3.12 Parameter Settings (for Lab tracer type)

The parameters can be changed according to the needs of the operator.

1 Display the Setting screen.
   1) Press the MENU button on the Layout screen.
      The pop-up menu is displayed.
   2) Press the Setting button.
      The Setting screen is displayed.

2 Select the screen that includes the desired parameters.
   Select from among [System Setting], [Adjustment], [Maintenance], [Network], or [Communication].
   See “O Parameter items and setting contents” (page 110) for the parameters on each screen.
   The System Setting screen has three pages. Pressing the >> or << button switches the page.

   • Do not change the settings of the Maintenance screen.
     If the settings are changed, they may not work properly.

3 Press the desired parameter item to be changed.
   The selected parameter item turns green. The numeric keypad or pop-up menu is displayed.

4 Change the setting.
   Numeric keypad ➔ Enter a new value.
   Pop-up menu ➔ Select a new setting from the menu.

5 Press the EXIT button to display the Setting screen, then press the EXIT button again to return to the Layout screen.
Parameter items and setting contents

- **System Setting 1 screen**

1. **Language**: ENGLISH, JAPANESE
   - Factory setting: ENGLISH
   - Selects the display language.

2. **PTN Memory**: INTERNAL, EXTERNAL
   - Factory setting: INTERNAL
   - Selects whether registered shape data is saved in the LT-1200 (INTERNAL) or external devices.

3. **JOB# Input Interface**: TENKEY, KEYPAD
   - Selects the numeric keypad or keyboard to enter a JOB#.
   - Select KEYPAD (keyboard) to enter alphabet characters.

4. **PTN# Input Interface**: TENKEY, KEYPAD
   - Selects the numeric keypad or keyboard to enter a PTN#.
   - Select KEYPAD (keyboard) to enter alphabet characters.

5. **Trace Start on Scanning Barcode**: ON, OFF
   - Factory setting: OFF
   - When the setting is ON, tracing starts automatically after the barcode is scanned. Both-eye tracing is performed for frames and right pattern tracing is performed for patterns.

6. **VCA Data Display**: Rx, A, B
   - Factory setting: Rx
   - When the setting is “A,B”, the values of A, B, and ED are displayed instead of PD, , and Axis.
   - In addition, the size adjustment value can be selected by pressing the Size D or Size C button. Press the Size D or Size C button to display a pop-up menu and select the desired mode.
   - A: Horizontal length of the shape
   - B: Vertical length of the shape
   - ED: Double the distance between the boxing center and furthest edge
   - Size D: Size adjustment value (diameter), units: mm
   - Size C: Size adjustment value (circumference), units: mm
   - This setting is available only when the “Communication Interface” parameter on the Communication screen is set to VCA-A, VCA-B, or VCA-C.
7 : VCA Layout Screen: NORMAL, SIMPLE
Factory setting: NORMAL
When the setting is SIMPLE, the entry fields other than FPD, Size, JOB#, and frame type disappear.
This setting is available only when the “VCA Data Display” parameter is A,B.

8 : VCA Trace Data Auto Transfer: ON, OFF
Factory setting: OFF
When the setting is ON, the traced data is automatically transferred to the server after tracing.
This setting is available only when the “VCA Data Display” parameter is A,B.

9 : VCA JOB# Input: ON, OFF
Factory setting: ON
When the setting is OFF, the JOB# entry field disappears.
This setting is available only when the “VCA Data Display” parameter is A,B.

10 : VCA Trace Data Type: Single, Both
Factory setting: Both
Sets whether to use the data mirrored from the right-eye lens shape or actual traced data as the trace data for the left-eye lens in both-eye tracing.
Single: The traced data for the left-eye lens is regarded as the data mirrored from the right-eye lens shape.
Both: The actual traced data is used.
This setting is available only when the “Communication Interface” parameter on the Communication screen is set to VCA-A, VCA-B, or VCA-C.

● System Setting 2 screen

1 : Layout Preset: □□ □□
Sets the default optical center height ( Heights).

2 : Set Layout Both Eyes: ON, OFF
Factory setting: OFF
Selects whether or not the optical center height is entered individually for the right and left eye sides.
When the setting is ON, entering the optical center height of either eye side enters the same value in the other eye side.

3 : Polish/S.B. Setting: LE, SE/ME
Factory setting: SE/ME
Selects the lens edger to be connected.
Select LE for the Le 1000 and Lex 1000, and SE/ME for the Me 900, Me 1200, SE-9090 Express, or SE-9090 Supra.
The selectable options for polishing and safety beveling changes depending on the selected edger.
4 : **Soft Mode Switch:** ON, OFF  
Factory setting: ON  
Sets whether or not to display the Soft button for soft processing on the Layout screen.

5 : **Active Setting of Multi Focal:** ON, OFF  
Factory setting: ON  
Selects whether or not the layout mode can be changed to Active for bifocal lenses.  
When the setting is OFF, Passive mode is automatically selected.

6 : **Rx. All Input:** ON, OFF  
Factory setting: ON  
Selects whether or not JOB data can be saved or sent without all required layout and prescription criteria entered.  
When the setting is ON, the fields that needs to be entered are displayed in yellow after frames are specified (or after loading trace data). The field color changes to gray when the field is entered. Pressing the Send button while any fields remain yellow displays a message informing that necessary item fields remain.

7 : **Frame Curve Input (Single-eye Tracing):** ON, OFF  
Factory setting: OFF  
Sets whether or not to edit the frame curve value in single-eye tracing.  
When the setting is ON, pressing the Change button after single-eye tracing allows the frame curve value to be edited. However, the frame curve value cannot be edited unless the FPD or DBL value has already been entered when the “Rx All Input” parameter is set to ON.

8 : **Frame Angle Input (Single-eye Tracing):** ON, OFF  
Factory setting: OFF  
Sets whether or not to edit the frame warping angle during single-eye tracing.  
When the setting is ON, pressing the Change button after single-eye tracing allows the frame warping angle to be edited. However, the frame warping angle cannot be edited unless the FPD or DBL value has already been entered when the “Rx All Input” parameter is set to ON.

9 : **Hi-curve Frame Setting Function:** ON, OFF  
Factory setting: OFF  
Sets whether or not to display the Hi-curve button on the Layout screen for high base curve processing setting.  
The High base curve processing setting is possible only when the setting is ON, the frame type is Metal, Plastic, or Optyl, and the layout mode is Passive.  
It is not possible to be set to ON when the “Communication Interface” parameter is set to STD.

10 : **VCA-B DBL Value:** Normal, Actual  
Factory setting: Normal  
Selects the calculation method of the DBL value displayed after both-eye tracing.  
Normal: DBL=FPD-(right lens width + left lens width). The calculated value may be smaller than the actual DBL of the frame.  
Actual: Actual measured value is displayed.  
This setting is available only when the “Communication Interface” parameter on the Communication screen is set to VCA-B.
● System Setting 3 screen

1 : Groove Setting Function: ON, OFF
   Factory setting: ON
   Selects whether or not the Groove button is displayed on the Layout screen for nylor frames.

2 : Default Groove Setting: ON, OFF
   Factory setting: ON
   Selects whether grooving is on or off as the default for nylor frames.
   When the “Groove Setting Function” parameter is set to OFF, this setting is not available.

3 : Default Groove Position: □, □
   Sets the default groove position (unit: mm).

4 : Default Groove Depth: □, □
   Sets the default groove depth (unit: mm).

5 : Default Groove Width: □, □
   Sets the default groove width (unit: mm).

6 : JOB/PTN Data Clear: ON, OFF
   Factory setting: OFF
   When the setting is ON, entering the JOB No. or PTN No. automatically clears the lens shape and each prescription returns to the default values.

7 : Patient’s View: ON, OFF
   Factory setting: OFF
   When the setting is ON, the display of the lens shape and each prescription on the Layout screen is inverted.

8 : Show ED (Effective Diameter): ON, OFF
   Factory setting: OFF
   When the setting is ON, the ED value (minimum lens diameter necessary for processing) is displayed on the Layout screen. The ED value is a reference value.

Layout screen when the “Patient’s View” parameter is set to ON.
Communication screen

1: Communication Interface: LAN, VCA-A, VCA-B, VCA-C, STD

- Selects a communication format.
  - LAN: LAN format
  - VCA-A: VCA format (preset initialize). Use the sent circumference without any change in the VCA (OMA) communication.
  - VCA-B: VCA format (preset initialize). Recalculate the 3-D circumference from the frame curve in the VCA (OMA) communication.
  - VCA-C: VCA format (preset initialize). Process based on the sent 3-D circumference in the VCA (OMA) communication.
  - STD: Nidek standard format. Select this option when the LT-1200 is connected to a PC only.

Select LAN when using a LAN connector for communication and VCA-A, VCA-B, VCA-C, or STD when using the RS-232C connector or USB port. In the VCA-A, VCA-B, or VCA-C setting, the following functions are not available.

<table>
<thead>
<tr>
<th>Lens material: Acrylic, Urethane</th>
<th>Lens type: Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guided processing</td>
<td></td>
</tr>
</tbody>
</table>

2: CLIENT/HOST: CLIENT, HOST

- Displays whether the LT-1200 is a host or client in the network. It is determined by the "Communication Interface" parameter and the setting cannot be changed.

3: Communication Port: ETHERNET, RS-232C, USB

- Select wether the LAN, RS-232C connector, or USB port is used for the communication.
  - ETHERNET is automatically selected when the "Communication Interface" parameter is set to LAN.
  - Either RS-232C or USB port is selected when the parameter is set to VCA-A, VCA-B, VCA-C, or STD.

4: RS-232C Baudrate: 38400, 9600

- Factory setting: 9600
  - Sets the communication speed (baud rate) for data communication using the RS-232C connector or USB port.

5: STD/VCA LT-900 Compatible Mode: ON, OFF

- Factory setting: OFF
  - When the setting is ON, the STD/VCA communication is available in the format compatible with the LT-900.

6: VCA Output A, B, and ED: ON, OFF

- Factory setting: OFF
  - When the setting is ON, the upload data to the VCA host includes each value of A, B, and ED. The labels are as follows:
    - A: HBOX
    - B: VBOX
    - ED: MBD

Layout screen when the STD/VCA LT-900 Compatible Mode is set to ON
7 : VCA Number of Radii: 500, 512, 800, 1000
   Factory setting: 1000
   Sets the number of shape points to be presented first to the VCA host during the initialization session in the VCA communication.

8 : VCA-B Circumference Offset for Frame:  □□. □□
   Sets the value to be added to the circumference when tracing a frame in the VCA-B setting (unit: mm).
   The shape will be changed so that the circumference value becomes the set circumference value plus this offset value. Thus, the actual value may be different from the setting value.

9 : VCA-B Circumference Offset for Pattern: □□. □□
   Sets the value to be added to the circumference when tracing a pattern in the VCA-B setting (unit: mm).
   The shape will be changed so that the circumference value becomes the set circumference value plus this offset value. Thus, the actual value may be different from the setting value.

10 : VCA Output Groove Position by BEVP: ON, OFF
    Factory setting: OFF
    When the setting is ON, groove position information is sent to VCA host by using the labels BEVP, BEVM, and BEVC.

- Network 1 screen
  Do not change settings on the Network screen without any good reason.

- Network 2 screen
  Do not change settings on the Network screen without any good reason.