

# ALL-200G gang programmer

A multi-site high performance IC programmer



## Introduction

ALL-200G Gang Programmer is designed to provide high quality programming platform for new released IC products on the market especially for high density FLASH units. ALL-200G works with multiple Socket Boards to perform multi-site programming for limited / mass production. Through USB port, 4/8 sets of ALL-200G can be connected to one PC for either synchronous or asynchronous multi-site programming to maximize production capacity.

ALL-200G extremely high freq. core circuit design significantly cut down programming time of high density memory products. ALL-200G Programmer has 56 x 8 sets of Precise Universal Pin Driver to provide high speed, low noise, accurate and reliable programming signals for various IC products including high speed low power devices recently released to market. Each site owns individual Pin Driver so sites are totally independent without interfering each other during multi-site programming.

ALL-200G can be setup for multi-site operation when production required. Up to 8 sites x 8 sets = 64 sites can be programmed simultaneously to maximize production. For more to go, the ALL-200G based Automated Programming System, AT3-300 Series, can serve the requirement.

The supporting software is updated weekly on HI-LO web site for checking / retrieving through Internet easily. Programming of new products will not be neglected after purchasing.

## Key Features

Excellent performance :

ALL-200G extremely high freq. core circuit design significantly cut down programming time of high density memory products. Precise Universal Pin Drivers provide high speed, low noise, accurate and reliable programming signals for various IC products including high-speed low power devices recently released to market.

Wide range of IC coverage :

ALL-200G supports wide range of IC products including EEPROM, Serial EE, SPI memory, NOR/NAND FLASH, MPU/MCU product types and DIP, SDIP, SOP, SSOP, TSOP, PLCC, QFP, QFN, SON, BGA package types.

Easy to setup & operate :

ALL-200G setup and operation can be done easily by connecting Programmer to PC with Windows 2000/XP/Server 2003/Vista/Windows 7/Windows 8 O.S. through USB port, load data file or read Master IC, then select functional options (Program \ Verify \ Auto...etc.) to start programming.

Site independent parallel programming :

ALL-200G Programmer has 56 x 8 sets of Precise Universal Pin Driver, each site owns individual Pin Driver so sites are totally independent without interfering each other during multi-site programming. ALL-200G can be setup for multi-site operation when production required. Up to 8 sites x 8 sets = 64 sites can be programmed simultaneously to maximize production.

High expansion flexibility : Easy to expand programming types for various ICs by simply replacing appropriate Socket Boards on top of Programmer.

Timely software support :

The supporting software is updated weekly on HI-LO web site for checking / retrieving through Internet easily. Programming of new products will not be neglected after purchasing.

World wide service :

Distribution channel covers 35 countries worldwide, all inquiries / problems can be served easily and timely.

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## Specification

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<b>Core controller</b>	16 bits high freq. core control circuit with high performance FPGA & CPLD
<b>Key functions</b>	Load File, Read Master, Program, Verify, Auto, ID Check, Checksum, Blank Check, Erase, Secure, Protect / Unprotect, Edit, Function Configuration, Self Test.
<b>Support devices</b>	IC types : EEPROM, Serial EE, SPI memory, NOR/NAND FLASH, MPU/MCU...etc. IC packages : DIP, SDIP, SOP, SSOP, TSOP, PLCC, QFP, QFN, SON, BGA...etc. IC leads : 8 pins ~ 300 pins
<b>Device contact</b>	Dedicated Socket Board ( HD-xxx-xxx ) per IC package type
<b>I/O channels</b>	56 x 8 sets Precise Universal Pin Driver Provide high quality programming signals for high speed low power (1.8V) devices
<b>Load / expansion capacity</b>	Up to 8 sites parallel programming per set. Up to 8 sites x 8 sets = 64 sites per PC setup.
<b>Data transfer interface</b>	Transfer port : USB x 1
<b>Transfer speed</b>	USB1.1 : 12 Mb/sec. USB2.0 : 480 Mb/sec.
<b>Host computer requirement</b>	An Intel or compatible processor with 512MB of RAM At least one USB port is available 50MB free hard disk space Windows 2000 / XP / Server 2003 / Vista/ Windows 7/ Windows 8 operation system CD ROM / DVD ROM Drive
<b>Power</b>	Power source : 100~240 VAC 50~60 Hz
<b>Power consumption</b>	~ 0.8 A
<b>Operation temperature</b>	0 ~ 40°C (32 ~ 105°F)
<b>Dimension</b>	W x D x H : 162mm x 257mm x 100mm
<b>Weight</b>	~ 2.24 kg (Base Unit) ~ 2.56 kg (with socket boards on top)
<b>Certification</b>	CE certified

## Ordering Information

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Standard accessories	include ALL-200G Base Unit, USB cable, driver S/W and user manual in CD-ROM
Optional accessories	HD-xxx-xxx : Dedicated Socket Board per IC package type Contact HI-LO sales or check web site @ <a href="http://www.hilosystems.com.tw/">http://www.hilosystems.com.tw/</a> for appropriate P/N for IC package to be programmed