

# IS-TWL-CAPTURE Setup Manual

INTELLIGENT SYSTEMS CO.,LTD.

2009/03/03

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and should be handled accordingly.**

**Confidential**

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# 1 Using This Product Safely

To use IS-TWL-CAPTURE safely and ensure the unit does not malfunction and possibly cause a safety hazard, please read the following items carefully.

- Do not modify the unit or take it apart.
- If you notice a problem, immediately stop using the unit.
- Do not allow liquids or foreign objects to enter the unit.
- Do not store the unit in a humid or dusty location.
- Never cover the unit or block ventilation.
- Do not bend, pull, or twist the cables.
- Do not subject the unit to strong impact.
- Do not use the unit in locations where the temperature is below 0°C or above 40°C.
- Do not use the unit during an electrical storm.

## **Regulatory Statement**

- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
- This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
- Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.
- This equipment complies with FCC radiation exposure limits for an uncontrolled environment.
- This equipment should be installed and operated with a minimum distance of 20 cm between the radio frequency energy radiator and body. This transmitter must not be co-located or operating in conjunction with any antenna or transmitter.
- This device has been designed to operate with the antennas listed below, and having a maximum gain of 2dB. Antennas not included in this list or having a gain greater than 2dB are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.
- To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

- Modifications made to the product, unless expressly approved by Nintendo, could void the user's right to operate the equipment.
- This Class A digital apparatus complies with Canadian ICES-003. The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.
- Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
- Le terme "IC" avant le numéro d'homologation ne signifie seulement que les normes d'Industrie Canada ont été respectées.

English	Hereby, INTELLIGENT SYSTEMS CO.,LTD. declares that this IS-TWL-CAPTURE is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Finnish	INTELLIGENT SYSTEMS CO.,LTD. vakuuttaa täten että IS-TWL-CAPTURE tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Dutch	Hierbij verklaart INTELLIGENT SYSTEMS CO.,LTD. dat het toestel IS-TWL-CAPTURE in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
	Bij deze verklaart INTELLIGENT SYSTEMS CO.,LTD. dat deze IS-TWL-CAPTURE voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
French	Par la présente INTELLIGENT SYSTEMS CO.,LTD. déclare que l'appareil IS-TWL-CAPTURE est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
	Par la présente, INTELLIGENT SYSTEMS CO.,LTD. déclare que IS-TWL-CAPTURE est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.
Swedish	Härmed intygar INTELLIGENT SYSTEMS CO.,LTD. att denna IS-TWL-CAPTURE står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Danish	Undertegnede INTELLIGENT SYSTEMS CO.,LTD. erklærer herved, at følgende udstyr IS-TWL-CAPTURE overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
German	Hiermit erklärt INTELLIGENT SYSTEMS CO.,LTD., dass sich <i>dieser/diese/dieses</i> IS-TWL-CAPTURE in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMW)
	Hiermit erklärt INTELLIGENT SYSTEMS CO.,LTD. die Übereinstimmung des Gerätes IS-TWL-CAPTURE mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien).

Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ INTELLIGENT SYSTEMS CO.,LTD. ΔΗΛΩΝΕΙ ΟΤΙ IS-TWL-CAPTURE ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Italian	Con la presente INTELLIGENT SYSTEMS CO.,LTD. dichiara che questo IS-TWL-CAPTURE è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Spanish	Por medio de la presente INTELLIGENT SYSTEMS CO.,LTD. declara que el IS-TWL-CAPTURE cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Portuguese	INTELLIGENT SYSTEMS CO.,LTD. declara que este IS-TWL-CAPTURE está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Malti	Hawnhekk, INTELLIGENT SYSTEMS CO.,LTD., jiddikjara li dan IS-TWL-CAPTURE mal-ftigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Direttiva 1999/5/EC.
Estonian	Käesolevaga kinnitab INTELLIGENT SYSTEMS CO.,LTD. seadme IS-TWL-CAPTURE vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
Hungarian	Alulírott, INTELLIGENT SYSTEMS CO.,LTD. nyilatkozom, hogy a IS-TWL-CAPTURE megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Slovak	INTELLIGENT SYSTEMS CO.,LTD. týmto vyhlasuje, že IS-TWL-CAPTURE spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Czech	INTELLIGENT SYSTEMS CO.,LTD. tímto prohlašuje, že tento IS-TWL-CAPTURE je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Slovene	Šiuo INTELLIGENT SYSTEMS CO.,LTD. deklaruoja, kad šis IS-TWL-CAPTURE atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Lithuanian	Šiuo INTELLIGENT SYSTEMS CO.,LTD. deklaruoja, kad šis IS-TWL-CAPTURE atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Latvian	Ar šo INTELLIGENT SYSTEMS CO.,LTD. deklarē, ka IS-TWL-CAPTURE atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

## 2 Special Notes

### 2.1 Notes

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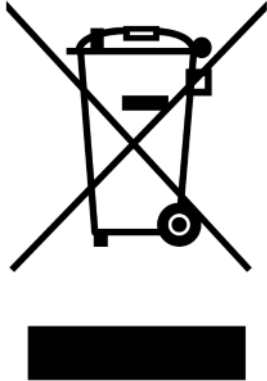
Note the following when using IS-TWL-CAPTURE.

- Do not turn off the IS-TWL-CAPTURE device during firmware updates. The IS-TWL-CAPTURE device may not function properly afterward.
- During use, do not do anything that would prevent heat dissipation, such as blocking the IS-TWL-CAPTURE airflow vent, placing the IS-TWL-CAPTURE in a closed container, or placing objects on top of the IS-TWL-CAPTURE.
- A connector cable connects the IS-TWL-CAPTURE hardware main unit to the IS-TWL-CAPTURE hardware controller unit ("Controller"). Connect the plug with the red band to the lower plug on the Controller, and connect the plug with the black band to the upper plug (see Table 4-1). Be sure to tighten the screws. A loose connection may cause damage to the hardware.
- The stylus on the Controller cannot be removed. Use the included stylus.
- The SD Memory Card slot cover of the Controller cannot be opened. Insert SD Memory Cards into the SD memory card slot on the main unit.
- The IS-TWL-CAPTURE device can be used approximately eight seconds after the power switch is turned on.
- Images output from the A/V output connectors are always delayed one frame compared to the images displayed on the controller.
- Not all frames are guaranteed to be captured. Some frames may be dropped, depending on your computer environment.
- **Infringement of rights, such as copyright or portrait rights, can occur when using audio or video captured by IS-TWL-CAPTURE.** Note that Nintendo accepts absolutely no responsibility in the event that copyright or portrait rights have been infringed, or a third party's privacy, character, or reputation have been damaged by the distributing, copying, or modifying of captured audio or video.
- When the IS-TWL-CAPTURE device is sent to Nintendo for repairs or to add options, the system menu may be updated. Please back up your data and settings before sending in the device. Also, reconfigure the device after it is returned and before using it.
- The liquid crystal display may already have pixels that are illuminated or that do not illuminate. Also, you might observe irregularity in color or brightness, depending on the angle of view. These are properties of the liquid crystal display and are not defects.

## 2.2 End-of-Life Equipment Disposal

The crossed-out wheeled bin symbol in Figure 2-1 is affixed to all electrical and electronic equipment that has been put into the European market by Nintendo on or after August 13, 2005.

**Figure 2-1 Disposal Symbol**



This symbol means that at the end of its life, the equipment must be treated in an environmentally sound manner at a licensed recycling plant and its components must be recovered, recycled, or reused in compliance with the requirements of the European Directive on Waste Electrical and Electronic Equipment (2002/96/EC) of January 27, 2003.

Accordingly, you must use separate collection systems for waste electrical and electronic equipment when you dispose of this equipment at the end of its life. Alternatively, you can return this equipment to Nintendo at your own cost, and Nintendo will dispose of it appropriately. To return the equipment, please contact the NOA Development Parts Department for instructions (425-861-2038 or [developmentparts@noa.nintendo.com](mailto:developmentparts@noa.nintendo.com)). You will be given a Return Authorization and instructed to return the equipment to an appropriate Nintendo location in your area.



## 3 Operation Environment

### 3.1 Requirements

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The following components are required to operate the IS-TWL-CAPTURE by connecting it to a computer.

**Table 3-1 Operation Environment Requirements for IS-TWL-CAPTURE**

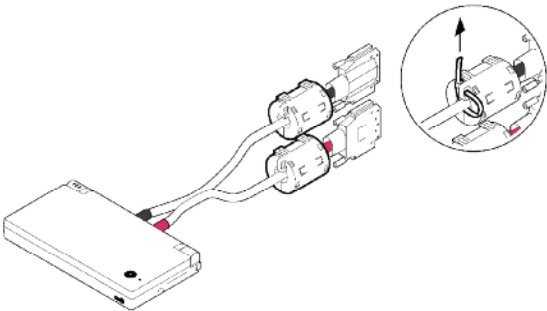
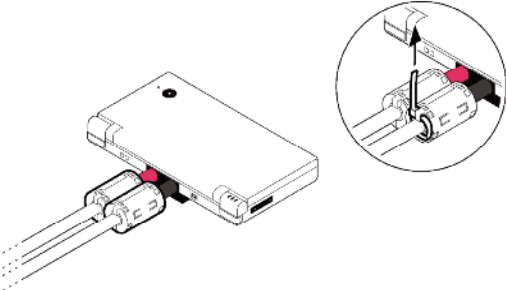
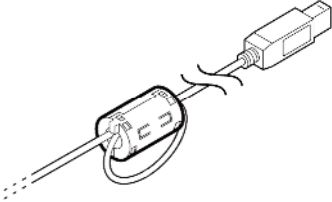
Component	Description
Computer	PC/AT-compatible
Operating system	One of the following operating systems must be installed: 5. Microsoft Windows Vista 32-bit version, Service Pack 1 or later 6. Microsoft Windows XP 32-bit version, Service Pack 2 or later
Memory capacity	As recommended by the operating system or greater. More memory than that recommended by the OS may sometimes be required, depending on the operating environment.
Disk capacity	50 MB or more of free memory
Optical disc drive	Drive capable of reading a CD-ROM at installation
Display	XGA display with a 1024x768 resolution or higher
USB interface	One port required (For video capture, USB 2.0 high-speed is recommended.)

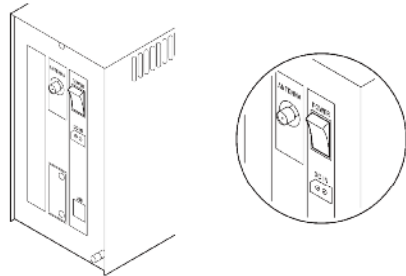
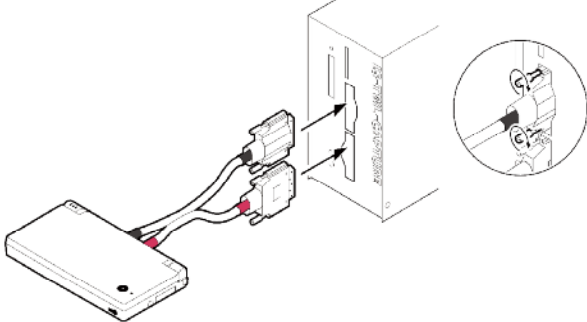
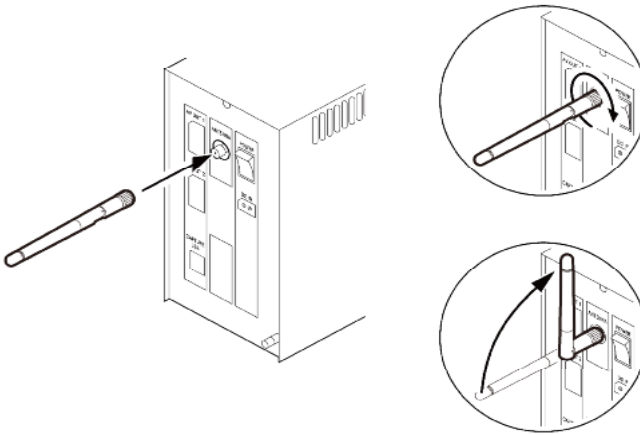
## 4 Setup

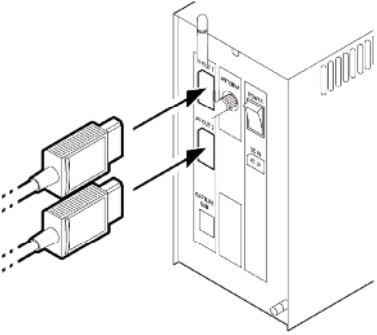
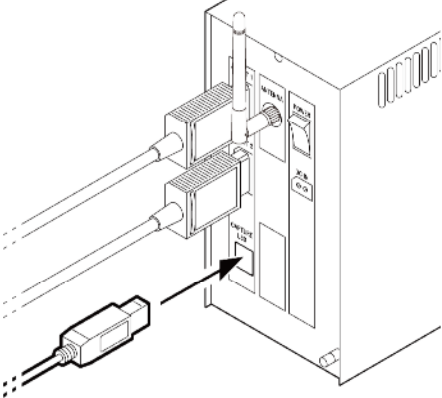
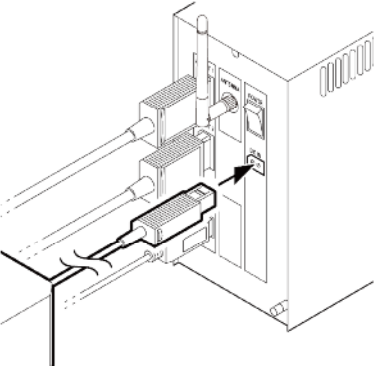
### 4.1 Connections

Follow the instructions below to set up the IS-TWL-CAPTURE hardware.

**Table 4-1 Setup Procedure for the IS-TWL-CAPTURE Hardware**

Step	Illustration
<p>1. Attach the large ferrite cores (made by TDK Corporation) to the connectors on the controller, and fasten them using the cable ties (see the figure at right). Use scissors to cut the excess portions of the ties you pulled upward.</p>	 <p>The illustration shows a white rectangular controller with two multi-pin connectors on one side. Two large, cylindrical ferrite cores are being attached to these connectors. A cable tie is used to secure the ferrite core to the connector. A circular inset provides a close-up view of the ferrite core being fastened to the connector with a cable tie.</p>
<p>2. Attach the small ferrite cores (made by SEIWA ELECTRIC MFG. CO.,LTD.) to the opposite side of the controller connectors, and fasten them using the cable ties (see the figure at right). Use scissors to cut the excess portions of the ties you pulled upward.</p>	 <p>The illustration shows the same white rectangular controller from a different angle, highlighting the opposite side of the connectors. Small ferrite cores are being attached to these connectors. A cable tie is used to secure the ferrite core to the connector. A circular inset provides a close-up view of the small ferrite core being fastened to the connector with a cable tie.</p>
<p>3. Attach a small ferrite core (made by SEIWA ELECTRIC MFG. CO.,LTD.) to the USB cable. Loop the cable approximately 30 cm from the USB-B connector and sandwich the portion of the cable that is overlapped with the ferrite core (see the figure at right).</p>	 <p>The illustration shows a USB cable with a USB-B connector on one end. A small ferrite core is being attached to the cable. The cable is looped, and the ferrite core is sandwiched between the two overlapping portions of the cable. A circular inset provides a close-up view of the ferrite core being attached to the cable.</p>

Step	Illustration
4. Check that the main unit's power switch is off.	 The illustration shows the back panel of the main unit. A circular inset provides a close-up view of the power switch, which is currently in the 'OFF' position.
5. Connect the Controller to the main unit. Connect the plug with the red band to the lower plug and the plug with the black band to the upper plug. Be sure to tighten the connector screws.	 The illustration shows the Controller connected to the main unit. The Controller's cable has two connectors: one with a red band and one with a black band. The red band connector is plugged into the lower port, and the black band connector is plugged into the upper port. A circular inset shows a close-up of the connectors being tightened with screws.
6. Attach the antenna to the ANTENNA connector on the back panel of the main unit.	 The illustration shows the antenna being attached to the ANTENNA connector on the back panel of the main unit. A circular inset shows a close-up of the antenna being inserted into the connector. Another circular inset shows the antenna being secured with a screw.

Step	Illustration
7. When outputting video, connect the AV cable to AV OUT 1 and AV OUT 2 on the rear panel of the main unit.	 An isometric line drawing of the rear panel of a device. Two AV cables are shown being plugged into the 'AV OUT 1' and 'AV OUT 2' ports. Arrows point from the text in the adjacent step to these ports.
8. Connect the main unit to the computer with a USB cable.	 An isometric line drawing of the rear panel of the device. A USB cable is shown being plugged into the 'USB' port. An arrow points from the text in the adjacent step to this port.
9. Connect the DC plug of the AC adapter to the DC connector on the rear panel of the main unit.	 An isometric line drawing of the rear panel of the device. A DC plug from an AC adapter is shown being inserted into the 'DC IN' port. An arrow points from the text in the adjacent step to this port.
10. Connect the AC plug of the AC adapter to an outlet (AC 100 V).	

## 4.2 Turning the Power On and Off

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Always use the following procedure to turn the power on.

1. Turn on the power switch on the rear panel of the main unit.
2. The POWER and SYSTEM lights on the front panel of the main unit illuminate as follows.
  - (1) The POWER light briefly illuminates red.
  - (2) The POWER and SYSTEM lights illuminate green.
  - (3) The SYSTEM light goes out after a few seconds.
3. The device can be used when the controller POWER light and the LCD backlight are illuminated.

**Note:** The device can be used approximately eight seconds after turning the power on.

To turn off the power for the IS-TWL-CAPTURE hardware, use the power switch on the rear panel of the main unit.

## 4.3 Installing the Software

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To install IS-TWL-CAPTURE software onto a computer:

1. Log on to Windows as a user with an Administrator account on the computer.
2. Exit all currently running programs.
3. Download the IS-TWL-CAPTURE software from the **TWL Downloads** page at <http://www.warioworld.com>.
4. Using Explorer, browse to the location to which the IS-TWL-CAPTURE software was downloaded.
5. Open the IS-TWL-CAPTURE folder and start installation by double-clicking IS-TWL-CAPTURE-XXX.EXE (XXX represents the version).
6. Follow the displayed instructions.

If the installation program completes normally, installation ends.

If prompted, restart the computer after installation completes.

## 4.4 Uninstalling the Software

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To uninstall the IS-TWL-CAPTURE software from a computer:

1. Log on to Windows as a user with an Administrator account on the computer.
2. If the IS-TWL-CAPTURE software is running, exit the software.

3. In Control Panel, click **Programs and Features** to open the **Remove or Change Programs** dialog box. (For Windows XP, click **Add or Remove Programs** to display the **Add or Remove Programs** dialog box.)
4. Select IS-TWL-CAPTURE from the list of installed programs.
5. Click **Delete** to start deleting the IS-TWL-CAPTURE software. If deletion completes normally, the IS-TWL-CAPTURE software has been uninstalled.

Uninstalling does not delete option settings and window position information. For this reason, the last state can be used even when uninstalling and installing to upgrade the IS-TWL-CAPTURE software. To delete this information, modify the registry with a registry editor after confirming that the IS-TWL-CAPTURE software is not running.

Delete the following key and everything below it from within the registry editor:

HKEY\_CURRENT\_USER\Software\INTELLIGENT SYSTEMS\IS-TWL-CAPTURE

If you make a mistake while editing the registry or accidentally delete the wrong folders, Windows may not run. Use caution when performing the above actions and do so only after backing up data or creating a restore point to allow a system restore. The results of editing the registry are your responsibility.

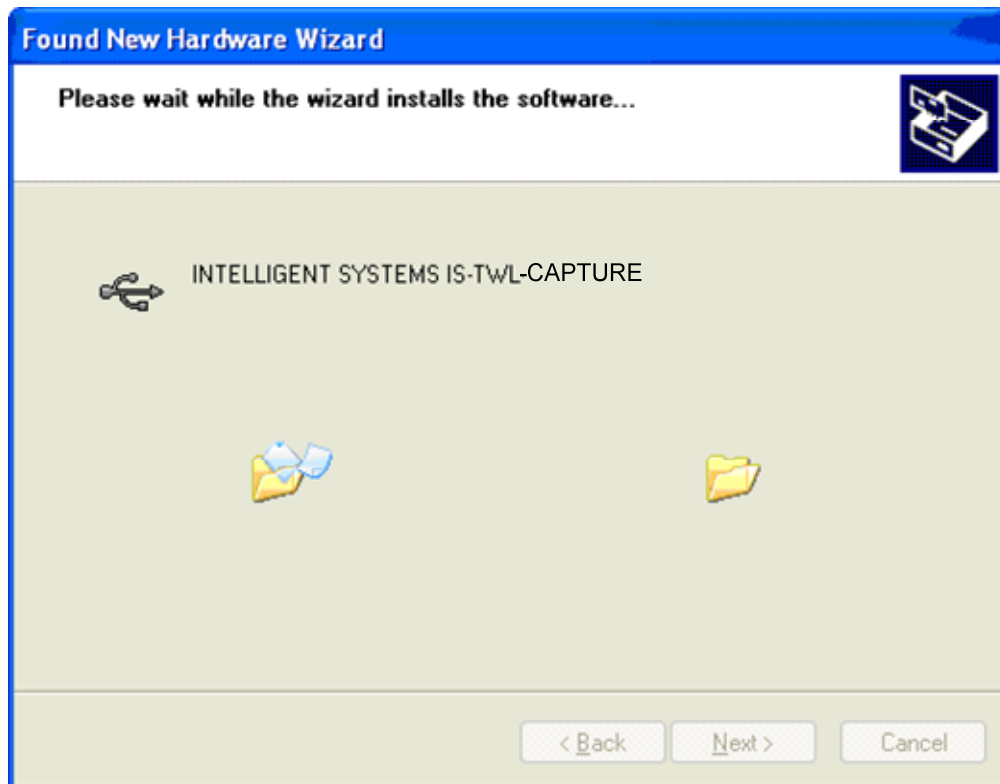
## 4.5 Installing Device Drivers

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Device drivers must be installed when first connecting the IS-TWL-CAPTURE hardware to a computer or when first connecting it to a different USB port.

1. When the IS-TWL-CAPTURE hardware is turned on, the **Found New Hardware Wizard** starts and displays a dialog box that prompts for the installation of a device driver.

**Figure 4-1 Found New Hardware Wizard: Welcome Dialog Box**



2. Download the drivers from the **TWL Downloads** page at <http://www.warioworld.com>.
3. Select **Install the software automatically (Recommended)** and click **Next**.
4. Please wait. When the software installation begins, the dialog box in Figure 4-2 appears.

Figure 4-2 Found New Hardware Wizard: Installation Dialog Box



5. The dialog box in Figure 4-3 appears during installation. Click **Continue Anyway** to continue installation.

Figure 4-3 Found New Hardware Wizard: Compatibility Dialog Box



6. When the **Found New Hardware Wizard** completes installation normally, the dialog box in Figure 4-4 appears. Click **Finish** to close the wizard.



**Figure 4-4 Found New Hardware Wizard: Completion Dialog Box**



## 5 Support

Nintendo provides support for IS-TWL-CAPTURE users on its website and by e-mail.

- Website
  - Information and documents regarding IS-TWL-CAPTURE and the latest software versions are available on the Nintendo Software Development Support Group (SDSG) website (<http://www.warioworld.com>). Only those registered in the website's Nintendo DS group can access and download the latest software versions. Register online at <http://www.warioworld.com>.
- E-mail Support
  - For questions and comments about IS-TWL-CAPTURE, please contact the Software Development Support Group at [support@noa.com](mailto:support@noa.com).

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