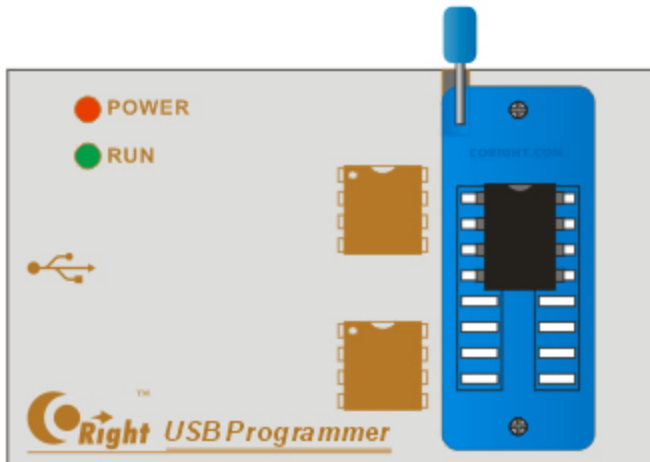# Overview

- EP01 is a High-Speed USB programmer produced by CORIGHT.
- EP01 support 25 FLASH, 24 EEPROM, 25 EEPROM, 93 EEPROM, etc.
- EP01 support mass production mode.
- EP01 support off-line chip copy.
- EP01 support rolling code chip(HCS series).
- EP01 Safe, High-Speed, Portable.

[Features]

[System Requirements]

[End-user license agreement]

Features

- Compactness and portability.

- Built-in self recovery fuse to provide ongoing protection of equipment.

- USB 2.0 interface, the speed is up to 12Mbps.

- Support rolling code chip(HCS series).

- Support 24 EEPROM, 25 EEPROM, 93 EEPROM, SPI FLASH etc.

- Support mass production mode.

- Support off-line chip copy.

- Auto detect chip modles.

- Software and firmware upgrades automatically.

- Support for multiple languages, modify or add any language.

- Friendly buffer edit window.

- Support for Windows 2000、Windows XP、Windows Vista、Windows 7、Windows 8。

[Overview]

System Requirements

Minimum System Requirements:

- Operating system: Win2000/XP/Vista/7/8。
- Resolution: 1024*768。
- USB1.0 standard of universal serial bus (usb) interface.
- A cd-rom drive.
- 64M of RAM.
- At least 10M hard disk space.

[Overview]

支持芯片列表

*************************滚动码芯片

***********************HCS301; HCS300; HCS201; HCS200; HCS101;

***********************24

EEPROM************************

ATMEL： AT24C01; AT24C01A; AT24C01B; AT24C02; AT24C02A; AT24C02B; AT24C04; AT24C04A; AT24C04B; AT24C08; AT24C08A; AT24C08B; AT24C16; AT24C16A; AT24C16B; AT24C32; AT24C32A; AT24C32B; AT24C64; AT24C64A; AT24C64B; AT24C128; AT24C128A; AT24C128B; AT24C256; AT24C256A; AT24C256B; AT24C512; AT24C512A; AT24C512B; AT24C1024; AT24C1024A; AT24C1024B;

CATALYST： CAT24C01; CAT24C02; CAT24C04; CAT24C08; CAT24C16; CAT24C32; CAT24C64; CAT24C128; CAT24C256; CAT24C512; CAT24C1024;

CORIGHT： 24C01; 24C02; 24C04; 24C08; 24C16; 24C32; 24C64; 24C128; 24C256; 24C512; 24C1024;

FAIRCHILD： FM24C01; FM24C02; FM24C03; FM24C04; FM24C05; FM24C08; FM24C09; FM24C16; FM24C17; FM24C32; FM24C64; FM24C128; FM24C256; FM24C512;

FM24C1024;

HOLTEK: HT24C01; HT24LC01; HT24C02; HT24LC02; HT24C04; HT24LC04; HT24C08; HT24LC08; HT24C16; HT24LC16; HT24C32; HT24LC32; HT24C64; HT24LC64; HT24C128; HT24LC128; HT24C256; HT24LC256; HT24C512; HT24C1024;

ISSI: IS24C01; IS24C02; IS24C04; IS24C08; IS24C16; IS24C32; IS24C64; IS24C128; IS24C256; IS24C512; IS24C1024;

MICROCHIP: 24AA00; 24LC00; 24FC00; 24AA01; 24LC01; 24FC01; 24AA02; 24LC02; 24FC02; 24AA04; 24LC04; 24FC04; 24AA08; 24LC08; 24FC08; 24AA16; 24LC16; 24FC16; 24AA32; 24LC32; 24FC32; 24AA64; 24LC64; 24FC64; 24AA128; 24LC128; 24FC128; 24AA256; 24LC256; 24FC256; 24AA512; 24LC512; 24FC512; 24AA1026; 24LC1026; 24FC1026;

NSC: 24C02; 24C02L; 24C64;

NXP: PCA24S08A;

RAMTRON: FM24C04A; FM24CL04; FM24C16A; FM24CL16; FM24C64; FM24CL64; FM24C256; FM24CL256; FM24C512;

ROHM: BR24C01; BR24L01; BR24C02; BR24L02; BR24C04; BR24L04; BR24C08; BR24L08; BR24C16; BR24L16; BR24C32; BR24L32; BR24C64; BR24L64;

ST: ST24C01; ST24C02; ST24C04; ST24C08; ST24C16;

ST24C32; ST24C64;

XICOR: ST24C01; ST24C02; ST24C04; ST24C08; ST24C16;

**************************25

EEPROM************************

ATMEL: AT25010; AT25020; AT25040; AT25080; AT25160; AT25320; AT25640; AT25128; AT25256; AT25512;

CATALYST: CAT25C01; CAT25C01P; CAT25C01S; CAT25C01U; CAT25C02P; CAT25C02S; CAT25C02U; CAT25C03P; CAT25C03S; CAT25C03U; CAT25C04P; CAT25C04S; CAT25C04U; CAT25C05P; CAT25C05S; CAT25C05U; CAT25C08P; CAT25C08S; CAT25C08U; CAT25C09P; CAT25C09S; CAT25C09U; CAT25C16P; CAT25C16S; CAT25C16U; CAT25C17P; CAT25C17S; CAT25C17U; CAT25C32P; CAT25C32S; CAT25C33P; CAT25C33S; CAT25C64P; CAT25C64S; CAT25C65P; CAT25C65S; CAT25C128P; CAT25C128S; CAT25C256P; CAT25C256S;

CORIGHT: 25C01; 25C01; 25C040; 25C080; 25C160; 25C320; 25C640; 25C128; 25C256;

MICROCHIP: 25C040; 25C080; 25C160; 25C320; 25C640; 25LC040; 25LC080; 25LC160; 25LC320; 25LC640; 25LC128; 25LC256; 25AA040; 25AA080; 25AA160; 25AA320; 25AA640; 25AA128; 25AA256;

RAMTRON: FM25C160; FM25640; FM25CL64;

ST: ST25C01; ST25C02; ST25C04; ST25C08; ST25C16; ST25W01; ST25W02; ST25W04; ST25W08; ST25W16; M95010; M95020; M95040; M95080; M95160; M95320; M95640; M95128; M95256; M95512;

TI: TI2532; TI2532A; TI2564;

XICOR: X25010; X25020; X25040; X25080; X25160; X25320; X25640; X25128; X25256; X25512;

**************************93 EEPROM************************

ACE: ACE93C46-16bit; ACE93C46-8bit;

AKM: AK93C45A; AK93C55A; AK93C65A; AK93C75A;

ATC: ATC93C46-16bit; ATC93C46-8bit; ATC93C56-16bit; ATC93C56-8bit; ATC93C66-16bit; ATC93C66-8bit; ATC93C86-16bit; ATC93C86-8bit;

ATMEL: 93C46-16bit; 93C46-8bit; 93C56-16bit; 93C56-8bit; 93C66-16bit; 93C66-8bit; 93C76-16bit; 93C76-8bit; 93C86-16bit; 93C86-8bit;

CATALYST: CAT93C46-16bit; CAT93C46-8bit; CAT93C56-16bit; CAT93C56-8bit; CAT93C57-16bit; CAT93C57-8bit; CAT93C66-16bit; CAT93C66-8bit; CAT93C86-16bit; CAT93C86-8bit;

CORIGHT: 93C06; 93C46-16bit; 93C46-8bit; 93C56-16bit;

93C56-8bit; 93C66-16bit; 93C66-8bit; 93C76-16bit; 93C76-8bit; 93C86-16bit; 93C86-8bit;

EXEL: XL93C06; XL93C46; XL93CS46; XL93LC46; XL93C56; XL93LC56; XL93C66; XL93LC66;

FAIRCHILD: FM93C06; FM93C46; FM93C46A-16bit; FM93C46A-8bit; FM93C56; FM93C56A-16bit; FM93C56A-8bit; FM93C66; FM93C66A-16bit; FM93C66A-8bit; FM93C86A-16bit; FM93C86A-8bit;

HOLTEK: HT93LC46-16bit; HT93LC46-8bit; HT93LC56-16bit; HT93LC56-8bit; HT93LC66-16bit; HT93LC66-8bit;

ICT: ICT93C46-16bit; ICT93C46-8bit; ICT93C56-16bit; ICT93C56-8bit; ICT93C66-16bit; ICT93C66-8bit;

ISSI: IS93C46; IS93C46A-16bit; IS93C46A-8bit; IS93C56; IS93C56A-16bit; IS93C56A-8bit; IS93C66; IS93C66A-16bit; IS93C66A-8bit; IS93C76A-16bit; IS93C76A-8bit; IS93C86A-16bit; IS93C86A-8bit;

MICROCHIP: 93C06; 93C46-16bit; 93C46-8bit; 93C56-16bit; 93C56-8bit; 93C66-16bit; 93C66-8bit; 93C76-16bit; 93C76-8bit; 93C86-16bit; 93C86-8bit; 93C46B; 93C46A; 93C56B; 93C56A; 93C66B; 93C66A; 93LC46-16bit; 93LC46-8bit; 93LC56-16bit; 93LC56-8bit; 93LC66-16bit; 93LC66-8bit; 93LC76-16bit; 93LC76-8bit; 93LC86-16bit; 93LC86-8bit; 93LC46B; 93LC46A; 93LC56B; 93LC56A; 93LC66B; 93LC66A; 93AA46-16bit; 93AA46-8bit; 93AA56-16bit;

93AA56-8bit; 93AA66-16bit; 93AA66-8bit; 93AA76-16bit; 93AA76-8bit; 93AA86-16bit; 93AA86-8bit;

NSC: 93C06; 93C46; 93C56; 93C66; 93C86; 93CS06; 93CS46; 93CS56; 93CS66; 93CS86;

ROHM: BR93LC46; BR93LC56; BR93LC66; BR93LC46RF; BR93LC56RF; BR93LC66RF;

SEIKO: S-93C46A; S-93C56A; S-93C66A;

ST: ST93C06; ST93C46; ST93C56; ST93C66; M93S46; M93S56; M93S66; M93S46R; M93S56R; M93S66R; M93S46W; M93S56W; M93S66W;

************************SPI FLASH************************

ALTERA: EPCS1; EPCS4; EPCS16; EPCS64; EPCS128;

AMIC: A25L512; A25L010; A25L020; A25L040; A25L080; A25L016; A25L032; A25L05PT; A25L05PU; A25L10PT; A25L10PU; A25L20PT; A25L20PU; A25L40P; A25L80P; A25L16PT; A25L16PU;

ATMEL: AT25F512; AT25F512A; AT25F512B; AT25F1024; AT25F1024A; AT25F2048; AT25F4096; AT25FS010; AT25FS020; AT25FS040; AT26F004; AT25DF021; AT25DF041A; AT26DF081A; AT25DF161; AT26DF161; AT26DF161A; AT25DF321; AT25DF321A; AT26DF321; AT25DF641;

CORIGHT: 25P05; 25P10; 25P20; 25P40; 25P80; 25P16; 25P32; 25P64; 25P128;

EON: EN25P05; EN25B05; EN25B05T; EN25P10; EN25B10; EN25B10T; EN25P20; EN25B20; EN25B20T; EN25P40; EN25B40; EN25B40T; EN25P80; EN25B80; EN25B80T; EN25P16; EN25B16; EN25B16T; EN25P32; EN25B32; EN25B32T; EN25P64; EN25B64; EN25B64T; EN25F05; EN25LF05; EN25F10; EN25LF10; EN25F20; EN25LF20; EN25F40; EN25LF40; EN25F80; EN25F16; EN25F32; EN25F64; EN25F128; EN25Q80A; EN25Q16; EN25Q16A; EN25Q32A; EN25Q32B; EN25Q64; EN25Q128; EN25D10; EN25D20; EN25D40; EN25D80; EN25D16; EN25T80; EN25T16;

ESMT: F25L004A; F25L004AT; F25L04UA; F25L008A; F25L008AT; F25L08PA; F25L016A; F25L016AT; F25L16PA; F25L32PA; F25L32QA;

EXCELSEMI: ES25P10; ES25P20; ES25P40; ES25P80; ES25P16; ES25P32; ES25M40; ES25M40A; ES25M80; ES25M80A; ES25M16; ES25M16A;

GIGADEVICE: GD25Q512; GD25Q10; GD25Q20B; GD25Q40B; GD25Q80B; GD25Q16B; GD25Q32B; GD25Q64B; GD25Q128B; GD25Q128C;

MICRON: M25P05; M25P10; M25P20; M25P40; M25P80; M25P16; M25P32; M25P64; M25P128; N25Q032; N25Q064;

N25Q128; N25Q128A; N25Q256A;

MXIC: MX25L512; MX25V512; MX25L1005; MX25L2005; MX25L4005A; MX25V4005; MX25L8005; MX25V8005; MX25L1605D; MX25L1606E; MX25L1635D; MX25L1633E; MX25L3205D; MX25L3206E; MX25L3225D; MX25L3235D; MX25L3237D; MX25L6405D; MX25L6406E; MX25L12805D; MX25L12835E; MX25L12845E; MX25L25635E; MX25L25735E; MX25V4035; MX25V8035;

NEXFLASH: NX25P10; NX25P20; NX25P40; NX25P80; NX25P16; NX25P32;

PMC: PM25LV512; PM25LV010; PM25LV020; PM25LV040; PM25LV080B; PM25LV016B;

SAIFUN: SA25F005; SA25F010; SA25F020; SA25F040; SA25F080; SA25F160; SA25F320;

SPANSION: S25FL004A; S25FL008A; S25FL016A; S25FL032A; S25FL064A; S25FL128S; S25FL256S; S25FL512S;

SST: SST25VF512; SST25VF010; SST25VF020; SST25VF040; SST25VF080; SST25VF512A; SST25VF010A; SST25VF020A; SST25VF040A; SST25VF080A; SST25LF512A; SST25LF010A; SST25LF020A; SST25LF040A; SST25LF080A; SST25VF020B; SST25VF040B; SST25VF080B; SST25VF016B; SST25VF032B; SST25VF064C;

ST: M25P05A; M25P10A; M25P20A; M25P40A; M25P80A;

M25P05; M25P10; M25P20; M25P40; M25P80; M25P16;

M25P32; M25P64; M25P128; M25P05A; M25P10A; M25PE10;

M25PE20; M25PE40; M25PE80; M25PE16; M25PX80;

M25PX16; M25PX32; M25PX64;

WINBOND: W25P10; W25X10; W25X10A; W25X10AL;

W25X10L; W25P20; W25X20; W25X20A; W25X20AL;

W25X20L; W25P40; W25X40; W25X40A; W25X40AL;

W25X40L; W25P80; W25X80; W25X80A; W25X80AL;

W25X80L; W25P16; W25X16; W25P32; W25X32; W25X64;

W25Q20; W25Q40; W25Q80; W25Q16; W25Q32; W25Q64;

W25Q128; W25Q256;

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END of document

User Interface

EP01 has friendly user interface, menus, toolbars, concise and easy to use, the software interface is as follows:
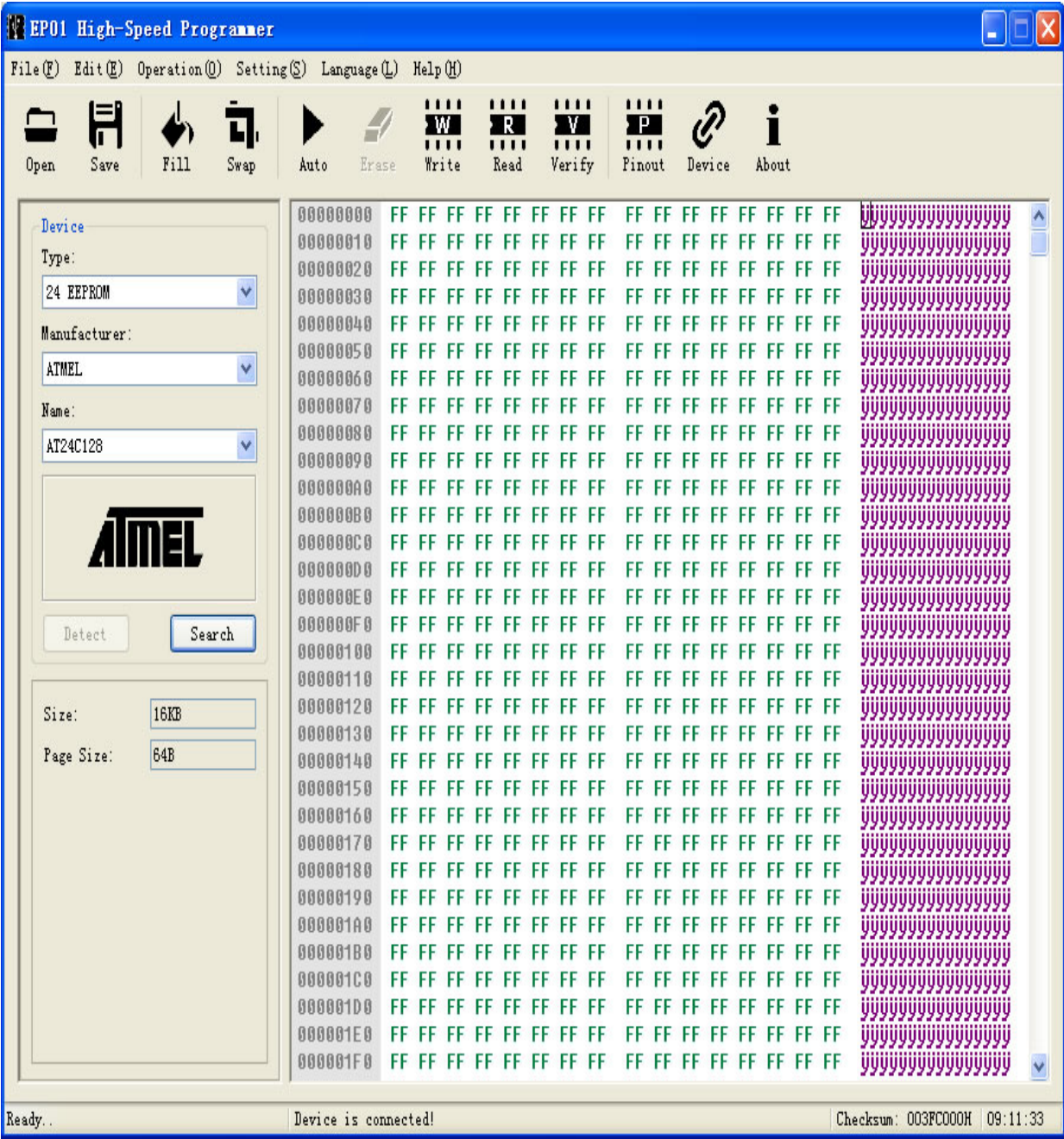
EP01 toolbar:

- Open: Load a file into the buffer.
- Save: Save the buffer to a file.
- Fill: Fill the specified buffer data segment for a specified value.
- Swap: Swap two adjacent bytes.
- Auto: Automatically complete the programming operation.
- Erase: Erase chip data (set to 1).
- Write: Write the data in buffer into the chip.
- Read: Read the chip data into the buffer.
- Verify: Compare the data in buffer with the data in chip.
- Pinout: View the current chip pin configuration.
- Device: Check the equipment model and version information.
- About: Displays program information, version number and copyrightabout.

Options

Automatic Programming:
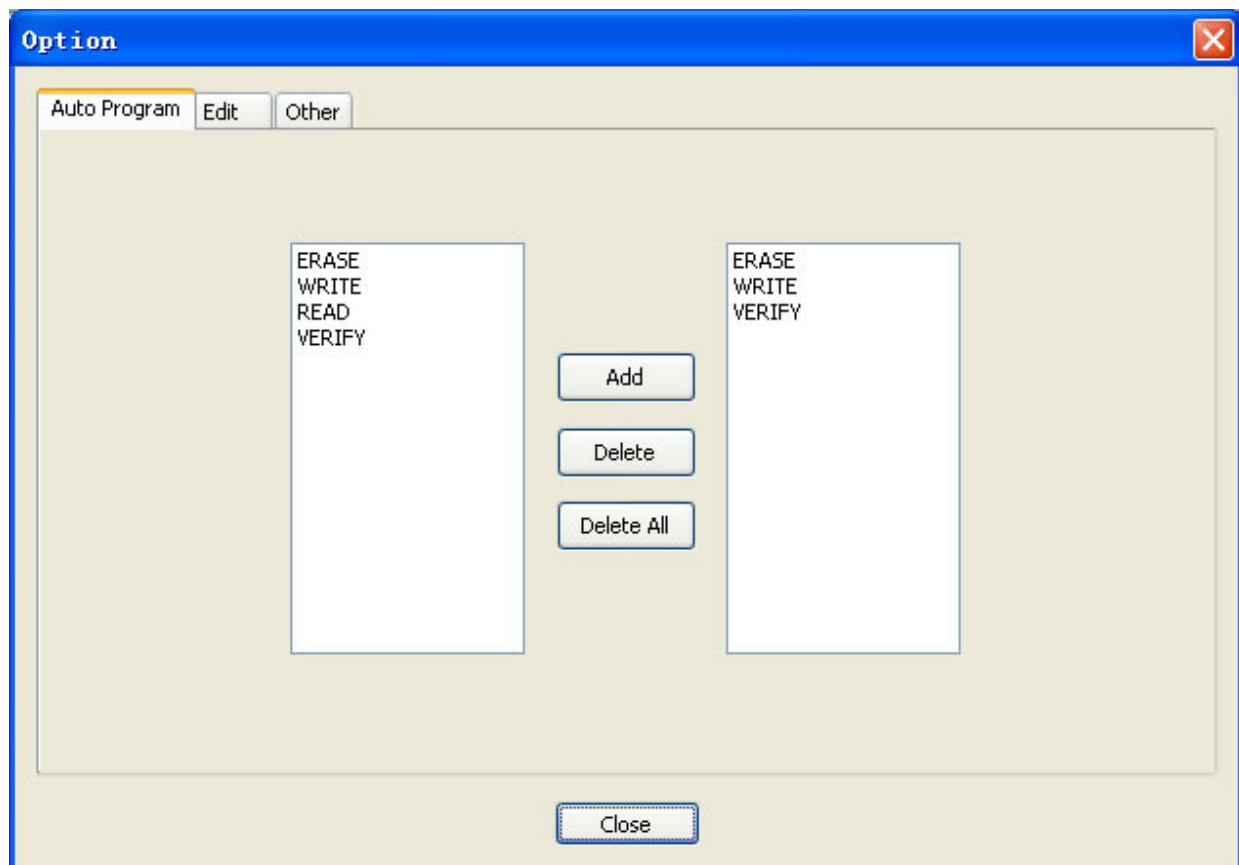
- Through the "add", "delete", "empty" operation and mouse click to edit the content of "Automatic Programming".
- Repeat operation support.

Editor:
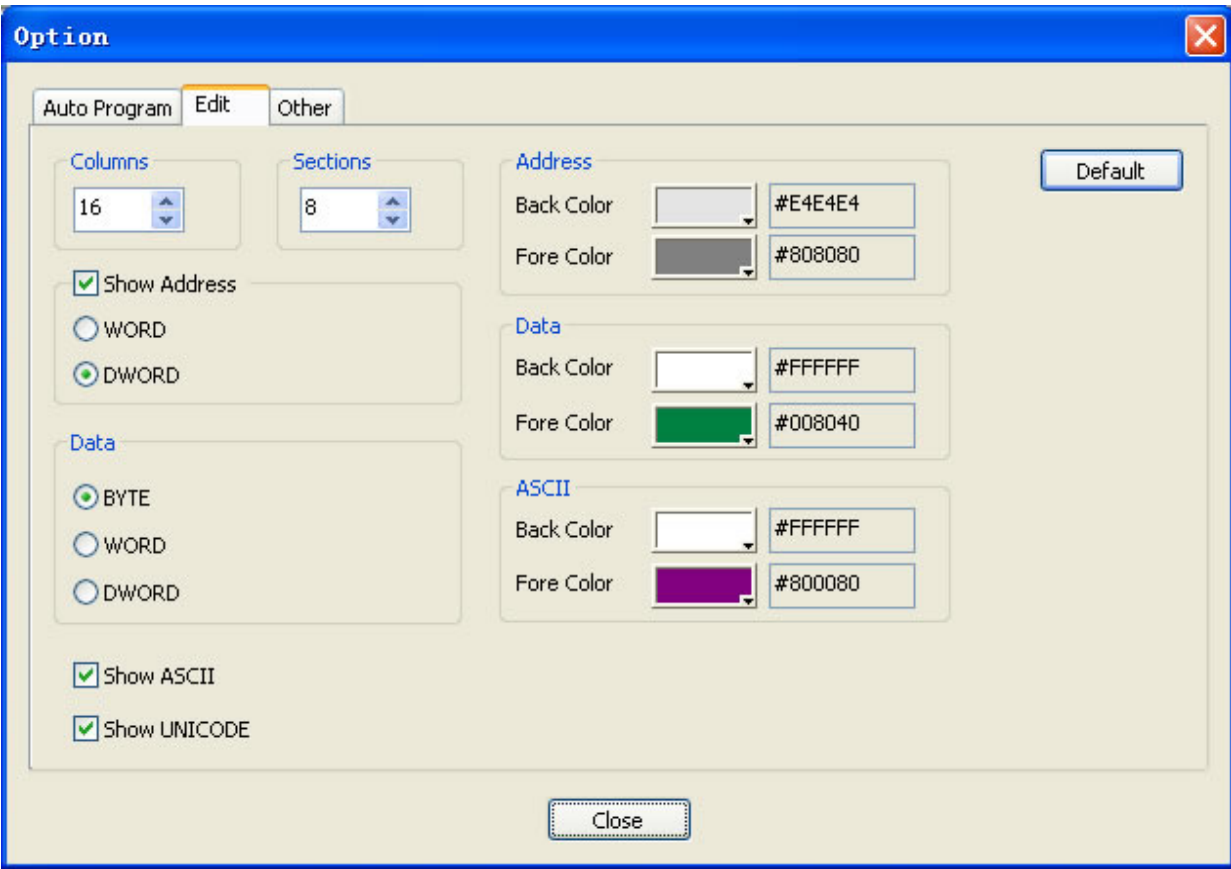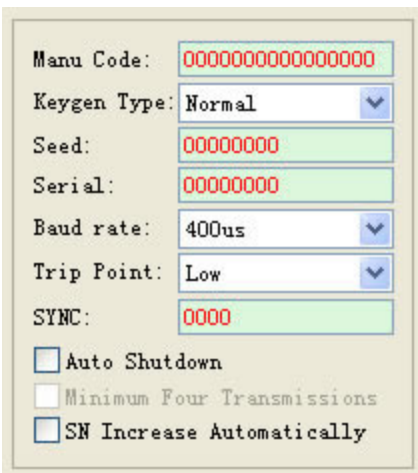
- Columns: The columns of the data.
- Sections: The sections numbers of the data in a line.
- Show Address: Whether to display the data address.
- Data: Data display mode.
- Show ASCII: Whether to display character area.
- Show UNICODE: Whether to show the UNICODE character (available only when "Show ASCII" is checked).
- Fore Color: The font color of each region.
- Back Color: The background color of each area.
- Default: Restore the Settings on this page to default values.

Rolling Code

Interface:

- According to different choice chip set interface will change.
- Support for all four encoding style: Simple, Normal, Secure XOR, Secure the Decrypt.
- All 24 bytes of data can be modified to meet all requirements.
- Rolling code chip is a "write-only" chip, so EP01 provide only "written" function.
- Check operation followed by writing data immediately, and the results are given.
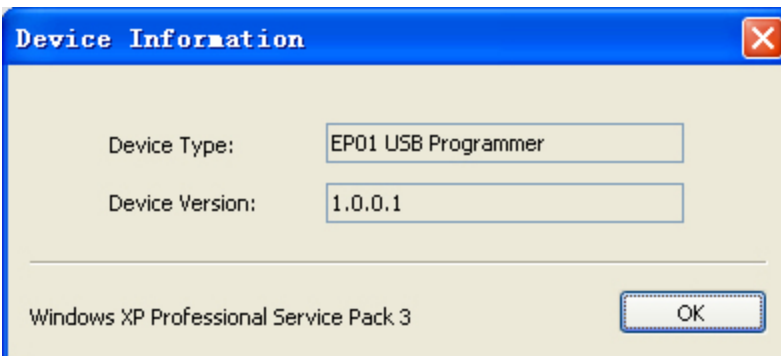
Pinout

Interface:
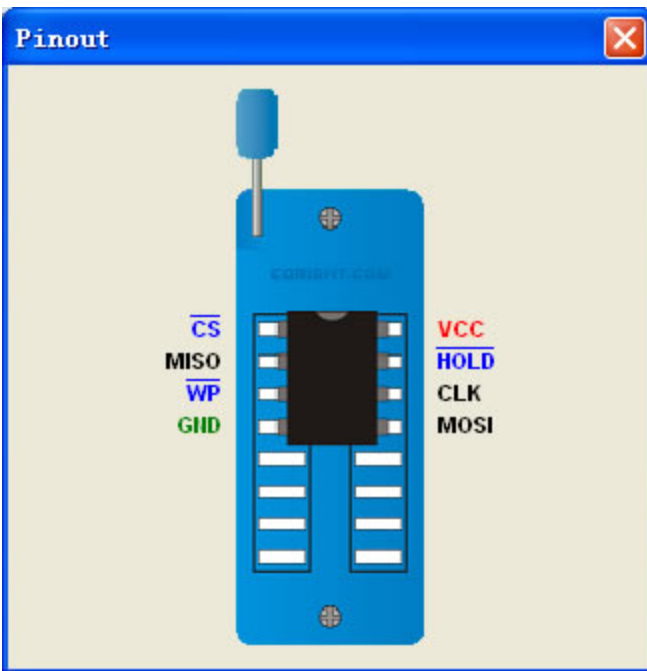
- View the pin configuration of current chip.
- Recommend to check the pin configuration before replacing chips, to avoid operation fails.

Device information

Interface:

- Device Type: Displays the current device models.
- Device Version: Displays the current device firmware version.

Language Setting

- EP01 support multilingual language (up to 1000 countries).
- EP01 provide "English", "Simplified Chinese", "Traditional Chinese" three languages as default.
- Modify or add any language according to need.

Modify Language:

- Open the language file in the folder "Language".
- Modify the text.
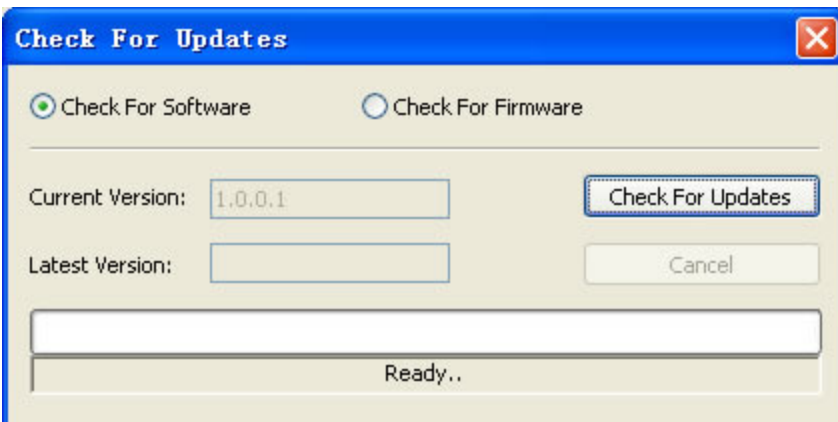- Save and restart EP01 software.

Add Language:

- Enter the "Language" folder.
- Copy any existing language file as a new one.
- Edit the new language file.
- Set the string "Language" in section "[Setting]" to a new value (show as new language name).
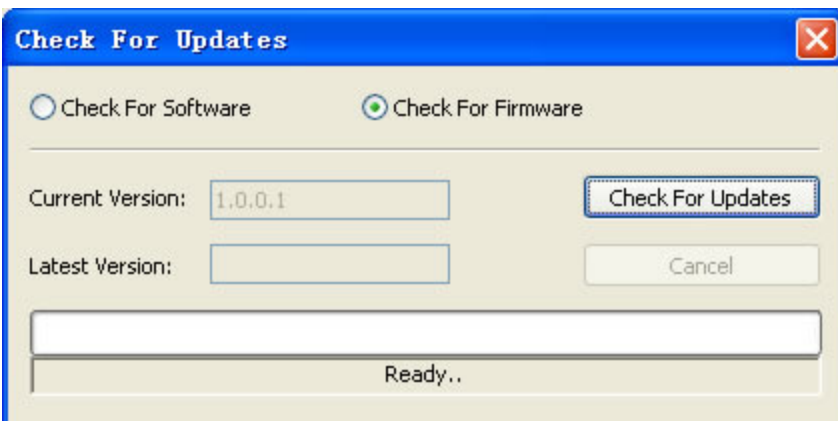
Check For Updates

Check the software update:

- Select "Check For Software";
- Click on the "check update", follow the prompts and complete the operation.

Check the firmware update:

- Select "Check For Firmware";

- Click on the "Check For Updates", follow the prompts and download the latest firmware file to local disk.

- Upgrade equipment through "Update Firmware".

Get the latest version of the application online:

- Access the update files via browser: http://www.coright.com/products

Update Firmware

- Get the latest firmware through "Check Update" opreation.

- Click the menu "Help"->"Update Firmware".

- Select the latest firmware file, follow the prompts and complete the operation.

Automatic Programming

- Auto complete "erase", "write", "check", "read" combined operations.
- Specific combination of operations can be modified through the "Options".

Erase

- Erase chip data (set to 1).
- Some SPI FLASH chip must be erased before writing data operation.
- When some chip does not support the erase operation is selected, the "erase" option will be disabled.

Write

- Write the data in buffer into the chip.
- Some SPI FLASH chip must be [erased](#) before writing data operation.

Read

- Read the chip data into the buffer.
- When some of the chip (HCS series) does not support read operation is selected, "read" option will be disabled.

Verify

- Compare the data in buffer with the data in chip.
- When some chips (HCS series) which do not support checking operation is selected, the "check" option will be disabled.

Mass Production

Interface:
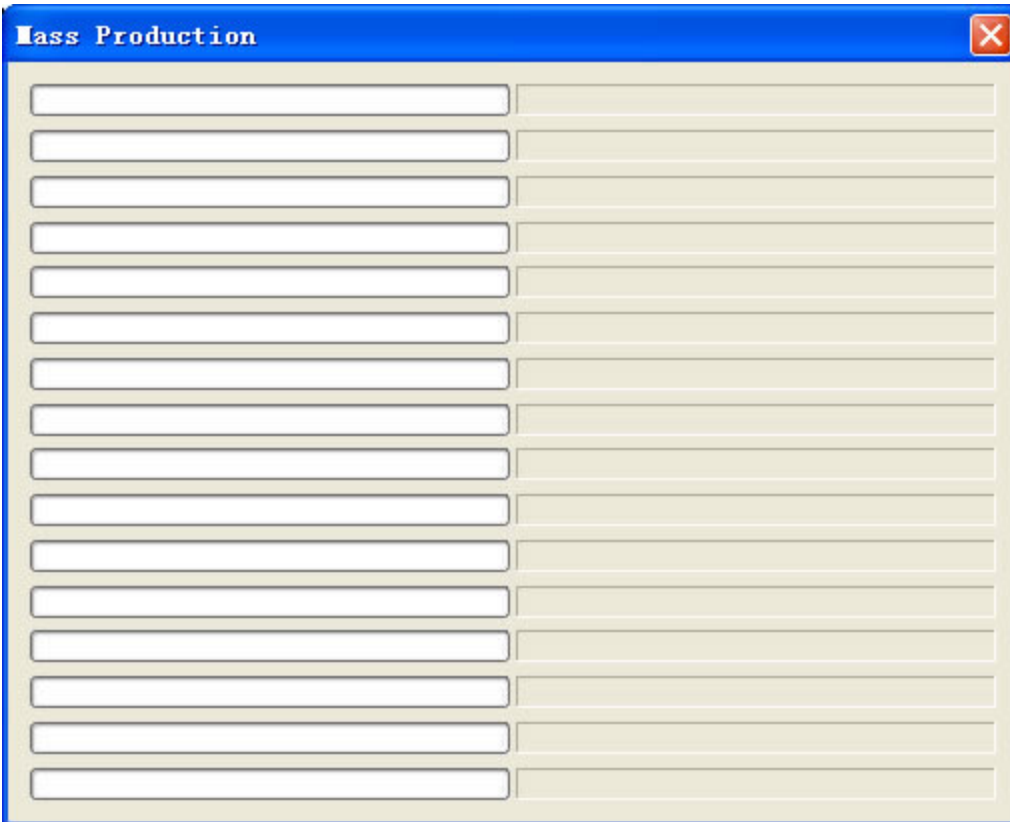
- Each computer can be connected to an unlimited number of devices (only the first 16 devices will show progress and status).
- The equipment does not interfere with each other (replace chip or plug devices or remove devices at any time is permitted).

- Automatically detects whether the chip is ready and enter the programming mode(perform automatic programming of setting).
- Exit this window to exit the production mode (all equipment in a ready state required).
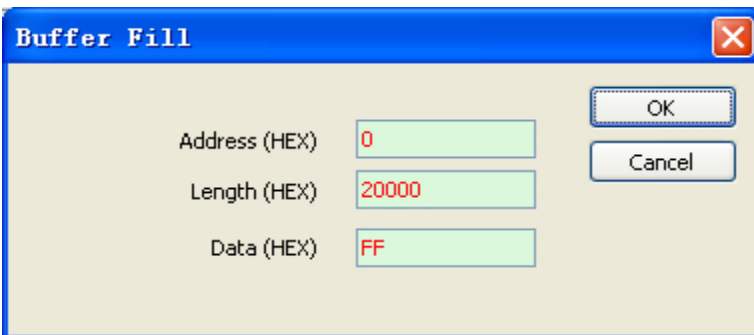
Self Check

- Check if there is hardware failure or not.
- Please remove the chip before self-checking, otherwise will be prompted to self-test failure.

Fill

Interface:

- Fill the specified buffer data segment for a specified value.
- Automatic computing start address and length of the buffer to be filled.
- Did not select any data: address is set to 0, the length is equal to the length of the buffer.
- If you have selected data: address is set to the selected data starting position, the length is equal to the selected data length.

Location

Interface:

- Target Address : The position want to go.
- Current Address : Current position.
- Click on the button "Go" to jump to the target address.
- Click on the button "Cancel" to quit.

FAQ

1.Write data failure (1)Check the chip and pin configuration before writing operation.

(2)Some SPI FLASH chips must be erased before writing operation.

(3)Memory chips might have been damaged.

(4)Programmer is faulty,Update the latest software and firmware.

Contact Us

If you encounter problems in using or you have any good Suggestions to the software, please contact us through the following way:

Through our website:

http://www.coright.com/

By E-mail:

sales@coright.com