# Phlebotomy Tube Preparation System HENd





This labeler is ready for use with TPC OHCIS at the Blood Taking section (direct swap with ordinary label printer)

## HENd

HENd is a small labeler that automatically attaches the sample information printed label to the tube and provides the patient information printed label. The software's user interface makes blood collection tasks more convenient, such as calling patients, verifying patients, checking sample information, and checking statistics. Automated barcode labeling | Prevention of human errors due to manual operation | Efficient blood collection process

## No need to put it in order!

There is no need to sort the tube in advance, just insert the tube and HENd will automatically recognize it and label the tube with the appropriate sample information and patient information label. \* Up to 5 tubes can be placed on the inlet.

- Convenient tube insertion  $\mathbf{\overline{}}$
- Automatic tube detection
- ☑ Various tubes compatible
- $\checkmark$ Small labeler
- $\overline{}$ Fast tube ejection speed

Attachable, removable tray provided



Prevent medical accidents





Improve operation efficiency



Automatic

labeling after tube

insertion

**HENd Components** 







1 Tube Inlet This is the tube inlet to put the tube to be labeled.

2 LCD Display



4 Tube outlet There are two types of trays for tube outlet : attached/removable.



5 Barcode scanner

You can check and verify the quantity of samples and labels by recognizing barcodes on sample tubes, receipts, and patient identification labels.



X E6 Barcode scar is not successful



Displays the equipment power status, operation status, and alarm/error status.

## 3 Label printer

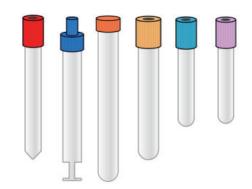
Prints the sample label to be attached to the tube, blood collection information, and a label required for patient identification.



## 6 ELP outlet

This is the outlet through which the label printed with patient information is discharged.

M/20 M/20





Diameter 13~18mm and length 82~128mm support various tubes mainly used in blood collection rooms.

- Tube type recognition (length, diameter, cap color)
- Provides notification function in case of tube cap color mismatch
- Automatically label to fit the tube type

## Double check with two built-in scanners

The internal scanner scans the fed tube to ensure that the correct label is attached, and the separately ejected label is scanned into the external scanner to check the patient and sample information required for blood collection.

- Tube thickness/length/cap color recognition
- Prevention of incorrect label application with label placement detection system
- Inquiry and reprinting of tube, label and patient information

## Easy & Convenient Software Program

Dedicated HENd software program can be linked with the LIS to perform tasks such as receiving blood collection, calling, patient management, and statistics management.

- Provides automatic patient call and automatic blood collection function
- Provide statistics according to blood collection room operation
- Provides patient verification function



- Test Items Blood Volume By Period

-Tube usage per Inlet

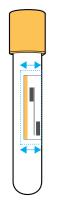


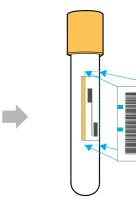
- Number of Patients by Phlebotomist

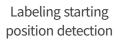


## Label attachment position detection system

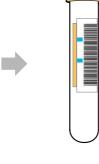
Label attachment position detection system is function that detects the position of the original label before labeling, the clear window is ensured, allowing phlebotomists to check the volume of collected blood samples.













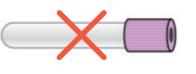


## Tube cap color detection system

The tube cap color detection system detects the unique color of the tube cap, checks whether the tube with the color preset by the user is properly inserted, and sounds an alarm when there is a discrepancy. If the phlebotomist inserts another tube, HENd can detect it and prevent mistakes in advance.



Correct tube feeding





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  | Jahang Yank         IP Printing complete         EXX 157 1         1252/212 1         Neural modion           1001         IP Printing complete         EXX 157 1         1252/213 1         Neural modion           1452/2545         IP Printing complete         EXX 157 1         1252/214 1         Neural modion           1452/2545         IP Printing complete         EXX 157 1         1252/214 1         Neural modion           22         IP Printing complete         EXX 157 1         1252/214 1         Neural modion           M         IP Printing complete         EXX 157 1         1252/214 1         Neural modion           Imm         IP Printing complete         EXX 157 1         1252/214 1         Neural modion           Imm         IP Printing complete         IP Printing complete         EXX 157 1         1252/214 1         Neural modion           Imm         IP Printing complete         IP IP IP Printing complete         IP I  | Jahang Yank         Diffuency complete         CDTA TEST 1         1252/254 2         Henaim modice           1001         Diffuency complete         CDTA TEST 1         1252/254 2         Henaim modice           1452/2542         Diffuency complete         CDTA TEST 1         1252/254 1         Henaim modice           1452/2542         Diffuency complete         CDTA TEST 1         1252/254 1         Henaim modice           22         Diffuency complete         CDTA TEST 2         1252/254 1         Henaim modice           23         Diffuency complete         CDTA TEST 3         1252/254 1         Henaim modice           24         Diffuency complete         CDTA TEST 3         1252/254 1         Henaim modice           M         Diffuency complete         EDTA TEST 1         1252/254 1         Henaim modice           1mm         Diffuency complete         IMM         EDTA TEST 1         1252/254 1         Henaim modice           1mm         Diffuency complete         IMM         EDTA TEST 1         1252/254 1         Henaim modice           1mm         Diffuency complete         IMM         EDTA TEST 12         1252/254 1         Henaim modice           1mm         Diffuency complete         IMM         EDTA TEST 12         1252/254 1         Hen                               
   | Guiden 24/2         Complete         CDXATEST 1         1252412         1 isourinadora           C001         CDXATEST 4         1252412         1 isourinadora           C02         CDXATEST 4         1252412         1 isourinadora           C2         CDXATEST 4         1252412         1 isourinadora           C2         CDXATEST 4         1252414         1 isourinadora           C2         CDXATEST 5         12524784         1 isourinadora           C2         CDXATEST 4         12524784         1 isourinadora           C2         CDXATEST 5         12524784         1 isourinadora           C2         CDXATEST 4         12524784         1 isourinadora           C2         Printing complete         IIII         CDXATEST 1         12524784           C2         CDXATEST 6         1 isourinadora         1 Printing complete         IIIII           C2         Printing complete         IIIII         CDXATEST 7         1 12524784         Isourinadora           C   | ed Name Tube  | Tube Specimen City, etc.           |
| 001         Printing complete         EUVATEST 4         13259453         1 Hend medice           4252245         IPrinting complete         EUVATEST 2         13259451         1 Hend medice           4252245         IPrinting complete         EUVATEST 2         13259451         1 Hend medice           IPrinting complete         EUVATEST 5         13259451         1 Hend medice           IPrinting complete         EUVATEST 5         13259451         1 Hend medice           IPrinting complete         IPrinting complete         EUVATEST 5         13259451         1 Hend medice           IPrinting complete         IPPI         EUVATEST 7         13259451         1 Hend medice           IPrinting complete         IPPI         EUVATEST 7         13259451         1 Hend medice           IPPI         IPPI         IPPI         EUVATEST 7         13259451         1 Hend medice           IPPI         IPPI         IPPI         EUVATEST 7         13259451         1 Hend medice           IPPI         IPPI         IPPI         IPPI         IPPI         IPPI         IPPI   | 001         Printing complete         ED/h1151 4         12559/10 1         Heart medice           4252245         IP Printing complete         ED/h1151 2         12559/10 1         Heart medice           4252245         IP Printing complete         ED/h1151 2         12559/10 1         Heart medice           4252246         IP Printing complete         ED/h1151 3         12559/10 1         Heart medice           Imm         IP Printing complete         IIIII         ED/h1151 1         12559/14 1         Heart medice           Imm         IP Printing complete         IIIIII         ED/h1151 1         12559/14 1         Heart medice           Imm         IP Printing complete         IIIIII         ED/h1151 1         12559/14 1         Heart medice           Imm         IP Printing complete         IIIIII         ED/h1151 1         12559/14 1         Heart medice           Imm         IP Printing complete         IIIIII         ED/h1151 1         12559/14 1         Heart medice           Imm         IP Printing complete         IIIIII         ED/h1151 1         12559/14 1         Heart medice           Imm         IP Printing complete         IIIIIII         ED/h1151 1         12559/14 1         Heart medice           Imm         IP Printing complete<   
   
   | 001         Printing complete         EDVin1EST 4         12259/13 1         Henalmadox           4252245         IP Printing complete         EDVin1EST 2         12259/14 1         Henalmadox           4252245         IP Printing complete         EDVin1EST 2         12259/14 1         Henalmadox           4252245         IP Printing complete         EDVin1EST 2         12259/14 1         Henalmadox           IP Printing complete         EDVin1EST 1         12259/14 1         Henalmadox           IP Printing complete         IIII         EDVin1EST 1         12259/14 1         Henalmadox           IP Printing complete         IIIII         EDVin1EST 1         12259/14 1         Henalmadox           IP Printing complete         IIIII         EDVin1EST 1         12259/14 1         Henalmadox           IP Printing complete         IIIIII         EDVin1EST 1         12259/14 1         Henalmadox           IP Printing complete         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII   
   | 001         Printing complete         EUN/1551 4         13259/13 1         Hendlinedox           4252245         IPrinting complete         EUN/1551 2         13259/14 1         Hendlinedox           4252245         IPrinting complete         EUN/1551 2         13259/14 1         Hendlinedox           4252246         IPrinting complete         EUN/1551 2         13259/14 1         Hendlinedox           IPrinting complete         EUN/1551 5         13259/14 1         Hendlinedox           IPrinting complete         IIII         EUN/1551 5         13259/14 1         Hendlinedox           IPrinting complete         IIIIIII         EUN/1551 5         13259/14 1         Hendlinedox           IPrinting complete         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | 001         Printing complete         EUN/1551 4         13259/13 1         Hendlinedox           4252245         IPrinting complete         EUN/1551 2         13259/14 1         Hendlinedox           4252245         IPrinting complete         EUN/1551 2         13259/14 1         Hendlinedox           4252246         IPrinting complete         EUN/1551 2         13259/14 1         Hendlinedox           IPrinting complete         EUN/1551 5         13259/14 1         Hendlinedox           IPrinting complete         IIII         EUN/1551 5         13259/14 1         Hendlinedox           IPrinting complete         IIIIIII         EUN/1551 5         13259/14 1         Hendlinedox           IPrinting complete         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  
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| Lo Printing complete     LOA 1151 2     Log Printing complete     LOA 1151 2     Log Printing complete     LOA 1151 5     Log Printing complete     LOA 1151 5     Log Printing complete     LOA 1151 1     Log Printing complete     LOA 1151 1     Log Printing complete     LOA 1151 1     Log Printing complete     Log Printing   | LO Printing complete     LD/11531 2 1200704 1 Heat machine     LD/11537 3 1250704 1 Heat machine     LD/11537 3 1250704 1 Heat machine     LD/11537 3 1250704 1 Heat machine     LD/11537 5 1220704 1 Heat machine     LD/11537 5 1220704 1 Heat machine     LD/11537 1 1250704 1 Heat machine     LD/11537 1 1 1250704 1 Heat machine     LD/11537 1 1 1 1 1 1 1 1 1 1 1 1   | LO Printing complete     LON 1531 2     T200161 1     Heat madow      B     Printing complete     Difference     Differen   | LO Printing complete     LOATIST 2 T200764 1 Maximmodow     Printing complete     Different Complete     Diff   | LO Printing complete     LOATIST 2 T200764 1 Maximmodow     Printing complete     Different Complete     Diff   | LO Printing complete     LOATIST 2 T200764 1 Maximmodow     Printing complete     Different Complete     Diff  | LO Printing complete     LON 1531 2     T200161 1     Heat madow      B     Printing complete     Difference     Differen   | LO Printing complete     LOATIST 2 T200764 1 Maximmodow     Printing complete     Different Complete     Diff | 1252245   | F 4 132559183 1 Internal medicine  |
| 2         P         Pelaning complete         ED/A 1517         1 1202014         1 Henul medical           6         ED         Pelaning complete         ED         ED/A 1517         1 1202014         1 Henul medical           8         ED         Pelaning complete         ED         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1517         1 1202014         1 Henul medical           9         Pelaning complete         IBB         ED/A 1617         1 1202014         1 Henul medical  | 2         E         Piełsing complete         ED/N1517 3         1200/014 1         Hermal medicine           6         E         Pieśling complete         ED/N1517 5         1220/014 1         Hermal medicine           9         Pieśling complete         ED         ED/N1517 1         1220/014 1         Hermal medicine           9         Pieśling complete         ED         ED/N1517 1         1200/014 1         Hermal medicine           9         Pieśling complete         ED         ED/N1517 17         1200/014 1         Hermal medicine           9         Pieśling complete         ED         ED/N15217 17         1200/014 1         Hermal medicine           9         Pieśling complete         ED         ED/N15217 12         1200/014 1         Hermal medicine           9         Pieśling complete         ED         ED/N15217 12         1200/014 1         Hermal medicine           9         Pieśling complete         ED         ED/N15217 12         1200/014 1         Hermal medicine           9         Pieśling complete         ED         Hermal medicine         ED/N15217 12         1200/014 1         Hermal medicine           9         Pieśling complete         ED         Hermal medicine         ED/N15217 12         1200/014 1   
   
   | 2         E         Picking complete         E07/1517 3         1320/014 1         Head matching           6         E         Picking complete         E07/1517 5         1320/014 1         Head matching           8         E         Picking complete         E07/1517 5         1320/014 1         Head matching           9         Picking complete         E07/1517 11         1320/014 1         Head matching           9         Picking complete         E07/1517 11         1320/014 1         Head matching           9         Picking complete         E07/1517 11         1320/014 1         Head matching           9         Picking complete         E07/1517 11         1320/014 1         Head matching           9         Picking complete         E07/1517 11         1320/014 1         Head matching           9         Picking Complete         E07/1517 11         1320/014 11         Head matching           9         Picking Complete         E07/151 10         E07/1518 17         1320/014 11         Head matching           9         Picking Complete         E07/151 10         E07/151 10         E07/151 10         E07/151 10         Head matching           9         Picking Complete         E07/151 10         E07/151 10         E07/151 10  
   | 2         E         Picking complete         E07A 1587 3         13250744 1         Hexand modow           6         E07A 1587 5         13250744 1         Hexand modow           8         E07A 1587 5         13250744 1         Hexand modow           9         Picking complete         IIII         E07A 1587 1         13250744 1         Hexand modow           9         Picking complete         IIIII         E07A 1587 1         13250744 1         Hexand modow           9         Picking complete         IIIII         E07A 1587 12         13250744 1         Hexand modow           9         Picking complete         IIIII         E07A 1587 12         13250744 1         Hexand modow           9         Picking complete         IIIIII         E07A 1587 12         13250744 1         Hexand modow           9         Picking Complete         IIIIIIII         E07A 1587 12         13250744 1         Hexand modow           9         Picking Complete         IIIIIIII         E07A 1587 12         13250744 1         Hexand modow           9         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII   | 2         E         Picking complete         E07A 1587 3         13250744 1         Hexand modow           6         E07A 1587 5         13250744 1         Hexand modow           8         E07A 1587 5         13250744 1         Hexand modow           9         Picking complete         IIII         E07A 1587 1         13250744 1         Hexand modow           9         Picking complete         IIIII         E07A 1587 1         13250744 1         Hexand modow           9         Picking complete         IIIII         E07A 1587 12         13250744 1         Hexand modow           9         Picking complete         IIIII         E07A 1587 12         13250744 1         Hexand modow           9         Picking complete         IIIIII         E07A 1587 12         13250744 1         Hexand modow           9        
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   |   |   
   |  |  
  |   | Call (E2)   | Print (F3) Complete (F5)           |

Color certification completed  $\rightarrow$  Labeling  $\rightarrow$  Discharge to tray

#### When inserting a tube of a different color

Color authentication failure  $\rightarrow$  Discharge to tray  $\rightarrow$  Alarm

\* The device sounds an alarm, and the SW program in use displays the alarm in a pop-up window



## 1. Patient call

### Click the 'Call' button to call a patient waiting for blood collection.

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## 2. Patient verification

(\*Verification can be omitted)

The barcode scanner recognizes the receipt brought by the calling patient to verify the patient.



## 3. Tube supply

Check the list of tubes required for blood collection in the MOD program, and place the tube prepared according to the patient's blood collection nformation.

	Status
	No print output
	No print output
EHEROLM .	No print output
· · · · · · · · · · · · · · · · · · ·	No print output
Lansachanna (	No print output

## 4. Tube ejection

Click the Print button, the labeled tube and patient information printed label are ejected.

5

& Completion

Total 00/07	The patient has been called.		Scan Mo.
1041 00/01	Tabe: 5 IIII Label: 2		Print only label OFF
Patentiume Jisung Park	R Status	Tube Tube	Specimen Oly. etc.
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1001		Control	
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14252345	No print output	FOTATEST 2	19550184 1 Manalmadir
408 22			
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M	🗌 🗆 No print output	EDTATEST 5	132559184 1 Internal media
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	Wait List (FE) 0 Print (F12) Hold (F6)		
	Hold List (F11) 0 Recall (F4) Cancel (F7)	Call (F7 P	rint (F3)
		(	lick



## 5. Blood Collection & Completion

After collecting blood from the patient, click the Done button in the MOD program to complete the blood collection operation.



## Specifications







354r

Model Name	HENd
Maximum tube feed quantity	5ea
Tube ejection speed	3.5sec
Tube Supply Method	Direct tube supply
	Diameter : 13~18mm / Length
Compatible Tube Types	Manufacturer : BD, GREINER, IN - Please consult with ENERGIU (only available for verified and
Drinting Decelution	Label Printer
Printing Resolution	Extra Label Printer
Label Printing Method	Thermal Printing
Compatible Label Size	Width:36mm~50mm, Length:
Product Dimension	190(W) x 267(H) x 354(D) mm
Product Weight	6.5kg
Power	DC 24V 3A
Interface	USB
Others	<ul> <li>Label attachment position de</li> <li>Reprint function</li> <li>Tube type recognition (length</li> <li>Barcode scanner verification</li> </ul>
Certification	CE, KC, RoHS

mm	267mm		•
: 82~128mm MPROVE, VACUTE IM regarding tube d tested glass Tu	e compatibility p	ILAB, INSEPACK, Sarsted	t, etc.
203dpi			
: 22~35mm, Labe	el Quantity : 1,00	00 label (per 1 label roll)	
etection system			
n, diameter, cap	color)		

**HENd** 

#### Contact Us(MA Division HQ)

B114, 2, Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea | Postcode : 08591 | Tel : +82 2 6445 4422 | Fax : +82 2 6445 4400 | Email : sales@energium.com

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