

# MOVERIO Pro

## BT-2000/2200

### Developer's Guide

**SEIKO EPSON CORPORATION**

## Revision history

Revision	Item	Mainly revised content
<b>Rev.1.3</b>	4.1	Adding caution when changing key assign
	6	Adding EDof mode and auto exposure function
	11	Adding GPS Assist
<b>Rev.1.4</b>	-	Adding description to support BT-2200
<b>Rev.1.5</b>	2.4	Revised Vendor ID setting
	5.7	Changed the position of "Default supported words"
	8.10	Adding "Recording using Bluetooth headsets"

- Cautions

BT-2000 and BT-2200 use common system software. This document will be described hereafter by only BT-2000, but please be aware that it is also common to BT-2200.

Note the following points when using this guide.

---

The content of this guide may change without prior notice.

1. Reprinting part or all of this guide without prior permission from Seiko Epson, or reprinting for any other purposes is strictly prohibited.
2. Programs and usage instructions used in this guide are for reference only, Seiko Epson cannot be held responsible for any infringements (including industrial property rights) or damage caused to third parties. Furthermore, this guide does not imply consent to licensing for third parties or industrial property rights for Seiko Epson.
3. This document does not relate to products that require a high level of reliability, such as life support equipment. Epson accepts no responsibility if this product is used for such circumstances.

©Seiko Epson Corporation 2017. All right reserved.

# Contents

<b>1. Introduction</b>	<b>1</b>
1.1. Product Summary and Functions	2
1.2. Main System Specifications	3
1.3. Basic Information for App Development	4
1.4. Other Main Functions	5
<b>2. Developing Apps</b>	<b>6</b>
2.1. Pre-Caution for Developing Apps	7
2.2. Summary of Developing Apps	8
2.3. Introduction to the Android SDK	9
2.4. ADB driver settings	12
2.5. Connecting the BT-2000 to a computer	18
2.6. Including the SDK provided by EPSON	20
<b>3. Display control</b>	<b>24</b>
3.1. Display control summary	25
3.2. Full screen display function	26
3.3. Switch between 2D/3D display function	27
3.4. Backlight control	29
3.5. Mute function	30
3.6. See-through function	32
<b>4. UI control</b>	<b>33</b>
4.1. UI control summary	34
4.2. Application interface list	38
4.3. Application interface details	39
<b>5. Voice commands</b>	<b>41</b>
5.1. Pre-cautions for developing Voice commands Apps	42
5.2. Voice commands summary	43
5.3. Application interface function summary	44
5.4. Application interface list	45
5.5. Application interface details	47

5.6.	Sample code	55
5.7.	Default Supported Words	57
5.8.	Others	58
<b>6.</b>	<b><i>Camera control</i></b>	<b>65</b>
6.1.	Pre-cautions for developing camera Apps	66
6.2.	Function summary	67
6.3.	Available parameters	68
6.4.	Image organization and format	69
6.5.	Depth data characteristics	70
6.6.	Application interface function summary	72
6.7.	Application interface list	73
6.8.	Application interface details	75
6.9.	Depth Information Acquisition Flow Details	105
6.10.	Sample Code	107
6.11.	Remarks	110
6.12.	Android standard camera API Camera.Parameters Class	111
<b>7.</b>	<b><i>Sensor control</i></b>	<b>114</b>
7.1.	Sensor control summary	115
7.2.	Using the sensor	118
7.3.	Using SensorEventListener	119
7.4.	Sample code	121
<b>8.</b>	<b><i>Bluetooth/BLE</i></b>	<b>122</b>
8.1.	Pre-cautions for developing Apps using BLE	123
8.2.	Summary	124
8.3.	Usage method	126
8.4.	Remarks & Restrictions for BLE App Development	132
8.5.	Import module	133
8.6.	Application interface list	134
8.7.	Supported GATT procedure table	136
8.8.	Application interface details	137
8.9.	BLE Processing Sample Code	169
8.10.	Recording using Bluetooth headsets	179
<b>9.</b>	<b><i>Power control</i></b>	<b>180</b>

9.1.	Power control summary	181
9.2.	Acquiring Battery Information	182
	<b><i>10. Self-diagnostic function</i></b>	<b><i>183</i></b>
10.1.	Self-diagnostic function	184
	<b><i>11. GPS Assist</i></b>	<b><i>187</i></b>
11.1.	GPS Assist function summary	188
11.2.	Precaution and limitation of using /developing GPS Assist function	189
11.3.	How to use	190
11.4.	Setting method	191
11.5.	Application interface function summary	192
11.6.	Application interface detail	193
11.7.	How to use API for GPS assist	195