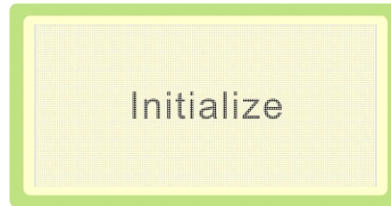


Operation Panel



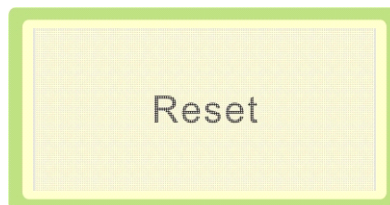
5.1 Boot Screen

When the system is powered on, the PAD-1000 operation panel displays as follows:



5.2 Reset

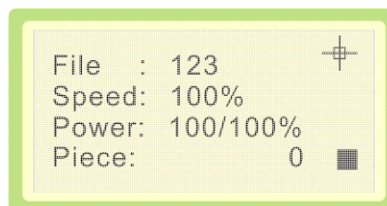
If the system is set boot reset, X/Y-axis return to origin at the same time when charged in or the “reset” key is pressed. As shown blow



After X/Y-axis has reached the Original switch position, or press ”stop” key, then the system returns to the main interface.

5.3 Standby Interface

Normal communication with the controller, enter the main interface to set parameters as shown below



The upper right corner of the icon is defined as follows:

⊕ : Indicates that the workpiece coordinate has been set, press “location” again, and icon disappears immediately.

■ : Indicates that use of the workpiece coordinate on the PC, showing only one between ⊕ and

■ at the same time

Black: Indicates that the current location of the laser head as the origin

File: The name of the current processing file

Velocity: Percentage of the speed in the processing file

Power: Percentage of processing power in the processing file, the first corresponds to the low-speed power; and the second corresponds to the high-speed power.

Piece: The number of duplicate processing of the current file

When the screen appears a cursor

Press the “↑” and “↓” to move the cursor.

Set the values of processing speed, low-speed power, high-speed power, and processing quantity by “↑” and “↓”, step value is 1;

Press the “start/pause” key to start the current file processing;

Note:

Until you press “ok”, the values of the processing speed, the minimum laser power, the maximum laser power, and the processing quantity to complete the setup.

Processing speed, processing power(including low-speed power and high-speed power) and processing quantity can be save in the case of power cutting after the ”ok” key is pressed.

Press the “ESC” key and the cursor disappears.

In this state

The key of “↑”, “↓”, “→” and “←” correspond to the laser head to move up, down, left, right.

Long press the ”Fire” key and then press “↑”, “↓”, “→”, or “←”, the state of light transforms into Jog, used to draw lines.

Press the “Fire” and set the light parameters.

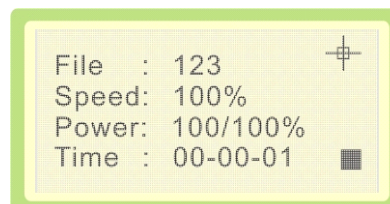
5.3.2 Run Frame

Press the “test”, and then enter run frame interface, as shown below



5.3.3 Processing Operation

Press the “start/pause” to start the current file processing and into the processing interface in the standby mode.



■ 、 ■■ 、 ▲ respectively indicates the state of stop, pause, and run The meanings of the

parameter are as follows:

File: the name of the currently processing file.

Velocity: Percentage of the speed in the processing file

Power: Percentage of processing power in the processing file, the first corresponds to the low-speed power; and the second corresponds to the high-speed power.

Time: completion of the processing time.

In the process

The key of “start/pause”, ”stop”, ”↑”, ”↓”, ”→”, ”←”, and ”ESC” are valid.

Press the ”↑”, or ”↓” to change the processing speed, step value is 1; the range of 0~100.

Press the ”→” or ”←” to change the high-speed power, step value is 1; the range of 0~100.

If the number of keystrokes is odd, press the ”start/pause” to enter pause interface.

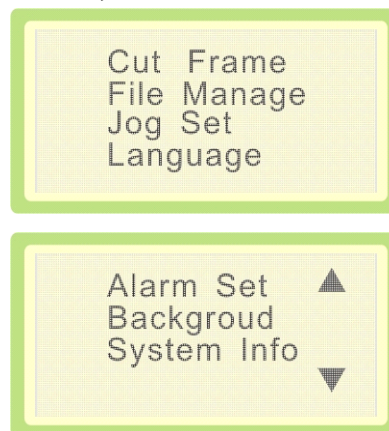
Press the “ESC”, and the controller temporarily displays standby screen; interface changes when the key is released. Excluding time in a paused state

Press the “stop”, then stop processing and back to the standby screen.

If completion of the automatic processing, and displaying “■”, press the “ESC” to return to the standby.

5.4 Main Menu

Press the “menu” key to enter main menu, as shown blow



Backlight settings

Often bright: bright key

Double-click the “menu” key can circularly switch to a different menu.

When the cursor appears on the screen

Press the “↑” or “↓” to move the cursor

When the “ok” is pressed, choice of projects become effective.

Press the “ESC” to back to main interface.

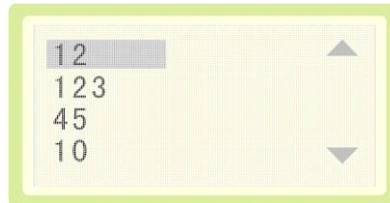
5.4.1 Cutting Frame

If the cursor to select cutting frame, press the “ok” to enter cutting frame interface, as follows





Cutting Frame
Waiting

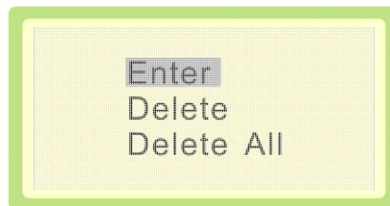
5.4.2 File Selection



When the cursor appears on the screen

Press the “” or “” to move the cursor

Press the “ok” to show the file menu



Press the “ESC” to back to the file selection interface.

Press the “ok” to select different functions.

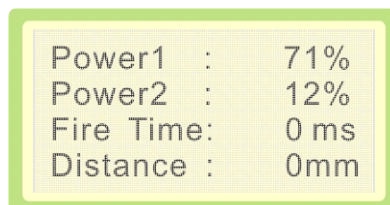
Select the “ok”, and then return to standby interface.

Select the “delete”, and then return to file selection interface, file menu refresh.



Select the ”delete all” key ,and return to file selection.



5.4.3 Fire and Jog

If the cursor to select the “Fire” key, press the “ok” to enter the settings of Fire and Jog; as shown below



Fire time of default is 0mS; Fire power is 100%, Jog distance of 0 mm(Jog distance is not a fixed value).

Press the””or“”key to move the cursor , and it switches between “time” and “power”.

Press the“” or “” to set the corresponding parameters value, step value is 1, Jog distance of 0.1.

The time range is 0 to 99999mS, and the power range is 0 to 100.press the “ok” to come into

effect.

Up, down, left, and right move the laser head in the main interface (the cursor doesn't appear), then the Jog distance (laser head movement distance) is the setting. Press the "Fire" key, and then the Fire time and power is the settings. When the time value in the "Fire set" is 0, laser emits light in the "Fire" key pressed, while light goes out in the key released. If you only set a value, then click once, light is lit once, the time unit is milliseconds.

The default value of Jog distance is 0, and it is not a fixed value. Press the "←", "→", "↑", or "↓" to begin to inch, and motion stops when the key released. If you hold the "←", "→", "↑", or "↓", the laser head continuously moves. If the parameter is not 0, it begins to high-speed motion in accordance with the set distance. Low-speed and high-speed has a corresponding value in the "machine set" of the software.

Press the "ESC" key to return to main menu.

5.4.4 Language Selection

If the cursor indicates the "language selection", press the "ok" to select language, as shown below



Press the "↑", or "↓" to move the cursor, and when the language selection is completed, press the "ok" to enter main menu.

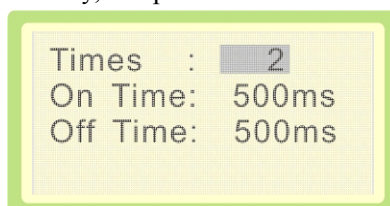
If no button operation within 30 seconds, screen automatically switches to the main menu.

5.4.5 Alarm Set

Double-click the "menu" key to enter the following page in the main interface



If the cursor indicates the "alarm set" key, and press the "ok" to set the parameters

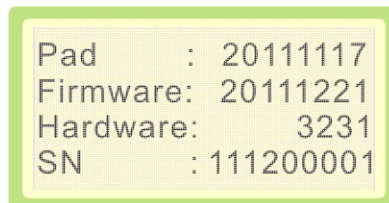


5.4.6 Backlight Settings



5.4.7 Version

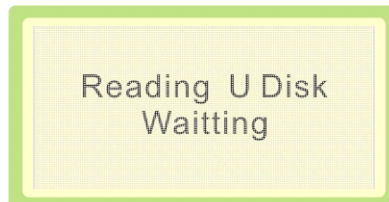
If the cursor indicates the “version”, press the “ok” to check the version information, as shown below



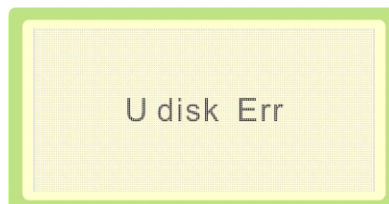
5.5 U Disk

When U-disk is pulled out, the interface comes into the standby mode.

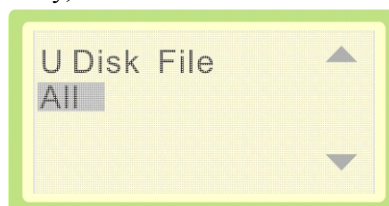
Only the main is in the standby mode, interface displays the following when a U-disk is inserted



If the test fails, as shown below

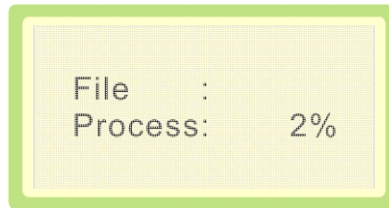


If the U-disk is distinguished normally, the file download screen is displayed, as shown below



The system detects the storage space before downloading, if it isn't enough, buzzer alarms

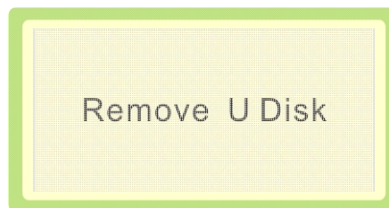
It starts to download processing file, when the file has been selected, as shown below



When the file download completed, the interface returns to file list.

The downloaded file is no longer displayed.

If you press the “ESC” key, the system prompts to unplug the U-disk, returning to main interface (displaying in the interface middle)

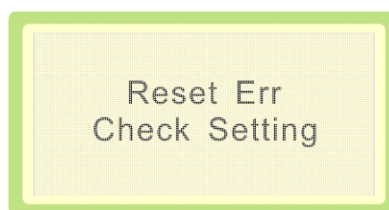


5.6 Error Alarm Interface

In order to facilitate customers timely informed the error state of the machine and quickly resolve the various issues that arise due to improper operation, all the alarm information is displayed in the error alarm interface. Alarm message and motherboard internal indicator are consistent.

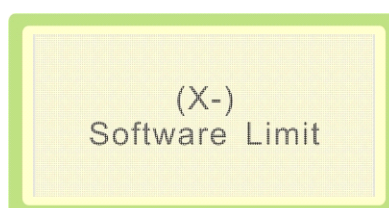
5.6.1 Reset Err

If reset sensors or system installation is abnormal, and it doesn't detect the origin in the reset process, as shown below



Press the “ESC” key to enter the processing interface.

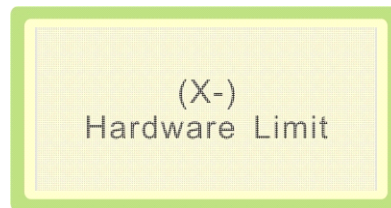
5.6.2 Software Limit Stop



The system found that the range of graphics processing beyond the scope of the workbench.
Solution: move the position of the laser head and make sure the graphic is located within the workbench.

When this occurs, press the “ESC” to return to standby interface.

5.6.3 Hardware Limit



Solution: move the position of the laser head and make sure the graphic is located within the workbench.

If this appears, the system stop running and alarm; press the “ESC” to return to standby interface.

5.6.4 Not Enough Memory



The causes of the problem:

The number of files downloaded more than the number of total memory storage.

The downloaded file is too large to exceed the total amount of storage memory.

Solution:

Ensure that the downloaded file should not exceed the total amount of storage memory.

Remove the extra processing file and release the space.

Press the “ESC” key to return to U disk file list.

5.6.5 Maturity



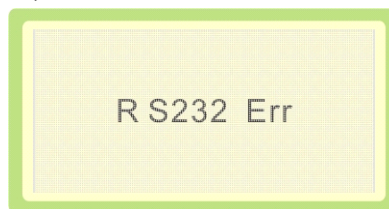
Key is invalid.

5.6.6 About to Expire



5.6.7 Communication Failure

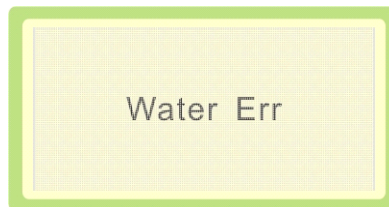
Host and controller connection fails, as shown below



Key is invalid.

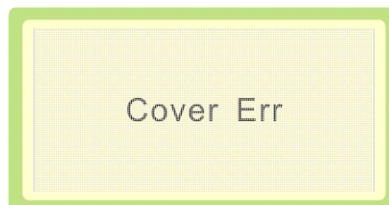
Solution: detection of serial connection is working.

5.6.8 Water Err



Solution: detection of Water Err input is valid.

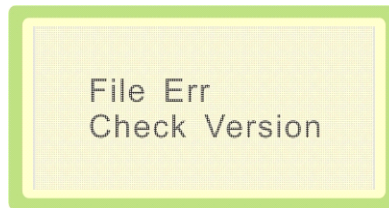
5.6.9 Cover Err



The cause of the problem: cover is closed in working, and protection is active. When the cover is open, the protection is ineffective and processing in a suspended state, buzzer alarms.

Automatically return to the previous processing after the fault is cleared.

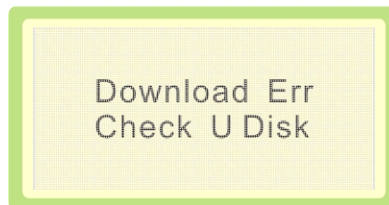
5.6.10 File Err



Press the “ESC” to enter standby mode.

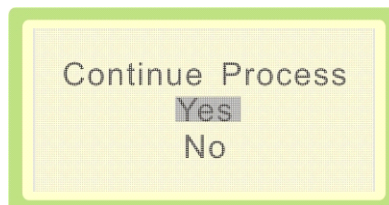
5.6.11 Download Err

File Download Err, as shown below



Press the “ESC” to enter standby mode.

5.6.12 Continue Process



Press the “↑”, or “↓” to move the cursor.

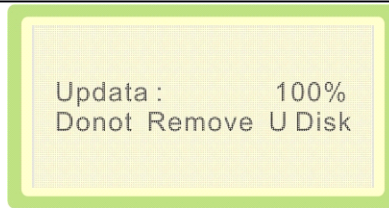
Press the “ok” to make a choice.

Don’t return to the origin, and process immediately.

5.7 Update

The Update process as follows: Run the laser.exe ,and then load the firmware file(.lxf).

The system will automatically detect whether the U disk Update at boot time.



Enter the Update interface, and then automatically restart after the upgrade is completed.

5.7.1 Update Finish



The Update process as follows: Run the laser.exe ,and then load the firmware file(.lxf).

The system will automatically detect whether the U disk Update at boot time.

Key is invalid before you pull out of the U disk, and the system is to automatically restart when the U disk is extracted.