION	24-channel or less	
TIMING MEMORY		
CLOCK	FREQUENCY 8.5MHz to 100MHz	
PIXEL (RESOLUTION)	4096 dots/1H (The value should be even number.)	
OUTPUT	For clock (1) 16 channels	
	For clock (2) 16 channels (phase adjustment available)	
PATTERN	16-pattern	
CPU BOARD		
CPU	5 x 86-133MHz	
OPERATING SYSTEM	Windows 95	
ETHER NET INTERFACE	IEEE 802.3 Protocol	
MONITOR OUTPUT	VGA	
COMMUNICATION PORT	COM1 RS-232C, COM2 RS-232C/422/485	
KEYBOARD INPUT	PS/2	
LCD POWER SUPPLY		
	VOLTAGE OUTPUT	CURRENT OUTPUT
VCCX	1V to 6V	100mA at Max.
VDDX	1V to 20V	100mA at Max.
VSSX	-10V to +10V	-200mA to +200mA
VCCY	1V to 6V	100mA at Max.
VDDY	1V to 20V	100mA at Max.
VSSY	-10V to +10V	-200mA to +200mA
DRIVE AMP 1, 2 (DRIVE SIGNAL AMPLIFIER BOARD) (w/500mm flatcable and LCD panel loaded, 20Vp-p output)		
PHASE GAP	5nS or less (under the same load condition)	
RISE & FALL TIME	20nS or less	
OVERSHOOT	10% or less	
BANDWIDTH	-10V to 20V (0.1V step)	
BANDWIDTH DIFFERENCE	100mV or less (between each channel)	

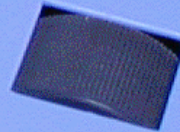
DRIVE AMP 3, 4 (DRIVE SIGNAL AMPLIFIER BOARD) (w/500mm flatcable and LCD panel loaded, 20Vp-p output)		
PHASE RANGE	0 to 20nS, 4nS steps (for each channel)	
PHASE GAP	5nS or less (under the same load condition)	
RISE & FALL TIME	20nS or less	
OVERSHOOT	10% or less	
BANDWIDTH	-10V to 20V (0.1V step)	
BANDWIDTH DIFFERENCE	100mV or less (between each channel)	
VIDEO AMP 1 (VIDEO SIGNAL AMPLIFIER BOARD-1)		
VIDEO SIGNAL	1 to 8 channels	
	Red : 1 to 8 channels	
VIDEO AMP 2 (VIDEO SIGNAL AMPLIFIER BOARD-2)		
VIDEO SIGNAL	9 to 16 channels	
	Green : 1 to 8 channels	
VIDEO AMP 3 (VIDEO SIGNAL AMPLIFIER BOARD-3)		
VIDEO SIGNAL	17 to 24 channels	
	Blue : 1 to 8 channels	
SPECIFICATION OF VIDEO AMP 1 to 3 (w/flatcable 500mm and LCD panel loaded at 5Vp-p output)		
RISE & FALL TIME	20nS or less	
OVERSHOOT	10% or less	
SAG	5% or less (at 60Hz square wave)	
CONTRAST VOLTAGE	0 to 5.0Vp-p (-10V to 20V)	Difference between each phase to be 10mV or less.
BRIGHTNESS VOLTAGE	0 to 30Vp-p (-10V to 20V)	
CENTER VOLTAGE	-10V to 20V	
PRECHARGE VOLTAGE	0 to 30Vp-p (-10V to 20V)	
PRECHARGE TIME (t)	0 to 4095 dot (within blanking time)	
DRIVE SYSTEM	NUMBER OF CHANNEL	1 to 8
	INVERT MODE	All channels into positive polarity
		Odd number channel invert
		Even number channel invert
GENERAL SPECIFICATION		
AMBIENCE	Temperature : 5 to 40°C Humidity : 90% or less (Without dew)	
LINE VOLTAGE	90VAC to 132VAC, 170VAC to 264VAC 50Hz or 60Hz	
POWER CONSUMPTION	150VA or less	
DIMENSION	680mm (W) x 674 mm (D) x 1573.5mm (H)	
WEIGHT	140kg or less	

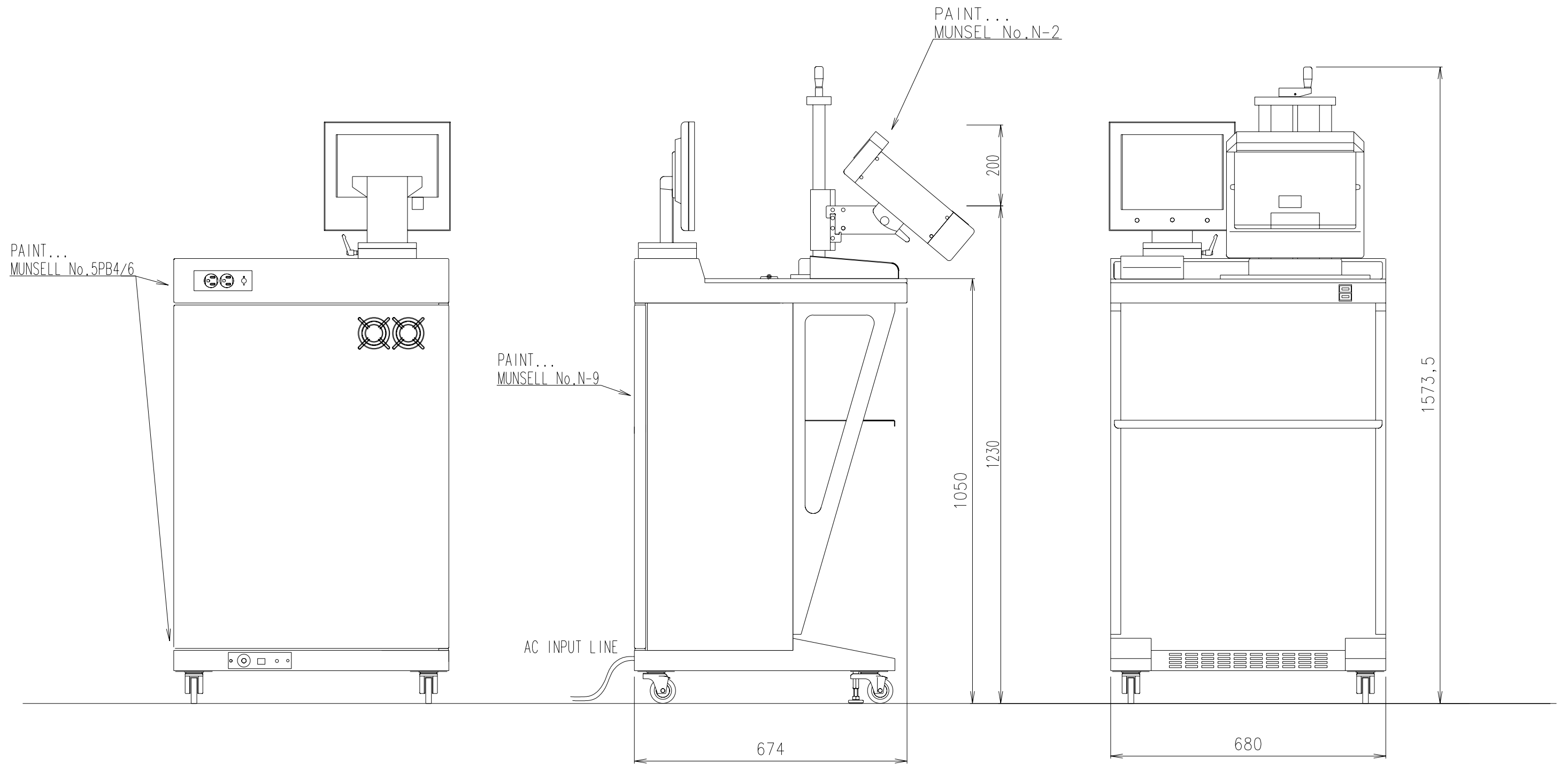
Note : Specifications may change to improve without prior notice.

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REMOTE BOX





				3RD ANGLE PROJ.	UNIT	mm	MODEL NAME	LIS-01	SCALE	1/10	
				DESIGNED BY	narahara	CHECKED BY					
				DRAWN BY	Takahashi	DATE	01.02.14	PART'S NAME	LIS-01	RWG SIZE	A3
SYMBOL	DATE	REVISION	SIGN	MCE MECC CO., LTD.			RWG No.	ZA-462-000000	SYMBOL		