

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**

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

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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
<ul> <li>Display</li> </ul>	: Resolutions 800 $\times$ 600, or more
<ul> <li>Communications Interface</li> </ul>	: USB $\times$ 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



#### 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:

Screen Name	Reference S	ection Function
Start up		
Version Screen	4.2	Display version of the software
Main Menu	4.4	Select function
Dosimeter Settings	4.5	Update operational parameters of the dosimeter
Indication Display	4.6	Display measurement information
Data Trending Mode	4.7	Display some parameters related with trend data acquisition
Table Display	4.7.1	Display trend data in a table format
Graph Display	4.7.2	Display trend data in a graph format
Manual Calibration	4.8	Update calibration factor with direct input
Maintenance Mode	4.9	Perform dosimeter operation checks
System Settings	4.10	Update operating parameter
Client Control No.	4.11	Update client control number
Alarm Settings	4.12	Update alarm threshold (dose/ dose rate)
Counts Readout	4.13	Display internal counts value
Maintenance Settings	4.14	Update the parameter for indicator and buzzer

# 4.2 Starting the Software Operation

(1) Select the icon [DOSE-i]



#### Software icon

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

💂 DOSE-i Series-Version		×
<b>Dosimeter Setting To</b> COM Port	ool (DOSE-i Too Ver. 1	<mark>/)</mark> .05
COM4 Prolific USB-to-Se	erial Comm Por	t 🛛
Device Display     Enter Setting Device No.	No. 01	
	Exit Star	-t

#### Version screen

		For COM port number that IR cable is connected with, please check the
$\triangle$	CAUTION	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	Communication with dosimeter has not been	
	Reader	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

🚊 DOSE-i Series-Menu		_ 🗆 🗙
Dosimeter Settings	Client Control No.	03/11/2015 17:21
Indication Display	Alarm Settings(Dose/Dose rate)	Message Processed successfully
Data Trending Mode	Counts Readout	
Manual Calibration	Maintenance Settings	
Maintenance Mode		
System Settings		
		COM_End
		Exit

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>

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

COM_End	Finishes the communication with a dosimeter.	
Exit	Closes the dosimeter setting device software.	
Read again*	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

DOSE-i Series-Dosimeter Settings		
View Client Control No. 121845	Setting	03/11/2015 17:27
Setting	Return Reminder	Processed
Alarm Duration 1 🗾 min	Readout Trend blank: OFF check: ON	successfully
Timer Set 0009 hr 30 min		
Runtime Display Countup		
Monitoring Beep Step		
0.002 💌 mSv		
Data Trending Interval		
1 min 💻		
Trend Format 0.000 💌 mSv		
Self Check Mode OFF count		
Self Check Duration		COMEnd
9 💌 min	v	Vrite Menu

## 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	
Client Control No.	Dosimeter ID. number	000001 to 999999

## <Setting>

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

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

COM_End	Finishes the communication with a dosimeter.	
Write	Writes the data displayed on the screen to the dosimeter by infrared	
	communication.	
Menu	Goes back to the Main Menu Screen: Fig. 4-1	
Read again*	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

💂 DOSE-i Series-Indication Display		_ <b>_</b> ×
View Client Control No. 121845	View Hp(10) Accumulated 0.00003 mSv	03/11/2015 17:29
Timer Set 9 hr 30 min Gamma Calib.Factor 100 %	Runtime 0 hr 27 min	Message Processed successfully View Unit mSv
		COM_End
	Re	ad Menu

Fig. 4-3 Indication Display Screen

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

#### <View>

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

COM_End	Finishes the communication with a dosimeter.		
Read	Starts reading out for data display. This will be executed from		
	initializing the already established communication even during		
	transmission.		
Menu	Goes back to the Main Menu Screen: Fig. 4-1		
Read again*	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

💂 DOSE-i Series-Data Trending Mod	e	_OX
View	View	03/12/2015 11:16
Client Control No. 121845	Hp(10) Accumulated Dose	Transmission
Data Trendings 72		Message
Data Trending Interval		Processed successfully
Trend Format 0.000 mSv		
		Please set the macro effectively when you display the Excel graph.
Trend Display Selection		
Table Display		
Graph Display	Runtime 1 hr 12 min	
Please specify the ray kind on the table screen when you	Unit mSv	COMEnd
display the graph.		Read Menu

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

Table Display	Reads out the Data Trend, and then goes to the next Screen: Fig. 4-4-2	
Graph Display	Reads out the Data Trend, and then goes to the next Screen: Fig. 4-4-3	
COM_End	Finishes the communication with a dosimeter.	
Read	Starts reading out for data display. This will be executed from initializing	
	the already established communication even during transmission.	
Menu	Goes back to the Main Menu Screen: Fig. 4-1	
Read again*	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.	

	The prompt window <communication error=""> will appear during data readout if a new trend does not exist.</communication>
	Please wait until a data trending interval set up in the dosimeter has
	passed, and then start data readout.

# 4.7.1 Table Display

8.0	🚊 DOSE-i Series-Data Trending Mode						
-D C H	Display of trend data Client Control No. 010301 Number 4 Hp(10) Accumulated Dose Trend Interval 1min 0.00001 mSv 1min						
1	No.	Elapsed time	Dose Interval (mSv)	Accumulated Dose (mSv)	Message		
	1	00:01:00	0.000	0.000	Processed successfully		
	2	00:02:00	0.000	0.000			
	3	00:03:00	0.000	0.000	Please set the n	nacro	
	4	00:04:00	0.000	0.000	effectively when the Excel graph.	you display	
					_		
				Back		OM_End	

Fig. 4-4-2 Table Display Screen

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

<view></view>	
---------------	--

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

COM_End	Finishes the communication with a dosimeter.
Back	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.

End	Closes this Graph Display window.
-----	-----------------------------------

## 4.8 Manual Calibration

DOSE-i Series-Manual Calibration		×
View Client Control No. 121845 Gamma Calib. Factor 100 % Gamma Accumulated Dose 0.01496 mSv It indicates to 5th rank below the decimal point	Setting Gamma Calib. Factor 100 % MAX-140 MIN-60 (step: 1)	03/12/2015 11:25 Transmission Message Processed successfully
	۷	COM_End Vrite Menu

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	
Client Control No.	Dosimeter ID. number	000001 to 999999
Gamma Calib. Factor	Calibration factor read out from a	60 to 140%
	dosimeter	(1 Pitch)
Gamma Accumulated	Accumulated dose	0.00000 to 9999.99999 mSv
Dose		

#### <Setting>

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

COM_End	Finishes the communication with a dosimeter.
Write	Writes the date displayed on the screen to the dosimeter by
	infrared communication.
Menu	Goes back to the Main Menu Screen: Fig. 4-1
Read again*	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

DOSE-i Series-Maintenand	e Mode		
		03/12/2	015 11.26
View	Setting	Messag	e
Client Control No.	21845 Maintenance	Proces	sed sfully
			COM End
		Vvrite	Ivienu

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	
Client Control No.	Dosimeter ID. number	000001 to 999999

# <Setting>

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

COM_End	Finishes the communication with a dosimeter.
Write	Writes the data displayed on the screen to the dosimeter by infrared
	communication.
Menu	Goes back to the Main Menu Screen: Fig. 4-1
Read again*	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

DOSE-i Series-System Settings		03/12/2015 11:27
Setting Return Remind Time 10 min MIN-1 MAX-39(step:1)		Transmission Message Processed successfully
Setting Round Off Dose Health Check for Gamma blank: OFF check: ON blank:All check: Gamma only	Setting Dosimeter Unit OFFSy ONrem	View Client Control No. 121845
		COM_End

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	
Client Control No.	Dosimeter ID. number	000001 to 999999

## <Setting>

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

COM_End	Finishes the communication with a dosimeter.
Write	Writes the data displayed on the screen to the dosimeter by infrared
	communication.
Menu	Goes back to the Main Menu Screen: Fig. 4-1
Read again*	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

DUSE-I Series-Client Contr	ol Number	
View Client Control No. 1218	Setting Client Control No. 121845	03/12/2015 1128 Transmission Message Processed successfully
1218	121845 MAX-999999 (step: 1)	successfully
		COM End

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	
Client Control No.	Dosimeter ID. number	000001 to 999999

#### <Setting>

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

COM_End	Finishes the communication with a dosimeter.
Write	Writes the data displayed on the screen to the dosimeter by infrared
	communication.
Menu	Goes back to the Main Menu Screen: Fig. 4-1
Read again*	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)

🛿 DOSE-i Series-Alarm Settings (Dose	e/Dose rate)		
View Client Control No.	121845		03/12/2015 11.30
Setting Hp(10) Dose Alarm	7.000 mSv	Setting Name (alphanumeric 8 characters)	Processed successfully
Hp(10) Dose Rate Alarm	4.00 mSv/h		
Hp(10) pre Dose Alarm	0.300]mSv		
Hp(10) pre Dose Rate Alarm	2.00 mSv/h		COM_End Write
			Menu

#### 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	
Client Control No.	Dosimeter ID. number	000001 to 999999

## <Setting>

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

COM_End	Finishes the communication with a dosimeter.
Write	Writes the data displayed on the screen to the dosimeter by infrared
	communication.
Menu	Goes back to the Main Menu Screen: Fig. 4-1
Read again*	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

DOSE-i Series-Counts Readout	
	03/12/2015 11.31
	Transmission
View 121845	Message
	successfully
Count Data View	
Hp(10)	
	COM End
	Read Menu

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		
Client Control No.	Dosimeter ID. number	000001 to 999999	
Hp(10) Low	Count of Hp(10) Low	000000 to 999999 count	
Hp(10) Mid	Count of Hp(10) Mid	000000 to 999999 count	
Hp(10) High	Count of Hp(10) High	000000 to 999999 count	

COM_End	Finishes the communication with a dosimeter.
Read	Starts reading out for data display. This will be executed from initializing
	the already established communication even during transmission.
Menu	Goes back to the Main Menu Screen: Fig. 4-1
Read again*	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

💂 DOSE-i Series-Maintenanc	e settin	s			_ II X
				03/12/2015	11:32
View Client Control No.			121845	Message Processed	sion
Software version				successfully	
2.14,2014/01/14 rer	n				
Setting items		-			
Buzzer Volume	04	Hi			
Backlight Setting	02	30sec	-		
Power On Reset	00	OFF	•		
Brightness Control	01	Dark	•		
Operation Time Alarm	00	OFF	-		
Configuration Mode	00	ON	•	Read	again
				<u></u>	
				Vvi	rite
				Me	enu

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	
Client Control No.	Dosimeter ID. number 000001 to 999999	
Software version	Software version of dosimeter	N/A

# <Setting>

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

Read again	Re-starts communication with a dosimeter. If it starts communication by
	establishing transmission, it processes data read out automatically.
Write	Writes the data displayed on the screen to the dosimeter by infrared
	communication.
Menu	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 communication="" establishing=""></during>	Check the cable connection.
"Reading unit, or cable abnormal"	
<during process="" status=""></during>	Check the cable connection.
"No response"	

#### - During data readout from a dosimeter:

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

-During writing of operational parameters to the dosimeter.

Error timing and error message	Suggested solution
<during process="" writing=""></during>	Process reading out, first
"Dosimeter Not Communicating"	
<during process="" writing=""></during>	Process reading out, first
"Dosimeter communication error"	
<during process="" writing=""></during>	Process reading out, first.
No response	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
"Dosimieter Not Communicating"	Start reading process, first.
"Cannot write"	

#### - During attempting to read out trend data:

Error message	Suggested solution
"Dosimieter 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	IR communication cable may not be connected properly.
communication.	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	Visual check for any foreign objects such as dirt or dust in USB port.
Appearance	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	Put dosimeter close to the IR window of the cable and check the
communication	communication.
	Check every six months, or every time communication error happens.