RTR-500NW/500AW Introductory Manual

for Use with RTR-601 Series

What can the RTR-500NW/500AW do?

RTR-500NW and RTR-500AW are Base Units equipped with a LAN interface. They can be set up to periodically download recorded data from Remote Units (RTR-601 Series) and automatically send data to an FTP serve



TANDD

(1) Making Initial Settings via "RTR-500W for Windows"

Basic Settings

1. By opening "RTR-500W Settings Utility", the settings window will automatically open.

Base Unit Settings	Current Time	2013-1	11-05 10:58:22	-
Pemote Init Settings	Time Zone	Set Time to Computer Clock	2013-11-05 10:58:26	
Repeater Settings Wireless Route Settings	Auto-Adjustment SNTP Server	OK	2013/11/05 v 10:58:22	×
Clock Settings		•		
Network Settings				

Normally, there is no need to change the network settings. If you wish to use a

Base Unit Settings	DHCP	OFF	
	IP Address	192.168.1.220	
Remote Unit Settings	Communication Port Number	62500	
Repeater Settings	Subnet Mask	255.255.255.0	
	Default Gateway	192.168.1.1	
wireless Route Settings	DNS Server (Primary)	24.92.226.9	
Clock Settings	DNS Server (Secondary)	0.0.0.0	
Network Cettings	Wireless LAN Channel Number	Auto	
inclusion sections.	Wireless LAN SSID	Dokinchan	
E-mail Settings	Security Mode	WPA2-AES	
FTP Settings	Pre Shared Key		
Monitoring / Warning Settings			
Settings for Sending Recorded Data			
Transmission Tests			
Settings Table			

ettings of R	TR-500NW/500AW
nit Name	RTR-500NW_ <serial number=""> or RTR-500AW_<serial number=""></serial></serial>
ssword	password
Settings	DHCP: ON
nication mber	62500

* The Battery Charge Dock (RTR-6BD) needs to be purchased separately.

If the screen does not change after connecting the Remote Unit: The USB driver installation may not have been installed correctly. Please see [Help for Unit Recognition Failure] in RTR-500W for Windows, and check the USB driver.

- **3.** The [Remote Unit Registration] window will appear. Enter the desired Remote Unit Name and click [Register].
- **4.** After registering your Remote Unit, reconnect the USB cable to the Base Unit.
- 5. If you wish to register other Remote Units, repeat procedures 1 to 4.

Making Remote Unit Settings via "RTR-500W for Windows (for RTR-601)"

Remote Unit Clock and Operational Settings

- **1.** From the Start Screen or Start Menu, open "RTR-500W for Windows (for RTR-601)" > "RTR-500W Settings Utility for RTR-601".
- **2.** In the main window, right click the target Base Unit in the device list, and select [Base Unit Settings] in the pop-up menu.

File	Operation H	elp			
	Device Type	Name	Se	erial Number	IP A
LAN	RTR-500NW	RTR-500NW_329C0	07D 32	29C	10.2
LAN LAN	RTR-500NW RTR-500NW	RTR-500NW_Tand Muravama	<u>B</u> ase Unit	Settings	10.2
			<u>D</u> ownload Get Base	d Recorded Data Unit <u>L</u> og	

3. To make or change clock settings, select the target Remote Unit, click [Clock Settings] and make settings.

Clock Settings	23
 Set to Computer Clock 2013/11/05 14:49:31 Set to Specified Time 	Cancel
2013/11/05 🔹 14:49:12 🏝	

4. To make or change operational settings, select the target Remote Unit, click [Properties], make settings and click [Apply].



By setting [Enable Download] to ON here, the Base Unit will automatically download recorded data from the Remote Unit and send via FTP or E-mail to a designated address at the set interval.

5. Make settings for other Remote Units by repeating procedures **3** and **4**.

After completing the above, Remote Units are ready to start recording. Remote Unit Settings can also be changed or added later via LAN.

Installing a Base Unit

If the target Base Unit is connected to a PC, disconnect the USB cable

- 1. (For RTR-500NW Only) Connect a LAN cable to the Base Unit.
- 2. Connect the supplied AC adaptor.



If the DIAG LED remains on or continues blinking, some settings have not been completed or are invalid. For details, please see [Tips LED Lamp Display] printed on the back side of this paper.

- 3. Deploy Remote Unit(s), checking their signal strength. The wireless communication range, if unobstructed and direct, is about 50
- To check the signal strength, see [Tips How to Check the Wireless Signal Strength].

• By using a Repeater, it is possible to extend the wireless communication range. For details, see [Tips Extending Wireless Communication Range with Repeater(s)].



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Setting Route Settings tings Settings tings igs

Tips LED Lamp Display



How to Check the Wireless Signal Strength

heck the wireless signal strength between the Base Unit and Remote Unit, use R-500W Settings Utility.

k the [Operations] menu > [Network Search].

few seconds, the Base Unit set in ${\mathbb T}$ of Before Using will appear in the address list nt click the target Base Unit, and select [Base Unit Settings] in the pop-up menu. er the LAN password and click [OK].



Tips Extending Wireless Communication Range with Repeater(s)

If you wish to increase the wireless communication range or increase the stability of communication between a Base Unit and Remote Unit(s), you can add Repeater(s) and make the necessary wireless route settings.

Adding a Repeater

1.	In the RTR-500W Settings Utility,	RTR-500NW_TandD - RTR-500W Settin	ngs Utility (LAN)	- D - X-
	open the [Repeater Settings]	Base Unit Settings	Group Name Repeater Number Communication Fr Serial Number	
		Remote Unit Settings		
	menu.	Wireless Route Settings		
0	Click [Deviator] With a LICD apple	Clock Settings		
۷.	Click [Register]. With a USB cable	Network Settings		
	connect the RTR-500 you wish to	E-mail Settings		
	register as a Repeater to your	FTP Settings		
	register as a nepeater to your	Monitoring / Warning Settings		
	computer.	Settings for Sending Recorded Data		
		Transmission Tests		
		Settings Table		
		C	Register Delete Properties	
			Determ This deletes the selected Repeater. Any Repeater which has been deleted will	also be erased
• \	When connecting a device for the first tin	ne, the USB driver ir	nstallation will start automatically	<i>.</i>
2	The ID are store Devictorial or index			

3. The [Repeater Registration] window will appear, wherein you can select the Group Name

to which you wish to add the Repeater and make any necessary name changes.

Repeater Registration RTR-500		×
Serial Number	529A	
Group Name	Group1	
Repeater Number	1	
Communication Frequency Channel	0	

4. After having completed all entries, click [Register]. The settings will be sent to the Repeater and the registered Repeater will appear in the Repeater Registration List.

Base Unit Settings	Group Name	Repeater Number	Communication Fr	Serial Number
Remote Unit Settings	Group1	1	0	529A
Repeater Settings				

- 5. Place the Remote Unit(s) and Repeater(s) in their actual positions.
- 6. Select the [Wireless Route Settings] Menu and confirm the wireless communication route for the Base Unit - Remote Unit(s). Perform the signal strength test to confirm that communication is possible between the Base Unit, Repeater and Remote Unit.

Wireless Route Settings

It is possible to make changes to the route of wireless communication taking into consideration the actual locations of and signal strength between the registered Remote Units and Repeaters.

- 1. In the RTR-500W Settings Utility, open the [Wireless Route Settings] Menu.
- **2.** The Wireless Route can be changed by dragging and dropping the Remote Unit and Repeater icons.
 - RTR-500NW_TandD RTR-500W Settings Utility (LAN) Base Unit Settings Group1 👻 Base Unit Remote Unit Settings Repeater 1 Battery level is low. Repeater Settings Wireless Route Setting Init02 Batterv level is low. Clock Settings
- **3.** Click [Apply].
 - Perform the signal strength test to confirm the signal strength between the Base Unit, Repeater and Remote Unit.
- Do not connect more than one Repeater (RTR-500) to your computer at one time.
- After changing the wireless route, make sure to once again test signal strength. • It is not possible to move Remote Units or Repeaters to a different group's wireless route. If you wish to move a unit to another group, you must first initialize that unit or delete it from the group it belongs to and re-register it to the new group.
- For details, refer to [RTR-500W Settings Utility Help] > [How to Use] > [Advanced Settings] > [Wireless Route Settings].



Help for Unit Recognition Failure:

When the connected USB device is not recognized (and the screen does not change in $\begin{pmatrix} \text{STEP} \\ \textbf{2} \end{pmatrix}$ of re Using), information on how to checl and reinstall the USB driver can be found here.

Update Information:

Information about software and firmware updates can be found here.

