AIBO Remote Framework (No Programming)
Story 3. Control AIBO and Make AIBO Self-charge.

You can enjoy AIBO Remote Framework
by using the sample programs.
A development environment (VC++) is not needed.
What’s Needed

PC with Windows Xp or 2000

Memory Stick Reader/Writer
Or a PC that has a Memory Stick reader/writer (VAIO PC)

AIBO Programming Memory Stick

AIBO ERS-7
or
AIBO ERS-7M2
Wireless LAN is built-in

AIBO MIND2 Memory stick
or
An Upgraded Memory Stick to AIBO MIND2 from AIBO MIND

Access Point (supports IEEE802.11b)
It is more stable to use a Wireless LAN Access point even if your PC has a wireless LAN adapter.
Preparation

• See Story 1 to setup the Wireless LAN and AIBO Remote Framework.
Open Remote Test

1. Open RemoteTest.exe. It should be placed on the desktop as a shortcut.

2. Input AIBO’s IP address and click the Connect button.

3. The “AIBO Output” window pops up. This window shows the information coming from AIBO.

4. Check that AIBO’s mode lamps (above the ears) turn Blue, then click the Remote button.

5. You will hear a sound when AIBO switches to Remote mode. AIBO’s mode lamps will blink blue.
Pop-up Dialog Windows to Control AIBO

6. Click “Posture”, “Walk”, and “Motion” buttons to pop-up each dialog.
7. Control AIBO using the “Posture” dialog.

AIBO changes its posture by clicking the “Sleep”, “Sit”, and “Stand” buttons.

“_V” is a different head angle posture.

“Station” is a posture on the Station.

Click here to change the head angle.
Walk

8. You can make AIBO walk using the “Walk” dialog.

AIBO walks “Forward” and “Backward” until the “stop” button is clicked.

“Left/Right turn” to turn AIBO.

“Left/Right arc” to make AIBO walk in a curve.

9. If you check Parameter designated walk, you can specify the walking distance and angle of curve.

10. You can use some different walking patterns.

X. TARGET doesn’t work yet. Object recognition must be enabled first.
11. Using the “Motion” dialog, you can make AIBO perform tricks.
12. Open RFW_CDB_E_release1.xls in the AIBO Remote Framework development kit. This excel file is in the DocE folder. If you cannot use Excel, you can open the .csv file with a text editor.

This is the command list that can be executed from the “Motion” Dialog.

There are about 3,000 commands.
### Tricks

13. Make AIBO play the shutter sound. (AIBO doesn’t take a picture, it is only the shutter sound)

Check MW expansion flag.
Uncheck Wait flag

Click the Execute button.
14. If you click “Execute” many times, you will hear AIBO continuous photography (burst photography) “Casha, Casha, ..” But AIBO doesn’t take any pictures.
Tricks

15. Make AIBO do the “smile” command.

16. Uncheck MW expansion flag.
Check Infinity flag.
Uncheck Wait flag.
Click the Execute button.
AIBO repeats Green LEDs and Smile (joy).

17. LMS(0x15 0x02 0x00) is an infinity command. To stop, execute LMS (0x15 0x02 0x81) “Stop command” without the Infinity flag.
Summary

• See Story 1 to setup the Wireless LAN and AIBO Remote Framework.
• Open RemoteTest and open the “Posture”, “Walk”, and “Motion” dialogs to control AIBO.
• The commands which can be used in the “Motion” dialog are listed in RFW_CDB_E_Release.xls that is included in the AIBO Remote Framework development kit.
• The commands which can be executed on AIBO are categorized by LMS. If the commands need Extension flag or Infinity flag, these flags should be set.

• There is "Special dance" and "7 special dance" in the command list. But don't play these motions, because they are special and rare in AIBO MIND2. (The value disappears when you see them again and again)

• Remember, you didn’t hear how to make AIBO self-charge!
Self-charge

16. Click the “Autonomy services” button.
17. Select “Self charge” and click “Exec”. AIBO will search for the station pole and perform the self-charge.
To Be Continued

Next story is recognition

![AIBO Autonomy Window]

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<th>AIBO Autonomy Services</th>
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![AIBO Autonomy Window Diagram]