VISUALINSPECTION UNIT

# VIU2

# Operating Instructions



Please read this manual thoroughly before using, and be sure to use the machine properly.

# Foreword

Thank you for purchasing the Fuji Impulse Visual Inspection Unit – Viu2.

This manual includes the functions, operating method, and information necessary for the proper and safe operation of the Viu2. Read the guide thoroughly before handling the machine. Always keep this manual on hand when operating the machine so you can refer to it if necessary.

## 1. Operating Precautions

Please follow the following directions in order to avoid the damage to the machine.

- Do NOT operate machine in the following places since there is a danger of malfunction:
    1. Locations
    2. Dusty locations
    3. Locations with high humidity
    4. Locations where the strong shock to the machine may occure.
- Do not use the machine other than visual inspection of the film/pouch.
- The operating temperature range for this machine is from 5 to 40℃/ 41 to 104F.
- Do not dismantle or modify the machine.

# Table of Contents

## 2. Specification

- LED:                             White LED 3pcs.
- Lens:                            3 times magnification
- Data output:                     From the USB port
- Operating temperature range:     +5 - 40℃/ 41 to 104F
- Operating humidity range:        30 – 80%RH
- Power:                            AC100-240V   50Hz/60Hz   DC24V AC Adaptor
- Power consumption:               1W
- Machine dimension:               W250 x D195 x H95 mm
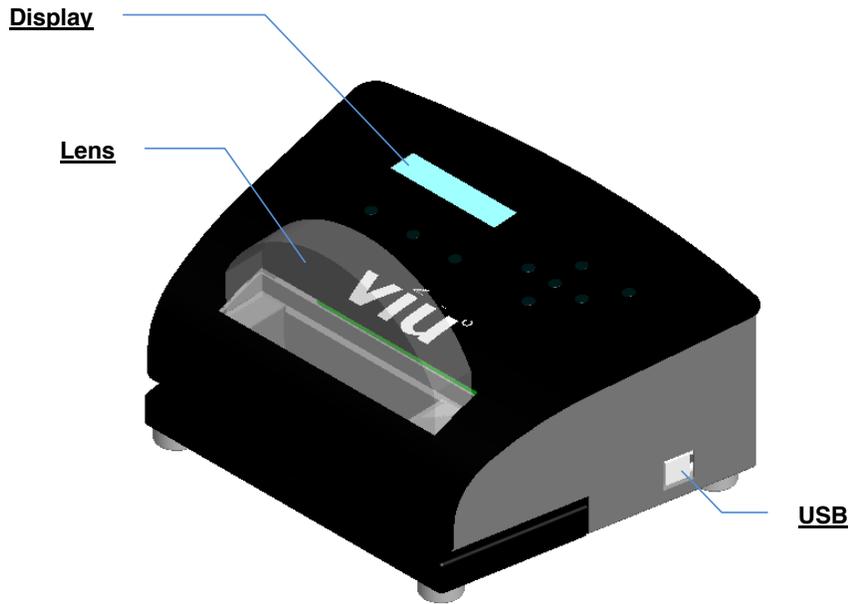- Machine weight:                  About 2.5kg

# 3. For Safety Operation

Please note to the following warnings on the machine operation to use the machine properly. It is the customer's sole responsibility on the malfunction caused by ignoring the following instructions.
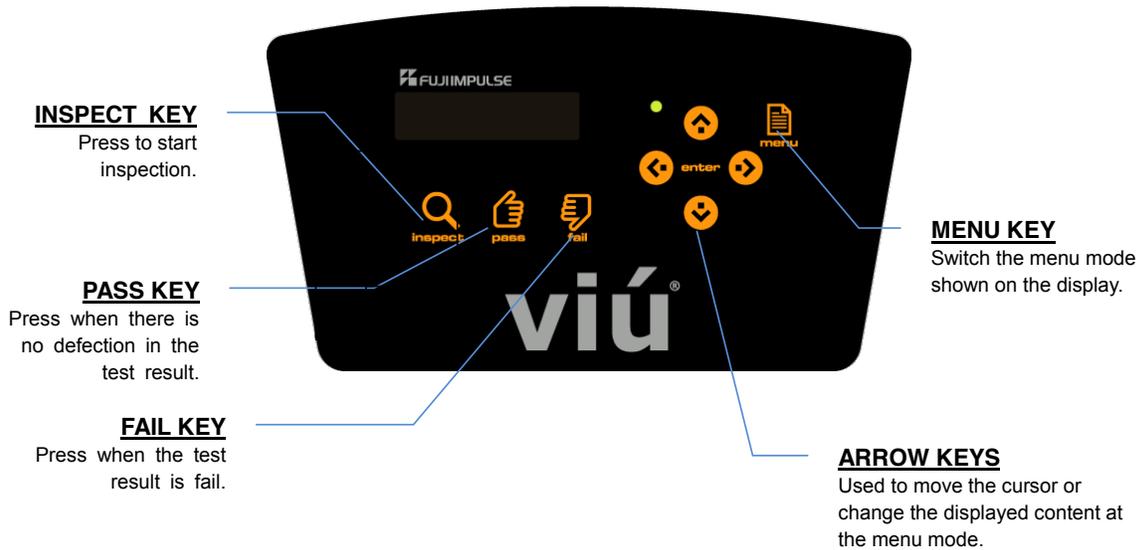
## Warning

· **Power source**

Before turning on the main power, make sure the electrical outlet has adequate current carrying capacity as described at "2. Specification."

· **Do not splash water on the machine**

Do not splash water on the machine since the machine is not waterproof.

· **Do not modify the machine**

Modification of the machine or the use of unspecified parts may not only lead to damage of the machine, but there is also a risk of danger to the operator. Please so not tamper with the machine. Accidents or damage caused by modification by the customer is the sole responsibility of the customer.

· **Do not remove the case**

Do not remove the case except for the specified service person by Fuji Impulse.

# 4. Major Parts and Function

**Display**

**Lens**

**USB**

＜**Operation Panel**＞

**INSPECT KEY**
Press to start
inspection.

**PASS KEY**
Press when there is
no defection in the
test result.

**FAIL KEY**
Press when the test
result is fail.

**MENU KEY**
Switch the menu mode
shown on the display.

**ARROW KEYS**
Used to move the cursor or
change the displayed content at
the menu mode.

## 5. Accessories

Please make sure that all of the accessories described below are included.
If not, please contact your local dealer.

- ・ AC Adapter                1
- ・ Lens                       1
- ・ Operating Instructions (This manual)    1

# 6. Machine Installation
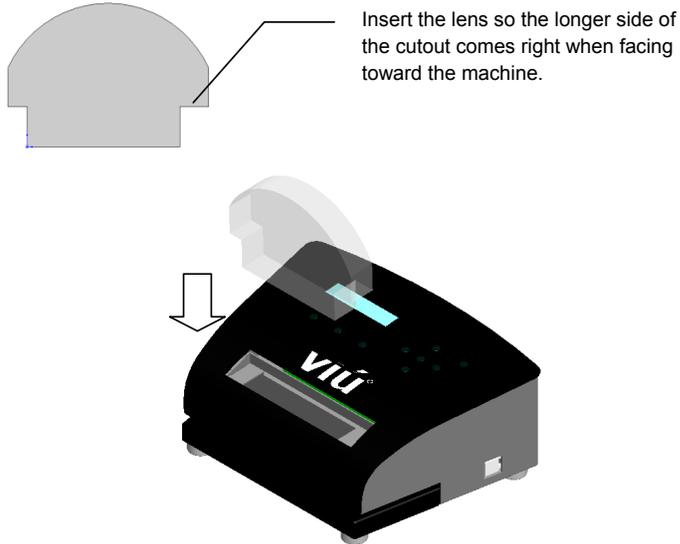
Please use the machine in the following work environment.

- Sounding temperature and humidity
  - Temperature： 5～40℃
  - Humidity： 20～80%RH (The machine shall be used in a condition causing no dew condensation.)

- Place the machine on a flat place
  Place the machine on a flat, horizontal working table front and back as well as the right to left.

- Do not set the machine in the following places:
  - Where the machine is exposed to the direct rays of the sun or the heat source.
  - Where the machine is exposed to continuous vibration caused by machines.
  - Close to the noise generator such as high voltage products and power source.
  - Exposed to the strong electromagnetic pluses.
  - With rapid temperature change, high humidity, the dust and surrounded by the corrosiveness gas.
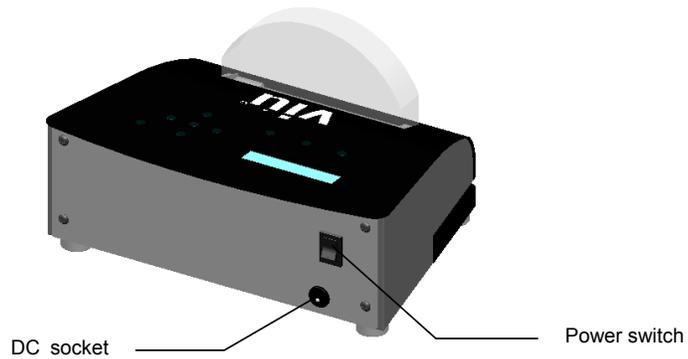  - Where it is unstable.

# 7. Preparation

### 7-1 Setting the lens

Insert the lens so the longer side of the cutout comes right when facing toward the machine.

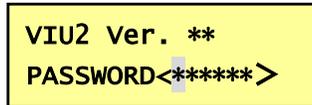### 7-2 Connect to the Power Source

1. Make sure that the machine power switch if in OFF position.
2. Connect the AC adapter – DC24V, 1A or greater – to the socket on the rear side of the machine.

DC socket

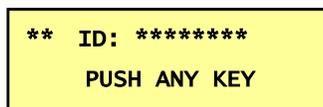Power switch

## 7-3 Turn ON the Power Switch

Turn ON the power switch to " | " position. The display will show the model name –VIU2 and the version such as "V0.01," and then switch to the date and time few seconds later.

When the Administrator and Operator IDs are registered and activated, the display will show the password imputing display before showing the stand-by display. Input the Administrator or Operator password of the person who is going to use the machine.

```
VIU2 Ver. **
PASSWORD<******>
```

■ How to input the password

1. Press the right/left arrow keys to place the cursor on the position you desire to change.

2. You can input the numeric value by pressing the up/down arrow keys.

3. **enter** Press the ENTER key after inputting the 6-digit pass word. If the password matches to the one registered, the ADMINIST or OPERATOR ID that corresponds to the password will be displayed.
(For the detailed setting, please refer to "8 How to Set the Control Unit".)

```
**  ID: ********
     PUSH ANY KEY
```

4. In order to display the stand-by screen, press any key.

TIPS: When the inputted password is wrong, the buzzer sounds and the display returns to the initial display.

# 8  How to Set the Control Unit

## 8-1 Registering/Setting the Administrator/ Operator IDs

Viu2 can register Administrator ID and Operator IDs.
Inspection can be performed without registering the Administrator/Operator IDs. In that case, however, please note that the machine setting can be changed by anyone. The operator name will be outputted as "NONE" to the PC.

■ When only the Administrator ID is registered

When only the Administrator ID is registered, the machine setting can be changed only by the Administrator. The output Administrator ID name to the PC is fixed to "ADMINIST."

■ When both of the Administrator and Operator IDs are registered

When both of the Administrator and Operator IDs are registered, the machine settings can be changed only when the Administrator is logged in. Operators can perform the inspection only. When the error message is shown on the display, only the Administrator can solve the problem by inputting the Administrator password.
The output operator ID name to the PC will be the one activated during the operation.

■ When only the Operator ID is registered with the Administrator ID deactivated

When only the Operator ID is registered with the Administrator ID deactivated, each setting can be changed by those who know the operator password. The output operator ID name to the PC will be the one activated during the operation.

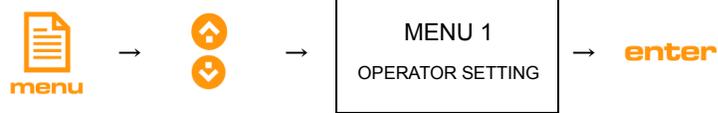\*One Administrator ID and 10 Operator IDs can be registered.
\*The Administrator ID name is fixed to "ADMINIST."
\*Operator ID name
  The name may be registered using a total of 8 uppercase letters, numbers, space,
  "\*(asterisk)", ",(comma)" ".(period)," and/or "/(slash)."

**8-2 MENU1/ Setting the Administrator ID**

📄 → ◆◆ → MENU 1 → **enter**
menu          OPERATOR SETTING

Press the MENU and up/down arrow keys so the MENU1 indicated above is shown on the display. Press the ENTER key. The display will show following.

```
00:0 <ADMINIST>
     <000000>
```

■ Activate/ deactivate the Administrator ID

1. ➡ Press the right arrow key to place the cursor on the position indicated below so that it flushed.

```
00:0 <ADMINIST>
     <000000>
```

2. ◆◆ Input "1" using the up/down arrow keys.

```
00:1 <ADMINIST>
     <000000>
```

3. **enter** Press the ENTER key.
The setting is activated, and you can now use an inspection utilizes an Administrator password. Note that inputting "0" will deactivate the setting. The default password is "000000."

4. **enter** Press the ENTER key when not changing the password from displayed number "000000." The pass word is confirmed to "000000."

5. To change the password, please position the cursor on the position you desire to change.

```
00:1 <ADMINIST>
     <000000>
```

■ Set the Administrator password

1. To change the password, press right key to place the cursor on the position indicated below so that it flashes.

```
00:1 <ADMINIST>
     <000000>
```

2. Only the numerical values can be used for password.

```
00:1 <ADMINIST>
     <000000>
```

3. Set the six-digit password using the arrow keys. Using the right/left arrow keys, place the cursor on the position you desire to change.

You can input the numeric value by pressing the up/down arrow keys.

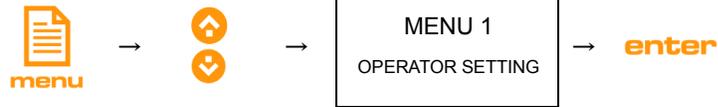4. **enter** Press the ENTER key when you have completed the input. The setting is complete.

> ! IMPORTANT !
> **When registering the Administrator password, be sure to note it and keep it in a safe place.**
> **If you forget your password, you may not be able to operate the machine. Van der Stahl cannot recognize or manage passwords that customers have set.**

**8-3 MENU1/ Setting an Operator ID**

Operation Procedure



Press the MENU and up/down arrow keys so the MENU1 indicated above is shown on the display. Press the ENTER key. The display will show following.

```
00:0 <ADMINIST>
      <000000>
```

1.  Press the up arrow key to place the cursor on the position indicated below so that it flashes.

```
01:0 <OPERAT01>
      <000001>
```

2.  You may register up to 10 Operator IDs.
    Use the up/down arrow keys to show 1 through 10 on the display.

```
01:0 <OPERAT01>
      <000001>
```

.
.
.

```
10:0 <OPERAT10>
      <000010>
```

■ Activate/ deactivate the Operator ID

Use the up/down arrow key to select among operator IDs 1 through 10 so that the desired number shows on the display.

1. Press the right arrow key to place the cursor on the position indicated below so that it flashes.

```
01:0 <OPERAT01>
       <000001>
```

2. Input "1" using the up/down arrow keys.

```
01:1 <OPERAT01>
       <000001>
```

3. enter Press the ENTER key.
The setting is activated, and you can now use an inspection utilizes an Administrator password. Note that inputting "0" will deactivate the setting. The default password is "000000."

4. enter Press the ENTER key when not changing the password from displayed "000001." The pass word is confirmed to "000001."

TIPS    The above example is for registering Operator ID #1. The process is the same for operator IDs 2 through 10.

To change the password and operator ID name, please position the cursor on the position you desire to change.

■ Setting the Operator ID Name

1. **▸** Press the right arrow key to place the cursor on the position indicated below so that it flashes.
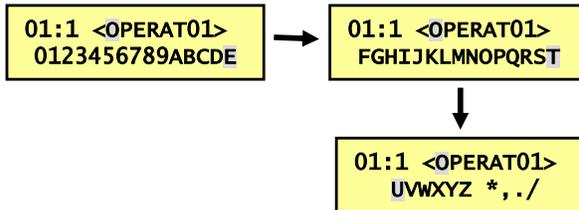
```
01:1 <OPERAT01>
      <000001>
```

The name may be registered using a total of 8 uppercase letters, numbers, space, "*(asterisk)", ",(comma)" ".(period)," and/or "/(slash)."

2. **◂▸** Press the right/left arrow key to move the cursor to the position you desire to change.

3. **enter** Press the ENTER key to start the editing mode. The display will show the following. Select a letter to input from the bottom line.

```
01:1 <OPERAT01>
  0123456789ABCDE
```

4. **▸▾** Press the right arrow key so the cursor in the bottom line is positioned on the last letter. When the cursor is in the last letter, press the down key to switch the display in the following order.

```
01:1 <OPERAT01>      →    01:1 <OPERAT01>
 0123456789ABCDE            FGHIJKLMNOPQRST
```

```
                          01:1 <OPERAT01>
                           UVWXYZ *,./
```

**enter** Place the cursor on the letter you desire to input, and press the ENTER button to confirm. In the below example, the letter "O" will be changed to "V" by pressing the ENTER.

```
01:1 <OPERAT01>      →    01:1 <VPERAT01>
 GHIJKLMNOPQRSTUV          GHIJKLMNOPQRSTUV
```

The cursor will move to the next letter. Press the ENTER button to continue the setting. Please repeat this operation until you finish inputting the 8-digit ID name.

5. Press the MENU key when you have completed the input.
The setting is complete.

■ Setting the Operator password

1. Press the right arrow key to place the cursor on the position indicated below so that it flushed.

```
01:1 <OPERAT01>
      <000001>
```

2. Only the numbers can be used for the 6-digit password.

3. Using the right/left arrow keys, place the cursor on the position desire to change.

You can input the numeric value by pressing the up/down arrow keys.

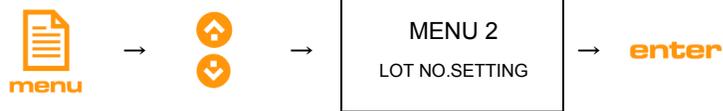4. enter  Press the ENTER key when you have completed the input.
The setting is complete.

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**! IMPORTANT !**

**When registering the Administrator password, be sure to note it and keep it in a safe place.**
**If you forget your password, you may not be able to operate the machine. Van der Stahl cannot recognize or manage passwords that customers have set.**

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**8-4 MENU2/ Setting the Lot#**

Operation Procedure

📄 menu　→　🔼🔽　→　┌─────────────────┐
　　　　　　　　　　　　　│　　MENU 2　　　　　│　→　enter
　　　　　　　　　　　　　│　LOT NO.SETTING　　│
　　　　　　　　　　　　　└─────────────────┘

Press the MENU and up/down arrow keys so the MENU2 indicated below is shown on the display. You can input the 10-digit lot number with the MENU 2.

```
MENU 2
LOT NO.SETTING
```

1. **enter**  Press the ENTER key. The display will show the following.

```
0000000000
```
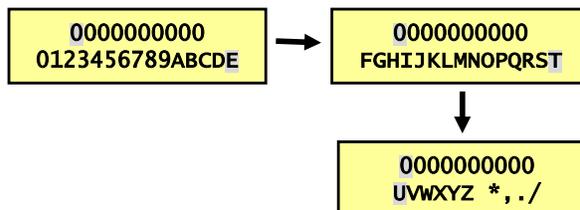
2. ◀▶  Press the right/left arrow key to move the cursor to the position you desire to change.

3. **enter**  Press the ENTER key to start the editing mode. The display will show the following.

```
0000000000
0123456789ABCDEF
```

4. ▶🔽  Press the right arrow key so the cursor in the bottom line is positioned on the last letter. When the cursor is in the last letter, press the down key to switch the display in the following order.

```
0000000000          0000000000
0123456789ABCDE  →  FGHIJKLMNOPQRST
```
↓
```
0000000000
UVWXYZ *,./
```

**enter**    Place the cursor on the letter you desire to input, and press the ENTER button. In the below example, the letter "O" will be changed to "V" by pressing the ENTER.

The cursor will move to the next letter. Press the ENTER button to continue the setting. Please repeat this operation until you finish inputting the Lot#.

V000000000
GHIJKLMNOPQRSTUV

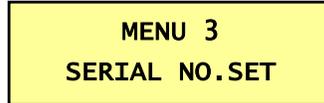5.    **menu**    Press the MENU key when you have completed the input. The setting is complete.

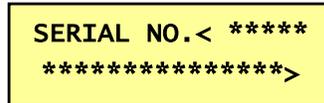**8-5 MENU3/ Setting the Serial Number#**

Operation Procedure



Press the MENU and up/down arrow keys so the MENU3 indicated below is shown on the display. You can input the 20-digit Serial Number of the sealing machine with the MENU 3.
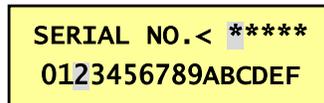
```
MENU 3
SERIAL NO.SET
```

1. **enter**    Press the ENTER key. The display will show the following.

```
SERIAL NO.< *****
****************>
```
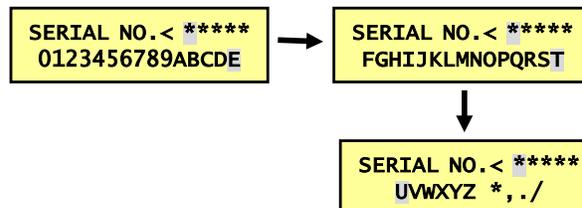
2.  Press the right/left arrow key to move the cursor to the position you desire to change.

3. **enter** Press the ENTER key to start the editing mode. The display will show the following.

```
SERIAL NO.< *****
 0123456789ABCDEF
```

4.  Press the right arrow key so the cursor in the bottom line is positioned on the last letter. When the cursor is in the last letter, press the down key to switch the display in the following order.

```
SERIAL NO.< *****      SERIAL NO.< *****
 0123456789ABCDE        FGHIJKLMNOPQRST
```
→
```
SERIAL NO.< *****
   UVWXYZ *,./
```

**enter** Place the cursor on the letter you desire to input, and press the ENTER button. In the below example, the letter "O" will be changed to "V" by pressing the ENTER.
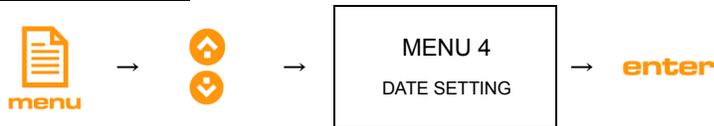
The cursor will move to the next letter. Press the ENTER button to continue the setting. Please repeat this operation until you finish inputting the Serial Number.

```
SERIAL NO.< V****
 GHIJKLMNOPQRSTUV
```

6. **menu** Press the MENU key when you have completed the input. The setting is complete.

**8-6 MENU4/ Setting the Date**

Operation Procedure

**menu** → ⬆⬇ → 
```
MENU 4
DATE SETTING
```
→ **enter**

1. Press the MENU and up/down arrow keys so the MENU4 indicated below is shown on the display.

```
MENU 4
DATE SETTING
```

2. **enter** Press the ENTER key. The display will show the following.

```
DATE
08.11.10
```

3. ⬅➡ Press the right/left arrow keys to move the cursor. Place the cursor on the top of the number that you would like to change, and input the number in the order of "MM.DD.YY."
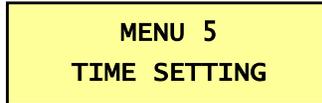
4. **enter** Press the ENTER key when you have completed the input. The setting is complete.
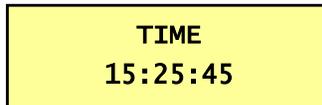
**8-7 MENU5/ Setting the Time**

1. Press the MENU and up/down arrow keys so the MENU5 indicated below is shown on the display.

```
MENU 5
TIME SETTING
```

2. **enter** Press the ENTER key. The display will show the following.
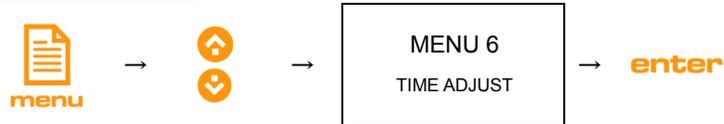
```
TIME
15:25:45
```

3. Press the right/left arrow keys to move the cursor. Place the cursor on the top of the number that you would like to change, and input the number in the order of "HH:MM:SS."

4. **enter** Press the ENTER key when you have completed the input. The setting is complete.

**8-8 MENU6/ Time Adjust**

In order to adjust the time more precisely, the second will be set in the following procedure.

Operation Procedure

menu → [⌃⌄] → 

| MENU 6 |
|:---:|
| TIME ADJUST |

→ enter

1. Press the MENU and up/down arrow keys so the MENU6 indicated below is shown on the display.

```
MENU 6
TIME ADJUST
```

2. enter  Press the ENTER key. The display will show the following.

```
ADJUST
15:26:10
```

3. HOW TO SET:

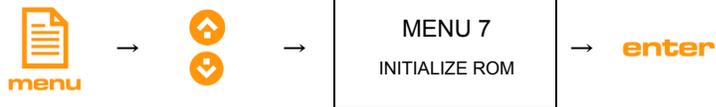enter  Press the ENTER key when the second is at 00 to 29 to round off the second.

Press the ENTER key when the second is at 30 to 59 to round up the second.

**8-9 MENU7/ Initialize Ram**

This machine stores data in the inside memory.
Please use this mode when you would like to delete all the stored data to avoid one test data mixing up with the other data, etc.
As all the data will be completely deleted, please confirm that all the data is transferred to the PC using the managing software before performing this operation.

TIPS     When the on-board memory become full, the oldest memory will

be overwritten. It is not required to delete the on board memory

unless you need to.

Operation Procedure



1. Press the MENU and up/down arrow keys so the MENU7 indicated below is shown on the display.

```
MENU 7
INITIALIZE ROM
```

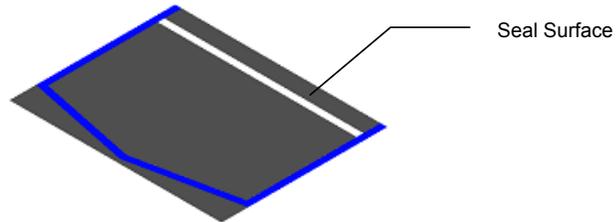2. **enter**   Press the ENTER key. The display will show the following.

```
INITIALIZE ROM
PUSH < & > KEY
```

3. ◄► Press the right/left arrow keys at the same time in order to

initialize the data. After completing the operation, the

display returns to the NEMU mode.

# 9  How to Operate the Machine

## 9-1 Preparation

Please prepare for one sealed sample bag/film.
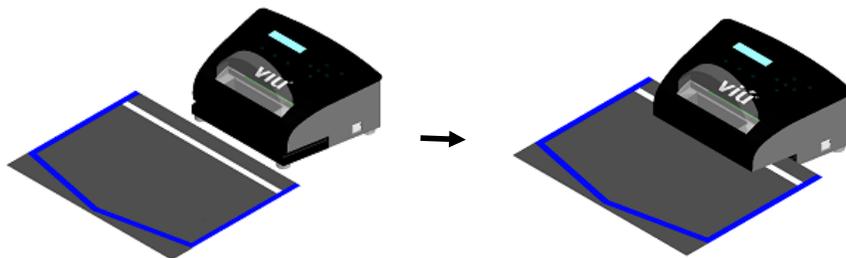Inspect the sealing area with the Viu2.



Seal Surface

Inspect the seal surface with the Viu2

## 9-2 How to perform the Inspection

1.  Press the INSPECT key. The display will show the following. LED lamps turn ON.

```
VIU INSPECTION
   INSERT FILM
```

2. Insert the sample bag/film into the groove of the Viu2 located under the lens as in the below illustration.

3. Inspect the seal through the lens.

```
    PUSH KEY
  PASS or FAIL
```

4. Press the PASS key when there is no defection in the sealing. Now the inspection is complete.

   Press the FAIL key when the sealing is bad. The below display will be shown.

```
   ERROR No,✷
  PUSH ENTER KEY
```

5. Only when choosing FAIL, press the corresponding number of the failure out of 9 possible seal failure causations. For the detail, please refer to the attached card.

6. Press the ENTER key after selecting the number. When both of the Administrator and Operator IDs are registered, the following display will be shown requesting the Administrator password.

```
  00 ID:ADMINIST
  PASSWORD<✷✷✷✷✷✷>
```

# 10  How to Connect to the PC

This machine can display/manage the inspection result using the special application software by connecting the machine and PC with the USB cable.

※For the detailed installation and operation methods, please refer to the manual for the application soft.

# 11  Trouble Shooting –Error Message and Solution

| DISPLAY | PROBLEM | SOLUTIONS |
|---|---|---|
| ERROR 1 | The FAIL button is pressed during the inspection. | By pressing the ENTER key, the error message will be canceled. When both of the Administer ID and Operator ID are registered, you will need the Administer password to cancel the error. |
| BATTERY ERROR | Abnormality in the back up battery. | This is displayed when the voltage of back-up battery decreases. Please contact your local dealer as the battery replacement is required. |
| TIMER ERROR | Abnormality in the inside clock | Set the date and time again. This error can be displayed when there is a rapid change in the power voltage. |
| WDT ERROR ERROR 99 | System Error | Restart the machine by turning ON and OFF the power switch. When the error message appears again, please contact your local dealer. |

JUN 2010 1<sup>st</sup> Edition

Viu2 Operating Instruction 1.01E