

# ESD TEST SYSTEM MODEL 58154 SERIES

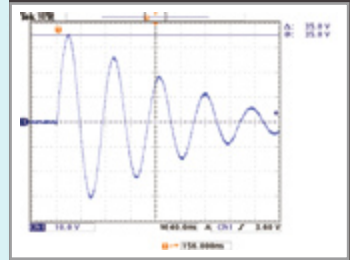
Chroma 58154 series ESD Test Systems are PXI/PCI controlled module to simulate electrostatic discharge pulse during electronic device testing. The 58154 series offer both ESD STM5.1-2001-Human Body Model and ESD STM5.2-1999-Machine Model. The user friendly software offers programmable and flexible features, such as sampling test on a wafer, ESD model, ESD pulse polarity, ESD pulse interval in a sequence, and automatic testing function.

The 58154 series includes a control module and a pulse output external box. High voltage power supply unit (PSU) and pulse shaping circuits provide the ESD STM standards compliant pulse waveform.

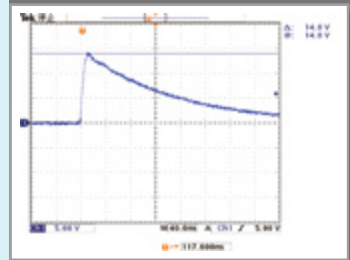
The 58154 series offer a flexible, widely and totally ESD test solution to customers. Furthermore, the ESD pulse is generally applied to the device under test before measuring device electric parameters and the 58154 series can be perfectly integrated with Chroma 58151 tester and Chroma 58153 prober, which is a total solution in production line.

## Key Features

- Two Model ESD Pulse Generation :  
Human body model and Machine model
- Programmable Auto Test :  
Pulse delay, cycle and polarity are programmable
- Resolution :  
5V per-step for Machine model,  
20V per-step for Human body model (58154)
- Resolution :  
10V per-step for Machine model,  
20V per-step for Machine model,  
30V per-step for Human body model  
(58154-A, 58154-B)
- Resolution :  
10V per-step for Machine model,  
30V per-step for Human body model  
(58154-C)
- Diversity Control Interface :  
PCI DIO card or PXI DIO card
- Up to 8000V (58154-C)



Machine Model waveform



Human Body Model waveform



58154-A Software



ESD Test System (PCI Board)



## SPECIFICATIONS

Model	58154	58154-A	58154-B	58154-C
Parameter	Value			
ESD Mode	Machine Model / Human body model			
Pulse Voltage	Machine model: 50V to 400V ± 5V Human body model: 500V to 4KV ± 20V	Machine model: 100V to 500V ± 10V Human body model: 250V to 6KV ± 30V	Machine model: 100V to 800V ± 10V Human body model: 250V to 6KV ± 30V	Machine model: 100V to 800V ± 10V Human body model: 250V to 8KV ± 30V
ESD Specification *1	Machine model reference on STM5.2-1999 Human body model reference on STM5.1-2001			
Pulse Interval	20 ms to 1 s (User definable)			
Pulse Repetition	Single or multiple			
Pulse Polarity	Positive or negative (software control)			
AC Input	100 to 240V, 47 to 63 Hz			
Dimensions	434.6mm(W) x 97.7mm(H) x 306.8mm(D)			
Weight	11kg			

Pattern No: 95137265

Pattern Name: Discharge and remote feedback integrated testing system

Note\*1 : The test condition is under output terminal of equipment

## ORDERING INFORMATION

**PXI-58154** : ESD Test System (4kV / 400V)

**PCI-58154** : ESD Test System (4kV / 400V)

**58154-A** : ESD Test System (6kV / 500V)

**58154-B** : ESD Test System (6kV / 800V)

**58154-C** : ESD Test System (8kV / 800V)

Developed and Manufactured by :

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