



Instruction Manual

# Dosimeter Setting Device








For Electronic Personal Dosimeter  
**Dose-i**

(Unit:Sv, Version:1.05 English)

# Foreword

Thank you for purchasing the Dosimeter Setting Device; a product by Fuji Electric Co., Ltd. This User's Manual is intended to provide the descriptions of system configuration, procedures for software installation, functions, and operational instructions for proper use of this product. Please read this manual carefully before operating.

## Notes on Safety

	<b>Do not use the Setting Device if any smoke, odor, or noise is present.</b>
	<b>Do not insert cable connector to wrong port.</b>
	<b>Do not use cables other than provided.</b>
 	<b>Do not disassemble, repair, or alter the Dosimeter Setting Device.</b>
 <b>CAUTION</b>	
	<b>Do not turn off the dosimeter during use. Measurement data may be lost when power is turned off.</b>

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# 1. Introduction

## 1.1 Overview

The Dosimeter Setting Device displays and updates the operation parameters in Electronic Personal Dosimeter via infrared data communication interface with the dosimeter.

The measurement trend data can be read out from the dosimeter by this Setting Device.

The software of the Dosimeter Setting Device is based on the Microsoft® Windows® operating system.

## 1.2 Product Package

(1) PC software (supplied as CD)	1
(2) Infrared communication cable	1
(3) Instruction manual (This document)	1

## 2. Mechanical Characteristics

### 2.1 General

- (1) Basic functions:
  - a. Reading out operation parameters and measurement data from dosimeters
  - b. Displaying trend data as data table or graph on the screen and downloading as EXCEL sheet
  - c. Writing operation parameters to dosimeters
- (2) Communicate with : Electronic Personal Dosimeter Dose-i
- (3) Temperatures : 0 to 40°C
- (4) Humidity : 30 to 85%
- (5) Power supply : DC4.5 to 6.0 V (supplied from connected computer)

### 2.2 Required Environment

The following requirements are applied to (1) hardware and (2) software, respectively.

#### (1) Hardware

Personal Computer (hereinafter, PC) that meet the following specifications

- CPU : 2GHz, or more
- Memory : 1GB, or more
- Hard Drive : Free disc space of 20 MB, or more
- Display : Resolutions 800 × 600, or more
- Communications Interface : USB × 1ch
- Others : Mouse and keyboard

#### (2) Software

The PC mentioned in (1) should have the following software installed.

- Operating system : Windows® XP/7/8/8.1 operating system
- Others : Microsoft® Office (EXCEL)

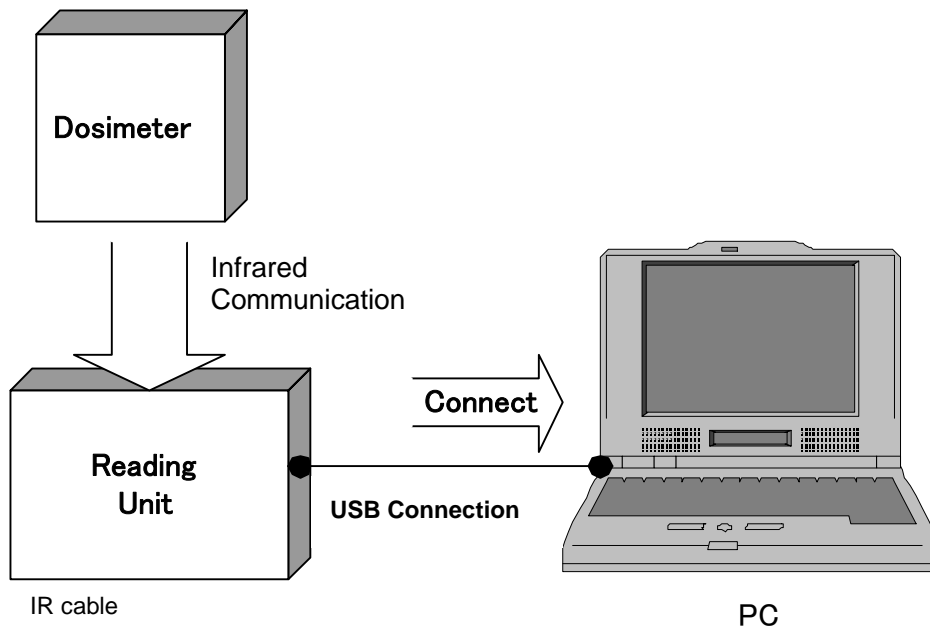
\* **Microsoft®, Windows®, Windows logo®, Windows Start logo®** are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

\* Screen shot(s) reprinted with permission from Microsoft Corporation.

### 3. System Configuration and Installation

#### 3.1 System Configuration

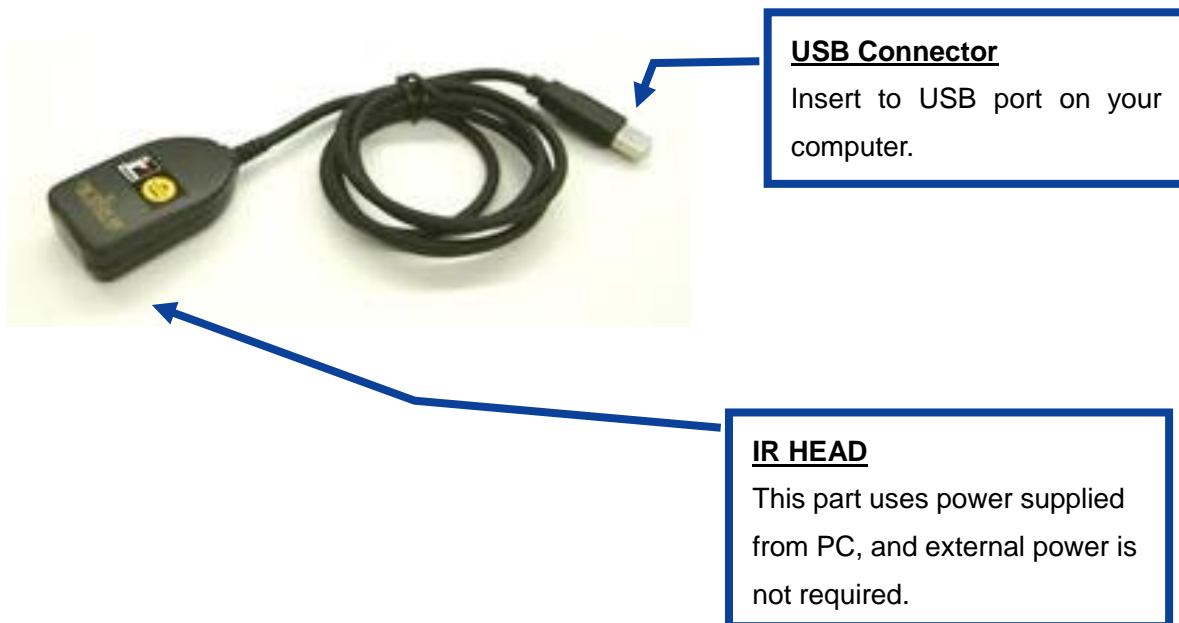
Dosimeter setting device are consist of infrared communication cable (hereinafter “IR cable”) and PC which installed the dosimeter setting device software.



**System Configuration**

#### 3.2 Product Configuration

The configuration of the IR cable



**IR Cable Configuration**

### 3.3 Installation and Setup

Driver for IR cable and dosimeter setting device software are needed for using this software.

#### 3.3.1 Installation procedure for IR cable driver

The installation procedure for IR cable driver is as follows.

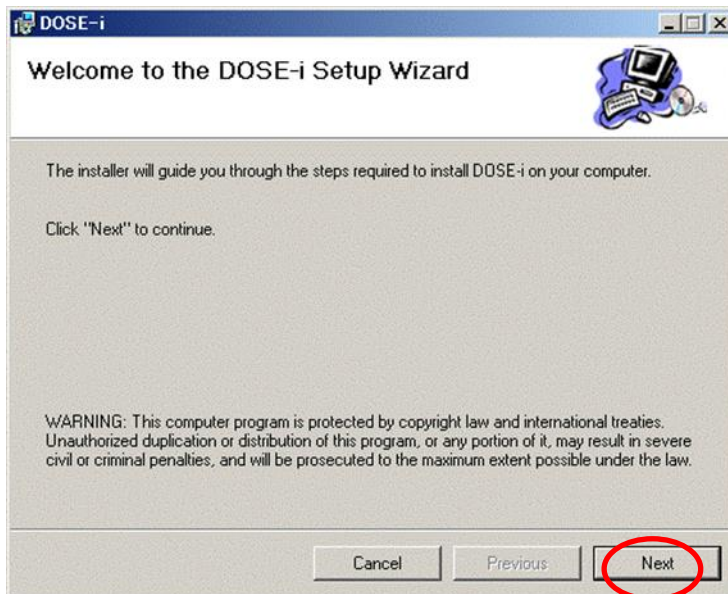
- (1) Insert the installation CD into the CD-ROM drive of PC.
- (2) Click "**Drivers**" folder.
- (3) Select following installer matching your computer and start it.  
Windows XP/7 : "**Windows7**"  
Windows 8/8.1 : "**Windows8**"
- (4) Please install according to installation manual in each folder.

#### 3.3.2 Installation procedure for dosimeter setting device software

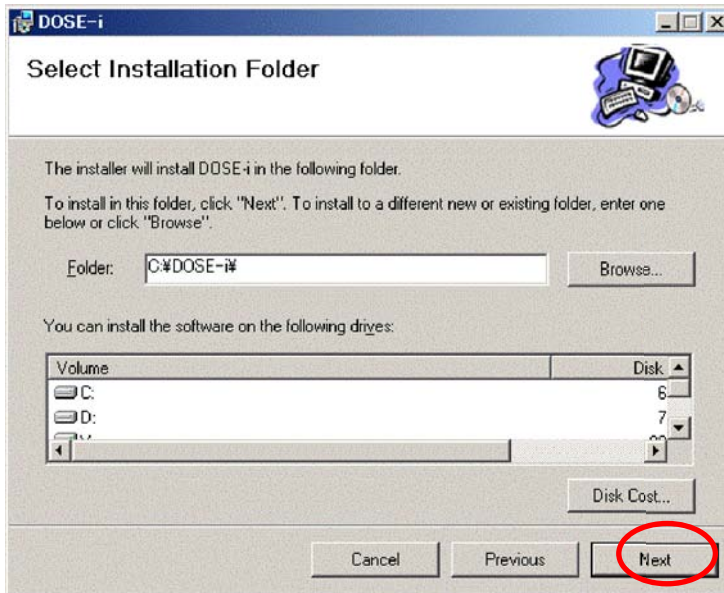
The installation procedure for dosimeter setting device software is as follows.

- (1) Insert the installation CD into the CD-ROM drive of PC.
- (2) Click "DOSE-i\_Tool" folder.
- (3) Execute "**Setup.exe**" file.

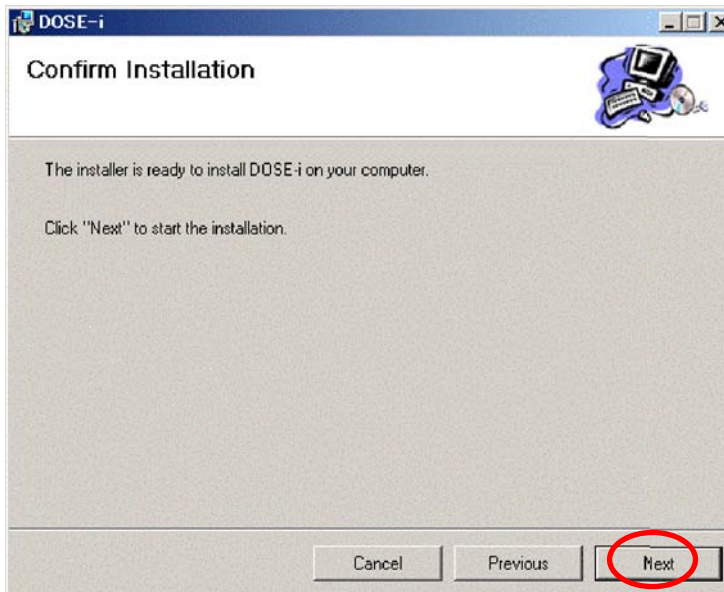
Click "Next".



Choose an installation directory, and then click **Next**.

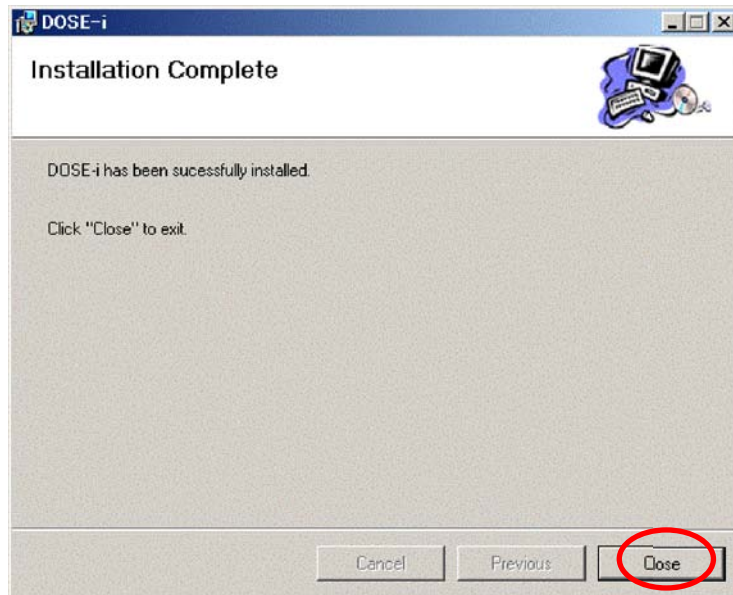


Click **Next**.





Click "Close".



### 3.3.3 Hardware setup procedure

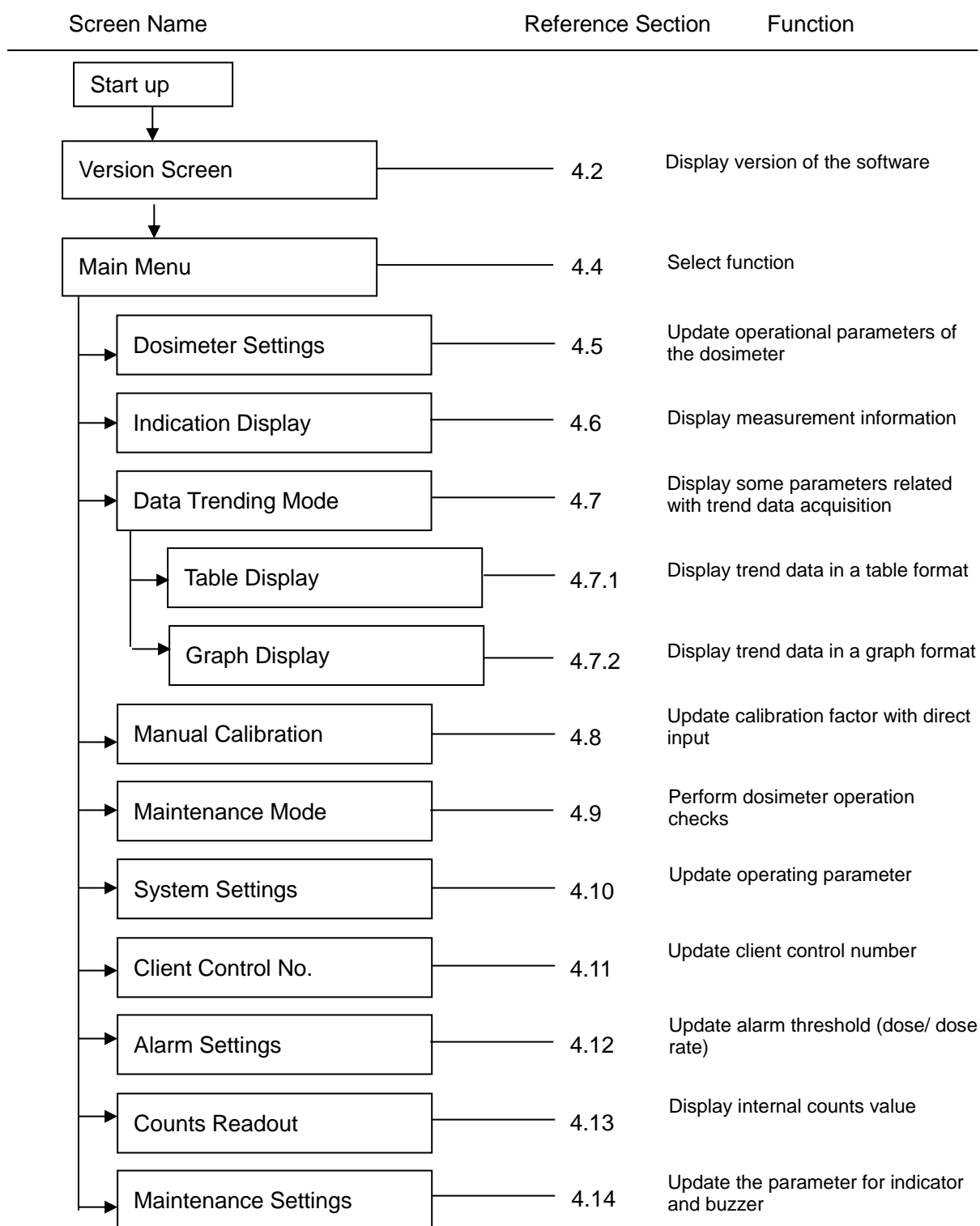
The Hardware setup procedure is as follows.

- (1) Insert the USB connector of IR cable into USB port of PC.
- (2) Wait for a few second until the cable is recognized by PC.

## 4. Operational Instructions

### 4.1 Functional Outline of Software

Functional outline of the dosimeter setting device software is shown below:



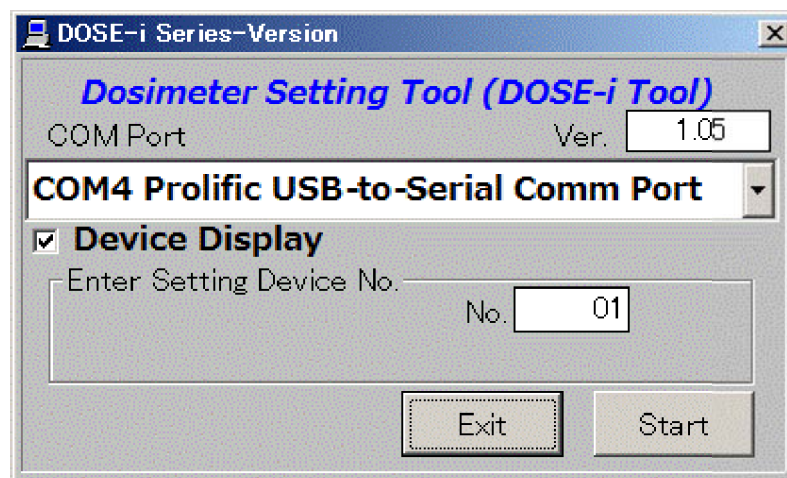
## 4.2 Starting the Software Operation

- (1) Select the icon [DOSE-i]



Software icon

- (2) The software starts running, then the Version screen will appear.  
Select the right COM port that IR cable is connected with and click "Start".



Version screen

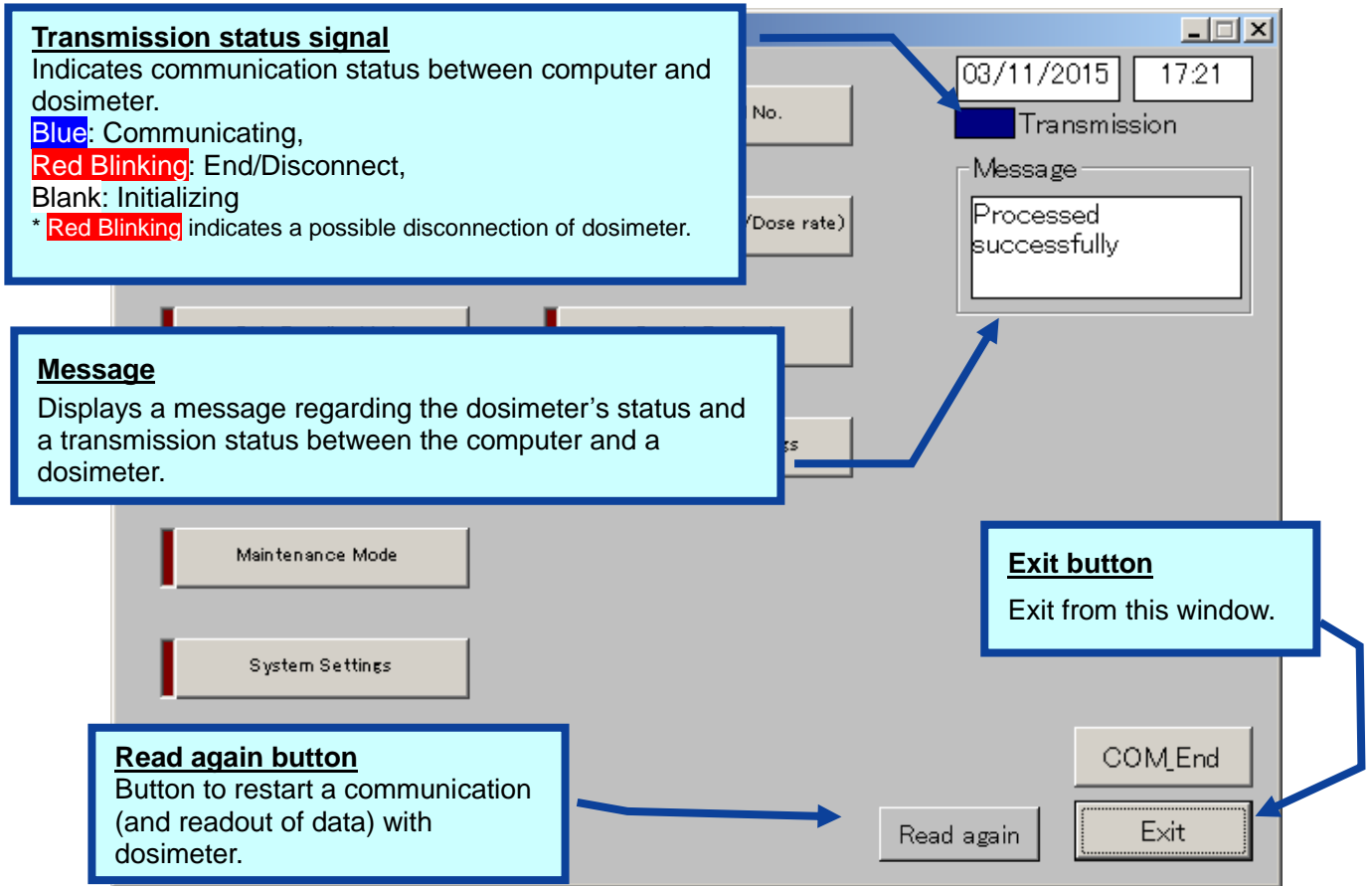


### CAUTION

For COM port number that IR cable is connected with, please check the correct COM port number by device manager function on the PC.

### 4.3 Screen Interface

The fields and buttons on the following screen are common to all screens. See the following sections for details of each screen.



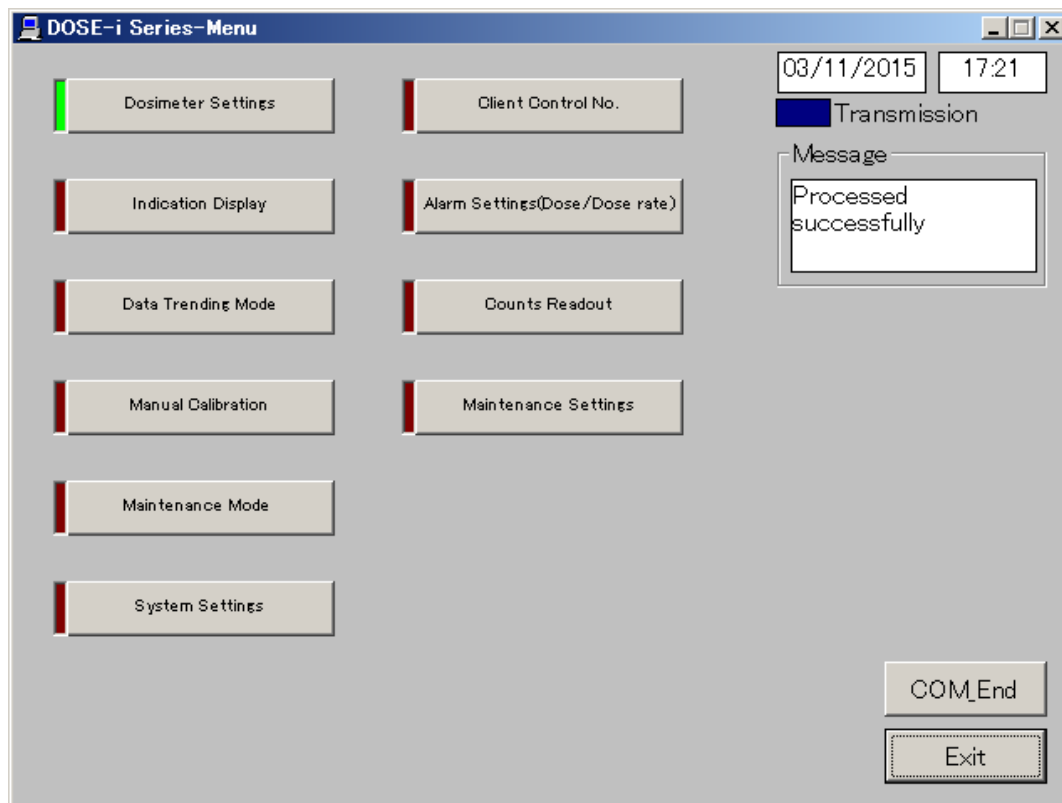
**Common features of the menu screen (functions and layout)**

The following messages will be indicated in the Message box.

Severity	Messages	Descriptions
1	LOW Battery	Dosimeter's battery power is critically low.
2	Please place Dosimeter into Reader	Communication with dosimeter has not been established yet.
3	Maintenance mode	Dosimeter is in Maintenance mode.
4	Processed Successfully	Communication between the setting device and dosimeter has been established.
5	Initializing...	In the process of establishing communication between the setting device and a dosimeter.

\* **Note:** Features on the menu will function only when the dosimeter is in communication. If "Transmission" is **Red Blinking**, place/replace the dosimeter, and then click "Read again" button. Data communication will be started/resumed, and "Transmission" will become **Blue**.

## 4.4 Main Menu



**Fig. 4-1 Main Menu Screen**

- All functions that are performed via data communication with dosimeters are displayed.
- Turned into green by first click and go to the screen of the selected function by second click.

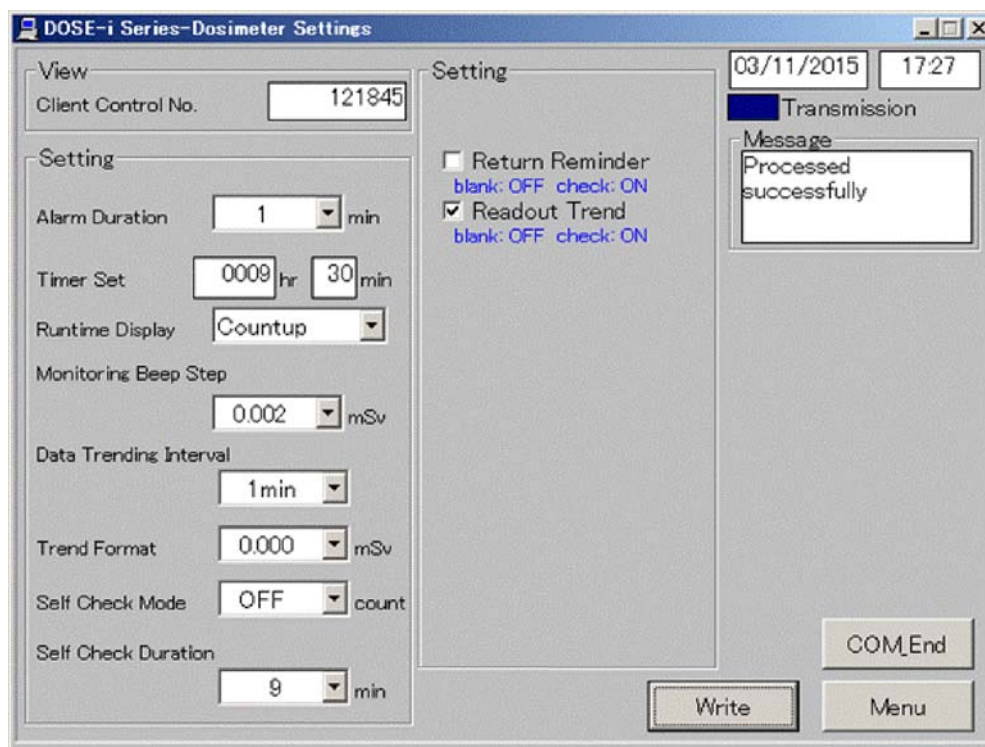
### <Menu Button>

<b>Dosimeter Settings</b>	Goes to the next Screen: Fig. 4-2
<b>Indication Display</b>	Goes to the next Screen: Fig. 4-3
<b>Data Trending Mode</b>	Goes to the next Screen: Fig. 4-4-1
<b>Manual Calibration</b>	Goes to the next Screen: Fig. 4-5
<b>Maintenance Mode</b>	Goes to the next Screen: Fig. 4-6
<b>System Settings</b>	Goes to the next Screen: Fig. 4-7
<b>Client Control No.</b>	Goes to the next Screen: Fig. 4-8
<b>Alarm Settings</b>	Goes to the next Screen: Fig. 4-9
<b>Counts Readout</b>	Goes to the next Screen: Fig. 4-10
<b>Maintenance Settings</b>	Goes to the next Screen: Fig. 4-11

### <Command Button>

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Exit</b>	Closes the dosimeter setting device software.
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

## 4.5 Dosimeter Settings



**Fig. 4-2 Dosimeter Settings Screen**

- Display the operational parameters which are read out from the dosimeter.
- Write the edited settings data to the dosimeter by click "Write" button.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999

### <Setting>

Name	Definition, range and unit of the functions	
<b>Alarm Duration</b>	Alarm duration length	1 to 9 min
<b>Timer Set</b>	Alarm threshold for operation time	0000h:01min to 9999h:59min
<b>Runtime Display</b>	Mode selection for indicating operation time	Count down / Count up
<b>Monitoring Beep Step</b>	Beep activation intervals according to the dose increment	OFF / 0.001 / 0.002 / 0.01 / 0.1 mSv
<b>Data Trending Interval</b>	Data Trending intervals	15 sec/ 30 sec/ 1 min/ 5 min/ 10 min/ 30 min/ 60 min/ 90 min
<b>Trend Format</b>	Shifts the decimal point for data trending	00.00 / 000.0 mSv

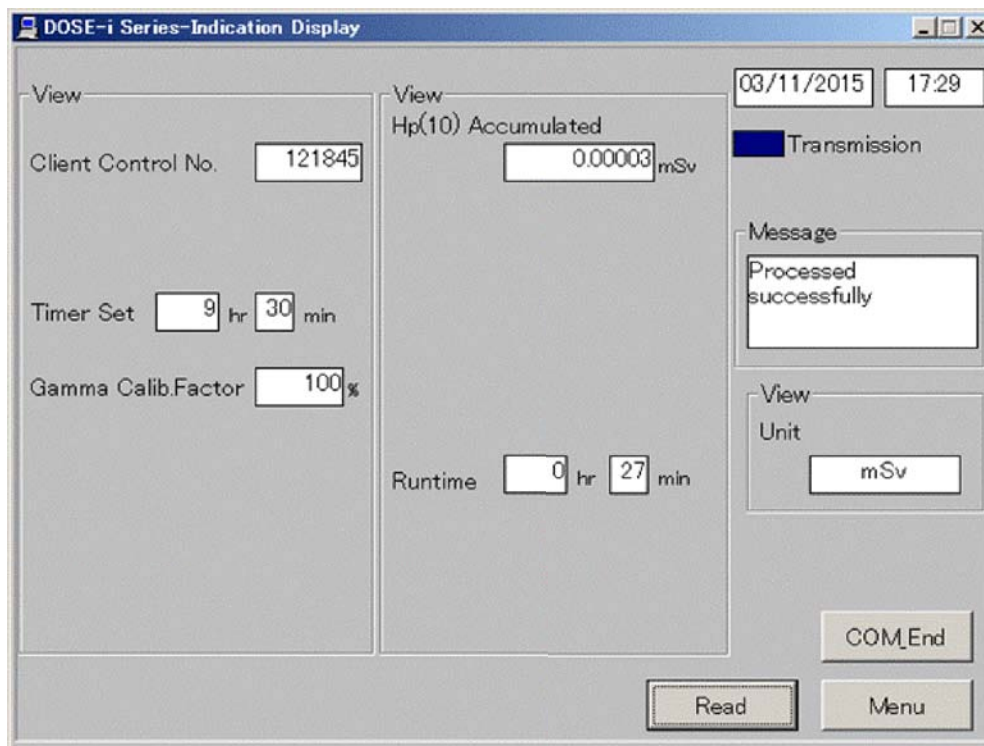
<b>Self Check Mode</b>	Enables/disables self-check, and sets the check count value	OFF / 1 / 3 / 5 / 10 / 20 / 40 / 80 / 100 count
<b>Self Check Duration</b>	Time period for self-check	1 to 10 minutes
<b>Return Reminder</b>	Alarm not to forget to get a dosimeter back	ON / OFF
<b>Readout Trend</b>	Enables/disables data acquisition through a dedicated external device	ON / OFF

### <Command Button>

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Write</b>	Writes the data displayed on the screen to the dosimeter by infrared communication.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.



## 4.6 Indication Display



**Fig. 4-3 Indication Display Screen**

-- Display the measured values read out from the dosimeter.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999
<b>Timer Set</b>	Alarm threshold for operation time	0000 h : 01 min to 9999 h : 59 min
<b>Gamma Calib. Factor</b>	Calibration Factor for gamma-ray	Gamma: 60 to 140%
<b>Hp(10) Accumulated Dose</b>	Accumulated dose of gamma-ray	0.00000 to 9999.99999 mSv
<b>Runtime</b>	Operation time of the dosimeter	0000 h : 00 min to 9999 h : 59 min

**<Command Button>**

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Read</b>	Starts reading out for data display. This will be executed from initializing the already established communication even during transmission.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

## 4.7 Data Trending Mode

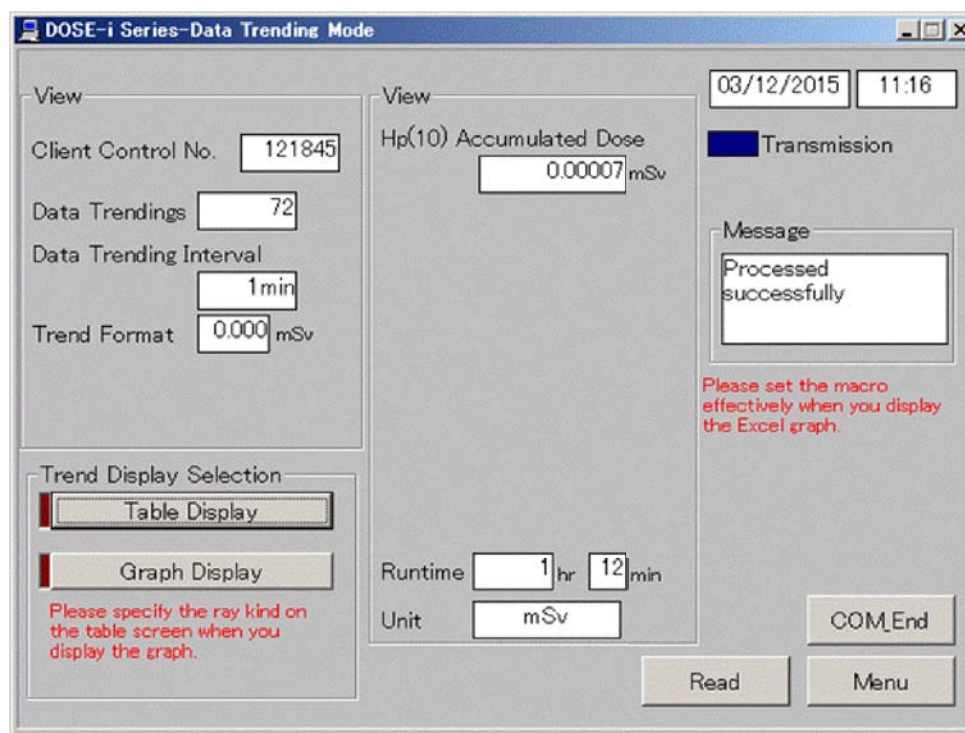


Fig. 4-4-1 Data Trending Mode Screen


- Display the trend setting data read out from the dosimeter.
- Select the display type of data trend.

### <View>

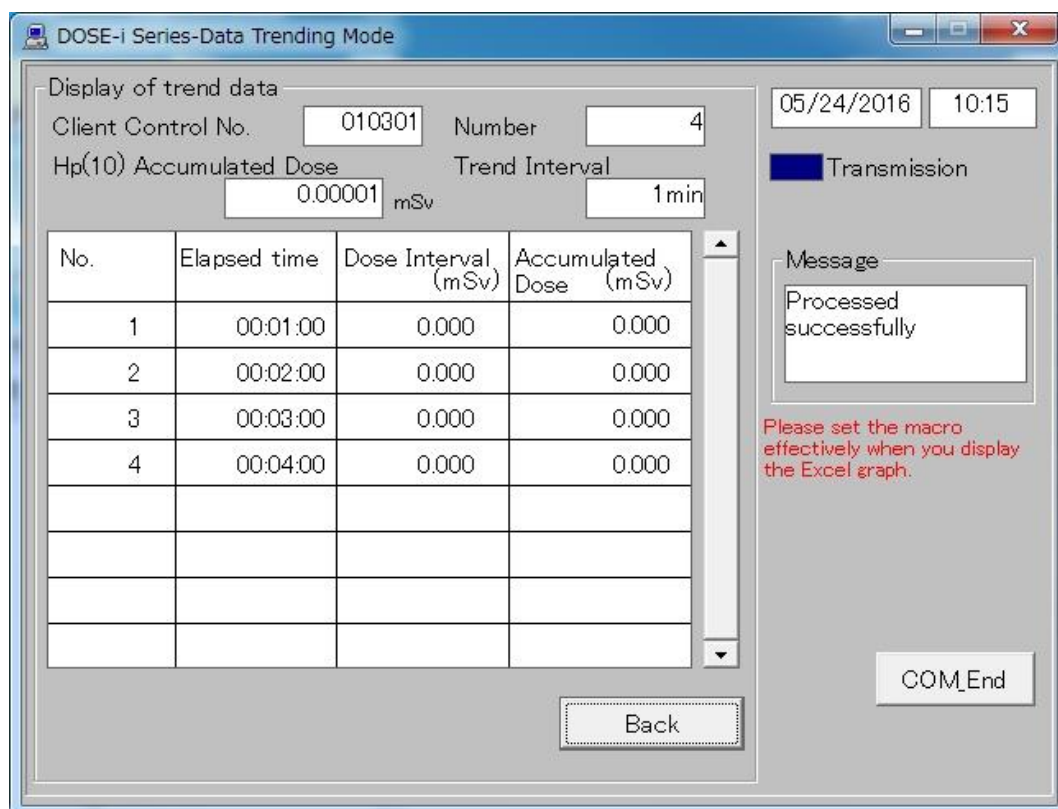
Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999
<b>Data Trendings</b>	Number of trend data stored	1 to 600
<b>Data Trending Interval</b>	Interval of data trending	15 sec/ 30 sec/ 1 min/ 5 min/ 10 min/ 30 min/ 60 min/ 90 min
<b>Trend Format</b>	Shifts the position of decimal point for data trending	00.00 / 0.000 mSv
<b>Hp(10) Accumulated Dose</b>	Accumulated dose of gamma-ray	0.00000 to 9999.99999 mSv
<b>Runtime</b>	Operation time of the dosimeter	0000 h : 00 min to 9999 h : 59 min
<b>Unit</b>	Measurement unit	mSv, mrem

### <Command Button>

<b>Table Display</b>	Reads out the Data Trend, and then goes to the next Screen: Fig. 4-4-2
<b>Graph Display</b>	Reads out the Data Trend, and then goes to the next Screen: Fig. 4-4-3
<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Read</b>	Starts reading out for data display. This will be executed from initializing the already established communication even during transmission.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

 <b>CAUTION</b>	<p>The prompt window &lt;Communication error&gt; will appear during data readout if a new trend does not exist.</p> <p>Please wait until a data trending interval set up in the dosimeter has passed, and then start data readout.</p>
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#### 4.7.1 Table Display



**Fig. 4-4-2 Table Display Screen**

-- Display the Trend data read out from a dosimeter in table.

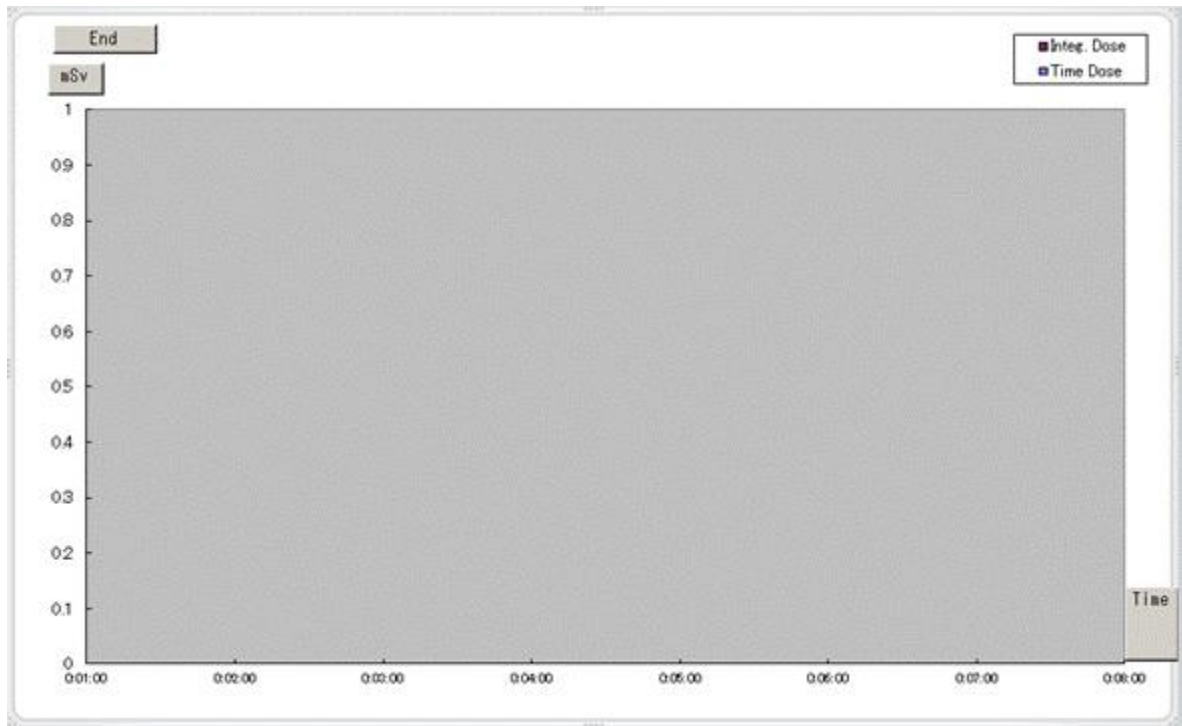
#### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999
<b>Hp(10) Accumulated Dose</b>	Accumulated dose of gamma-ray	0.00000 to 9999.99999 mSv
<b>Number</b>	Number of trend data stored	1 to 600
<b>Trending Interval</b>	Interval of data trending	15 sec/ 30sec/ 1 min/ 5 min/ 10 min/ 30 min/ 60 min/ 90 min
<b>Elapsed Time</b>	Elapsed time	00:00:00 to 99:99:99
<b>Dose Interval</b>	Dose per trend interval duration	0.00 to 99.99 mSv or 0.000 to 9.999 mSv
<b>Accumulated Dose</b>	Accumulated value of dose	0.000 to 9999.999 mSv

**<Command Button>**

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Back</b>	Goes back to the Data Trending Mode Screen: Fig. 4-4-1

## 4.7.2 Graph Display



**Fig. 4-4-3 Graph Display Window**

-- Display the trend data read out from a dosimeter in EXCEL window.

### <Command Button>

<b>End</b>	Closes this Graph Display window.
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## 4.8 Manual Calibration

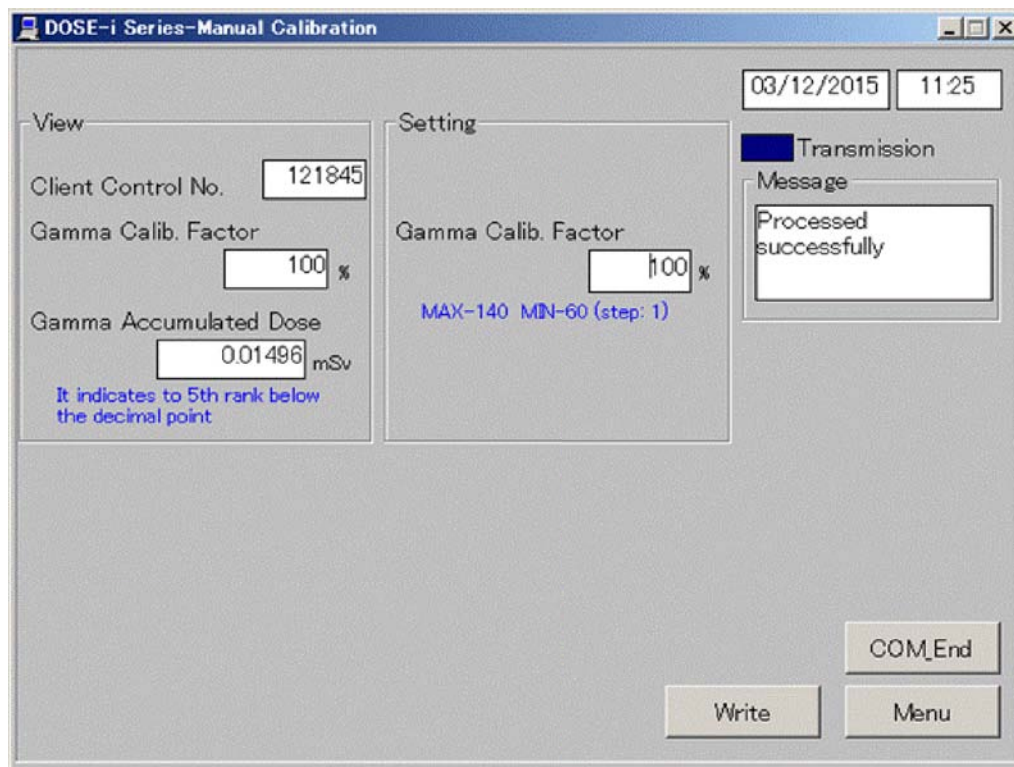


Fig. 4-5 Manual Calibration Screen

- Display accumulated dose and calibration factor read out from the dosimeter.
- Write the edited calibration factor to the dosimeter by clicking "Write" button.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999
<b>Gamma Calib. Factor</b>	Calibration factor read out from a dosimeter	60 to 140% (1 Pitch)
<b>Gamma Accumulated Dose</b>	Accumulated dose	0.00000 to 9999.99999 mSv

### <Setting>

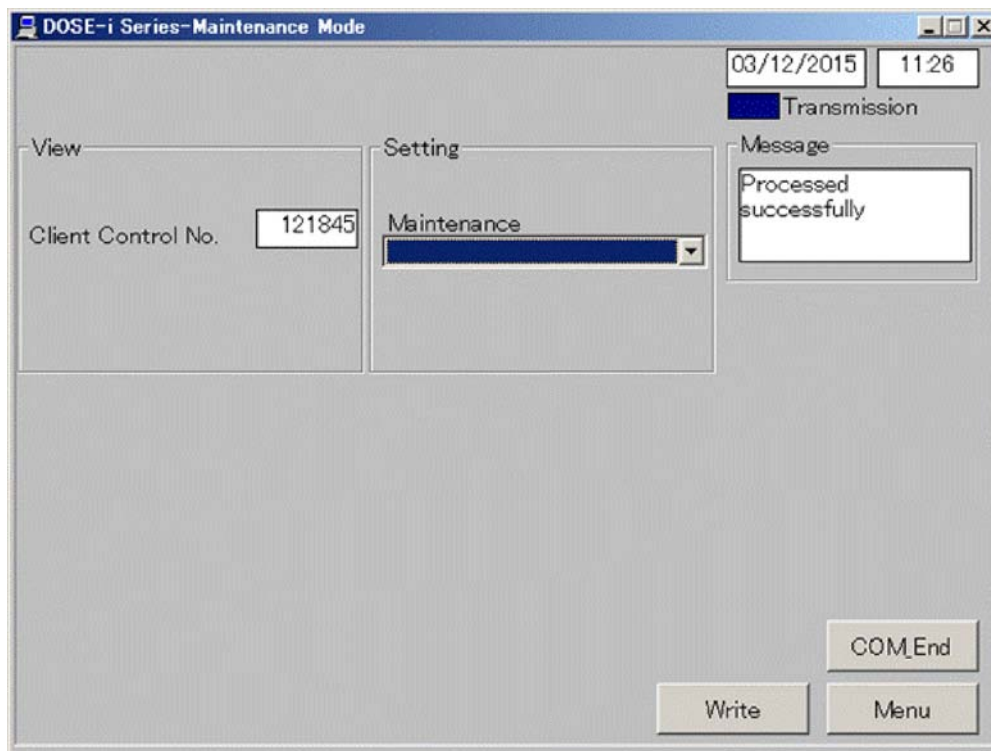
Name	Definition, range and unit of the functions	
<b>Gamma Calib. Factor</b>	Calibration factor for gamma-ray	60 to 140% (1 Pitch)



**<Command Button>**

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Write</b>	Writes the date displayed on the screen to the dosimeter by infrared communication.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

## 4.9 Maintenance Mode



**Fig. 4-6 Maintenance Mode Screen**

-- To perform dosimeter maintenance and checking, select the preferred mode and write to a dosimeter.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999

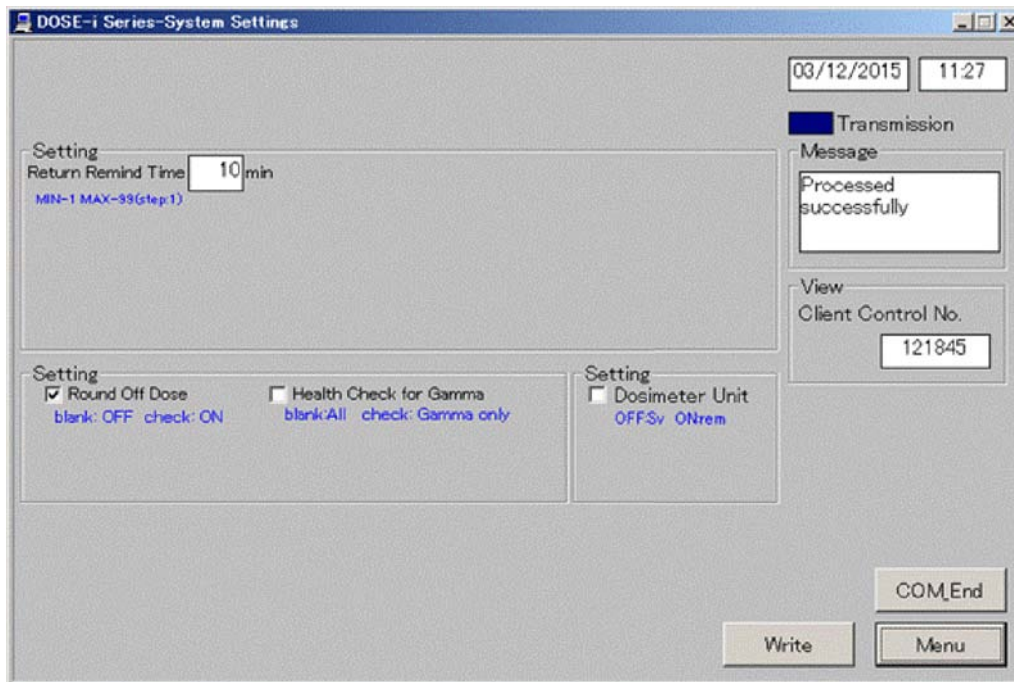
### <Setting>

Name	Definition, range and unit of the functions	
<b>Maintenance</b>	LCD Check Mode	: Indication of all items on the LCD
	Count Value Display Mode	: Indication of internal counter
	Buzzer Volume Check Mode	: Activation of buzzer sound
	Exit Maintenance	: Exit from maintenance mode

### <Command Button>

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Write</b>	Writes the data displayed on the screen to the dosimeter by infrared communication.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

## 4.10 System Setting



**Fig. 4-7 System Setting Screen**

- Display the operating parameters which are read out from the dosimeter.
- Write the edited operating parameter to the dosimeter by clicking "Write" button.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999

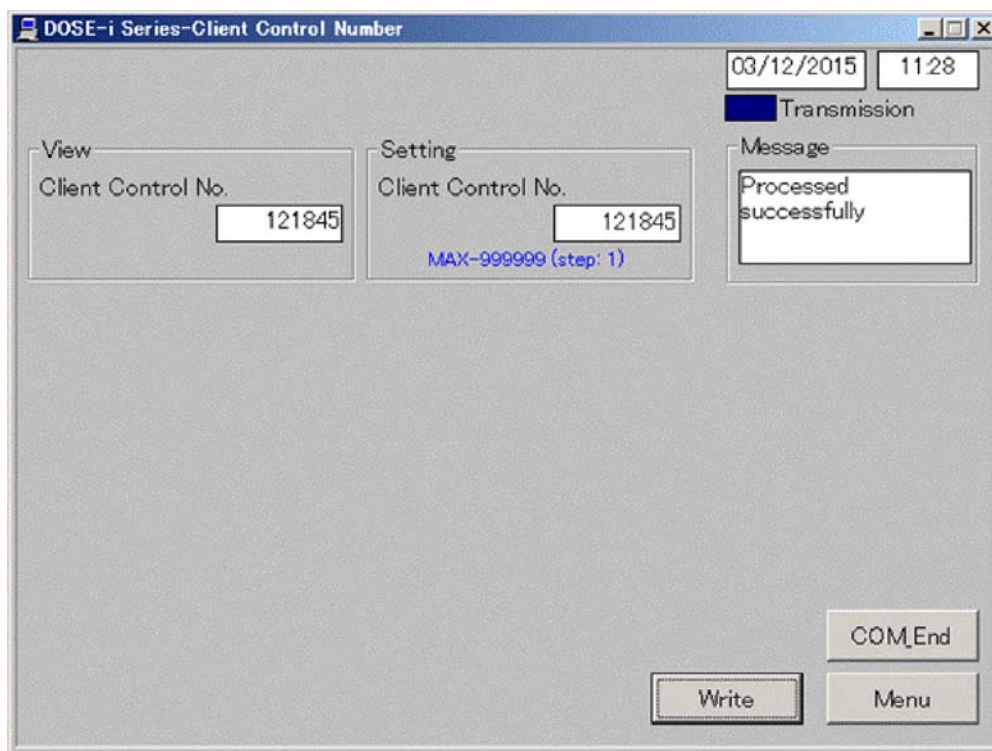
### <Setting>

Name	Definition, range and unit of the functions	
<b>Return Remind Time</b>	Reminder time not to forget to get the dosimeter back	1 to 99 min (1 Pitch)
<b>Round Off Dose</b>	ON/OFF of rounding off for accumulated dose	OFF / ON
<b>Health Check for Gamma</b>	Enables/disables failure check for gamma detector	OFF / ON
<b>Dosimeter Unit</b>	Switches display unit of the display between Sv and rem	OFF (Sv) / ON (rem)

**<Command Button>**

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Write</b>	Writes the data displayed on the screen to the dosimeter by infrared communication.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

## 4.11 Client Control Number



**Fig. 4-8 Client Control Number Screen**

- Display the client control number which is read out from the dosimeter.
- Write the edited client control number to the dosimeter by clicking "Write" button.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999

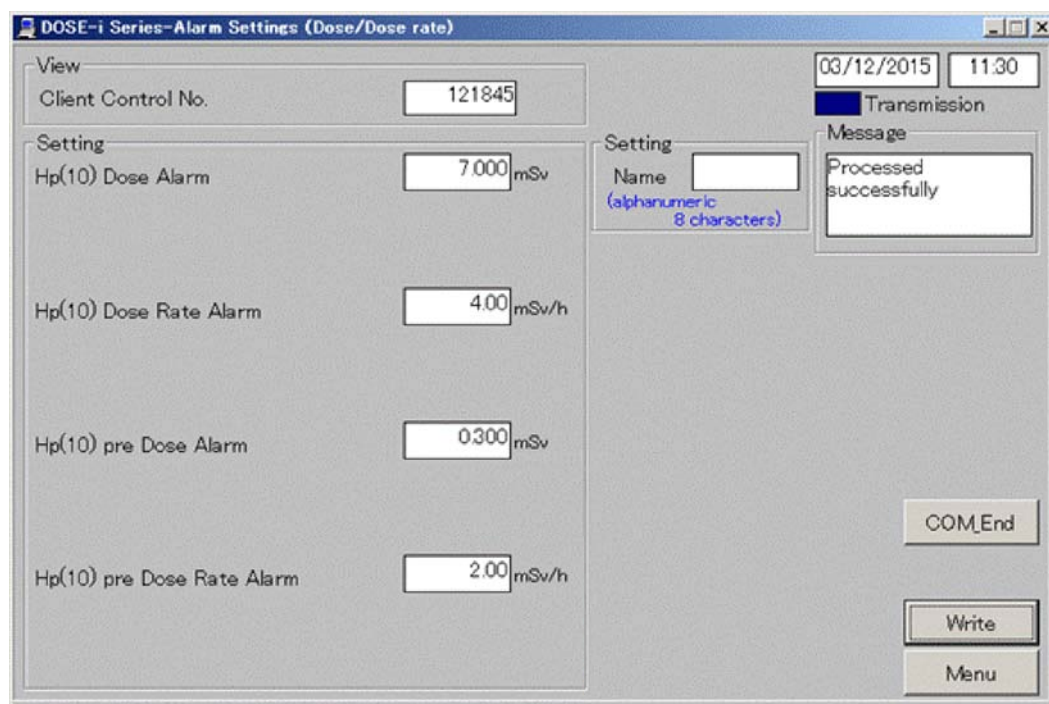
### <Setting>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999

### <Command Button>

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Write</b>	Writes the data displayed on the screen to the dosimeter by infrared communication.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

## 4.12 Alarm Settings (Dose/Dose rate)



**Fig. 4-9 Alarm settings (Dose/Dose rate) Screen**

- Display the alarm thresholds which are read out from the dosimeter.
- Write the edited alarm thresholds to the dosimeter by clicking "Write" button.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999

### <Setting>

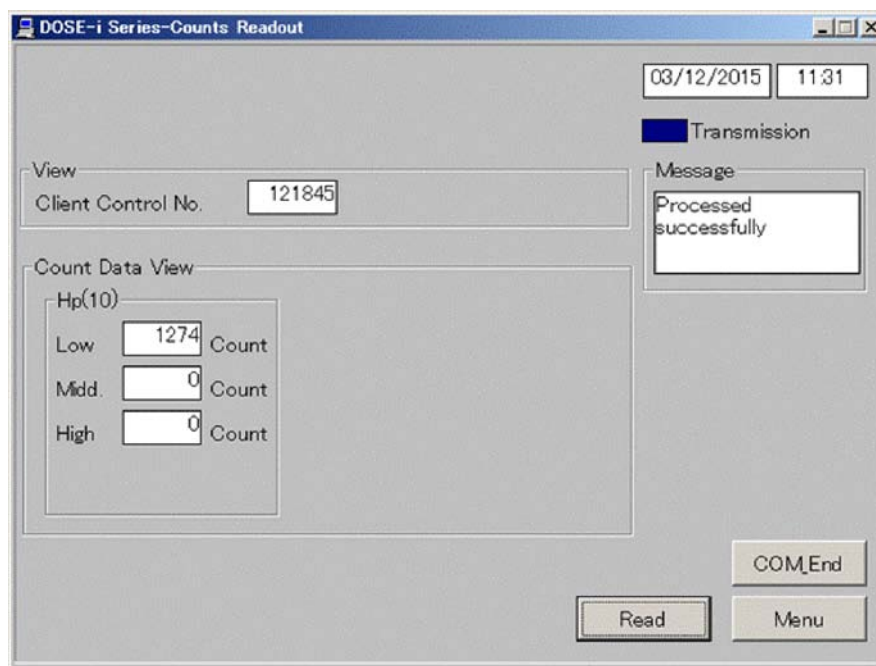
Name	Definition, range and unit of the functions	
<b>Hp(10) Dose Alarm</b>	Hp(10) accumulated dose alarm threshold	0.001 to 9999.999 mSv
<b>Hp(10) Dose Rate Alarm</b>	Hp(10) dose rate alarm threshold	0.01 to 9999.99 mSv/ h
<b>Hp(10) Pre Dose Alarm</b>	Hp(10) accumulated dose pre alarm threshold	0.001 to 9999.999 mSv
<b>Hp(10) Pre Dose Rate Alarm</b>	Hp(10) dose rate pre alarm threshold	0.01 to 9999.99 mSv/ h
<b>Name</b>	User name	8 alphanumeric characters (capital) Note) Indicates up to 8 characters on dosimeter's display.

**<Command Button>**

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Write</b>	Writes the data displayed on the screen to the dosimeter by infrared communication.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.



## 4.13 Counts Readout



**Fig. 4-10 Counts Readout Screen**

-- Display the count values which are read out from the dosimeter.

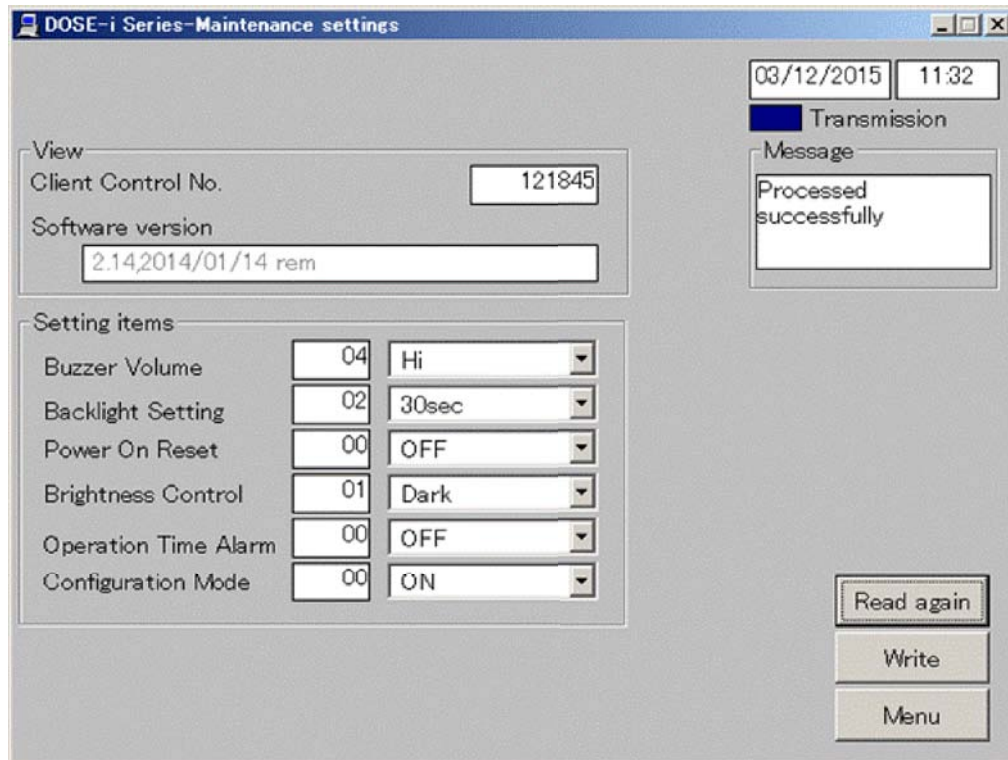
### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999
<b>Hp(10) Low</b>	Count of Hp(10) Low	000000 to 999999 count
<b>Hp(10) Mid</b>	Count of Hp(10) Mid	000000 to 999999 count
<b>Hp(10) High</b>	Count of Hp(10) High	000000 to 999999 count

### <Command Button>

<b>COM_End</b>	Finishes the communication with a dosimeter.
<b>Read</b>	Starts reading out for data display. This will be executed from initializing the already established communication even during transmission.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1
<b>Read again*</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically. *: This is indicated while communication is not established.

## 4.14 Maintenance Settings



**Fig. 4-11 Maintenance Settings Screen**

- Display the maintenance settings parameters which are read out from the dosimeter.
- Write the edited setting data to the dosimeter by clicking "Write" button.

### <View>

Name	Definition, range and unit of the functions	
<b>Client Control No.</b>	Dosimeter ID. number	000001 to 999999
<b>Software version</b>	Software version of dosimeter	N/A

**<Setting>**

Name	Definition, range and unit of the functions	
<b>Buzzer Volume</b>	Volume of dosimeter buzzer	Hi / Mid / Low / OFF
<b>Backlight Setting</b>	Backlight duration	Continuity / 10 sec / 30 sec / 60 sec
<b>Power On Reset</b>	If this is ON, accumulated dose value is reset when the power is turned off	ON / OFF (Reset / Not reset)
<b>Brightness Control</b>	Brightness of display	Dark / Middle / Bright
<b>Operation Time Alarm</b>	Enables/disables operation time alarm	ON / OFF
<b>Configuration Mode</b>	Enables/disables of parameter configuration on dosimeter display	ON / OFF

**<Command Button>**

<b>Read again</b>	Re-starts communication with a dosimeter. If it starts communication by establishing transmission, it processes data read out automatically.
<b>Write</b>	Writes the data displayed on the screen to the dosimeter by infrared communication.
<b>Menu</b>	Goes back to the Main Menu Screen: Fig. 4-1

## 5. Troubleshooting

### 5.1 Errors and Solutions

#### (1) Communication error

Communication error between a computer and a dosimeter setting device

- During computer start up, processing, or data communication:

Error timing and error message	Suggested solution
<During establishing communication> "Reading unit, or cable abnormal"	Check the cable connection.
<During status process> "No response"	Check the cable connection.

- During data readout from a dosimeter:

Error timing and error message	Suggested solution
<During reading process or trend data acquisition> "Dosimeter Not Communicating"	Retry reading out.
<During reading process or trend data acquisition> "Dosimeter communication error"	Retry reading out.
<During reading process or trend data acquisition> "No response"	Check the IR communication cable. Check the connection with IR communication cable.
<During Trend data reading process> "Trend data does not exist"	There is no trend data. Create some trend data first, and then read out.

-During writing of operational parameters to the dosimeter.

Error timing and error message	Suggested solution
<During writing process> "Dosimeter Not Communicating"	Process reading out, first
<During writing process> "Dosimeter communication error"	Process reading out, first
<During writing process> No response	Process reading out, first. Check the cable connection.

★ Please restart PC if the errors not listed in this section occurred.

(2) Internal Error:

- Errors detected by an internal check

- When a writing procedure starts, the input value error may appear.

Error message	Suggested solution
"Input Error of xxxx"	Re-enter the value within the valid range.

(3) Error when communication starts:

- Errors detected by PC when procedures to write parameters or to readout trend data started

- During attempting writing process.

Error message	Suggested solution
"Dosimeter Not Communicating" "Cannot write"	Start reading process, first.

- During attempting to read out trend data:

Error message	Suggested solution
"Dosimeter Not Communicating"	Cancel the trend data readout, and then start regular reading process.

★ Please restart PC if the errors not listed in this instruction manual occurred.

## 6. Abnormalities

Problem	Solution
Cannot establish communication.	IR communication cable may not be connected properly. Check the cable connection. Please contact Fuji Electric if communication errors happen frequently.

## 7. Maintenance

Check the dosimeter setting device as specified below to ensure its performance.

Check item	Procedure
External Appearance	Visual check for any foreign objects such as dirt or dust in USB port. Check every six months, or every time communication error happens.
Cable connection	Check any looseness on connection of cables. Check every six months, or every time communication error happens.
Infrared communication	Put dosimeter close to the IR window of the cable and check the communication. Check every six months, or every time communication error happens.