

SONY®

4-739-797-01 (1)

Digital Wireless Transmitter

Before Using This Unit

Before operating the unit, please read this manual thoroughly and retain it for future reference.

DWT-B03R

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CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. When you dispose of the battery, you must obey the law in the relative area or country.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ATTENTION

The electromagnetic fields at the specific frequencies may influence the sound of this unit.

If you have any questions about this product, you may call: Sony Customer Information Service Center 1-800-222-7669 or <http://www.sony.com/>

Declaration of Conformity	
Trade Name	: SONY
Model	: DWT-B03R
Responsible party	: Sony Electronics Inc.
Address	: 16535 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone Number	: 858-942-2230
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.	

FCC Radiation Exposure Statement

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. DWT-B03R has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.

In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled exposure, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Antenna type: λ/4 flexible wire
Users need to register with and check a white-space database to determine available channels prior to operation at a given location.

For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For the customers in Canada

CAN ICES-3 (B)/NMB-3(B)

For the customers in Canada

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

IC Exposure of Humans to RF Fields

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca/index-eng.php

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

This radio transmitter (409B-DWTB03R) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
Antenna type: λ/4 flexible wire, Gain: 2.14 dBi

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high

levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. DWT-B03R has been tested and found to comply with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules.

This device operates on a no-protection no-interference basis. Should the user seek to obtain protection from other radio services operating in the same TV bands, a radio licence is required. Please consult Industry Canada's document CPC-2-1-28, Optional Licensing for Low-Power Radio Apparatus in the TV Bands, for details.



IEEE 802.15.4 : 2,400 MHz - 2,483.5 MHz, < 3 dBm e.i.r.p.

Hereby, Sony Corporation declares that this equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <http://www.compliance.sony.de/>

Frequency range : 470 MHz to 714 MHz
Maximum RF power output : 25 mW

Hierbij verklaart Sony Corporation dat deze radioapparatuur conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: <http://www.compliance.sony.de/>

Frequentiebereik: 470 MHz tot 714 MHz
Maximaal RF-vermogen: 25 mW

Härmed försäkrar Sony Corporation att denna utrustning överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: <http://www.compliance.sony.de/>

Frekvensintervall: 470 MHz till 714 MHz
Maximal RF-effekt: 25 mW

O(a) abaixo assinado(a) Sony Corporation declara que o presente equipamento está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: <http://www.compliance.sony.de/>

Intervalo de frequência: 470 MHz para 714 MHz
Potência máxima de RF: 25 mW

Herved erklærer Sony Corporation, at dette udstyr er i overensstemmelse med direktiv 2014/53 / EU. Den fulde ordlyd af EU-overensstemmelseserklæringen er tilgængelig på følgende internetadresse: <http://www.compliance.sony.de/>

Frekvensområde: 470 MHz til 714 MHz
Maksimal RF-udgangseffekt: 25 mW

Sony Corporation vakuuttaa, että tämä laite on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: <http://www.compliance.sony.de/>

Taajuusalue: 470 MHz – 714 MHz
Enimmäislähetytsteho radiotaajuudella: 25 mW

Herved erklærer Sony Corporation at utstyrstypen er i samsvar med direktiv 2014/53/EU. EU-erklæring fulltekst finner du på Internett under: <http://www.compliance.sony.de/>

Frekvensområde: 470 MHz til 714 MHz
Maksimal RF-utgangseffekt: 25 mW

Με την παρούσα Sony Corporation δηλώνει ότι, αυτή η συσκευή πληροί τους όρους της οδηγίας 2014/53/EU. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: <http://www.compliance.sony.de/>

Περιοχή συχνοτήτων: 470 MHz έως 714 MHz
Μέγιστη ισχύς εξόδου RF: 25 mW

Sony Corporation, bu cihazın 2014/53/EU Direktifi ile uyumlu olduğunu beyan eder. AB uygunluk beyanının tam metni aşağıdaki internet adresinde mevcuttur: <http://www.compliance.sony.de/>

Frekans aralığı: 470 MHz ila 714 MHz
Maksimum RF gücü çıkışı: 25 mW

С настоящото, Sony Corporation декларира, че това оборудване е в съответствие с Директива 2014/53/EU. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: <http://www.compliance.sony.de/>

Честотен обхват: 470 МХц до 714 МХц
Максимална изходна радиочестотна мощност: 25 мВт

Prin prezenta, Sony Corporation declară că acest echipament este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: <http://www.compliance.sony.de/>

Gama de frecvență: de la 470 MHz până la 714 MHz
Tensiunea de ieșire maximă RF: 25 mW

Sony Corporation tímto prohlašuje, že toto zařízení je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: <http://www.compliance.sony.de/>

Frekvenční rozsah: 470 MHz až 714 MHz
Maximální vyzářený výkon na rádiové frekvenci: 25 mW

Käesolevaga deklareerib Sony Corporation, et käesolev seade vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: <http://www.compliance.sony.de/>

Sagedusvahemik: 470 MHz kuni 714 MHz
Maksimaalne raadiosageduslik väljundvõimsus: 25 mW

A Sony Corporation igazolja, hogy ez a készülék megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: <http://www.compliance.sony.de/>

Frekvenciatartomány: 470 MHz – 714 MHz
Max. nagyfrekvenciás kimeneti teljesítmény: 25 mW

Ar šo Sony Corporation deklarē, ka šī iekārta atbilst direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: <http://www.compliance.sony.de/>

Frekvenču diapazons: no 470 MHz līdz 714 MHz
Maksimālā RF izejas jauda: 25 mW

Mes, Sony Corporation, patvirtiname, kad šis įrenginys atitinka direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas pasiekiamas šiuo internetiniu adresu: <http://www.compliance.sony.de/>

Dažnių intervalas: nuo 470 MHz iki 714 MHz
Didžiausia RD galios išvestis: 25 mW

Sony Corporation niniejszym oświadcza, że to urządzenie jest zgodne z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: <http://www.compliance.sony.de/>

Zakres częstotliwości: od 470 MHz do 714 MHz
Maksymalna moc wyjściowa częstotliwości radiowej: 25 mW

Sony Corporation týmto vyhlasuje, že zariadenie je v súlade so smernicou 2014/53/EÚ. Úplné vyhlásenie EÚ o zhode je k dispozícii na tejto internetovej adrese: <http://www.compliance.sony.de/>

Frekvenčný rozsah: 470 MHz až 714 MHz
Maximálny RF výkon: 25 mW

Sony Corporation potrjuje, da je ta oprema skladna z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: <http://www.compliance.sony.de/>

Frekvenčni obseg: od 470 MHz do 714 MHz
Največja izhodna moč RF: 25 mW

Sony Corporation ovime izjavljuje da je ova oprema u skladu s Direktivom 2014/53/EU. Gjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: <http://www.compliance.sony.de/>

Raspon frekvencije: 470 MHz do 714 MHz
Maksimalna izlazna snaga radijske frekvencije: 25 mW

Ovim, kompanija Sony Corporation izjavljuje da je ova oprema usaglašena sa direktivom 2014/53/EU. Pun tekst izjave o usaglašenosti za EU je dostupan na sledećoj internet adresi: <http://www.compliance.sony.de/>

Frekventni opseg: od 470 MHz do 714 MHz
Maksimalna izlazna snaga RF emisije: 25 mW

For the customers in the U.S.A.

SONY LIMITED WARRANTY- Please visit <http://www.sony.com/psa/warranty> for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in Canada

SONY LIMITED WARRANTY - Please visit <http://www.sonybiz.ca/pro/lang/en/ca/article/resources-warranty> for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in Europe

Sony Professional Solutions Europe - Standard Warranty and Exceptions on Standard Warranty. Please visit <http://www.pro.sony.eu/warranty> for important information and complete terms and conditions.

For the customers in Korea

SONY LIMITED WARRANTY - Please visit <http://bpeng.sony.co.kr/handler/BPAS-Start> for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in the USA and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.call2recycle.org/>

Caution: Do not handle damaged or leaking Lithium-ion batteries.



For the Customers in Brazil only

Apenas para clientes no Brasil

DESCARTE DE PILHAS E BATERIAS



Após o uso, as pilhas e/ou baterias deverão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada.

Bateria de Íon-Lítio

Atenção:

Se a bateria não for manuseada corretamente, ela poderá explodir, causar incêndio ou até mesmo queimaduras químicas. Observe as seguintes precauções.

- Não desmonte, esmague ou exponha a bateria a qualquer choque ou impacto, como martelar, deixar cair ou pisar.
- Não provoque curto-circuito, nem deixe que objetos metálicos entrem em contato com os terminais da bateria.
- Não exponha a bateria a temperaturas elevadas, acima de 60 °C, como sob a luz solar direta ou no interior de um carro estacionado ao sol.
- Não incinere nem jogue no fogo.
- Não manuseie baterias de íon-lítio danificadas ou com vazamentos
- Mantenha a bateria fora do alcance de crianças pequenas.
- Mantenha a bateria seca
- Substitua apenas por uma bateria do mesmo tipo ou equivalenterecomendada pela Sony.

Türkiye'deki müşteriler için AEEE Yönetmeliğine Uygundur

Features

The DWT-B03R is a drip-resistant digital wireless transmitter featuring a highly durable yet compact and lightweight design. The unit is suitable for broadcast and ENG (electronic news-gathering) applications, as well as for musical and television video production.

Using the CD-ROM manuals

The manuals can be viewed on a computer with Adobe Reader installed. You can download Adobe Reader for free from the Adobe website.

- 1 Open the "index.html" file on the CD-ROM.
- 2 Select the language of the manual you want to view.

Note

If you damage or lose the CD-ROM, you can purchase a new one from your dealer or Sony service representative.

Specifications

Main Unit

Transmitting section

Oscillator type	Crystal-controlled PLL synthesizer
RF power output	2 mW/10 mW/25 mW (e.r.p) selectable
Antenna type	λ/4 flexible wire
Occupied RF bandwidth	192 kHz or less
Audio delay	MODE1: 0.8 ms MODE2: 0.7 ms MODE3: 1.8 ms MODE4: 0.7 ms

Allowable deviation of transmission frequency

	±6.5 ppm
Type of emission	G1E or G1D
Modulation method	π/4 Shift QPSK

Audio section

Maximum input level	MIC: -22 dBu (with 0 dB attenuator) LINE: +24 dBu
Audio attenuator adjustment range (pad)	0 dB to 48 dB (3 dB steps, MIC input mode only)

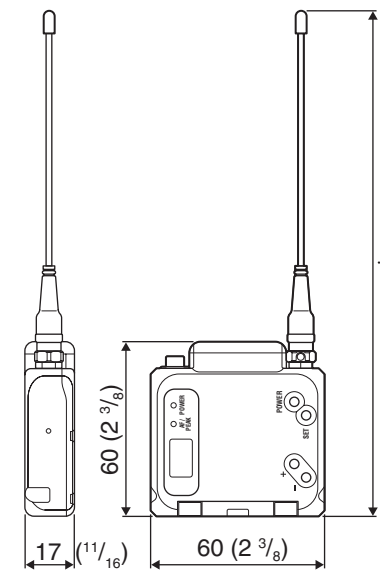
Microphone input connector	Small 3-pin connector with lock
Input impedance	4.7 kohms or more
Frequency response	20 Hz to 22,000 Hz MODE1, MODE2, MODE4: 0.03% or less MODE3: 0.3% or less
T.H.D	

Dynamic range	106 dB or more 0 dBu = 0.775 V
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General

Operating voltage	3.6 V DC, NP-BX1 rechargeable battery pack
Battery life	During 10-mW output: Continuous operating time 7 hours During 25-mW output: Continuous operating time 4 hours 30 minutes (at 25 °C (77 °F), using NP-BX1 rechargeable battery pack, CODEC MODE set to MODE1, wireless remote control function disabled, DIMMER MODE set to AUTO OFF)
Drip resistance	Equivalent to IPX4/IPX5 (according to Sony test conditions)
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Charging temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Wireless remote control	2.4-GHz IEEE802.15.4 compliant

Dimensions (unit: mm (inches))



* UC/CE L model: 214 (8 1/2)
CE H model: 181 (7 1/4)

Mass	Approx. 99 g (3.5 oz.) including NP-BX1 rechargeable battery pack
Supplied accessories	Belt clip (1) NP-BX1 rechargeable battery pack (1) Carrying case (1) Scribble sheet (1) Before Using This Unit (3) CD-ROM (1)
Optional accessories	ECM-77LM lavalier microphones BC-DWX1 battery charger

NP-BX1 Rechargeable Battery Pack

Battery	Lithium-ion battery
Maximum voltage	4.2 V DC
Nominal voltage	3.6 V DC
Capacity	4.5 Wh (1240 mAh)

Design and specifications are subject to change without notice.

Notes

- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
- SONY WILL NOT BE LIABLE FOR CLAIMS OF ANY KIND MADE BY USERS OF THIS UNIT OR MADE BY THIRD PARTIES.
- SONY WILL NOT BE LIABLE FOR THE TERMINATION OR DISCONTINUATION OF ANY SERVICES RELATED TO THIS UNIT THAT MAY RESULT DUE TO CIRCUMSTANCES OF ANY KIND.