



HD/SD-SDI EMBED/DE-EMBED CARD MY8-SDI-ED

Owner's Manual
Bedienungsanleitung
Mode d'emploi
Manual de instrucciones
Manuale di istruzioni
Руководство пользователя
使用说明书
取扱説明書

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FCC INFORMATION (U.S.A.)

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. (class B)

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This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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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.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

- Do not install the card in any Yamaha products not specified by Yamaha for use with the card to avoid possible electrical shock, fire, or equipment damage.
- Do not attempt to disassemble or modify the card. Do not apply excessive force to card connectors or other card components. Mishandling of the card may lead to shock, fire hazard, or equipment failure.
- Be sure to disconnect the power cable of the host device before installing the card and connecting/disconnecting the cables (in order to eliminate shock hazard, undesired noise, and avoid equipment damage).
- Turn off all peripheral devices connected to the host device before installation, and unplug all related cables (in order to eliminate shock hazard, undesired noise, and avoid equipment damage).



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

- Be sure to properly ground the host device to prevent electrical shock and/or malfunction.
- Do not touch the metallic leads (pins) of the circuit board when handling the card. The pins are sharp and may cause hand cuts.
- Wear a pair of heavy gloves during installation to avoid scratching or cutting your hands on sharp edges.
- Avoid touching exposed connectors and metal parts to minimize the possibility of bad connections.
- Drain all static electricity from your clothing and body before handling the card. Static electricity can damage the card. Touch an exposed metal part of the host device or other grounded object beforehand.
- Do not drop the card or subject it to physical shock as this can result in breakage and/or malfunction.
- Do not drop screws or other small parts inside the card. If power is applied while screws or similar metal objects are loose inside the unit the card may malfunction or be damaged. If you cannot retrieve dropped objects yourself, refer the problem to qualified Yamaha service personnel.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed.

- The illustrations as shown in this manual are for instructional purposes only, and may be different from the ones on your equipment.
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For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

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[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

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European models

Purchaser/User Information specified in EN55103-1 and EN55103-2.

Conforms to Environments: E1, E2, E3 and E4

Introduction

Thank you for choosing the Yamaha MY8-SDI-ED HD/SD-SDI Embed/De-embed card.

The MY8-SDI-ED is an HD/SD-SDI Embed/De-embed Mini-YGDAI card for use with compatible Yamaha professional audio equipment. The card enables you to de-embed up to two audio groups (four channels per group; total eight channels) to a host device, by selecting them from four audio groups (total 16 channels) that have been embedded into an SDI signal. This card also enables you to embed the audio output signals of a host device into one or two audio groups to be output as an HD/SD-SDI signal.

To take full advantage of the superior functionality of the MY8-SDI-ED and enjoy years of trouble-free use, please read this manual before you begin using the product.

About the host devices in which the MY8-SDI-ED can be installed

Before installing the card in a host device, please check to make sure that the device is compatible with the card and check possible restrictions regarding the maximum number of Yamaha and third-party expansion cards that can be simultaneously installed. Refer to the owner's manual supplied with the host device and/or Yamaha Pro Audio web site.

Yamaha Pro Audio website: <http://www.yamahaproaudio.com/>

Installation information

Please refer to the owner's manual supplied with the host device for installation information.

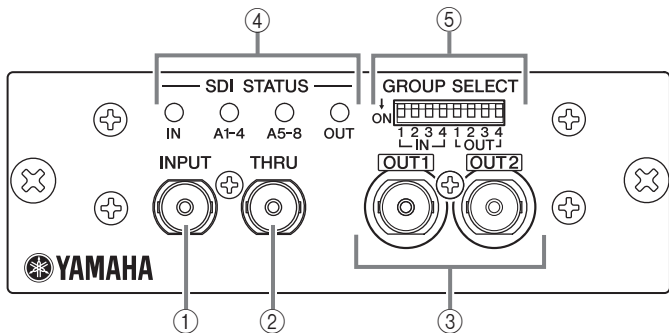
In addition to securing the card in place, the fixing screws at the left and right of the card function as electrical grounds. Be sure to screw them in tightly.

Accessories

Owner's Manual (this document)

Part Names and Functions

■ Panel



① INPUT Connector

This is a BNC connector that inputs HD/SD-SDI signals. To use the card on a host device, you must always input SDI signals to the INPUT connector.

② THRU Connector

This is a BNC connector that outputs re-clocked HD/SD-SDI signals.

③ OUT1, OUT2 Connectors

These are BNC connectors that output HD/SD-SDI signals. The same signals will be routed to both the OUT1 and OUT2 connectors.

Note:

We recommend that you use a 5C-FB coaxial cable, or a coaxial cable that features excellent performance equivalent to that of the 5C-FB cable. The 5C-FB cable transmits HD-SDI signals over a distance of up to 130 meters, and SD-SDI signals up to 150 meters.

④ SDI STATUS LEDs

[IN] LED: Indicates the status of SDI inputs.

[A1-4] LED: Indicates the status of input ports 1 through 4.

[A5-8] LED: Indicates the status of input ports 5 through 8.

[OUT] LED: Indicates the status of SDI outputs.

If no errors have occurred, the LED indicators will light green. If an error has occurred, you will be able to identify the type of error based on the status of the LED indicators as shown in the list below.

LED Indicator	SDI STATUS LED	Description of Error
Off (dark)	[IN]/[OUT]	No SDI input is detected or routed.
	[A1-4]/[A5-8]	No audio group has been selected.
Solid red	[IN]/[OUT]	SDI input or output is unlocked.
Flashing red	[IN]	An invalid format signal is being input to the SDI input.
	[A1-4]/[A5-8]	No selected audio group data exists.
Solid orange	[IN]/[OUT]	An error has occurred in the video signal of the SDI input/output.
	[A1-4]/[A5-8]	An error has occurred in the selected audio group data.

Note: _____

If multiple errors have occurred simultaneously, the priority of the SDI STATUS LEDs indication is the descending order of the list above.

⑤ GROUP SELECT Switches

Selects a group of audio input/output signals.

Move the switches down to set them to ON. Raise the switches to set them to OFF.

Note: _____

Do not change the switch settings if the host device is powered on. Otherwise, noise may be generated.

- [IN 1-4]

These switches enable you to turn ON up to two SDI signal groups that you want to input to the slot (host device). Audio signals can be de-embedded from a selected group and routed to input ports 1-4 and 5-8 of the slot.

- [OUT 1-4]

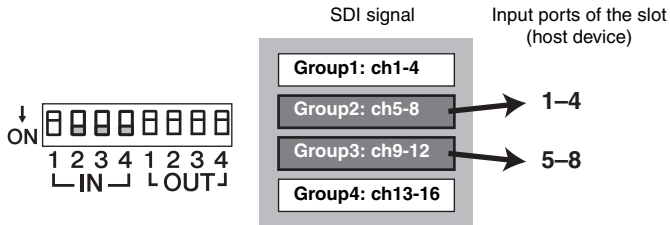
These switches enable you to turn ON up to two SDI signal groups that you want to output from the slot (host device). Signals at output ports 1-4 and 5-8 of the slot can be embedded and routed to a selected group.

Regardless of the [IN 1–4] settings, for those groups that were not selected via the [OUT 1–4] switch settings, audio signals of those groups that are routed to the INPUT connector will be embedded as is and output. For example, if neither Group 2 nor Group 4 were selected via the [OUT 1–4] switch settings, audio signals of those groups routed to the INPUT connector will be embedded as is and output.

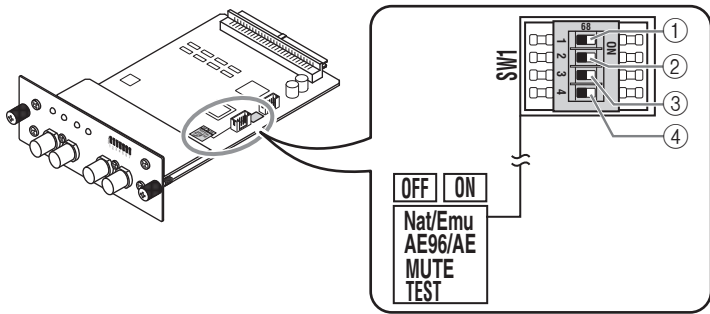
Switch setting	IN/OUT 1	IN/OUT 2	IN/OUT 3	IN/OUT 4
Selected group (Channels)	Group1 (ch1-4)	Group2 (ch5-8)	Group3 (ch9-12)	Group4 (ch13-16)

Note:

- If only one switch is set to ON, audio will be input/output to/from ports 1–4, but not to/from 5–8.
- If all four switches are set to OFF, no audio will be input or output to any ports 1–4 and 5–8.
- If you attempt to set more than two GROUP SELECT switches to ON, only the first two switches (in ascending order) will turn on for both IN and OUT.
For example, if you attempt to set the IN 2, IN 3 and IN 4 switches to ON, Group 2 and Group 3 audio will be routed to input ports 1–4 and 5–8 of the slot respectively, but audio will not be input from Group 4.



■ Dip Switches (SW1)



These switches determine various operations.

When the product is shipped from the factory, all SW1 dip switches are set to OFF.

① Nat/Emu Switch

To use the card on a host device that does not support Native mode, such as a Yamaha DM2000, set this switch to ON. You can configure this card to be recognized and to function as an MY8-AE96 or MY8-AE digital I/O card. This is called Emulation (Emu) mode.

To use the card on a host device that supports Native mode, such as a Yamaha DSP5D, set this switch to OFF. You can take full advantage of the MY8-SDI-ED functionality. For the latest information on compatible host devices, check the Yamaha Professional Audio website.

<http://www.yamahaproaudio.com/>

Note:

If Emulation (Emu) mode is set to ON, the WORD CLOCK screen of the host device appears as if you could select the MY8-SDI-ED as the master clock. However, in reality, you cannot do so.

② AE96/AE Switch

This switch is valid only when the Nat/Emu switch (①) is set to ON. Typically, leave this switch set to OFF. If you are using the card with a Yamaha DIO8, set this switch to ON.

OFF: This card will be recognized as a Yamaha MY8-AE96 digital I/O card.

ON: This card will be recognized as a Yamaha MY8-AE digital I/O card.

Note: _____

MY8-AE96 mode (OFF setting) supports only double speed. You can select the 96 kHz double channel on the host device, but it will not operate in double channel.

③ MUTE Switch

Typically, leave this switch set to OFF.

OFF: Audio will not be muted regardless of whether or not an HD/SD-SDI input error is detected.

ON: Audio will be muted if an HD/SD-SDI input/output error is detected (the SDI STATUS LED will light up in a color other than green.). Use this setting if you want to use muted audio to indicate an error.

Note: _____

Keep in mind that connecting or disconnecting a cable may cause noise even if this switch is set to ON.

④ TEST Switch

Be sure to leave this switch set to OFF. Otherwise, the card will not operate properly.

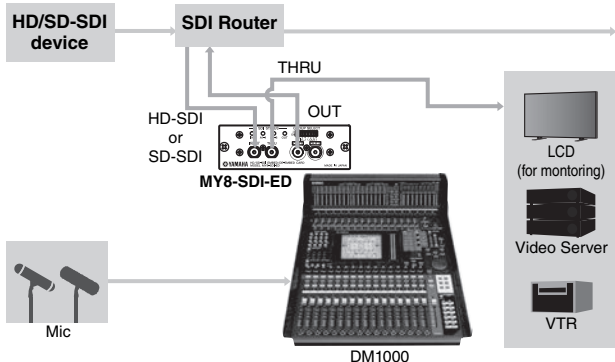
■ Word clock settings

You cannot assign the MY8-SDI-ED as the master clock.

If you need to synchronize the host device to a house sync signal (external digital system), use the WORD CLOCK IN connector to set the master clock of the host device.

The audio I/O section of the MY8-SDI-ED features a sampling rate converter, which will convert the sampling rate of the I/O signals depending on the settings of the host device.

Connection Example



Appendix

■ Specifications

HD-SDI/SD-SDI I/O CHARACTERISTICS

HD-SDI I/O Signal	SMPTE 292M (1.485 Gbps, 1.485/1.001 Gbps)
SD-SDI I/O Signal	SMPTE 259M-C (270 Mbps)
Resolution	24 bit
Fs	48 kHz
Input level	800mV \pm 10%
Output level	800mV \pm 10%
Impedance	75 Ω
Connector	Input: 1 x BNC Output: 2 x BNC (same signal)
Lines	Selected 2 audio groups of 4 channels; total 8 channels

HD-SDI/SD-SDI THRU OUTPUT CHARACTERISTICS

SDI Output Signal	Reclocked thru output
Output level	800mV \pm 10%
Impedance	75 Ω
Connector	1 x BNC

COMPATIBLE FORMAT

SD-SDI
525i 59.94
625i 50

HD-SDI

720p 50
1080i 50
1080p 25
1080sF 24
1035i 59.94

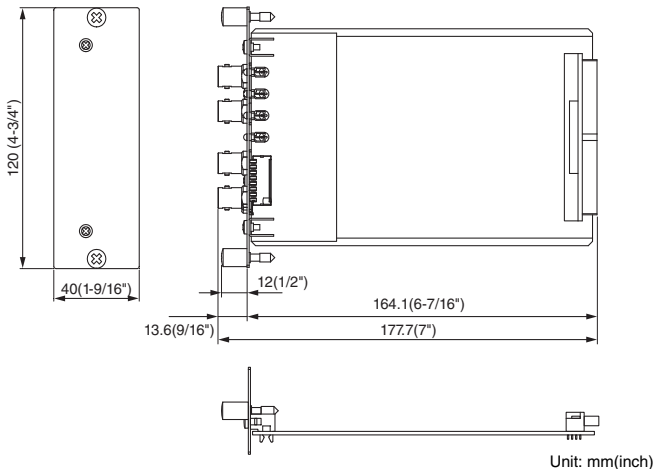
720p 59.94
1080i 59.94
1080p 29.97
1080sF 23.976
1035i 60

720p 60
1080i 60
1080p 30

1080p 24

1080p 23.976

■ Dimensions



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Remarque importante: Informations de garantie pour les clients de l'EEE et la Suisse	Français
Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence (page suivante). * EEE : Espace Economique Européen	
Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland	Nederlands
Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vindt een afdrukbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land (volgende pagina). * EER: Europese Economische Ruimte	
Aviso importante: información sobre la garantía para los clientes del EEE* y Suiza	Español
Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la versión del archivo para imprimir está disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país (página siguiente). * EEE: Espacio Económico Europeo	
Avviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera	Italiano
Per informazioni dettagliate sulla garanzia relativa a questo prodotto Yamaha e l'assistenza in garanzia nei paesi EEA* e in Svizzera, potete consultare il sito Web all'indirizzo riportato di seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha (pagina seguente). * EEA: Area Economica Europea	
Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça	Português
Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país (próxima página). * AEE: Área Económica Europeia	
Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελλάδα	Ελληνικά
Για λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ και την Ελλάδα, επισκεφτείτε την παρακάτω ιστοσελίδα (Εκτυπωσιμη μορφή είναι διαθέσιμη στην ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στη χώρα σας (επόμενη σελίδα). * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος	
Viktigt: Garantiinformation för kunder i EES-området* och Schweiz	Svenska
För detaljerad information om denna Yamahaprodukt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbadress (en utskriftsvärdig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land (nästa sida). * EES: Europeiska Ekonomiska Samarbetsområdet	
Viktig merknad: Garantiinformasjon for kunder i EØS* og Sveits	Norsk
Detaljert garantiinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettadressen nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte Yamahas kontorene i landet der du bor (neste side). *EØS: Det europeiske økonomiske samarbeidsområdet	
Vigtig oplysning: Garantioplysninger til kunder i EØO* og Schweiz	Dansk
De kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØO* (og Schweiz) ved at besøge det websted, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor (næste side). * EØO: Det Europæiske Økonomiske Område	

<p>Tärkeät ilmoitukset Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille</p> <p>Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettiosoitteesta. (Tulostettava tiedosto saatavissa sivustollamme.) Voitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan (seuraava sivulla). *ETA: Euroopan talousalue</p>	Suomi
<p>Ważne: Warunki gwarancyjne obowiązujące w EOG* i Szwajcarii</p> <p>Aby dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (Plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju (następna strona). * EOG — Europejski Obszar Gospodarczy</p>	Polski
<p>Důležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku</p> <p>Podrobné záruční informace o tomto produktu Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedené webové adrese (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi (další stránka). * EHS: Evropský hospodářský prostor</p>	Česky
<p>Fontos figyelmeztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára</p> <p>A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájl is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviselői irodával (következő oldal). * EGT: Európai Gazdasági Térség</p>	Magyar
<p>Oluline märkus: Garantiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele</p> <p>Täpsem teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saidil on saadaval printitav fail) või pöörduge Teie regiooni Yamaha esinduse poole (järgmine lehekülg). * EMP: Euroopa Majanduspiirkond</p>	Eesti keel
<p>Svarīgais paziņojums: garantijas informācija klientiem EEZ* un Šveicē</p> <p>Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas pakalpošanu EEZ* un Šveicē, lūdz, apmeklējiet zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību (nākamā lappuse). * EEZ: Eiropas Ekonomikas zona</p>	Latviešu
<p>Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje</p> <p>Jei reikia išsamios informacijos apie šį „Yamaha“ produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdintinas failas) arba kreipkitės į „Yamaha“ atstovybę savo šalyje (kitas puslapis). *EEE – Europos ekonominė erdvė</p>	Lietuvių kalba
<p>Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku</p> <p>Podrobné informácie o záruke týkajúcej sa tohto produktu od spoločnosti Yamaha a garancnom servise v EHP* a Švajčiarsku nájdete na webovej stránke uvedenej nižšie (na našej webovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine (nasledujúca strana). * EHP: Európsky hospodársky priestor</p>	Slovenčina
<p>Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici</p> <p>Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi (naslednja stran). * EGP: Evropski gospodarski prostor</p>	Slovenščina
<p>Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария</p> <p>За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската зона на ЕИП* и Швейцария или посетете посочения до-долу уеб сайт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна (следваща страница). * ЕИП: Европейско икономическо пространство</p>	Български език
<p>Notificare importantă: Informații despre garanție pentru clienții din SEE* și Elveția</p> <p>Pentru informații detaliate privind acest produs Yamaha și serviciul de garanție Pan-SEE* și Elveția, vizitați site-ul la adresa de mai jos (fișierul imprimabil este disponibil pe site-ul nostru) sau contactați biroul reprezentanței Yamaha din țara dumneavoastră (pagina următoare). * SEE: Spațiul Economic European</p>	Limba română

<http://europe.yamaha.com/warranty/>

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

NORTH AMERICA

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Yamaha Canada Music Ltd.
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Tel: 416-298-1311

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Tel: +507-269-5311

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Siemensstraße 22-34, 25462 Rellingen, Germany
Tel: 04101-3030

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Yamaha Pro Audio global website
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