

Instruction Manual



1WMPD4004532

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- Turn off the power when the operation is abnormal.
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Introduction

RA3100 Viewer is computer software for displaying the waveforms of recorded data exported to external media from our data acquisition product OMNIACE RA3100.



Symbols in This Manual

Terms and symbols used in this manual denote as follows.

Note	This indicates a condition or practice that could result in converted files being overwritten if the software is misused due to neglect of a Note, as well as measurement limitations and additional explanations.
	Reference page
Ъ	A tap is the act of lightly touching an item such as a key displayed on the screen with a finger. Example Used for selecting or setting screen keys.
key	Enclosed characters represent a key name on the operation panel. Example OK key
【 】key	Text enclosed in [] indicates touch panel keys displayed on the screen. Example [CH] key
[] screen	Text enclosed in [] indicates the text of items on the screen. Example [Main] screen

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1. Environment

This section describes the system requirements and installation procedure.

1.1. System Requirements

Item	Contents
	Windows 10 x64 (64-bit) (Ver1809 or later)
Operating system	Japanese, English, Korean, Chinese (Traditional)
	For other languages, the software is displayed in English.
CPU	Intel Core i series
Memory	1 GB or more of free memory
Display	Resolution of 1280 x 1024 or higher

Perform installation and execute the RA3100 Viewer using an **account with administrator privileges**. The RA3100 Viewer does not support multiple accounts. It does not operate with accounts other than the account used for installation.

1.2. Setup Method

Download the RA3100ViewerSetup_vx.x.x.zip file from our website. Japan: https://www.aandd.co.jp/support/soft_download/industrial.html Overseas: https://www.aandd.jp/support/industrial/soft_download.html

1.2.1. Windows Settings

Windows settings must be configured before installing the software. Click the 🔯 button in the Windows Start menu.



The [Windows Settings] screen is displayed. Click [Update & Security] to open the [Update & Security] screen.

Settings					- 🗆 ×
		W	indows Settings		
		Find a setting		Q	
므	System Display, sound, notifications, power		Devices Bluetooth, printers, mouse		Phone Link your Android, iPhone
۲	Network & Internet Wi-Fi, airplane mode, VPN	¢	Personalization Background, lock screen, colors	E	Apps Uninstall, defaults, optional features
8	Accounts Your accounts, email, sync, work, family	A≠	Time & Language Speech, region, date	8	Gaming Game bar, captures, broadcasting, Game Mode
Ⴇ	Ease of Access Narrator, magnifier, high contrast	۵	Privacy Location, carnera	C	Update & Security Windows Update, recovery, backup
Q	Search Language, permissions, history				

The settings differ according to the version of Windows.

Enable [Developer Mode] or select [Sideload apps].

If [Developer mode] is set instead of [Sideload apps], [Developer mode] is acceptable.

← Settings	×
命 Home	For developers
Find a setting	These settings are intended for development use only.
Update & Security	Learn more
Граскир	Developer Mode
P Troubleshoot	Install apps from any source, including loose files.
윤 Recovery	On
 Activation 	Device Portal
齐 Find my device	Turn on remote diagnostics over local area network connections.
For developers	Off Off
😸 Windows Insider Program	Device discovery
	Mala una device visible to UCB anno sticas and una la sel activada
← Settings	×
ப் Home	For developers
Find a setting ρ	Use developer features
Update & Security	These settings are intended for development use only. Learn more
C Windows Update	O Microsoft Store apps
曲 Delivery Optimization	Only install apps from the Microsoft Store.
Windows Security	Sideload apps Install apps from other sources that you trust, like your workplace.
→ Backup	O Developer mode
P Troubleshoot	Install any signed and trusted app and use advanced development features.
S Recovery	
 Activation 	Enable Device Portal
占 Find my device	Ium on remote diagnostics over local area network connections. Off
11 For developers	Device discovery
题 Windows Insider Program	Make your device visible to USB connections and your local network.
	Off Off

The [Turn on developer mode?] dialog is displayed. Click the [Yes] button.

If you selected [Sideload apps], the [Turn on app sideloading?] dialog is displayed.



1.2.2. Extracting the ZIP File

Use the standard software of Windows 10 or other compression/extraction software to extract the file. The procedure for using the standard software of Windows 10 is indicated below.

Right-click the ZIP file in Explorer, and select [Extract All].

 RA3100ViewerSetup_vx.x.x.zip
Open
Open in new window
Extract All
Pin to Start

The [Extract Compressed (Zipped) Folders] screen is displayed.

Specify the destination by entering a path in the area above indicated in red or clicking the [Browse] button.

Extract Compressed (Zipped) Folders Select a Destination and Extract Files Files will be extracted to this folder: C:\AND\temp Browse Show extracted files when complete Show extracted files when complete Select a destination Select a destination ← → ← ↑ → This PC → Local Disk (C:) → AND Organize New folder > ■ Videos > ■ Videos > ■ Videos > ■ Videos > ■ Folder: AND Folder:					
Select a Destination and Extract Files Files will be extracted to this folder: C:\AND\temp Bgowse Show extracted files when complete Show extracted files when complete Select a destination	Extract Compressed (Zipped) Folders				
Files will be extracted to this folder: C:\AND\temp Show extracted files when complete Show extracted files when complete Select a destination	Select a Destination and Extract Files				
C:\AND\temp Bgowse Show extracted files when complete Show extracted files when complete Select a destination	Files will be extracted to this <u>f</u> older:				
Show extracted files when complete Show extracted files when complete Extract Cancel Select a destination ← → · ↑ → This PC → Local Disk (C:) → AND · ♡ Search AND Organize • New folder Folder Name Name Date modified Typ No items match your search. Folder: AND Citer • Local Disk (C:) Folder: AND Folder: A	C:\AND\temp			Browse	
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Extract Cancel Select a destination > ← → ~ ↑ → This PC → Local Disk (C:) → AND ✓ Organize ▼ New folder Ø > Music ✓ > Pictures Name Date modified Typ > Pictures No items match your search. ✓ ✓ Folder: AND ✓ ✓ ✓					
Extract Cancel Select a destination > ← → ~ ↑ > This PC > Local Disk (C:) > AND > Organize ▼ New folder > > Music > > Pictures Name > Pictures No items match your search. Y i= Local Disk (C:) _ AND ✓ <					
Extract Cancel Select a destination > ← → ↑ > Search AND > Organize ▼ New folder Image: Im					
Extract Cancel Select a destination > ← → ↑ > > Search AND > Organize ▼ New folder ? ? Search AND > > Music > Name Date modified Typ > Pictures > No items match your search. ✓ AND ✓					
Extract Cancel Select a destination > ← → < ↑ > This PC > Local Disk (C:) > AND > © Organize ▼ New folder > > Music > > Pictures > > Wideos ✓ ✓ ✓ </th <th></th> <th></th> <th></th> <th></th> <th></th>					
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Extract Cancel Select a destination > ← → ~ ↑ > This PC > Local Disk (C:) > AND > Organize ▼ New folder © > Music > > Pictures Name Date modified > Wideos ✓ Image: AND ✓ Folder: AND ✓					
Extract Cancel Select a destination Organize New folder <tr< th=""><th></th><th></th><th></th><th></th><th></th></tr<>					
Extract Cancel Select a destination > ← → ~ ↑ > This PC > Local Disk (C:) > AND > Organize ▼ New folder > > Music > > Pictures > > Videos ✓ Image: AND ✓ ✓ Folder: AND					
Extract Cancel Select a destination > ← → ~ ↑ → This PC → Local Disk (C:) → AND > Organize ▼ New folder > Organize ▼ New folder > > Music > > Pictures > Wideos ✓ Search AND ✓ Name No items match your search. ✓ Folder:					
Extract Cancel Select a destination > ← → ~ ↑ > This PC > Local Disk (C:) > AND > Organize ▼ New folder > Organize ▼ New folder > > Music > > Pictures > Wideos ✓ ✓ Folder: AND					
Select a destination ← → ~ ↑ → This PC → Local Disk (C:) → AND ↓ → Search AND ↓ Organize ▼ New folder					
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 ← → ~ ↑ → This PC > Local Disk (C:) > AND ↓ ♂ Search AND Organize ▼ New folder ♪ Music > Pictures > Pictures > Wideos ↓ Local Disk (C:) AND ↓ < 			<u>E</u> xt	tract	Cancel
 ← → · ↑ → This PC → Local Disk (C:) → AND · 0 Search AND · 0 Organize · New folder ♪ Music ▶ Pictures > ₩ Videos · ↓ Local Disk (C:) AND · Collect 5 time 	Select a destination		Ēx	tract	Cancel
Organize New folder > Music Name > Pictures Date modified > Videos No items match your search. * Local Disk (C:) Videos Folder: AND	Select a destination		Ēx	tract	Cancel
 Music Pictures Videos Local Disk (C:) AND Collect: AND 	Select a destination ← → ~ ↑	- ح ات	<u>Ex</u> Search AND	tract (Cancel > م
Fictures No items match your search. Image: AND Folder: AND	Select a destination ← → ~ ↑	~ Č	<u>E</u> x Search AND	tract (Cancel > p
No items match your search. Videos Local Disk (C:) AND Folder:	Select a destination ← → ~ ↑ → This PC > Local Disk (C:) > AND Organize → New folder	- ت م	Ex Search AND	tract (Cancel > P ?
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	Select a destination ← → ~ ↑ → This PC → Local Disk (C:) → AND Organize → New folder > Music Name > ■ Pictures	、 で へ No items mate	Ex Search AND Date	tract (Cancel بر بم عرب
AND v <	Select a destination ← → ~ ↑ → This PC → Local Disk (C:) → AND Organize ▼ New folder > Music > ➡ Pictures > ➡ Videos	✓ ひ ∧ No items mate	Ex Search AND Date ch your search.	tract (Cancel × P Type
Folder: AND	Select a destination ← → ~ ↑ → This PC → Local Disk (C:) → AND Organize ▼ New folder > Music > Pictures > Wideos ~ Local Disk (C:)	・ No items mate	Ex Search AND Date ch your search.	tract (modified	Cancel × P ? Type
Folder: AND	Select a destination ← → ~ ↑ → This PC → Local Disk (C:) → AND Organize ▼ New folder > Music > Pictures > Wideos * Local Disk (C:) AND	、 No items mate	Ex Search AND Date Ch your search.	tract (modified	Cancel به به ع
	Select a destination ← → ~ ↑ → This PC → Local Disk (C:) → AND Organize ▼ New folder > Music > Pictures > Wideos ~ ↓ Local Disk (C:) ↓ AND ↓ Videos ~ ↓ Cocal Disk (C:) ↓ AND	、 No items mate	Ex Search AND Date ch your search.	tract (modified	Cancel > ۶ آلار الار
	Select a destination ← → ~ ↑ → This PC → Local Disk (C:) → AND Organize ▼ New folder > Music > Pictures > Wideos * Local Disk (C:) AND Videos * Local Disk (C:) AND Videos	、 No items mate	Ex Search AND Date ch your search.	tract (The second seco	Cancel > P Type

Click the [Extract] button to extract the files.

← → × ↑ 📙 « Local Disk (C:) >	AND → temp v ♂ Se
> 🁌 Music	^	Name
> 📰 Pictures		🐻 RA3100ViewerSetup_v1.1.2.exe
> 📑 Videos		
🛩 🏪 Local Disk (C:)		
🗸 📙 AND		
📙 temp	~	<

1.3. Installation Method

Double-click the RA3100ViewerSetup_vx.x.x.exe file extracted in the previous step.

The [Select Setup Language] screen is displayed. Click the [OK] button.

Select S	etup Language	\times
18	Select the language to use during the installation.	
	English	~
	OK Cancel	

To create a shortcut on the desktop, select [Create a shortcut on your desktop], and click [Next].

🐻 Setup - RA3100Viewer	-		×
Select Additional Tasks Which additional tasks should be performed?		Q	
Select the additional tasks you would like Setup to perform while ins RA3100Viewer, then click Next.	talling		
Create a shortcut on your desktop			
Ne	xt >	Can	cel

Click the [Install] button to start installation.

When the [Completing the RA3100Viewer Setup Wizard] screen is displayed, installation is complete. Select [Yes, restart the computer now], and click [Finish].

🕞 Setup - RA3100Viewer				-		×
Ready to Install Setup is now ready to begin ins	talling RA3100Vi	iewer on yo	ur compute	er.	6	
Click Install to continue with the change any settings.	installation, or	dick Back if	you want	to review	/ or	
Additional tasks: Create a shortcut on your	desktop				^	
ć					>	
		< <u>B</u> ack	Inst	all	Can	cel



2. Functions

Operate the playback function of the RA3100 main unit (to perform operations such as displaying waveforms and searching) on a Windows PC.

For details on the playback function, see the instruction manual included with the main unit.

2.1. Differences between the RA3100 and RA3100 Viewer

An example of displaying the waveform for the same recorded data with the RA3100 and RA3100 Viewer is indicated below.

The differences in functions are as follows.

- (1) The RA3100 Viewer has a title bar and hamburger button on the top of the screen.
- (2) The touch panel and jog dial operations of the RA3100 are performed using the mouse with the RA3100 Viewer.



2.1.1. Hamburger Button

The part circled in red on the top left of the [RA3100 Viewer] screen is called a "hamburger button". Click it to display the menu.

Select Record Folder	
Maariaa	
version	
Close	ろうざき

Menu	Description	
Select Record Folder	Selects the recorded data folder.	
	For details, see "3.5. Configuring the Recorded Data Folder".	
Version	Displays the version information of this software.	
Close	Closes the RA3100 Viewer.	

2.2. Mouse Operations (Used as Substitute for the Touch Panel and Jog Dial)

2.2.1. Basic Operations

The Ctrl, Shift, and Alt keys on the keyboard can be combined with mouse wheel operations to configure settings and move or enlarge/reduce the waveform.

Press the Z key at the same time to reduce the step for updating. (This enables fine adjustment.)

- Example 1) Enlarging the waveform X axis with fine adjustment Press the Ctrl + Z keys and rotate the mouse wheel up
- Example 2) Moving the waveform Y axis with coarse adjustment Press the Alt key and rotate the mouse wheel down

Note

U When the waveform cannot be moved, it means that there is no data that can be displayed.

Action	Mouse operation and behavior
Changing a setting	Click the CH button on the right side of the [RA3100 Viewer] screen to
(mouse wheel)	display the channel settings. Click a setting to change the frame to orange
	and enable the setting value to be changed using mouse wheel operations.
	For example, selecting [Color] enables the color to be changed and selecting
	[Disp. pos.] enables the ratio number of the display width to be changed.
	Color Color
Changing a setting (dialog)	Right-click a setting to display the dialog corresponding to that setting.
	- Selection palette dialog
	Select a setting value to reflect the setting and close the dialog. Click
	outside the dialog to return without changing the setting.
	- Number entry dialog
	Operate the buttons on the screen or perform keyboard entry to enter a
	number. When performing keyboard entry, press the [Enter] key to reflect
	the setting value and close the dialog.
	Disp. pos. 36 %

2.Functions - 2.2.Mouse Operations (Used as Substitute for the Touch Panel and Jog Dial)

Action	Mouse operation	on and behavior
Changing the X axis	Ctrl key + rotate mouse wheel up:	Enlarge scale
scale of the waveform	Ctrl key + rotate mouse wheel down:	Reduce scale
Changing the Y axis	Shift key + rotate mouse wheel up:	Enlarge scale
scale of the waveform	Shift key + rotate mouse wheel down:	Reduce scale
Moving the waveform	Rotate mouse wheel up:	Move left
in the X axis direction	Rotate mouse wheel down:	Move right
Moving the waveform	Alt key + rotate mouse wheel up:	Move up
in the Y axis direction	Alt key + rotate mouse wheel down:	Move down
	Click the cursor A or B mark above the	e waveform area to change the cursor
	line to orange. The specified cursor lin	e can be moved by operating the
	mouse wheel.	
	Rotate mouse wheel up:	Move left
	Rotate mouse wheel down:	Move right
Moving the cursor	A B	
	You can also drag the specified cursor	line left or right to move it.



_

3. Usage Method3.1. Flow of Operations 3.

	Overview	Reference
	This operation is performed on the RA3100 main unit.	"3.2. Copying Recorded
Operation (1)	The specified recorded data is copied to a USB stick or	Data from the RA3100 to a
	an SD memory card on a dedicated operation screen.	USB Stick"
Operation (2)	This operation is performed on the RA3100 main unit. The operator inserts the USB stick or SD memory card into a Windows PC and manually copies the RA3100 folder in Explorer. Or, executes the software on the USB stick without copying the files.	"3.3. Copying Recorded Data on a USB Stick to a Windows PC"
Operation (3)	Start the RA3100 Viewer.	"3.4. Starting the Software"
Operation (4)	Specify the RA3100 folder from operation (2).	"3.5. Configuring the Recorded Data Folder"
Operation (5)	Select the data to replay from the recorded data.	"3.6. Specifying Replay Data"
Operation (6)	Perform operations such as enlarging and moving the waveform.	"3.7. Replay Function and Operations"
Operation (7)	This section describes the procedure for copying the waveform image to create a report.	"3.8. Capturing and Printing Waveform Images"
Operation (8)	You can change the waveform position and waveform	"3.9. Saving Display
	color and overwrite the settings.	
Operation (9)	Closes the RA3100 Viewer.	"3.10. Closing the RA3100 Viewer"

3.2. Copying Recorded Data from the RA3100 to a USB Stick

Connect external media (such as an SD memory card or USB stick) to the "3.2.1. RA3100 Main Unit".

Tap the [Import/Export] key on the bottom right of the [Record management] screen to display the external media selection dialog and select the target external media.

Ple	ase select	SD card or USB	k.
SD card			\sim
	ок	Cancel	

Tap the [OK] key to switch to the [Import/Export] screen.

atorna	storago			SD care	1		Recorded data list on external media
Choice	Data name	Date/Time		Choice	Data name	Date/Time	
	Environmental test25	01/22/2021 02:01:18 PM			Environmental test25	01/22/2021 02:01:18 PM	
	Environmental test26	01/22/2021 02:03:18 PM			Environmental test26	01/22/2021 02:03:18 PM	
	Environmental test27	01/22/2021 02:05:18 PM			Environmental test27	01/22/2021 02:05:18 PM	
	Environmental test28	01/22/2021 02:07:18 PM			Environmental test28	01/22/2021 02:07:18 PM	
	Environmental test29	01/22/2021 02:09:18 PM	≪ Import ≪				
	Environmental test30	01/22/2021 02:11:18 PM					
	Environmental test31	01/22/2021 02:13:18 PM					
	Environmental test32	01/22/2021 02:15:18 PM	≫ Export ≫				
	Environmental test33	01/22/2021 02:17:18 PM					
	Environmental test34	01/22/2021 02:19:18 PM					
	Environmental test35	01/22/2021 02:21:18 PM	C J				
\checkmark	Environmental test36	01/22/2021 02:23:18 PM					
\checkmark	Endurance test37	01/22/2021 02:26:08 PM					
~	Endurance test38	01/22/2021 02:27:17 PM					

Place a check mark (\checkmark) on the data to back up

Place a check mark () in the selection field of the data to back up and tap the [Export] key in the center to export the recorded data.

Front view SD card slot omniace RA3100 USB USB 144 DVI-D ())))))) AD **Right view**

3.2.1. RA3100 Main Unit

3.3. Copying Recorded Data on a USB Stick to a Windows PC

Connect the USB stick or SD card that the data was copied to in "3.2. Copying Recorded Data from the RA3100 to a USB Stick" to a Windows PC.

Copy the **entire "RA3100" folder** on the USB stick or SD card to a local disk in Explorer.



3.4. Starting the Software

Click the [A&D] - [RA3100Viewer] in the Windows Start menu.



Note

□ The display of the Windows Start menu differs according to the version of Windows and the environment settings.

3.5. Configuring the Recorded Data Folder

Click the hamburger button (circled in red) on the top left of the [RA3100 Viewer] screen. Select [Select Record Folder] from the displayed menu to open the folder selection dialog.

RA3100 Viewer	– 🗆 ×	Select Folder	×
Select Record Folder	6/24/2021 GOLPH MEASURE	$\leftarrow \rightarrow \checkmark \uparrow$ \checkmark « Local Disk (C:) \Rightarrow AND \Rightarrow \checkmark \eth Search AND	م
Version	PLATEACX	Organize 🔻 New folder	== • ?
Close	SSD	h Music A Name Da	ate modified
	MEMORY	Pictures RA3100 20	21/06/24 16:55
	PAUSE PAUSE	📕 Videos	
		🏪 Local Disk (C:)	
	12 TUP	AND	>
		Folder: RA3100	
		Select Folder	Cancel
MOBARL P.P. KT KT PFT SPEETI DATA	kan - Wate Rat - Wate		

Select the RA3100 folder, and press the [Select Folder] button. The selected path is displayed in the title bar on the top of the screen.

```
RA3100 Viewer (C:\AND\RA3100)
```



For information on the RA3100 folder, see "3.3. Copying Recorded Data on a USB Stick to a Windows PC".

3.6. Specifying Replay Data

Click the DATA button on the bottom right of the [RA3100 Viewer] screen.

The recorded data list is displayed.



Select recorded data from the data names on the left to display the recording information on the right. Click the OK button to confirm the data to replay.

Data name	Date/Time		Record	ling info	
xxxxx_Test1	05/01/2021 01:23:56 AM	Data name		xxxx_Test1	
xxxxx_Test2	05/02/2021 01:23:56 AM	Start time	C	15/01/2021 01:23:56 A	м
xxxxx_Test3	05/03/2021 01:23:56 AM	End time	C	15/01/2021 01:23:58 A	м
		PC name		VM_RA3100	
		Version		Ver.1.1.0	
		File size		3.04 MB	
			Printer recording	SSD recording	Memory record
		Sampling speed	-	2ms/div(50kS/s)	-
		Data format	-	NORMAL	-
		Real-time printing	-/-	-	-
		Pre-Trigger	-	-	-
		Points	-	-	-
		Recording blocks	-	-	-/-
			Module co	onfiguration	

Note

The DATA button is displayed when WAVE is displayed as the function on the bottom right of the screen.

Click WAVE to switch the functions in the following order.

	WAVE	\Rightarrow	THUMBNAIL	⇒	CURSOR	⇒	PENREC
--	------	---------------	-----------	---	--------	---	--------

3.7. Replay Function and Operations

The replay function is the same as the RA3100 main unit. See the instruction manual included with the main unit.



Refer to "2.2. Mouse Operations (Used as Substitute for the Touch Panel and Jog Dial)", as there are differences between the input device of the RA3100 main unit and the PC.

3.8. Capturing and Printing Waveform Images

Use the standard Windows capture function. To print captured images, paste the image to an application such as Word or Excel and use the print function of that application.

Capture range	Operation
Entire [RA3100 Viewer]	You can press the Alt + PrintScreen keys with the [RA3100 Viewer]
screen	screen on top to copy the entire screen to the clipboard.
Part of [RA3100 Viewer]	Press the Windows + Shift + S keys to specify a range to copy to the
screen	clipboard.

3.9. Saving Display Settings

The save confirmation dialog is displayed when performing the operation in "3.6. Specifying Replay Data" or "3.10. Closing the RA3100 Viewer".

Click the OK button to overwrite the settings such as the waveform position and waveform color.



3.10. Closing the RA3100 Viewer

Select [Close] from the "2.1.1. Hamburger Button" menu. Or, click [X] on the top right of the [RA3100 Viewer] screen.

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Viewer RA3100

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