

disklavier **ENSPIRE**™

Disklavier Control Unit DKC-900

Owner's manual Mode d'emploi Benutzerhandbuch Manual de instrucciones Manuale di istruzioni

> EN FR DE ES IT

PlanoSoft PlanoSoft Pbs Smartkey

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 opera-

* This applies only to products distributed by Yamaha Corporation of America.

tion 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.

(class B)

COMPLIANCE INFORMATION STATEMENT (Supplier's declaration of conformity procedure)

Responsible Party : Yamaha Corporation of America Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620 Telephone : 714-522-9011 Type of Equipment : Disklavier Control Unit Model Name : DKC-900
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, and2) this device must accept any interference received including interference that may cause undesired operation.

This applies only to products distributed by Yamaha Corporation of America.

(FCC SDoC)



Explanation of Graphical Symbols



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- . 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

(UL60065_03)



NE PAS RETIRER LE CAPOT (OU LE DOS). NE CONTIENT PAS DE PIÈCES NÉCESSITANT L'INTERVENTION DE L'UTILISATEUR. POUR TOUTE INTERVENTION, FAIRE APPEL À DES PROFESSIONNELS QUALIFIÉS.

Explication des symboles graphiques



L'éclair avec une flèche à l'intérieur d'un triangle équilatéral est destiné à attirer l'attention de l'utilisateur sur la présence d'une « tension dangereuse » non isolée à l'intérieur de l'appareil, pouvant être suffisamment élevée pour constituer un risque d'électrocution.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à attirer l'attention de l'utilisateur sur la présence d'instructions importantes sur l'emploi ou la maintenance (réparation) de l'appareil dans la documentation fournie.

CONSIGNES DE SÉCURITÉ À LIRE ATTENTIVEMENT

- 1 Lisez les instructions ci-après.
- 2 Conservez ces instructions.
- 3 Tenez compte des avertissements.
- 4 Suivez toutes les instructions.
- 5 N'utilisez pas cet instrument dans un milieu humide.
- 6 Employez uniquement un chiffon sec pour nettoyer l'instrument.
- 7 N'obstruez pas les ouvertures prévues pour la ventilation. Installez l'instrument conformément aux instructions du fabricant.
- 8 N'installez pas l'instrument près d'une source de chaleur, notamment un radiateur, une bouche de chaleur, un poêle ou autres (y compris les amplificateurs).
- 9 Ne modifiez pas les caractéristiques de la fiche avec mise à la terre polarisée. Une fiche polarisée est dotée de deux broches (l'une est plus large que l'autre). Une fiche avec mise à la terre comprend deux broches, ainsi qu'une troisième qui relie l'instrument à la terre. La broche la plus large (ou troisième broche) permet de sécuriser l'installation électrique. Si vous ne pouvez pas brancher le cordon d'alimentation dans la prise d'alimentation, demandez à un électricien de la remplacer.
- 10 Protégez le cordon d'alimentation. Cela permet d'éviter de marcher dessus ou de le tordre au niveau de la fiche, de la prise d'alimentation et des points de contact sur l'instrument.

AVERTISSEMENT

- 11 N'employez que les dispositifs/accessoires indiqués par le fabricant.
- 12 Utilisez uniquement le chariot, le socle, le trépied, le support ou le plan indiqués par le fabricant ou livrés avec l'instrument. Si vous utilisez un chariot, soyez prudent si vous le déplacez avec l'instrument posé dessus pour éviter de le renverser.



- 13 Débranchez l'instrument en cas d'orage ou lorsque vous ne l'utilisez pas pendant des périodes prolongées.
- 14 Confiez toutes les réparations à des techniciens qualifiés. Des réparations sont nécessaires lorsque l'instrument est endommagé, notamment dans les cas suivants : cordon d'alimentation ou fiche défectueuse, liquides ou objets projetés sur l'appareil, exposition aux intempéries ou à l'humidité, fonctionnement anormal ou chute.

N'UTILISEZ PAS L'INSTRUMENT SOUS LA PLUIE OU DANS UN ENVIRONNEMENT HUMIDE, FAUTE DE QUOI VOUS RISQUEZ DE PROVOQUER UN INCENDIE OU DE VOUS ÉLECTROCUTER.

(UL60065_03)

SIMPLIFIED UK DECLARATION OF CONFORMITY

Hereby, Yamaha Corporation declares that this model is in compliance with the Product Security and Telecommunications Infrastructure Regulations. The full text of the UK Declaration of Conformity is available at the following internet address: https://europe.yamaha.com/en/support/compliance/doc.html

Information for users on collection and disposal of old equipment:



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in

accordance with your national legislation.

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.

For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

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:

This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

(weee_eu_en_02)

Informations concernant la collecte et le traitement des déchets d'équipements électriques et électroniques



Le symbole sur les produits, l'emballage et/ou les documents joints signifie que les produits électriques ou électroniques usagés ne doivent pas être mélangés avec les déchets domestiques habituels. Pour un traitement, une récupération et un recyclage appropriés des déchets d'équipements électriques et électroniques, veuillez les déposer aux points de collecte prévus à cet effet, conformément à la réglementation nationale.

En vous débarrassant correctement des déchets d'équipements électriques et électroniques, vous contribuerez à la sauvegarde de précieuses ressources et à la prévention de potentiels effets négatifs sur la santé humaine qui pourraient advenir lors d'un traitement inapproprié des déchets.

Pour plus d'informations à propos de la collecte et du recyclage des déchets d'équipements électriques et électroniques, veuillez contacter votre municipalité, votre service de traitement des déchets ou le point de vente où vous avez acheté les produits.

Pour les professionnels dans l'Union européenne :

Si vous souhaitez vous débarrasser des déchets d'équipements électriques et électroniques, veuillez contacter votre vendeur ou fournisseur pour plus d'informations.

Informations sur la mise au rebut dans d'autres pays en dehors de l'Union européenne :

Ce symbole est seulement valable dans l'Union européenne. Si vous souhaitez vous débarrasser de déchets d'équipements électriques et électroniques, veuillez contacter les autorités locales ou votre fournisseur et demander la méthode de traitement appropriée

(weee_eu_fr_02)

Verbraucherinformation zur Sammlung und Entsorgung alter Elektrogeräte



Befindet sich dieses Symbol auf den Produkten, der Verpackung und/oder beiliegenden Unterlagen, so sollten benutzte elektrische Geräte nicht mit dem normalen Haushaltsabfall entsorgt werden. In Übereinstimmung mit Ihren nationalen Bestimmungen bringen Sie alte Geräte bitte zur fachgerechten Entsorgung, Wiederaufbereitung und Wiederverwendung zu den entsprechenden Sammelstellen.

Durch die fachgerechte Entsorgung der Elektrogeräte helfen Sie, wertvolle Ressourcen zu schützen, und verhindern mögliche negative Auswirkungen auf die menschliche Gesundheit und die Umwelt, die andernfalls durch unsachgerechte Müllentsorgung auftreten könnten.

Für weitere Informationen zum Sammeln und Wiederaufbereiten alter Elektrogeräte kontaktieren Sie bitte Ihre örtliche Stadt- oder Gemeindeverwaltung, Ihren Abfallentsorgungsdienst oder die Verkaufsstelle der Artikel.

Information für geschäftliche Anwender in der Europäischen Union:

Wenn Sie Elektrogeräte ausrangieren möchten, kontaktieren Sie bitte Ihren Händler oder Zulieferer für weitere Informationen.

Entsorgungsinformation für Länder außerhalb der Europäischen Union:

Dieses Symbol gilt nur innerhalb der Europäischen Union. Wenn Sie solche Artikel ausrangieren möchten, kontaktieren Sie bitte Ihre örtlichen Behörden oder Ihren Händler und fragen Sie nach der sachgerechten Entsorgungsmethode.

(weee_eu_de_02)



Este símbolo solo es válido en la Unión Europea. Si desea desechar estos artículos, póngase en contacto con las autoridades locales o con el vendedor y pregúnteles el método correcto.

(weee_eu_es_02)

Informazioni per gli utenti sulla raccolta e lo smaltimento di vecchia attrezzatura



Questi simboli sui prodotti, sull'imballaggio e/o sui documenti che li accompagnano, indicano che i prodotti elettrici ed elettronici non devono essere mischiati con i rifiuti generici.

Per il trattamento, il recupero e il riciclaggio appropriato di vecchi prodotti, si prega di portarli ai punti di raccolta designati, in accordo con la legislazione locale.

Smaltendo correttamente questi prodotti si potranno recuperare risorse preziose, oltre a prevenire potenziali effetti negativi sulla salute e l'ambiente che potrebbero sorgere a causa del trattamento improprio dei rifiuti.

Per ulteriori informazioni sulla raccolta e il riciclaggio di vecchi prodotti, si prega di contattare l'amministrazione comunale locale, il servizio di smaltimento dei rifiuti o il punto vendita dove sono stati acquistati gli articoli.

Per utenti imprenditori dell'Unione europea:

Se si desidera scartare attrezzatura elettrica ed elettronica, si prega di contattare il proprio rivenditore o il proprio fornitore per ulteriori informazioni.

Informazioni sullo smaltimento negli altri Paesi al di fuori dell'Unione europea:

Questi simboli sono validi solamente nell'Unione Europea; se si desidera scartare questi articoli, si prega di contattare le autorità locali o il rivenditore e richiedere informazioni sulla corretta modalità di smaltimento.

disklavier **ENSPIRE**™

Disklavier Control Unit DKC-900

Owner's Manual

Welcome to the Yamaha Disklavier[™]!

Thank you for purchasing the Disklavier Control Unit!

Before using your this product, please read this manual thoroughly and retain it for future reference.

About this product

Installing this product to your Disklavier piano additionally allows you to play back accompanying audio sounds. These include professional vocal performances by worldwide famous artists, acoustic performances on instruments such as violin and cello, and other audio sounds—giving you the experience and atmosphere of an actual live performance. This product also lets you perform simple operations from the screen of your smartphone or tablet. Moreover, you can still enjoy the Silent Piano[™] function, Auto Play function, as well as the recording and playback functions of the Disklavier E3 and Disklavier Mark IV.

About the Manuals

The following instruction manuals are available for this product.

Booklet manual



Please keep this manual for future reference along with the Disklavier E3 owner's manual or Disklavier Mark IV owner's manual.

Disklavier ENSPIRE Built-in song list

This is a list of built-in songs that can be automatically played by this product.

You can also download this list from the Yamaha website.

Online Manuals (PDF)



Disklavier ENSPIRE Controller Application Instruction Manual

This is the operation manual for the ENSPIRE Controller app, which is a special app that lets you actually operate the various functions of this product.

You can call up this operation manual from the Information screen of the ENSPIRE Controller app. You can also download the manual from the Yamaha website.

To obtain these materials, access the Yamaha Downloads website, then enter the model name for searching the desired files.

Yamaha Downloads

https://download.yamaha.com/

Included Accessories

Please make sure that you have the following accessories:

- Owner's Manual (this book) $\times\,1$
- Built-in song list \times 1
- USB wireless LAN adaptor (UD-WL01) × 1
- AC adaptor* (PA-300C or an equivalent recommended by Yamaha) × 1
- Power cord* × 1
- Audio cable × 1 (pin plugs pin plugs)
- Bracket* × 1
- * When installing this product, it may already be connected.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

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

For the AC Adaptor

🖄 WARNING

- This AC adaptor is designed for use with only Yamaha electronic instruments. Do not use for any other purpose.
- Indoor use only. Do not use in any wet environments.

A CAUTION

• When setting up, make sure that the AC outlet is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch of the instrument and disconnect the AC adaptor from the outlet. When the AC adaptor is connected to the AC outlet, keep in mind that electricity is flowing at the minimum level, even if the power switch is turned off. When you are not using the instrument for a long time, make sure to unplug the power cord from the wall AC outlet.

For the DKC-900

A 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:

Power supply/AC adaptor

- When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. Then have the device inspected by Yamaha service personnel.
 - When foreign matter or liquid gets inside this product.
 - It emits unusual smells or smoke.
 - There is a sudden loss of sound during use of this product.
- Use the specified adaptor (page 3) only. Using the wrong adaptor can result in damage to this product or overheating.
- Use only the supplied power cord. Using other power cords may cause heat or electric shock.
- This AC adaptor is designed for use with only Yamaha electronic instruments. Do not use for any other purpose. It may cause damage, heat or fire.
- The power adaptor is for indoor use only and should not be used outdoors or in a dripping environment.

Location

 Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.

• Never insert or remove an electric plug with wet hands.

Do not open

• This product contains no user-serviceable parts. Do not open the instrument or attempt to disassemble or modify the internal components in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Maintenance

- Always remove the power plug from the AC outlet before cleaning this product. Leaving the power plug connected presents a risk of electric shock.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it. There is a risk of electric shock or short circuit.
- Use a dry cloth to wipe the units. It may cause an electric shock, fire or breakdown.

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

Power supply/AC adaptor

- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Do not connect the instrument to an electrical outlet using a multiple connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- Do not use if the power cord or plug is damaged. It may cause an electric shock, short circuit or fire.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms. It may cause an electric shock, short circuit or fire.
- When removing the electric plug from this product or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.

Location

- Do not place the instrument in an unstable position where it might accidentally fall over.
- Do not locate this product in a place subject to excessive heat, low temperatures, or direct sunlight. This could be a fire hazard and may damage the finish and internal parts.
- Do not place objects in front of the instrument's air vent, since this may prevent adequate ventilation of the internal components, and possibly result in this product overheating.
- Do not use near other appliances such as TVs, radios, speakers, etc. Due to the extensive use of digital circuits, noise may occur in TVs and radios.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.

Connections

• Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.

Transportation

- Do not drag when moving this product. There is a risk of damaging the floor.
- Before moving the instrument, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
- Do not pinch your hands or feet when moving this product. There is a risk of injury.
- When moving this product, do it slowly and carefully. There is a risk of this product falling and colliding with the surroundings. We recommend that you use a specialized vendor to transport or move this product.

Handling caution

- Do not rest your weight on, or place heavy objects on this product, and do not use excessive force on the buttons, switches or connectors.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. This could cause physical injury to you or others, damage to this product or other property, or operational failure. It may cause electric shock, short circuit, fire or breakdown.
- Do not use this product/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.
- Close the fallboard when not using this product. Open and close the keyboard lid with both hands. Make sure that people around you don't touch the keyboard lid carelessly. There is a risk of injury by holding your hand or finger in the Keyboard lid.
- Do not go near the instrument during an earthquake. Strong shaking during an earthquake could cause the instrument to move or tip over, resulting in damage to this product or its parts, and possibly causing injury.

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

Always turn the power off when the instrument is not in use.

■ Trademarks & Copyrights

- The contents of this manual and the copyrights thereof are under exclusive ownership by Yamaha Corporation.
- Yamaha, Disklavier, Disklavier ENSPIRE, Silent Piano, DisklavierRadio, PianoSoft, and PianoSoftPlus are trademarks of Yamaha Corporation.



- SmartKey and CueTIME are trademarks of Yamaha Corporation or Yamaha Corporation of America.
- Disklavier ENSPIRE software, Copyright © 2016 Yamaha Corporation.
- This contains programs licensed under the GNU General Public License, GNU Lesser General Public License, the BSD Copyright, the Artistic License, and others.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (https://www.openssl.org/)
- App Store is a trademark of Apple Inc., registered in the U.S. and other countries.
- Android and Google Play are trademarks of Google LLC.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.
- All illustrations and screens shown in this Owner's Manual are for purposes of explaining operation, and may differ somewhat from actual specifications.

Notes on Source Code Distribution

For three years after the factory shipment, you may request from Yamaha the source code for any portions of the product which are licensed under the GNU General Public License by writing to the following address:

10-1 Nakazawa-cho, Chuo-ku, Hamamatsu, Shizuoka, 430-8650, JAPAN Piano Development Department, Yamaha Corporation

The source code will be provided at no charge; however, we may require you to reimburse Yamaha for the cost of delivering the source code to you.

The source code download is also available at the following website: https://download.yamaha.com/sourcecodes/disklavier/

- Note that we shall bear no responsibility whatsoever for any damage arising from changes (additions/ deletions) made to the software for this product by a third party other than Yamaha (or party authorized by Yamaha).
- Note that re-use of source code released to the public domain by Yamaha is unguaranteed, and Yamaha shall not bear any responsibility whatsoever for the source code.

The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No.

Serial No.



(bottom_en_01)

Table of Contents

About the Manuals	3
Included Accessories	3

Chapter 1 Introduction8

Main Features	8
Names of Parts and Their Functions	9
Compatible Media and File Format	12

Chapter 2 Getting Started......13

Connecting the AC Power Cable	13
Connect powered speakers (Sold separately for	
Upright piano)	4
Turning the Power On/Off	15
How to use the Silent Piano™ Function (For Piano	os
Equipped with the Silent Piano [™] Function)	17
Connecting the Product and Smart Device to a	
Network	8
Choosing the Network Connection Method	9
Wireless Network Connection by WPS	21
Wired Network Connection2	23
Direct Wireless Connection	24
Using the ENSPIRE Controller App	25
Yamaha Music ID Registration2	25

Chapter 3 Other Settings......26

Updating this product	26
Initializing Network Settings	27

Chapter	6	Specifications	33
<u></u>			~~

General Specifications	33
------------------------	----

Appendix XG Voice List...... A-3 XG Drum Kit List..... A-6 MIDI Data Format A-8

MIDI IMPLEMENTATION CHART at the end of the book



Main Features

This product provides a variety of sophisticated features and advanced functions that greatly expand the capabilities of your piano—and enhance your musical enjoyment.

Simple operation with your smart device

- By connecting your smartphone, tablet or other smart device to the same network as this product and installing the special ENSPIRE Controller app, you can use a variety of functions, such as the auto play function that records and reproduces piano performances and the ensemble function that plays various instrumental parts using the wide range of voices produced by the built-in tone generator.
- Choose your favorites from 500 built-in songs or purchased songs, and enjoy your favorite songs in your own original playlist.



See page 18 for more information on the ENSPIRE Controller app.

Huge Variety of Professional-quality Songs

 A total of 500 piano pieces are stored internally, ranging in genre from famous classical pieces to popular music and jazz, there for you to enjoy as the mood takes you. Songs including professional vocal performances by artists in collaboration with Yamaha let you experience the atmosphere of a live performance, and Yamaha also provides a special 24-hour Disklavier Premium Pass streaming service.

* An optional powered speaker is required to play back parts other than the piano sound. (Sold separately for upright piano.)

 Music of various genres is available for purchase via download at the Yamaha website (<u>https://shop.usa.yamaha.com/en/downloadables</u>), letting you buy the latest songs at any time from the comfort of your home. Insert a USB flash drive to your Internet-connected Disklavier in order to download and immediately start playing purchased data via the ENSPIRE Controller app.

Convenient function (SmartKey function)

• SmartKey feature that shows you the next key to play with by moving the keys slightly—an ideal function for beginners. Playing the keys in the order shown leads you through the song, allowing even beginning players to enjoy practicing. For SmartKey Songs, please refer to the included built-in song list.

Note:

- Yamaha product firmware and supplied apps may occasionally be updated to improve functionality and operability. Certain functions may not be available with older versions, so we recommend that you update to the latest version. Refer to page 26 for how to update the version of this product.
- For the smart device, refer to the glossary (page 32).

English

Names of Parts and Their Functions

This product consists of the following units.

- Switch Box (following)...... Turn this product on/off to control functions.
- Control Center Unit (page 11)...... It is equipped with terminals for connecting external devices.

Switch Box (Front and Bottom panel)

Front panel



● [⁽] (Standby/On) button/indicator

Turns this product on or off. When this button is operated, the [\emptyset] lamp on the front of the switch box indicates the power status as follows.

Condition	Status	
Off	This product cannot be turned on because the power plug is unplugged.	
Lit	This product is turned on.	
Dim lit	This product is turned off (standby).	
Flashing	This product is shutting down.	
Slow flashing	This product is starting up.	

[] - VOLUME +] buttons/indicators

These display the volume level (over 10 steps). Each indicator shows the volume in 2 steps with varying brightness.

③ [►/II] (Play/Pause) button/indicator

For starting and pauses playback.

- Playback starts from the last loaded song before turning the power off.
- If the last song cannot be loaded, playback starts from the first song of the internal demo songs. The indicator lights up when playing back a song.If

The indicator lights up when playing back a song. If song playback is stopped/paused, the indicator will go dark.

HEADPHONE jack

Used to connect a set of headphones. When headphones are connected, the sound of the acoustic piano is cancelled and the electronic piano sounds can be heard through the headphones.

A Caution:

- To prevent damage to your hearing, refrain from raising the volume to excessive levels, and do not use the headphones for extended periods of time.
- Do not pull the headphone cord or apply excessive force on the plug. This can damage the headphone and lead to sound output malfunction.

[USB] terminal

Used to connect the USB flash drive.

Note:

This product cannot detect the USB flash drive if two or more memory devices are connected at the same time.

6 Error indicator

Flashes when some error has occurred. See "Error Indications" on page 30.



Switch Box (Rear Panel)



1 [AUTO PLAY] switch

For activating or deactivating the auto play function. If you leave the switch set to "ON," playback automatically starts when the power is turned on. (Default setting: OFF)

[AUTO OFF MODE] switch

When this is turned on, this product will turn off automatically if the following conditions continue for a certain period of time. (Default setting: ON)

- No operation has been performed on the switch box.
- · No operation has been performed on the ENSPIRE Controller app.
- The keyboard has not been played.
- This product has not received the MIDI data.

Note:

You can change the automatic turn off time with the ENSPIRE Controller app.

[MAINTENANCE] button

For service personnel only. Do not touch this button.

[USB] terminal

Used to connect the USB wireless LAN adaptor (UD-WL01).

Note:

This product cannot detect the USB flash drive if two or more memory devices are connected at the same time.

[WLAN] switch

For setting the method for wireless LAN connection when connecting the USB wireless LAN adaptor to the [USB] terminal. See "Connecting the Product and Smart Device to a Network" on page 18. (Default setting: RT)

Functions that can be operated by Switch Box

The functions that can be operated with the Switch Box are only power on/off, song playback/pause, and volume control of acoustic piano/internal electronic sound source (page 9). The other functions are controlled only from the application of your smartphone or tablet.

English

■ Control Center Unit

Rear panel



Side panel



[USB] (To DEVICE) terminal

Used to connect the USB flash drive. Note:

This product cannot detect the USB flash drive if two or more memory devices are connected at the same time.

2 [LAN] port

Used to connect the router or hub using an Ethernet cable.

[USB] (To HOST) terminal

Used to connect the computer using a USB cable.

[MIDI IN]/[MIDI OUT] jacks

Used to connect to the MIDI input or output jacks of external MIDI devices using MIDI cables.

[DIGITAL OUT] jack

Used to connect to the digital input jack of an external audio device using a digital coaxial cable.

[OMNI] (SYNC) [IN]/[OUT] jacks

Used to connect to the input or output jacks of external audio devices using RCA cables.

[OUTPUT] jacks

Used to connect the monitor speakers.

Compatible Media and File Format

■ Compatible Device

USB Flash Drive

- The USB flash drive should be formatted in FAT16 or FAT32 file system.
- Check that the USB flash drive is free of memory and software protection before attempting to use it, as these kinds of protection will prohibit access to the memory.
- This product is USB 2.0 compliant. You can also connect USB 3.0 devices, however data will be transferred at USB 2.0 speeds.

■ Compatible File Formats

This product can handle these four types of file format:

Song Format	File Format	Extension
MIDI	SMF0 Standard MIDI File format 0 for playback and recording.	.MID
	SMF1 Standard MIDI File format 1 for playback only.	.MID
Audio	WAV Uncompressed audio file format commonly used to create standard audio CDs. This product can play back 44.1kHz/16bit stereo WAV files.	.WAV
	MP3 Compressed audio file format commonly used in computers and smart devices.	.MP3

Notice:

- Do not remove the USB flash drive or turn on or off the power during data transfer as breakage may result.
- Do not insert and remove the USB flash drive too frequently as breakage may result.
- Be careful not to bump the USB flash drive with your legs when it is connected to the unit.
- Do not insert any objects other than the USB flash drive into the USB terminal as it may become unusable.

Note:

Yamaha does not assure the operation of the commercially available USB flash drives.



Connecting the AC Power Cable

Connect the AC power cable extending from the piano to the AC wall outlet. This connection provides power to the autoplay piano.

Grand piano



Upright piano

Marning:

Use the AC power cable attached to the piano. Use of other AC power cables may result in damage, overheating, or fire.

2 Connect the power cord connected to the DKC-900's power adaptor. This connection supplies power to the control center unit and the switch box.

Connect the plugs of the AC adaptor in the order shown in the illustration.

In the upright piano, the DC plug of the power adaptor is connected to the DC IN terminal beforehand.



▲ Caution:

- Do not stretch the cable or bend its ends.
- Do not attempt to use the cable if it is stretched or if the ends of the cable have been bent. Attempting to do so may cause interruptions to the power supply.
- Always turn off the main unit power before disconnecting the AC power cable.
- When you wish to move the piano, unplug the AC power cable from the AC outlet before proceeding.
- Unplug the AC power cable from the AC outlet if you do not intend to use the instrument for an extended period of time.

Connect powered speakers (Sold separately for Upright piano)

You can connect powered speakers to the [OUTPUT] jacks as illustrated.

* The audio cable should be 3m or less in length, and use an audio cable (conversion cable) that matches the shape of the INPUT LINE jack on the speaker side.



Notice:

To avoid possible damage to the devices, first turn on the power to this pruduct, then to the external device.

When turning off the power, first turn off the power to the external device, then to this pruduct.

Turning the Power On/Off

■ Turning the Power On

Make sure that the main switch on the power supply unit/ inlet box is turned on.

In the case of Grand piano In the case of Upright piano



Under normal use, the power switch of the power supply unit remains on, but there is no problem, but if you do not use it for a long period of time or if you feel something wrong, turn off the power supply unit and turn the power cord from the outlet.

2 Press the [0] (Standby/On) button.

The $[\Phi]$ indicator flashes slowly (every one second).



After several seconds, the $[\ensuremath{\varPhi}]$ indicator lights up. This product is now ready for use.

■ Turning the Power Off (Standby)

Press the [0] (Standby/On) button.

The $[\Phi]$ indicator flashes (every 0.5 seconds).



1

After several seconds, the $[\Phi]$ indicator lights up dimly.

Chapter

■ Setting the Auto Off Function

You can turn the power off automatically if you do not use the product for the time specified with the ENSPIRE Controller app.

1

Set the [AUTO OFF MODE] switch on the rear of the switch box.



Setting	Description
ON	The auto off function is activated. The product is automatically turned off if you do not use it for the time specified with the ENSPIRE Controller app.
OFF	The auto off function is deactivated. Use the $[\Phi]$ (Standby/On) button to turn the power off.

Note:

When set to ON, this product automatically turns off under the following conditions:

- No operation is performed on the switch box.
- No operation is performed on the ENSPIRE Controller app.
- The keyboard is not being played.
- This product does not receive the MIDI data.



How to use the Silent Piano[™] Function (For Pianos Equipped with the Silent Piano[™] Function)

This product has the original mechanism of a piano that strikes strings with hammers, and also has a "Silent Piano[™] function" that effectively mutes the sound. When the sound is muted, the hammers inside the piano do not strike the strings, and the piano sound is heard entirely as electronic sound from powered speaker (in Quiet mode) or the headphones (in Headphone mode). The method of switching to each mode is as follows.

[Quiet Mode]

In this mode, the hammers do not strike the strings, and the piano sound can be heard from a powered speaker (Sold separately for upright piano). This is convenient when you wish to play with a quieter sound, etc.

[Headphone mode]

In this mode, the piano sound is entirely heard from the headphones, which is convenient when you do not wish to produce piano sound, such as when practicing at night.

■ Silent Piano[™] Function on Grand Piano

Quiet Mode

Perform this operation from the ENSPIRE Controller app (page 25). Switch the Silent Piano[™] function mode to Quiet with "Acoustic/Quiet" on the Balance screen within the app. (If the headphones are connected to the [HEADPHONE] jack, disconnect the headphones.)

Headphone mode

Connect the headphones to the [HEADPHONE] jack of the DKC-900 switch box to switch to Headphone mode.

■ Silent Piano[™] Function on Upright Piano

Quiet Mode

Press down the center pedal and slide it to the left to set to Quiet mode. (If the headphones are connected to the [HEADPHONE] jack, disconnect the headphones.)



Headphone mode

Press down the center pedal and slide it to the left to set to Quiet mode, and then connect the headphones to the [HEADPHONE] jack of the switch box to switch to Headphone mode.

Note:

To use Quiet mode, a powered speaker (sold separately for upright piano) is required.

Note:

When headphones are connected, "Acoustic/Quiet" is automatically set to "Headphone."

Connecting the Product and Smart Device to a Network

By connecting this product and smart device to a network, you can enjoy a variety of features as represented by Disklavier Premium Pass streaming service, or control this product using your smart device (ENSPIRE Controller app).

To fully control this product with the ENSPIRE Controller app, you must connect this product and smart device. Here is the summary for connection:

1	Install the ENSPIRE Controller app to your smart device (following).
_	
2	Choose the connection method (page 19).
3	Connect this product and smart device to a network (page 21 to 24).
4	Search for this product using the ENSPIRE Controller app and connect to it (page 25).

Preparations

- To use the Internet connection, you will first need to subscribe to an Internet service or provider.
- Use a computer to obtain and configure Internet service. You cannot obtain Internet service or configure router settings on a local area network using this product itself.

Installing the App

To connect your smart device to this product, you must install the ENSPIRE Controller app to your smart device.



For details, search for "ENSPIRE Controller" on the App Store or Google Play.

For the ENSPIRE Controller app functions and operation instructions, refer to the Disklavier ENSPIRE Controller operation manual. The ENSPIRE Controller operation manual is located on the Information page within the ENSPIRE Controller app.

You can also download it from the website below. https://download.yamaha.com/

Note:

- This product attempts to achieve a balance between security and usability in its network implementation. However, a determined hacker may be able to defeat these security measures and utilize the network of the purchaser in an unauthorized manner. Since each network is different, only the purchaser can determine whether the security measures discussed here will adequately protect their network.
- The purchaser acknowledges that connection to the Internet and use of this product Internet features is done at the risk of the purchaser. In no event shall Yamaha, its subsidiaries or Yamaha's and/or its subsidiaries' directors, officers, or employees be responsible for unauthorized access, loss or alteration of the data of the purchaser or be liable for any damage from intrusions.
- For the smart device, refer to the glossary (page 32).

Note:

- The application supports iOS and Android devices.
- For details on the application, refer to the description on the download site.

Choosing the Network Connection Method

You can use one of the three methods of connections below. Select one which is most suitable for your network environment.

■ Wireless Network Connection by WPS (☞ page 21)

Choose this if you have a wireless router (access point) that supports WPS. Connection will be established via a wireless router (access point).



Requirements:

- USB wireless LAN adaptor (UD-WL01)
- · Wireless router (access point) that supports WPS

WPS (Wi-Fi Protected Setup)

WPS is a wireless networking standard that makes connections between a router and wireless devices faster and easier. A router with WPS functionality is required to use WPS. Consult your wireless router (access point) specifications for compatibility information.

Note:

For the smart device, refer to the glossary (page 32).

■ Wired Network Connection (☞ page 23)

Choose this if you have a wireless router (access point) that does not support WPS. Connection will be established via wireless router (access point).



Requirements:

- Ethernet cable
- · Wireless router (access point)

■ Direct Wireless Connection (☞ page 24)

Choose this if you do not have a wireless router (access point) or there is no wireless router (access point) available nearby. You can use this product as an access point to establish a direct wireless connection between this product and your smart device.





Wireless LAN



ss LAN Sn

Smart devices

Note:

Use an STP (shielded twisted pair) cable for connection.

Notice:

- To ensure proper security, when connecting this product to the Internet, be sure to connect via a router, etc.
- Set an appropriate password for the router, etc. being used.
- Do not connect directly to the
- communication circuits (including
- public line LAN) of the
- telecommunications carriers (mobile
- telecommunication companies,
- fixed-line telecommunication
- companies, Internet providers, etc.).

Note:

If this product is connected directly to your smart device, no Internet access is available on your smart device.

Requirements:

• USB wireless LAN adaptor (UD-WL01)

Wireless Network Connection by WPS

If your wireless router (access point) supports WPS, you can easily connect this product to a network just by following the procedures below, without making any additional settings, such as entering a password.

- Press the [0] (Standby/On) button to turn the power off.
- **2** Connect the USB wireless LAN adaptor (UD-WL01) to the [USB] terminal on the rear of the switch box.





Check that the [WLAN] switch on the rear of the switch box is set to "RT."

RT AP

]
WLA	N

4 Press the [0] (Standby/On) button to turn the power on.

5 Hold down the WPS button on the USB wireless LAN adaptor (UD-WL01) for at least five seconds.

The LED lamp on the USB wireless LAN adaptor (UD-WL01) flashes every 0.5 seconds.

6 Press the WPS button on your wireless router (access point) within two minutes after step 5.

When this product is successfully connected to the wireless router (access point), the LED lamp on the USB wireless LAN adaptor (UD-WL01) lights up.

Connection between this product and the wireless router (access point) is now established. Once this product is connected to your wireless router (access point) by WPS, the setting will be remembered by this product, and you will not need to repeat this process the next time.

Note:

To check whether your wireless router (access point) supports WPS, refer to the owner's manual supplied with your wireless router (access point).

Note:

On powering up, the display may indicate an error message that flashes in red, reading "The wireless router (access point) is not found." However, you can safely ignore the error, and proceed to step 5.

Note:

For details on the WPS setting, refer to the owner's manual supplied with your wireless router (access point).

Continue to the next page

Getting Started

- **7** Open the Wi-Fi setting screen on your smart device.
- 8 Enable the Wi-Fi function.
- **9** From the network list shown on the screen, tap on the network to which you connected this product.

If necessary, enter a password, and then connect.

10 Open the app and connect to the this product (page 25).

Note:

For details on the Wi-Fi setting, refer to the owner's manual supplied with your smart device.

English

Wired Network Connection

If your wireless router (access point) does not support WPS, you can connect this product to a wireless router (access point) using an Ethernet cable.

Press the [0] (Standby/On) button to turn the power off.

2 Connect the wireless router (access point) to the [LAN] port on the control center unit using an Ethernet cable.



- **3** Enable the DHCP server function on the wireless router (access point).
- **4** Press the [Φ] (Standby/On) button to turn the power on. Connection between this product and the wireless router (access point) is automatically established in approximately 15 to 20 seconds.
- **5** Open the Wi-Fi setting screen on your smart device.
- 6 Enable the Wi-Fi function.

1

7 From the displayed network list, tap the network to which this product is connected.

If necessary, enter a password, and then connect.

Open the app and connect to the this product (page 25).

Notice:

To ensure proper security, when connecting this product to the Internet, be sure to connect via a router, etc. Set an appropriate password for the router, etc. being used. Do not connect directly to the communication circuits (including public line LAN) of the telecommunications carriers (mobile telecommunication companies, fixed-line telecommunication companies, Internet providers, etc.).

Note:

For details on the DHCP setting, refer to the owner's manual supplied with your wireless router (access point).

Note:

For details on the Wi-Fi setting, refer to the owner's manual supplied with your smart device.

Direct Wireless Connection

You can use this product as an access point to establish a direct wireless connection between this product and your smart device.

Press the [0] (Standby/On) button to turn the power off.

1

2 Connect the USB wireless LAN adaptor (UD-WL01) to the [USB] terminal on the rear of the switch box.





6

Set the [WLAN] switch on the rear of the switch box to "AP."

RT	AP
WL	AN

4 Press the [0] (Standby/On) button to turn the power on.

When this product is set as an access point, the LED lamp of the USB wireless LAN adaptor (UD-WL01) lights up. You can now use this product as an access point.

- **5** Open the Wi-Fi setting screen on your smart device.
 - Enable the Wi-Fi function.
- 7 From the network list shown on the screen, tap on [DKV********].

For Android

A dialog box window opens on the screen of the smart device and asks "This network has no internet access. Stay connected?". Tap "Yes".

8 Open the app and connect to the this product (page 25).

Note:

If you connect the product directly to a smart device, you will not be able to use functions that require an Internet connection.

Note:

As a default, the [WLAN] switch is set to the "RT" position.

Note:

For details on the Wi-Fi setting, refer to the owner's manual supplied with your smart device.

Note:

[DKV********] differs depending on each Disklavier.

English

Using the ENSPIRE Controller App

Connect a smart device to this product

After you have connected your smart device to a network, open the ENSPIRE Controller app and select this product from the list. Tapping this product name will open the control screen of that Disklavier.



Display screen of ENSPIRE Controller app "Control Screen"



Note:

For the smart device, refer to the glossary (page 32).

Note:

When the speaker mark is tapped on the Select Disklavier ENSPIRE screen of the app, a chord (C-E-G) is automatically played one time for individual confirmation from the selected piano.

Yamaha Music ID Registration

To use Disklavier Premium Pass and other services, initial registration to Yamaha Music ID is required using an Internet-connected device.

Please register at the following website: https://shop.usa.yamaha.com/en/customer/account/login/

Once you have a Yamaha Music ID account, you will interact with that account using the ENSPIRE Controller app. To use these services fully, you are required to enter your registered ID (e-mail address) and password on the ENSPIRE Controller app.



Updating this product

Yamaha product firmware may occasionally be updated to improve functionality and operability. Certain functions may not be available with older firmware versions, so we recommend following the instructions below to update to the latest version.

1

Download the update program file.

You can download the update program from the following site: https://download.yamaha.com/

- 2 Copy "en_update.bin" included in the downloaded file to the root directory of the USB flash drive.
- **3** Press the [0] (Standby/On) button to turn the power off.
- 4 Connect the USB flash drive to the [USB] terminal on the front of the switch box.



5 While holding down the [►/II] (Play/Pause) button, press the [⁽] (Standby/On) button.



If any available update program is detected, this product starts to update. The update progress is indicated with the [- VOLUME +] indicators.

VOLUME +

When the update is complete, this product restarts automatically. After this product restarts, check the firmware version using the ENSPIRE Controller app.

Note:

- To update this product, you will need a USB flash drive with 2GB or more of free space.
- You can also update this product using the ENSPIRE Controller app. To update this product using the app, Internet connection is required.

Note:

It is recommended that the USB flash drive only contains the update program file.



DO NOT turn the power off or disconnect the USB flash drive during update.



Initializing Network Settings

If the ENSPIRE Controller app cannot connect to this product due to the improper network settings, follow the procedure below to initialize network settings on this product.

1 Press the [0] (Standby/On) button to turn the power off.

2 While holding down the [- VOLUME +] buttons, press the [^(b)] (Standby/On) button.



After this product is turned on, restart the ENSPIRE Controller app.



Troubleshooting

If you are having difficulty operating this product, see if any of the symptoms listed below apply to your problem and follow the recommended remedy.

Power

Symptom	Remedy
This product does not turn on.	Make sure that the main switch on the power supply unit is turned on.
	Make sure that the AC power cable is securely connected to a suitable AC wall outlet.
	If this product still cannot be turned on, disconnect it from the AC wall outlet, and consult your Yamaha piano dealer.

Switch Box

Symptom	Remedy
The switch box does not appear to work correctly.	Turn off the switch box, wait 5 seconds, then turn it back on. If the problem continues, consult your Yamaha piano dealer.
The switch box becomes hot.	The chassis of the switch box may become hot depending on usage conditions.

Playback

Symptom	Remedy
This product does not read a song file.	Make sure that the name of the SMF song has the extension of ".mid" and the audio song has ".wav" or ".mp3."
Some notes drop out during playback.	When a piano song is played back at a low volume, complex note trills and faint pianissimo passages sometimes drop out. In such cases, increase this product volume level.

SILENT Piano[™] Function (for pianos equipped with the SILENT Piano[™] function)

Symptom	Remedy
Sound is not output properly or evenly.	Since the keyboard was pressed when the power is turned on, the keyboard position is detected incorrectly. Turn off the power and turn it on again to reset the function. Do not touch any keys when turning the power on.

Troubleshooting



English

Network

Symptom	Remedy		
This product cannot connect to the Internet via a wireless router (access point).	Make sure that the wireless router (access point) is turned on.		
	This product and the wireless router (access point) might be too far apart. Place this product and the wireless router (access point) closer to each other.		
	There might be an obstacle between this product and the wireless router (access point). Move the wireless router (access point) to a location where there are no obstacles between them.		
	If you connect this product and the wireless router (access point) using an Ethernet cable, enable the DHCP server function on your wireless router (access point).		
Wireless network is not found.	Microwave ovens or other wireless devices in your network area might disturb the wireless communication. Turn off these devices.		
	Access to the network is restricted by the firewall settings of the wireless router (access point). Check the firewall setting of the wireless router (access point).		
The ENSPIRE Controller app does not detect this product.	This product and smart device are not on the same network. Check the network connections and settings on the wireless router (access point), and then connect this product and smart device to the same network.		
A sudden sound comes from the piano when wireless connection to a smart device is used.	When the speaker mark is tapped on the Select Disklavier ENSPIRE screen of the app, a chord (C-E-G) is automatically played one time for individual confirmation from the selected piano. This is not a malfunction.		

Chapter

Error Indications

The error indicator may flash in red when some error has occurred. Refer to the table below for an explanation of the indication.

Example of Indication:

Flashing Lighting up

O

	\bigcirc	

Indication	Situation	Remedy
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Firmware update is failed.	Turn off the power of this product. Download the update program and try to update the firmware again. If the problem still persists, consult your Yamaha piano dealer.
●	Two or more USB flash drives are connected at the same time.	You can use only one USB flash drive at a time. Disconnect the other USB flash drive.
	The USB flash drive is protected.	Unprotect the USB flash drive.
	The wireless router (access point) is not found.	Make sure that the wireless router (access point) is turned on.
		If you connect this product and the wireless router (access point) using an Ethernet cable, make sure that the cable is firmly connected to the wireless router (access point).
Twice ● ○ ○ ○ ○ ○ ○ ○ Ů - VOLUME + ►/II	This product cannot obtain the IP address.	Check the settings of your network devices.
	The piano control unit does not work properly.	Consult your Yamaha piano dealer. If you are using the ENSPIRE Controller app, please tell them the message on
Twice ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		

• Error message also appears on the control screen of the ENSPIRE Controller app. To close the message, tap on "Close" on the pop-up.

• Pressing any of [- VOLUME +] or [►/III] (Play/Pause) buttons turns off the error indicator, and the [- VOLUME +] indicators return to the previous status.

English

Glossary

This glossary provides basic definitions of terms used frequently in this manual.

DHCP

Chapter

This is a standard or protocol by which IP addresses and other low-level network configuration information can be dynamically and automatically assigned each time a connection is made to the Internet.

Ensemble Song

A song which contains piano parts and accompanying instrumental voices. An ensemble song contains the same left- and right-hand parts as an L/R song, and in addition, up to 13 accompanying instrument tracks. These extra tracks are played by the internal XG tone generator. The accompanying tracks may be used for acoustic bass, drums, strings, vibes, etc.

General MIDI (GM)

An addition to the MIDI standard that simplifies the transfer of MIDI song files between instruments of different manufacturers. A MIDI song recorded using a GM compatible tone generator should play back correctly when used with any GM compatible tone generator. The standard specifies that a GM compatible tone generator must support 24-note polyphony, 16 parts, and 128 standard voices.

Internet

A huge network made up of networks, the Internet allows high-speed data transfer among computers, mobile phones and other devices.

ISP (Internet Service Provider)

A communications business that offers Internet connection services. In order to connect to the Internet, it is necessary to have active service with an Internet service provider.

LAN

Short for Local Area Network, this is a data-transfer network that connects a group of computers at a single location (such as an office or home) by means of a special cable.

MIDI

An acronym for Musical Instrument Digital Interface. MIDI allows electronic musical instruments to communicate with each other.

PianoSoft™

PianoSoft software contains prerecorded songs made by Yamaha specifically for use with this product.

PianoSoftAudio

PianoSoftAudio software contains real audio and MIDI signals for playing back on this product.

PianoSoftPlus™

PianoSoftPlus software contains Ensemble songs that can be played on this product.

Polyphony

The maximum number of voices (or sounds) that can be produced at a time from MIDI instruments.

Router

A device for connecting multiple computer networks. For example, a router is necessary when connecting several computers in a house or office, to allow all of them access the Internet and share data. A router is usually connected between a modem and a computer, although some modems have a built-in router. Chapter

Glossary

Smart Device

This refers to portable multi-functional terminals such as smartphones and tablet terminals that can use the Internet connection and application software.

SMF

Abbreviation for Standard MIDI File.

SMF Song Format

A song file format supported by MIDI sequencers and music software.

Song

Normally, a short piece of music with lyrics. However, for clarity in Disklavier manuals, the term is used to refer to any piece of music of any genre.

Standard MIDI File

A file of MIDI data that can be read and used by a number of different MIDI devices and computers.

USB

An interface for connecting an external "plug and play" device. This product is equipped with three TO DEVICE terminals with USB 2.0 standard and one TO HOST terminal. An external storage device, such as USB flash drive, can be used with this product by connecting it to a TO DEVICE terminal. Also this product enables you to enjoy a variety of MIDI features by connecting a computer to TO HOST terminal.

Voice

The sounds produced by a tone generator expressing various instruments.

Wi-Fi

Wi-Fi (Wireless Fidelity) is a technology that allows an electronic device to exchange data or connect to the Internet wirelessly using radio waves. Wi-Fi offers the advantage of eliminating the complexity of making connections with network cables by using wireless connection. Only products that complete Wi-Fi Alliance interoperability tests can carry the "Wi-Fi Certified" trademark.

WPS

WPS (Wi-Fi Protected Setup) is a standard established by the Wi-Fi Alliance, which allows easy establishment of a wireless home network.

XG

Yamaha XG is an extension of the GM (General MIDI) format. Its greater polyphony, more voices, and use of effects enhances the compatibility between MIDI devices. When a song in the Yamaha XG format is played on another XG-compatible tone generator or synthesizer, it plays and sounds as the original composer/creator intended.

General Specifications

Compatible Storage Medium		USB flash drive		
Built-in Song	6	500 songs		
Compatible F	ile Formats	Standard MIDI File (SMF) format 0, Standard MIDI File (SMF) format 1, WAVE, MP3		
Compatible S	Song Formats	PianoSoft, PianoSoftPlus, PianoSoftAudio, SmartKey		
Switch Box	Buttons	POWER 🕁 , VOLUME –/+, PLAY/PAUSE, MAINTENANCE		
	Switches	AUTO PLAY, AUTO OFF MODE, WLAN		
	Dimension (W × D × H)	220 x 70 x 30 mm (8-11/16 x 2-3/4 x 1-3/16 inch)		
Control Center Unit	Dimension $(W \times D \times H)$	224 x 130 x 76 mm (8-13/16 x 5-1/8 x 3 inch)		
Connectors	MIDI	MIDI IN, MIDI OUT		
	Audio	OUTPUT, OMNI (SYNC) IN, OMNI (SYNC) OUT, DIGITAL OUT, HEADPHONE (mini)		
	Others	LAN, USB (TO HOST \times 1, TO DEVICE \times 3)		
Tone	Piano Sound	CFX Binaural Sampling, CFX Stereo Sampling		
Generator Pitch Control		414.8 Hz to 466.8 Hz (tunable in 0.2 Hz increments)		
	Polyphony	256 notes (max.)		
	Voices for Playing	16 voices (Piano, Electric Piano 1, Electric Piano 2, Electric Piano 3, Harpsichord 1, Harpsichord 2, Vibraphone, Celesta, Pipe Organ 1, Pipe Organ 2, Pipe Organ 3, Pipe Organ 4, Jazz Organ, Strings, Choir, Synth Pad)		
	Voice Module Modes	XG, GM		
	Normal Voices	480 Voices		
	Drum Kits	12 kits		
Power Source	e	AC 100V to 240V, 50/60Hz		
Supplied Acc	essories	Owner's Manual, Built-in song list, Audio cable, AC adaptor (PA-300C or an equivalent recommended by Yamaha), Power cord, USB wireless LAN adaptor (UD-WL01), Bracket		
Option Acces	sories	Bracket for CF Series Grand Piano (DKCB-900CF)		

Specifications are subject to change without prior notice.

MEMO

disklavier **ENSPIRE**™

Disklavier Control Unit DKC-900

Appendix

XG Voice List

Voice Group	Voice Name	MSB	LSB	PRG	Element
Piano	GrandPiano	0	0	1	2*
	GrndPianoKSP	0	1	1	1
	MellowGrPno	0	18	1	2
	PianoStrings	0	40	1	2
	Dream	0	41	1	2
	BrightPiano	0	0	2	2
	BritePnoKSP	0	1	2	1
	ElecGrandPno	0	0	3	2
	ElecGrPnoKSP	0	1	3	2
	DetunedCP80	0	32	3	2
	LayeredCP1	0	40	3	2
	LayeredCP2	0	41	3	2
	Honkytonk	0	0	4	2
	HonkytonkKSP	0	1	4	2
	El.Piano1	0	0	5	2
	El.Piano1KSP	0	1	5	1
	MellowEP1	0	18	5	2
	ChorusEP1	0	32	5	2
	HardEl.Piano	0	40	5	2
	VXfadeEl.P1	0	45	5	2
	60sEl.Piano1	0	64	5	1
	El.Piano2	0	0	6	2
	El.Piano2KSP	0	1	6	1
	ChorusEP2	0	32	6	2
	DXEPHard	0	33	6	2
	DXLegend	0	34	6	2
	DXPhaseEP	0	40	6	2
	DX+AnalogEP	0	41	6	2
	DXKotoEP	0	42	6	2
	VXfadeEl.P2	0	45	6	2
	Harpsichord	0	0	7	1
	Harpsi,KSP	0	1	7	1
	Harpsichord2	0	25	7	2
	Harpsichord3	0	35	7	2
	Clavi.	0	0	8	1
	Clavi,KSP	0	1	8	1
	Clavi Wah	0	27	8	2
	DulceClavi	0	64	8	1
	PierceClavi	0	65	8	2
Chromatia	Colosto	0	05	0	1
Percussion	Clockonspiel	0	0	9	1
1 creussion	MusiaDay	0	0	10	1
	Musicbox One al	0	0	11	2
	Viberahana	0	04	11	2
	Vibraphone	0	0	12	1
	VibesKSP	0	1	12	1
	Hard Vibes	0	45	12	2
	Marimba	0	0	13	1
	MarimbaKSP	0	1	13	1
	SineMarimba	0	64	13	2
	Balimba	0	97	13	2
	LogDrums	0	98	13	2
	Xylophone	0	0	14	1
	TubularBells	0	0	15	1
	ChurchBells	0	96	15	2
	Carillon	0	97	15	2
	Dulcimer	0	0	16	1
	Dulcimer2	0	35	16	2
	Cimbalom	0	96	16	2
	Santur	0	97	16	2
Organ	DrawbarOrgan	0	0	17	1
	DetDrawOrgan	0	32	17	2
	60sDrawOrg1	0	33	17	2
	60sDrawOrg2	0	34	17	2
	70sDrawOrg1	0	35	17	2
	DrawbarOrg2	0	36	17	2
	60sDrawOrg3	0	37	17	2
	EvenBarOrg	0	38	17	2
	16+2'2 30rg	0	40	17	2
	OrganBass	0	64	17	1
	70sDrawOrg2	0	65	17	2
	CheezvOrgan	0	66	17	2
	DrawbarOrg3	0	67	17	2
	Perc.Organ	0	0	18	- 1
	70sPercOrg1	0	24	18	2
	DetPercOrgan	0	32	18	2
	LightOrgan	0	33	18	2

Voice Group	Voice Name	MSB	LSB	PRG	Element
Organ	Perc.Organ2	0	37	18	2
	RockOrgan	0	0	19	1
	RotaryOrgan	0	64	19	2
	SlowRotary	0	65	19	2
	FastRotary	0	66	19	2
	ChurchOrgan	0	0	20	2
	ChurchOrgan3	0	32	20	2
	ChurchOrgan2	0	35	20	2
	NotreDame	0	40	20	2
	OrganFlute	0	64	20	2
	Trem.OrganFl	0	65	20	2
	ReedOrgan	0	0	21	1
	PuffOrgan	0	40	21	2
	Accordion	0	0	22	1
	AccordIt	0	32	22	2
	Harmonica	0	0	23	1
	Harmonica2	0	32	23	2
	TangoAccord	0	0	24	1
	TangoAccord2	0	64	24	2
Guitar	NylonGuitar	0	0	25	1
	NylonGuitar2	0	16	25	1
	NylonGuitar3	0	25	25	2
	VelGtrHarmo	0	43	25	1
	Ukulele	0	96	25	1
	SteelGuitar	0	0	26	1
	SteelGuitar2	0	16	26	1
	12StrGuitar	0	35	26	2
	Nvlon&Steel	0	40	26	2
	Steel&Body	0	41	26	2
	Mandolin	0	96	26	2
	JazzGuitar	0	0	27	1
	MellowGuitar	0	18	27	1
	JazzAmp	0	32	27	2
	CleanGuitar	0	0	27	1
	ChorusGuitar	0	32	28	2
	MutedGuitar	0	0	20	1
	FunkGuitarl	0	40	29	2
	MuteSteelGtr	0	40	29	2
	Funds Cuiter?	0	41	29	1
	FunkGunarz	0	45	29	1
	Jazzivian	0	45	29	2
	Overdriven	0	0	30	1
	GuitarPinch	0	43	30	1
	Distortion	0	0	31	1
	FeedbackGtr	0	40	31	2
	FeedbackGtr2	0	41	31	2
	GtrHarmonics	0	0	32	1
	GtrFeedback	0	65	32	1
	GtrHarmonic2	0	66	32	1
Bass	AcousticBass	0	0	33	1
	JazzRhythm	0	40	33	2
	VXUprghtBass	0	45	33	2
	FingerBass	0	0	34	1
	FingerDark	0	18	34	2
	FlangeBass	0	27	34	2
	Bass&DistEG	0	40	34	2
	FingerSlap	0	43	34	1
	FingerBass2	0	45	34	2
	Mod.Bass	0	65	34	2
	PickBass	0	0	35	1
	MutePickBass	0	28	35	1
	FretlessBass	0	0	36	1
	Fretless2	0	32	36	2
	Fretless3	0	33	36	2
	Fretless4	0	34	36	2
	Syn.Fretless	0	96	36	2
	SmthFretless	0	97	36	2
	SlapBass1	0	0	37	1
	ResonantSlap	0	27	37	1
	PunchThumb	0	32	37	2
	SlapBass2	0	0	38	1
	Velo.Sw.Slap	0 0	43	38	1
	SynthBass1	0	0	39	1
	SynBass1Dark	0	18	39	1
	FastResoBass	0	20	39	1
	AcidBass	Ő	20	39	1
	ClaviBass	0	35	39	2

 LightOrgan
 0
 33

 * The number of elements becomes 4 when the damper pedal is pressed.

A-3

Voice Group	Voice Name	MSB	LSB	PRG	Element
Bass	TechnoBass	0	40	39	2
	Orbiter	0	64	39	2
	SquareBass	0	65	39	1
	RubberBass	0	66	39	2
	Hammer	0	96	39	2
	SynthBass2	0	0	40	2
	MellowSyBass	0	6	40	1
	SequenceBass	0	12	40	2
	ClickSynBass	0	18	40	2
	SynBass2Dark	0	19	40	1
	SmoothSyBass	0	32	40	2
	ModulrSyBass	0	40	40	2
	DXBass	0	41	40	2
	XWireBass	0	64	40	2
Strings	Violin	0	0	41	1
8-	SlwAtkViolin	0	8	41	1
	Viola	0	Õ	42	1
	Cello	Ő	Ő	43	1
	Contrabass	0	0	44	1
	Trem Strings	0	0	44	1
	Shu AtTromStr	0	0	45	1
	SiwAttremStr	0	0	45	1
	SuspenseStr	0	40	45	2
	PizzicatoStr	0	0	46	1
	Orch.Harp	0	0	47	1
	YangChin	0	40	47	2
	Timpani	0	0	48	1
Ensemble	Strings1	0	0	49	1
	StereoStrngs	0	3	49	2
	SlwAtkStrngs	0	8	49	1
	ArcoStrings	0	24	49	2
	60'sStrings	0	35	49	2
	Orchestra	0	40	49	2
	Orchestra2	0	41	49	2
	TremOrchstra	0	42	49	2
	Velo Strings	Ő	45	49	2
	Strings?	0	45	50	1
	Strings2	0	2	50	2
	J. ageto Strings	0	<u> </u>	50	2
	LegatoStrings	0	0	50	2
	warmStrings	0	40	50	2
	Kingdom	0	41	50	2
	/0'sStrings	0	64	50	1
	Strings3	0	65	50	1
	SynStrings1	0	0	51	2
	ResoStrings	0	27	51	2
	SynStrings4	0	64	51	2
	SynStrings5	0	65	51	2
	SynStrings2	0	0	52	2
	ChoirAahs	0	0	53	1
	StereoChoir	0	3	53	2
	ChoirAahs2	0	16	53	2
	MellowChoir	0	32	53	2
	ChoirStrings	0	40	53	2
	VoiceOohs	0	0	54	1
	SynthVoice	0	0	55	1
	Synth Voice?	0	40	55	2
	Choral	0	40	55	2
	AnalogVoico	0	64	55	2 1
	Orchestra	0	04	55	1
	Orchestrillit2	0	25	50	2
	Unenestritt2	0	33	50	2
D	Impact	0	64	56	2
Brass	Trumpet	0	0	57	
	Trumpet2	0	16	57	1
	Brite frumpet	0	17	57	2
	WarmTrumpet	0	32	57	2
	Trombone	0	0	58	1
	Trombone2	0	18	58	2
	Tuba	0	0	59	1
	Tuba2	0	16	59	1
	MutedTrumpet	0	0	60	1
	FrenchHorn	0	0	61	1
	Fr.HornSolo	0	6	61	1
	FrenchHorn2	0	32	61	2
	HornOrchestr	0	37	61	2
	BrassSection	0	0	62	1
	Tp&TbSection	0	35	62	2
	BrassSect2	0	40	62	2
	HighBrass	0	41	62	2
	MellowBrace	0	42	62	2
	SunthBrocol	0	-12	62	2
	Openla	0	10	05	2
	QuackBrass	0	12	63	2
	ResoSynBrass	0	20	63	2
	PolyBrass	0	24	63	2

Voice Group	Voice Name	MSR	ISR	PPC	Flomont
Brass	SynthBrase3	0	27	63	2
DIass	SylluiDiass5	0	27	03	2
	JumpBrass	0	32	63	2
	AnaVelBrass1	0	45	63	2
	AnalogBrass1	0	64	63	2
	SynthBrass2	0	0	64	1
	SoftBrass	0	18	64	2
	SynthBrass4	0	40	64	2
	ChoirBrass	0	41	64	2
	AnaVelBrass?	Ő	45	64	2
	AnalogDrass2	0	43	64	2
D 1	AnalogBrassz	0	04	04	2
Reed	SopranoSax	0	0	65	1
	AltoSax	0	0	66	1
	SaxSection	0	40	66	2
	HyperAltoSax	0	43	66	1
	TenorSax	0	0	67	1
	BreathyTenor	0	40	67	2
	SoftTenorSay	0	41	67	2
	TenorSay?	0	64	67	1
	Denite a Ser	0	04	07	1
	BaritoneSax	0	0	68	1
	Oboe	0	0	69	1
	EnglishHorn	0	0	70	1
	Bassoon	0	0	71	1
	Clarinet	0	0	72	1
Pine	Piccolo	0	0	73	1
- 'P~	Flute	0	0	73	1
	Tiute Descrit	0	0	/4	1
	Recorder	0	0	75	1
	PanFlute	0	0	76	1
	BlownBottle	0	0	77	2
	Shakuhachi	0	0	78	1
	Whistle	0	0	79	1
	Ocarina	0	0	00	1
0 4 1 1	Ocarina	0	0	80	1
Synth. Lead	SquareLead	0	0	81	2
	SquareLead2	0	6	81	1
	LMSquare	0	8	81	2
	Hollow	0	18	81	1
	Shroud	0	19	81	2
	Mallaw	0	64	01	2
	SalaS	0	04	01	2
	SoloSine	0	65	81	2
	SineLead	0	66	81	1
	SawtoothLead	0	0	82	2
	SawtoothLd2	0	6	82	1
	ThickSaw	0	8	82	2
	DynamiaSaw	0	19	82	1
	Dynamicsaw	0	10	02	1
	DigitalSaw	0	19	82	2
	BigLead	0	20	82	2
	HeavySynth	0	24	82	2
	WaspySynth	0	25	82	2
	PulseSaw	0	40	82	2
	Dr Lead	ů Û	41	82	2
	ValaaityI aad	0	45	02	2
	velocityLead	0	45	82	2
	Seq.Analog	0	96	82	2
	CalliopeLead	0	0	83	2
	PureLead	0	65	83	2
	ChiffLead	0	0	84	2
	Rubby	0	64	84	2
	Charang end	0 0	0	85	2
	DistortedI d	0	6/	05	2
	DistortedLu	0	04	0.5	2
	wireLead	U	65	85	2
	VoiceLead	0	0	86	2
	SynthAahs	0	24	86	2
	VoxLead	0	64	86	2
	FifthsLead	0	0	87	2
	BigFive	Õ	35	87	2
	Basekiand	0	0	00	2
	Dassochead	0	0	00	4
	Big&Low	0	16	88	2
	Fat&Perky	0	64	88	2
	SoftWhirl	0	65	88	2
Synth. Pad	NewAgePad	0	0	89	2
1 -	Fantasy	0	64	89	2
	WarmPad	0	0	90	2
	Thigh Dad	0	14	00	2
	I NICKPad	U	16	90	2
	SoftPad	0	17	90	2
	SinePad	0	18	90	2
	HornPad	0	64	90	2
	RotaryStrngs	0	65	90	2
	PolySynthPad	0	0	91	2
	PolyDod00	0	6/	01	2
	rolyrau80	0	04	91	2
	ClickPad	0	65	91	2
	AnalogPad	0	66	91	2
	SquarePad	0	67	91	2
	ChoirPad	0	0	92	2
	Heaven	0	64	92	2

Voice Group	Voice Name	MSB	LSB	PRG	Element
Synth. Pad	Itopia	0	66	92	2
	CCPad	0	67	92	2
	BowedPad	0	0	93	2
	Glacier	0	64	93	2
	GlassPad	0	65	93	2
	MetallicPad	0	0	94	2
	TinePad	0	64	94	2
	PanPad	0	65	94	2
	HaloPad	Ő	0	95	2
	SweenPad	0	0	96	2
	Sweeprau	0	20	90	2
	Shwimmer	0	20	96	2
	Converge	0	27	96	2
	PolarPad	0	64	96	2
	Celestial	0	66	96	2
Synth. Effects	Rain	0	0	97	2
	ClaviPad	0	45	97	2
	HarmoRain	0	64	97	2
	A fricanWind	0	65	07	2
	Anteanwind	0	05	97	2
	Carib	0	66	9/	2
	SoundTrack	0	0	98	2
	Prologue	0	27	98	2
	Ancestral	0	64	98	2
	Crystal	0	0	99	2
	SynthDr.Comp	0	12	99	2
	Popcorn	0	14	99	2
	TinyBells	0	18	00	2
	PoundClocker	0	25	00	2
	Charle	0	33	<u> </u>	2
	GlockenChime	0	40	99	2
	ClearBells	0	41	99	2
	ChorusBells	0	42	99	2
	SynthMallet	0	64	99	1
	SoftCrystal	0	65	99	2
	LoudGlocken	0	66	99	2
	ChristmasBel	Ő	67	99	2
	VibaDalla	0	69	00	2
	VIDEDEIIS	0	08	99	2
	DigitalBells	0	69	99	2
	AirBells	0	70	99	2
	BellHarp	0	71	99	2
	Gamelimba	0	72	99	2
	Atmosphere	0	0	100	2
	WarmAtmos.	0	18	100	2
	HollwRelease	0	19	100	2
	NulonElDiano	0	40	100	2
	NylonElFlano	0	40	100	2
	NylonHarp	0	04	100	2
	HarpVox	0	65	100	2
	Atmos.Pad	0	66	100	2
	Planet	0	67	100	2
	Brightness	0	0	101	2
	FantasyBells	0	64	101	2
	Smokey	Ő	96	101	2
	Goblins	0	0	102	2
	Goblins	0	0	102	2
	GoblinsSynth	0	04	102	2
	Creeper	0	65	102	2
	RingPad	0	66	102	2
	Ritual	0	67	102	2
	ToHeaven	0	68	102	2
	Night	0	70	102	2
	Glisten	0	71	102	2
	BellChoir	0	96	102	2
	Echoes	0	0	102	2
	Echoec?	0	0	103	2
	Echoes2	0	ð	103	2
	EchoPan	0	14	103	2
	EchoBells	0	64	103	2
	BigPan	0	65	103	2
	SynthPiano	0	66	103	2
	Creation	0	67	103	2
	StarDust	0	68	103	2
	Reso&Panning	0	69	103	2
	Sci-Fi	n n	0	104	2
	Sterr	0	64	104	2
54	Starz	0	04	104	<u>ک</u>
thnic	Sitar	0	0	105	1
	DetunedSitar	0	32	105	2
	Sitar2	0	35	105	2
	Tambra	0	96	105	2
	Tamboura	0	97	105	2
	Banio	0	0	106	1
	MutedBanio	0	28	106	1
	Dahah	0	20	100	2
	Kabab	U	96	106	2
	Gopichant	0	97	106	2
	Oud	0	98	106	2
	Shamisen	0	0	107	1
	Koto	0	0	108	1

Voice Group	Voice Name	MSB	LSB	PRG	Element
Ethnic	Taisho-kin	0	96	108	2
	Kanoon	0	97	108	2
	Kalimba	0	0	109	1
	Bagpipe	0	0	110	2
	Fiddle	0	0	111	1
	Shanai	0	0	112	1
	Shanai2	0	64	112	1
	Pungi	0	96	112	1
	Hichiriki	0	97	112	2
Percussive	TinkleBell	0	0	113	2
	Bonang	0	96	113	2
	Altair	0	97	113	2
	GamelanGongs	0	98	113	2
	StereoGamlan	0	99	113	2
	RamaCymbal	0	100	113	2
	AsianBells	0	101	113	2
	Agogo	0	0	114	2
	SteelDrums	0	0	115	1
	GlassPerc	Ő	97	115	2
	ThaiBells	0	98	115	2
	Woodblock	Ő	0	116	-
	Castanets	Ő	96	116	1
	TaikoDrum	0	0	117	1
	GranCassa	0	06	117	1
	MelodicTom	0	0	11/	2
	MelodicTom?	0	64	110	<u>ک</u> 1
	RealTom	0	65	110	2
	RockTom	0	66	110	2
	SynthDay	0	00	110	<u>∠</u> 1
	SynthDrum	0	64	119	1
	Analog I om	0	04	119	1
	ElectroPerc.	0	65	119	2
C 1 Eff	Rev.Cymbal	0	0	120	1
Sound Effects	GtrFretNoise	0	0	121	1
	BreathNoise	0	0	122	1
	Seashore	0	0	123	2
	BirdTweet	0	0	124	2
	TelephonRing	0	0	125	1
	Helicopter	0	0	126	1
	Applause	0	0	127	1
ATT 1	Gunshot	0	0	128	1
SFX	CuttingNoise	64	0	1	1
	CuttingNoiz2	64	0	2	2
	StringSlap	64	0	4	1
	Fl.KeyClick	64	0	17	1
	Shower	64	0	33	1
	Thunder	64	0	34	1
	Wind	64	0	35	1
	Stream	64	0	36	2
	Bubble	64	0	37	2
	Feed	64	0	38	2
	Dog	64	0	49	1
	Horse	64	0	50	1
	BirdTweet2	64	0	51	1
	Ghost	64	0	55	2
	Maou	64	0	56	2
	PhoneCall	64	0	65	1
	DoorSqueak	64	0	66	1
	DoorSlam	64	0	67	1
	ScratchCut	64	0	68	1
	ScratchSplit	64	0	69	2
	WindChime	64	0	70	1
	TelphonRing2	64	0	71	1
	CarEngineIgn	64	0	81	1
	CarTiresSqel	64	0	82	1
	CarPassing	64	0	83	1
	CarCrash	64	0	84	1
	Siren	64	0	85	2
	Train	64	0	86	1
	JetPlane	64	0	87	2
	Starship	64	0	88	2
	Burst	64	0	89	2
	RollrCoaster	64	0	90	2
	Submarine	64	0	91	1
	Laugh	64	0	97	1
	Scream	64	0	98	1
	Punch	6/	0	00	1
	Heartheat	64	0	100	1
	FootStope	64	0	100	1
	MashingCur	64	0	101	1
	LagarCurr	64	0	113	1
	Explosion	64	0	114	2
	Explosion	04	0	113	2
	1 IFEWORK	04	U	110	Z

XG Drum Kit List

: Same as Standard Kit 1

: No Sound

Bank Select MSB (0-127)		127	127	127	127	127	127		
Bank Se	ect LSB (0-127)		0	0	0	0	0	0
Program	Change (0-127)		0	1	8	16	24	25
Program	Change (1-128)		1	2	9	17	25	26
M	DI	1-120)	Alternate	•		,	1/	20	20
Note #	Note	Key Off	Group	Standard Kit1	Standard Kit2	Room Kit	Rock Kit	Electro Kit	Analog Kit
13	C#-1		3	Surdo Mute					
14	D-1		3	Surdo Open					
15	D#-1			HiO					
16	E-1			Whip Slap					
17	E-1		4	Scratch H					
10	T-1 E# 1		4	Senatah I			+	-	4
10	Г#-1 С.1		4	Scratch L					4
19	G-I			Finger Snap					1
20	G#-1			Click Noise					· · · · · · · · · · · · · · · · · · ·
21	A-I			Metronome Click					
22	A#-1			Metronome Bell					
23	B-1			Seq Click L					
24	C0			Seq Click H					
25	C#0			Brush Tap					
26	D0	0		Brush Swirl					
27	D#0			Brush Slap					
28	E0	0		Brush Tap Swirl				Reverse Cymbal	Reverse Cymbal
29	FO	Õ		Snare Roll					· · · ·
30	F#0	0		Castanet			1	Hi O 2	HiO2
31	G0			Spare Soft	Spare Soft 2		Spare Noisy	Snare Snappy Electro	Snare Noisy 4
32	G#0			Sticke	Share Bon 2		Share Holsy	share shappy Licetto	Share Horsy T
32	40			Vials Cafe				Vials 2	Vials 2
55	AU			NICK SOIL	On the Diagonal states			NICK 3	KICK 3
34	A#0			Open Kim Shot	Open Rim Shot H Short		W: 1.0	W L C	
35	B0			Kick Tight			Kick 2	Kick Gate	Kick Analog Short
36	C1			Kick	Kick Shot		Kick Gate	Kick Gate Heavy	Kick Analog
37	C#1			Side Stick	Side Stick Light				Side Stick Analog
38	D1			Snare	Snare Short	Snare Snappy	Snare Rock	Snare Noisy 2	Snare Analog
39	D#1			Hand Clap					Č.
40	E1			Snare Tight	Snare Tight H	Snare Tight Snappy	Snare Rock Tight	Snare Noisy 2	Snare Analog 2
41	F1			Floor Tom I		Tom Room 1	Tom Room 1	Tom Electro 1	Tom Analog 1
41	E#1		1	Hi Hat Closed		Tom Room T	Tom Room T	Tom Electro T	Hi Hat Classed Apalog
42	G1		1	Floor Tom U		Tom Poom 2	Tom Poom 2	Tom Electro 2	Tom Analog 2
43	G1		1			10m K00m 2	Tom Room 2	Tom Electro 2	Tom Analog 2
44	G#1		1	HI-Hat Pedal			T D A	T D A	Hi-Hat Closed Analog 2
45	Al			Low Tom		Tom Room 3	Tom Room 3	Tom Electro 3	Tom Analog 3
46	A#1		1	Hi-Hat Open					Hi-Hat Open Analog
47	B1			Mid Tom L		Tom Room 4	Tom Room 4	Tom Electro 4	Tom Analog 4
48	C2			Mid Tom H		Tom Room 5	Tom Room 5	Tom Electro 5	Tom Analog 5
49	C#2			Crash Cymbal 1					Crash Analog
50	D2			High Tom		Tom Room 6	Tom Room 6	Tom Electro 6	Tom Analog 6
51	D#2			Ride Cymbal 1					
52	F2			Chinese Cymbal					
52	E2			Pide Cymbel Cup			+	-	4
54	F#2			Tombouring					
54	F#2			Tambourine			-	-	
33	G2			Splash Cymbal					a 1 1 4 1
56	G#2			Cowbell					Cowbell Analog
57	A2			Crash Cymbal 2					
58	A#2			Vibraslap					
59	B2			Ride Cymbal 2					
60	C3			Bongo H					
61	C#3			Bongo L					
62	D3			Conga H Mute					Conga Analog H
63	D#3			Conga H Onen					Conga Analog M
64	E2			Conga I			+	-	Congo Analog I
65	E2			Timbala II					Conga Analog L
00	F.3			Timbale FI					
66	F#3			1 imbale L					
67	G3			Agogo H					
68	G#3			Agogo L					
69	A3			Cabasa					
70	A#3			Maracas					Maracas 2
71	B3	0		Samba Whistle H					
72	C4	0		Samba Whistle L					
73	C#4	-		Guiro Short					1
74	D4	0		Guiro Long					
75	D#4			Claves					Claves 2
75	D#4			Waad Dlaak II					Claves 2
/0	E4			WOOU DIOCK H					
//	F4			wood Block L				0	0
78	F#4			Cuica Mute				Scratch H 2	Scratch H 2
79	G4			Cuica Open				Scratch L 2	Scratch L 2
80	G#4		2	Triangle Mute					
81	A4		2	Triangle Open					
82	A#4			Shaker					
83	B4			Jingle Bells					
84	C5			Bell Tree					
85	C#5								
0.0	C#3								
00	D3								
8/	D#5								
88	E5								
89	F5								
90	F#5								
91	G5	1							

Key Off: Keys marked with a circle stop sounding the instant they are released.
 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

Bank Select MSB (0-127) 127 127 127 127 126 126 Bank Select LSB (0-127) 0 0 0 0 0 0 Program Change (0-127) 27 32 40 48 0 1 Program Change (1-128) 28 41 49 33 2 Alternate Group MIDI Key Off Dance Kit Jazz Kit Brush Kit Symphony Kit SFX Kit1 SFX Kit2 Note # Note 13 C#-1 14 D-1 15 D#-1 E-1 16 17 F-1 4 18 F#-1 4 19 G-1 20 G#-1 21 A-1 A#-1 23 B-1 24 C0 25 C#0 D0 26 27 0 D#0 28 E0 0 Reverse Cymbal F0 F#0 G0 29 30 31 0 HiQ2 Snare Techno Snare Jazz H Brush Slap 2 32 33 G#0 Kick Techno Q A0 Kick Soft 2 34 Rim Gate A#0 Open Rim Shot Light 35 36 B0 Kick Techno L Gran Cassa Kick Jazz Gran Cassa Mute C1 Kick Techno Kick Jazz Cutting Noise Phone Call 37 C#1 Side Stick Analog Side Stick Light Cutting Noise 2 Side Stick Light Door Squeak 38 39 D1 D#1 Snare Clap Snare Jazz L Brush Slap 3 Band Snare Door Slam Scratch Cut String Slap 40 E1 Snare Jazz M Brush Tap 2 Band Snare 2 Scratch H 3 Snare Dry 41 F1 Tom Analog 1 Tom Brush 1 Wind Chime 42 F#1 1 Hi-Hat Closed 3 Telephone Ring 2 43 G1 Tom Analog 2 Tom Brush 2 44 G#1 1 Hi-Hat Closed Analog 3 45 Tom Brush 3 A1 Tom Analog 3 A#1 B1 46 47 Hi-Hat Open 3 1 Tom Analog 4 Tom Brush 4 48 C2 Tom Analog 5 Tom Brush 5 49 C#2 Crash Analog Hand Cymbal 50 D2 Tom Analog 6 Tom Brush 6 51 D#2 Hand Cymbal Short 52 53 54 55 E2 Flute Key Click Car Engine Ignition F2 Car Tires Squeal F#2 G2 Car Passing Car Crash 56 G#2 Cowbell Analog Siren A2 A#2 Hand Cymbal 2 Train 57 58 Jet Plan 59 B2 Hand Cymbal 2 Short Starship 60 C3 Burst C#3 61 Roller Coaster 62 D3 Conga Analog H Submarine 63 D#3 Conga Analog M 64 E3 Conga Analog L 65 F3 66 F#3 67 G3 68 G#3 Shower Laugh 69 A3 A#3 Thunder Scream 70 Maracas 2 Wind Punch 71 B3 Stream Heart Beat 72 C4 0 Bubble Foot Steps 73 74 C#4 Feed D4 0 75 D#4 Claves 2 76 77 E4 F4 78 F#4 Scratch H 2 79 G4 Scratch L 2 80 G#4 81 A4 82 83 A#4 B4 84 C5 Dog Machine Gun Horse Bird Tweet 2 84 C#5 Laser Gun 86 D5 Explosion 87 D#5 Firework

Appendix XG Drum Kit List

* Key Off: Keys marked with a circle stop sounding the instant they are released.

88

89

90

91

E5

F5

F#5

G5

: Same as Standard Kit 1 : No Sound

* Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

Ghost

Maou

MIDI Data Format

MIDI Channel Message (1)

	Status hute	1.4	Data huta		2	Data huta	[MIDI (Si	lent)]	MID	Tuonomi	
MIDI Events	Status byte	Ist	Data Dyte		2110	Data byte	Sana	Piano	Banal	Sono	MIDI
MIDI Events	Status	Data (HEX)	Parameter	Data ((HEX)	Parameter	Part	Playback Channel	Operation	Playback	Input
Key Off	8nH (n: Channel Number)	kk	Key Number (0-127)	vv		Velocity (0-127)	0	0	×	×	×
[GM1] [GM2] Key On	9nH (n: Channel Number)	kk	Key Number (0-127)	vv		Key On: vv=1-127	0	0	×	×	×
[GM1] [GM2]	(in chainer (anou)		reey realiser (0.127)			Key Off: vv=0	Ŭ	0			
Control Change	BnH	0 (00H)	Bank Select MSB	0	(00H)	Normal	0	0	×	×	×
			[GM2]	64 118	(40H) (76H)	GS Rhythm					
				119	(77H)	GS Normal					
				120	(78H)	GM2 Rhythm					
				121	(79H) (7EH)	GM2 Normal SFX Kit					
				120	(7EH) (7FH)	Drum Kit					
		1 (01H)	Modulation	0-127 (00)H7FH)	Data	0	×	×	×	×
		5 (05H)	[GM1] [GM2] Portamento Time	0-127 (00)H 7FH)	Data	0	×	×	×	×
		5 (0511)	[GM2]	0-127 (00	,,,	Data	0				
		6 (06H)	Data Entry MSB	0-127 (00)H7FH)	Data	0	×	×	×	×
		7 (07H)	[GM2] Main Volume	0-127 (00)H7FH)	Data	0	0	×	×	×
		(0.11)	[GM1] [GM2]				Ŭ)			
		10 (0AH)	Panpot	0-127 (00)H7FH)	L64CR63	0	×	×	×	×
		11 (0BH)	[GM1] [GM2] Expression	0-127 (00)H7FH)	Data	0	×	×	×	×
		(()	[GM1] [GM2]				Ŭ				
		32 (20H)	Bank Select LSB	0-127 (00)H7FH)	Data	0	0	×	×	×
		38 (26H)	[GM2] Data Entry I SB	0-127 (00)H 7FH)	Data	0	×	×	×	×
		56 (2011)	[GM2]	0-127 (00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Data	0				
		64 (40H)	Damper	0-127 (00)H7FH)	Data	0	0	×	×	×
		65 (41H)	[GM1] [GM2] Portamento	0-127 (00	H 7FH)	OFF: 0-63	0	×	×	×	×
		(411)	[GM2]	0-127 (00	,,,	ON: 64-127	0				
		66 (42H)	Sostenuto	0-127 (00)H7FH)	OFF: 0-63	0	0	×	×	×
		67 (43H)	[GM2] Soft Pedal	0-127 (00)H 7FH)	ON: 64-127 OFF: 0-63	0	0	×	×	×
		07 (4511)	[GM2]	0-127 (00	,,,	ON: 64-127	0	0			
		71 (47H)	Harmonic Content	0-127 (00)H7FH)	-640+63	0	×	×	×	×
		72 (48H)	[GM2] Release Time	0-127 (00)H 7FH)	-64 0 +63	0	×	×	×	×
		/2 (4011)	[GM2]	0-127 (00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-040	0				
		73 (49H)	Attack Time	0-127 (00)H7FH)	-640+63	0	×	×	×	×
		74 (4AH)	[GM2] Brightness	0-127 (00)H 7FH)	-64 0 +63	0	×	×	×	×
		/4 (4/11)	[GM2]	0-127 (00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-040	0				
		75 (4BH)	Decay Time	0-127 (00)H7FH)	-640+63	0	×	×	×	×
		76 (ACH)	[GM2] Vibrata Pata	0.127 (00	U 7EU)	64 0 ±63	0	Ŷ	~	v	×
		/0 (4CII)	[GM2]	0-127 (00	,,	-040	0	^	<u>^</u>	<u>^</u>	<u>^</u>
		77 (4DH)	Vibrate Depth	0-127 (00)H7FH)	-640+63	0	×	×	×	×
		78 (4EU)	[GM2] Vibrata Dalay	0.127 (00	00 750)	64 0 ±63		×	×	×	×
		/8 (4ER)	[GM2]	0-127 (00	л/гп)	-040+03	0	^	Â	Â	^
		84 (54H)	Portamento Control	0-127 (00)H7FH)	Key no. (0-127)	0	×	×	×	×
		91 (5BH)	Effect1 Depth	0-127 (00)H7FH)	Data	0	×	×	×	×
		93 (5DH)	Effect3 Depth	0-127 (00)H7FH)	Data	0	×	×	×	×
			(Chorus Send Level) [GM2]	, i	· · · ·						
		94 (5EH)	Effect4 Depth (Variation S and L and)	0-127 (00)H7FH)	Data	0	×	×	×	×
		96 (60H)	(Variation Send Level) RPN Increment	_	_	The data byte is ignored	0	×	×	×	×
		97 (61H)	RPN Decrement	_	_	The data byte is ignored	0	×	×	×	×
		98 (62H)	NRPN LSB	0-127 (00)H7FH)	Data	0	×	×	×	×
		99 (63H) 100 (64H)	RPN LSB	0-127 (00)H7FH))H7FH)	Data	0	×	×	×	×
			[GM2]				Ŭ				
		101 (65H)	RPN MSB	0-127 (00)H7FH)	Data	0	×	×	×	×
Mode Message	BnH (n: Channel Number)	120 (78H)	[GM2] All Sound Off	0	(00H)	Data	0	0	×	×	×
	((())))))))))))))))))))		[GM2]					Ľ.			
		121 (79H)	Reset All Controllers	0	(00H)	Data	0	0	×	×	×
		122 (7AH)	[GM1] [GM2] Local Control	0	(00h)	OFF	0	0	×	×	×
		(,,,,,)		127	(7FH)	ON	Ũ	0			
		123 (7BH)	All Note Off	0	(00H)	Data	0	0	×	×	×
		124 (7CH)	[GM1] [GM2] Omni Off	0	(00H)	Data	0	×	×	×	×
		(()	[GM2]		(****)		Ŭ				
		125 (7DH)	Omni On	0	(00H)	Data	0	×	×	×	×
		126 (7EH)	[GM2] Mono	0-16 (00)H10H)	Data	0	×	×	×	×
		. ()	[GM2]	(00	,						
		127 (7FH)	Poly	0	(00H)	Data	0	×	×	×	×
Program Change	CnH (n: Channel Number)	pp (00H7FH)	Voice Number (0-127)	_	_		0	0	×	×	×
[GM1] [GM2]	(,, , ,, , ,, , ,, , ,, , ,, , , , , , , , , , , , , , , , , , , ,							Ľ.			
Channel After Touch	DnH (n: Channel Number)	vv (00H7FH)	Data	_	_	_	0	×	×	×	×
Polyphonic After Touch	AnH (n: Channel Number)	kk (00H7FH)	Key Number (0-127)	vv (00)H7FH)	Data	0	0	×	×	×
Pitch Bend Change	EnH (n: Channel Number)	cc (00H7FH)	LSB	dd (00)H7FH)	MSB	Õ	×	×	×	×
[GM1] [GM2]	FOIL MIDLCL 1	<u> </u>						ļ		I	
ixeartime wiessage	FAH Start	-		_				<		×	
	FBH Continue	-	_	—		_	>	<		×	
	FCH Stop FEH Active Sens [GM2]							<		×	
	FFH System Reset	-		_		_		<u>ر</u> «		×	
	· · · · · · · · · · · · · · · · · · ·			÷							

* For upright pianos (excluding some models), the sostenuto pedal information (Control Change 66) is not transmitted.

MIDI Channel Message (2)

■ Parameters Controlled by NRPN (Non-Registered Parameter Numbers)

			F .	1		[MIDI (S	ilent)			
NR	PN	Data	Entry			MIDI	Reception	MID	1 Transmi	ssion
MSB	LSB	MSB	LSB	Parameter	Data Range	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input
01H	08H	mmH	—	Vibrato Rate	mm: 00H-40H-7FH (-640+63)	0	×	×	×	×
01H	09H	mmH	—	Vibrato Depth	mm: 00H-40H-7FH (-640+63)	0	×	×	×	×
01H	0AH	mmH		Vibrato Delay	mm: 00H-40H-7FH (-640+63)	0	×	×	×	×
01H	20H	mmH	_	Low Pass Filter Cutoff Frequency	mm: 00H-40H-7FH (-640+63)	Ő	×	×	×	×
01H	21H	mmH	_	Low Pass Filter Resonance	mm: 00H-40H-7FH (-640+63)	Ö	×	×	×	×
01H	30H	mmH	_	EO BASS	mm: 00H-40H-7FH (-640+63)	×	×	×	×	×
01H	31H	mmH	_	EOTREBLE	mm: 00H-40H-7FH (-640+63)	×	×	×	×	×
01H	34H	mmH	_	EO BASS Frequency	mm: 04H-28H (322.0k [Hz])	×	×	×	×	×
01H	35H	mmH	_	EO TREBLE Frequency	mm: 1CH-3AH (50016.0k [Hz])	×	×	×	×	×
01H	63H	mmH	_	EG Attack Time	mm: 00H-40H-7FH (-64 0 ±63)	0	×	×	×	×
01H	64H	mmH		FG Decay Time	mm: 00H-40H-7FH (-64 0 +63)		×	×	×	×
01H	66H	mmH		EG Release	mm: 00H-40H-7FH (-64 0 +63)		×	×	×	×
14H	rrH	mmH	_	Drum Low Pass Filter Cutoff Frequency	rr: drum instrument note number	0	×	×	×	×
					mm: 00H-40H-7FH (-640+63)					1
15H	rrH	mmH	_	Drum Low Pass Filter Resonance	rr: drum instrument note number	0	×	×	×	×
					mm: 00H-40H-7FH (-640+63)					1
16H	rrH	mmH	_	Drum EG Attack Rate	rr: drum instrument note number	0	×	×	×	×
					mm: 00H-40H-7FH (-640+63)					1
17H	rrH	mmH	_	Drum EG Decay Rate	rr: drum instrument note number	0	×	×	×	×
				-	mm: 00H-40H-7FH (-640+63)					1
18H	rrH	mmH	_	Drum Pitch Coarse	rr: drum instrument note number	0	×	×	×	×
					mm: 00H-40H-7FH (-640+63)					1
19H	rrH	mmH		Drum Pitch Fine	rr: drum instrument note number	0	×	×	×	×
					mm: 00H-40H-7FH (-640+63)	_				1
1AH	rrH	mmH	-	Drum Level	rr: drum instrument note number	0	×	×	×	×
					mm: 00H-7FH (0127)					1
1CH	rrH	mmH		Drum Pan	rr: drum instrument note number	0	×	×	×	×
					mm: 00H, 01H-40H-7FH (RND, L63CR63)					
1DH	rrH	mmH	_	Drum Reverb Send Level	rr: drum instrument note number	0	×	×	×	×
					mm: 00H-7FH (0127)					1
1EH	rrH	mmH	—	Drum Chorus Send Level	rr: drum instrument note number	0	×	×	×	×
160	rrU	mmU		Drum Variation Sand Laval	min. 0011-7111 (0127)		×	×	×	×
1111	1111	mmn		Dium variation Send Lever	man ooll 7EU (0 127)	U	[°]	^	^	<u>^</u>
					(Veriation Connection = SVSTEM)					1
					(variation Connection – STSTEW)					1
					(Veriation Connection = INSERTION)					1
2411				Deven LIDE Cutoff Encourage	(variation Connection – INSERTION)					~
24H	rrH	mmH		Drum HPF Cutoff Frequency	rr: drum instrument note number	~	×	×	~	×
2011				D DOD G	mm: 00H-40H-7FH (-640+63)					L
30H	rrH	mmH		Drum EQ Bass Gain	rr: drum instrument note number	×	×	×	×	×
					mm: 00H-/FH (012/)					L
31H	rrH	mmH	_	Drum EQ Treble Gain	rr: drum instrument note number	×	×	×	×	×
2.077				D 50 D 5	mm: 00H-/FH (012/)		-			
54H	rrH	mmH		Drum EQ Bass Frequency	rr: drum instrument note number	×	×	×	×	×
			l	D D D D D D D D D D D D D D D D D D D	mm: 04H-28H (322.0k [Hz])	I				
35H	rrH	mmH	_	Drum EQ Treble Frequency	rr: drum instrument note number	×	×	×	×	×
1011					mm: 1CH-3AH (50016.0k [Hz])		-			
40H	rrH	mmH		Drum VELOCITY PITCH SENS.	rr: drum instrument note number	×	×	×	×	×
					mm: 00H-0FH (015)		L			
41H	rrH	mmH	—	Drum VELOCITY LPF CUTOFF SENS.	rr: drum instrument note number	×	×	×	×	×
L		1			mm: 00H-0FH (015)		1			1

* NRPN MSB: 14H-1FH (for drums) message is accepted as long as the channel is set with a drum voice.
 * Data Entry LSB will be ignored.

Parameters Controlled by RPN (Registered Parameter Numbers)

					[MIDI (Si	lent)]				
RI	PN	Data	Entry			MIDI R	eception	MID	I Transmis	sion
MSB	LSB	MSB	LSB	Parameter	Data Range	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input
00H	00H	mmH	_	Pitch Bend Sensitivity [GM1] [GM2]	mm: 00H-18H (0+24 [semitones])	0	×	×	×	×
00H	01H	mmH	llH	Fine Tune [GM1] [GM2]	mm ll: 00H 00H -100 [cent] mm ll: 40H 00H 0 [cent] mm ll: 7FH 7FH 100 [cent]	0	×	×	×	×
00H	02H	mmH	_	Coarse Tune [GM1] [GM2]	mm: 28H-40H-58H (-240+24 [semitones])	0	×	×	×	×
00H	05H	mmH	llH	Modulation Sensitivity [GM2]	mm: Specified in semitone increments II: Specified in 100/128 cent increments	0	×	×	×	×
7FH	7FH	_	_	Null [GM2]	—	Ö	×	×	×	×

MIDI Parameter Change Table

■ MIDI Parameter Change Table (XG SYSTEM)

								[MIDI (S	ilent)]				
								MIDI F	leception	MID	MIDI Transmission		
	Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input	
00	00	00	4	00-0F	MASTER TUNE	-102.40+102.3 [cent]	Panel setting value	×	×	×	×	×	
				00-0F		1st bit3-0→bit15-12							
				00-0F		2nd bit3-0→bit11-8							
				00-0F		3rd bit3-0→bit7-4							
						4th bit3-0→bit3-0							
		04	1	00-7F	MASTER VOLUME	0127	7F	0	×	×	×	×	
		05	1	00-7F	MASTER ATTENUATOR	0127	00	×	×	×	×	×	
		06	1	28-58	TRANSPOSE	-240+24 [semitones]	40	0	×	×	×	×	
		7D	1	N	DRUM SETUP RESET	N: Drum setup number		0	×	×	×	×	
		7E	1	00	XG SYSTEM ON	00=XG system ON		0	×	×	×	×	
		7F	1	00	ALL PARAMETER RESET	00=ON		0	×	×	×	×	
TOTAL	CLZE		07										

TOTAL SIZE

■ MIDI Parameter Change Table (SYSTEM INFORMATION)

	Address Size D (H) (H) (Data (H)	Parameter	Description
01	00	00	Е	20-7F	Model Name 1	32127 (ASCII CHARACTER)
		 0D		 20-7F	 Model Name 14	 32127 (ASCII CHARACTER)
		0E	1		NOT USED	
		0F	1		NOT USED	
TOTAL	SIZE		10			

	[MIDI (Silent)]										
1	MIDI R	eception	MIDI Transmission								
	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input						
	_		×	×	0						
	_			I							
	_	_	_	_	_						

* Transmitted in response to dump request. Not received.

■ MIDI Parameter Change Table (EFFECT1)

								[MIDI (S	ilent)]			
								MIDI F	leception	MID	I Transmis	ssion
	Address (H)	5	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input
02	01	00	2	00-7F	REVERB TYPE MSB	Refer to Effect Parameter List	01(=HALL1)	0	×	×	×	×
				00-7F	REVERB TYPE LSB		00					
		02	1	00-7F	REVERB PARAMETER 1	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		03	1	00-7F	REVERB PARAMETER 2	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		04	1	00-7F	REVERB PARAMETER 3	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		05	1	00-7F	REVERB PARAMETER 4	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		06	1	00-7F	REVERB PARAMETER 5	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		07	1	00-7F	REVERB PARAMETER 6	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		08	1	00-7F	REVERB PARAMETER 7	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		09	1	00-7F	REVERB PARAMETER 8	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		0A	1	00-7F	REVERB PARAMETER 9	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		0B	1	00-7F	REVERB PARAMETER 10	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		0C	1	00-7F	REVERB RETURN	-∞dB0dB+6dB (064127)	40	0	×	×	×	×
		0D	1	01-7F	REVERB PAN	L63CR63	40	0	×	×	×	×
TOTAI	L SIZE		0E									
02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		11	1	00-7F	REVERB PARAMETER 12	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		12	1	00-7F	REVERB PARAMETER 13	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		13	1	00-7F	REVERB PARAMETER 14	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×
		12	1	00-7F	REVERB PARAMETER 14	Refer to Effect Parameter List	Depends on Reverb Type	0	×	×	×	×

11	1	00=71	KEVERBTARAMETER 12
12	1	00-7F	REVERB PARAMETER 13
13	1	00-7F	REVERB PARAMETER 14
14	1	00-7F	REVERB PARAMETER 15
15	1	00-7F	REVERB PARAMETER 16

MIDI Data Format

								[MIDI (Silent)]				
								MIDI F	Reception	MID	I Transmis	sion
	Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input
02	01	20	2	00-7F	CHORUS TYPE MSB	Refer to Effect Parameter List	41(=CHORUS1)	0	×	×	×	×
				00-7F	CHORUS TYPE LSB		00					
		22	1	00-7F	CHORUS PARAMETER 1	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		23	1	00-7F	CHORUS PARAMETER 2	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		24	1	00-7F	CHORUS PARAMETER 3	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		25	1	00-7F	CHORUS PARAMETER 4	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		26	1	00-7F	CHORUS PARAMETER 5	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		27	1	00-7F	CHORUS PARAMETER 6	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		28	1	00-7F	CHORUS PARAMETER 7	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		29	1	00-7F	CHORUS PARAMETER 8	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		2A	1	00-7F	CHORUS PARAMETER 9	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		2B	1	00-7F	CHORUS PARAMETER 10	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		2C	1	00-7F	CHORUS RETURN	-∞dB0dB+6dB (064127)	40	0	×	×	×	×
		2D	1	01-7F	CHORUS PAN	L63CR63	40	0	×	×	×	×
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB0dB+6dB (064127)	00	0	×	×	×	×
TOTAI	_ SIZE		0F									
02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		31	1	00-7F	CHORUS PARAMETER 12	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		32	1	00-7F	CHORUS PARAMETER 13	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		33	1	00-7F	CHORUS PARAMETER 14	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		34	1	00-7F	CHORUS PARAMETER 15	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
		35	1	00-7F	CHORUS PARAMETER 16	Refer to Effect Parameter List	Depends on Chorus Type	0	×	×	×	×
TOTAL	SIZE		06		· · · · · · · · · · · · · · · · · · ·							

								L M	IDI (Silent)]			
								M	IIDI Recep	otion	MID	I Transmi	ssion
	Address (H)	s	Size (H)	Data (H)	Parameter	Description	XG Default (H)	S P	ong Pla Part Ch	'iano iyback iannel	Panel Operation	Song Playback	MIDI Input
02	01	40	2	00-7F	VARIATION TYPE MSB	Refer to Effect Parameter List	05 (=DELAY L, C, R)		0	×	×	×	×
				00-7F	VARIATION TYPE LSB		00						
		42	2	00-7F	VARIATION PARAMETER 1 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
				00-7F	VARIATION PARAMETER 1 LSB								
		44	2	00-7F	VARIATION PARAMETER 2 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
				00-7F	VARIATION PARAMETER 2 LSB								
		46	2	00-7F	VARIATION PARAMETER 3 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
				00-7F	VARIATION PARAMETER 3 LSB								
		48	2	00-7F	VARIATION PARAMETER 4 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
				00-7F	VARIATION PARAMETER 4 LSB								
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	х	×	×	×
				00-7F	VARIATION PARAMETER 5 LSB								
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	х	×	×	×
				00-7F	VARIATION PARAMETER 6 LSB								
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	х	×	×	×
				00-7F	VARIATION PARAMETER 7 LSB								
		50	2	00-7F	VARIATION PARAMETER 8 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
				00-7F	VARIATION PARAMETER 8 LSB								
		52	2	00-7F	VARIATION PARAMETER 9 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	х	×	×	×
				00-7F	VARIATION PARAMETER 9 LSB								
		54	2	00-7F	VARIATION PARAMETER 10 MSB	Refer to Effect Parameter List	Depends on Variation Type		0	х	×	×	×
				00-7F	VARIATION PARAMETER 10 LSB								
		56	1	00-7F	VARIATION RETURN	-∞dB0dB+6dB (064127)	40		0	×	×	×	×
		57	1	01-7F	VARIATION PAN	L63CR63	40		0	×	×	×	×
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB0dB+6dB (064127)	00		0	×	×	×	×
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞dB0dB+6dB (064127)	00		0	×	×	×	×
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00		0	×	×	×	×
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part116 (015)	7F		0	×	×	×	×
						Transmission: Part116 (015)							
						AD (64)							
						OFF (127)							
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-640+63	40		0	х	×	×	×
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-640+63	40		0	х	×	×	×
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-640+63	40		0	х	×	×	×
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-640+63	40		0	х	×	×	×
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-640+63	40		0	х	×	×	×
TOTAL	L SIZE		21										
02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
		71	1	00-7F	VARIATION PARAMETER 12	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
		72	1	00-7F	VARIATION PARAMETER 13	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
		73	1	00-7F	VARIATION PARAMETER 14	Refer to Effect Parameter List	Depends on Variation Type		0	х	×	×	×
		74	1	00-7F	VARIATION PARAMETER 15	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
		75	1	00-7F	VARIATION PARAMETER 16	Refer to Effect Parameter List	Depends on Variation Type		0	×	×	×	×
TOTAL	L SIZE		06										

■ MIDI Parameter Change Table (MULTI EQ)

1	Address (H)	i	Size (H)	Data (H)	Parameter	Description
02	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic
		01	1	34-4C	EQ GAIN1	-120+12 [dB]
		02	1	04-28	EQ FREQUENCY1	322.0k [Hz]
		03	1	01-78	EQ Q1	0.112.0
		04	1	00-01	EQ SHAPE1	shelving, peaking
		05	1	34-4C	EQ GAIN2	-120+12 [dB]
		06	1	0E-36	EQ FREQUENCY2	10010.0k [Hz]
		07	1	01-78	EQ Q2	0.112.0
		08	1		NOT USED	
		09	1	34-4C	EQ GAIN3	-120+12 [dB]
		0A	1	0E-36	EQ FREQUENCY3	10010.0k [Hz]
		0B	1	01-78	EQ Q3	0.112.0
		0C	1		NOT USED	
		0D	1	34-4C	EQ GAIN4	-120+12 [dB]
		0E	1	0E-36	EQ FREQUENCY4	10010.0k [Hz]
		0F	1	01-78	EQ Q4	0.112.0
		10	1		NOT USED	
		11	1	34-4C	EQ GAIN5	-120+12 [dB]
		12	1	1C-3A	EQ FREQUENCY5	0.5k16.0k [Hz]
		13	1	01-78	EQ Q5	0.112.0
		14	1	00-01	EQ SHAPE5	shelving, peaking
TOTAL	SIZE		15			

* The MULTI EQ parameter cannot be reset to its factory setting with XG SYSTEM on.

■ MIDI Parameter Change Table (EFFECT2)

Ad	ldress (H)		Size (H)	Data (H)	Parameter	Description
03	n	00	2	00-7F	INSERTION EFFECT TYPE MSB	Refer to Effect Parameter List
				00-7F	INSERTION EFFECT TYPE LSB	
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	Refer to Effect Parameter List
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	Refer to Effect Parameter List
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	Refer to Effect Parameter List
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	Refer to Effect Parameter List
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	Refer to Effect Parameter List
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	Refer to Effect Parameter List
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	Refer to Effect Parameter List
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	Refer to Effect Parameter List
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9	Refer to Effect Parameter List
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	Refer to Effect Parameter List
-		00	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part 1 16 (0 15)
		00	-	00 /1	indelition Errect mild notibelt	Transmission: Part1 16 (0 15)
					1	AD (64)
					1	OFF (127)
		0D	1	00.7E	MW INSERTION CONTROL DERTH	64 0 +62
		00	1	00-75	NW INSERTION CONTROL DEPTH	-040+03
		0E	1	00-/F	BEND INSERTION CONTROL DEPTH	-640+63
		OF	1	00-/F	CAT INSERTION CONTROL DEPTH	-640+63
		10	1	00-7F	ACT INSERTION CONTROL DEPTH	-640+63
OTAL SI	IZE		12			
		20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List
		21	1	00-7F	INSERTION EFFECT PARAMETER 12	Refer to Effect Parameter List
		22	1	00-7F	INSERTION EFFECT PARAMETER 13	Refer to Effect Parameter List
		23	1	00-7F	INSERTION EFFECT PARAMETER 14	Refer to Effect Parameter List
		24	1	00-7F	INSERTION EFFECT PARAMETER 15	Refer to Effect Parameter List
		25	1	00-7F	INSERTION EFFECT PARAMETER 16	Refer to Effect Parameter List
OTAL SI	IZE	20	6	00.7E	INCEPTION EFFECT BARAMETER 1 MCD	Define to Effect Decompton Lint
		50	2	00-7F	INSERTION EFFECT DADAMETED 11 SD	Refer to Effect Parameter List
		22	2	00-75	INSERTION EFFECT PARAMETER 1 LSB	D C (DCC (D) (L')
		32	2	00-7F	INSERTION EFFECT PARAMETER 2 MSB	Refer to Effect Parameter List
				00-7F	INSERTION EFFECT PARAMETER 2 LSB	DÓ DÓ DO DO TIN
		34	2	00-7F	INSERTION EFFECT PARAMETER 3 MSB	Refer to Effect Parameter List
				00-7F	INSERTION EFFECT PARAMETER 3 LSB	
		36	2	00-7F	INSERTION EFFECT PARAMETER 4 MSB	Refer to Effect Parameter List
				00-7F	INSERTION EFFECT PARAMETER 4 LSB	
		38	2	00-7F	INSERTION EFFECT PARAMETER 5 MSB	Refer to Effect Parameter List
				00-7F	INSERTION EFFECT PARAMETER 5 LSB	
		3A	2	00-7F	INSERTION EFFECT PARAMETER 6 MSB	Refer to Effect Parameter List
				00-7F	INSERTION EFFECT PARAMETER 6 LSB	
		3C	2	00-7F	INSERTION EFFECT PARAMETER 7 MSB	Refer to Effect Parameter List
			1	00-7F	INSERTION EFFECT PARAMETER 7 LSB	
1		3E	2	00-7F	INSERTION EFFECT PARAMETER 8 MSB	Refer to Effect Parameter List
			1	00-7F	INSERTION EFFECT PARAMETER 8 LSB	
		40	2	00-7F	INSERTION EFFECT PARAMETER 9 MSB	Refer to Effect Parameter List
			- T	00-7F	INSERTION EFFECT PARAMETER 91 SB	to Enert a anictor Elst
		42	2	00-7F	INSERTION EFFECT PARAMETER 10 MSP	Refer to Effect Parameter List
		42	-	00-75	INSERTION EFFECT PARAMETER 10 MSB	Refer to Effect i arameter Elst
				00-/ľ	INSERTION EFFECT FARAMETER 10 LSB	

[MIDI (S	[MIDI (Silent)]											
MIDI R	leception	MID	I Transmis	sion								
Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
_	_		_	_								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
_	—	_	_	_								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
—	_	_	_	_								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								
×	×	×	×	×								

[MIDI (Silent)] MIDI Recention MIDI Transmission											
MIDI Rece	eption	MID	I Transmis	ssion							
Song Part Pl	Piano ayback 'hannel	Panel Operation	Song Playback	MIDI Input							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							
×		×	×	×							

×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×

×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×
×	×	×	×

* The EFFECT2 parameter cannot be reset to its factory setting with XG SYSTEM on.

The second byte of the address is considered as an insertion effect number. n: insertion effect number

The insertion effect number range is from 0 to 1. Values outside the range are handled as unknown and ignored. For effect types that do not require MSB, the parameters for address 02-0B will be received and the parameters for address 30-42 will not be received. For effect types that require MSB, the parameters for address 30-42 will be received and the parameters for address 02-0B will not be received. When bulk dumps that include effect type data are transmitted, the parameters for address 02-0B will always be transmitted. However, for effect types that require MSB, the parameters for address 02-0B will not be received when the bulk dump is received.

■ MIDI Parameter Change Table (MULTI PART)

								[MIDI (S	ilent)]			-
	Address		Size	Data			XG Default	MIDI R	eception Piano	MID	I Transmis	sion
	(H)		(H)	(H)	Parameter	Description	(H)	Song Part	Playback	Panel Operation	Song Playback	MIDI Input
08	nn	00	1	00-20	NOT USED			×	×	×	×	×
		01	1	00-7F	BANK SELECT MSB	0127	part10=7F, other parts=00	0	0	×	×	×
		02	1	00-7F	BANK SELECT LSB	0127	00	0	0	×	×	×
		03	1	00-/F	PROGRAM NUMBER	1128	00 Part No	0	×	×	×	×
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	0	×	×	×	×
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	0	×	×	×	×
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS12	part10=02, other parts=00	0	×	×	×	×
		08	2	28-58 00-0E	NOTE SHIFT DETUNE	-240+24 [semitones]	40	0	×	×	×	×
		0)	2	00-0F	BETONE	1st bit3-0→bit7-4	00 00	0				
						2nd bit3-0→bit3-0						
		0B	1	00-7F	VOLUME	0127	64	0	×	×	×	×
		0C	1	00-7F	VELOCITY SENSE DEPTH	0127	40	0	×	×	×	×
		0D 0E	1	00-7F	PAN	RND, L63CR63	40	0	×	×	×	×
		0F	1	00-7F	NOTE LIMIT LOW	C-2G8	00	Õ	×	×	×	×
		10	1	00-7F	NOTE LIMIT HIGH	C-2G8	7F	0	×	×	×	×
		11	1	00-7F	DRY LEVEL	0127	7F	0	×	×	×	×
<u> </u>	┼──┤	12	1	00-7F	CHOKUS SEND REVERB SEND	0127	28	0	×	×	×	×
	<u>├</u>	13	1	00-7F	VARIATION SEND	0127	00	0	×	×	×	×
		15	1	00-7F	VIBRATO RATE	-640+63	40	ŏ	×	×	×	×
[16	1	00-7F	VIBRATO DEPTH	-640+63	40	0	×	×	×	×
		17	1	00-7F	VIBRATO DELAY	-640+63	40	0	×	×	×	×
	──	18	1	00-7F 00-7F	FILTER CUTOFF FREQUENCY FILTER RESONANCE	-640+63	40	0	×	×	×	×
<u> </u>	<u>├</u>	19	1	00-7F	EG ATTACK TIME	-640+63	40	0	×	×	×	×
		1B	1	00-7F	EG DECAY TIME	-640+63	40	Ő	×	×	×	×
		1C	1	00-7F	EG RELEASE TIME	-640+63	40	0	×	×	×	×
		1D	1	28-58	H	-240+24 [semitones]	40	0	×	×	×	×
		IE IE	1	00-/F	MW LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	×
		20	1	00-7F	MW AM ENODE CONTROL MW LFO PMOD DEPTH	0127	40 0A	0	×	×	×	×
		21	1	00-7F	MW LFO FMOD DEPTH	0127	00	Ö	×	×	×	×
		22	1	00-7F	MW LFO AMOD DEPTH	0127	00	0	×	х	×	×
		23	1	28-58	BEND PITCH CONTROL	-240+24 [semitones]	42	0	×	×	×	×
		24	1	00-/F	BEND LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	×
		2.5	1	00-7F	BEND LEO PMOD DEPTH	0127	40	0	×	×	×	×
		27	1	00-7F	BEND LFO FMOD DEPTH	0127	00	0	×	×	×	×
		28	1	00-7F	BEND LFO AMOD DEPTH	0127	00	0	×	×	×	×
TOTAI	LSIZE		29									
	1 1	30	1	00-01	Rev PITCH BEND	OFF ON	01	0	×	×	×	×
		31	1	00-01	Rev CH AFTER TOUCH (CAT)	OFF, ON	01	0	×	×	×	×
		32	1	00-01	Rev PROGRAM CHANGE	OFF, ON	01	0	×	×	×	×
		33	1	00-01	Rev CONTROL CHANGE	OFF, ON	01	0	×	×	×	×
		34	1	00-01	Rev POLY AFTER TOUCH (PAT)	OFF, ON	01	0	×	×	×	×
		36	1	00-01	Rev RPN	OFF ON	01	0	×	×	×	×
		37	i	00-01	Rcv NRPN	OFF, ON	XGmode=01, GMmode=00	ŏ	×	×	×	×
		38	1	00-01	Rev MODULATION	OFF, ON	01	0	×	×	×	×
		39	1	00-01	Rev VOLUME	OFF, ON	01	0	×	×	×	×
	──	3A 3P	1	00-01	Rev FXPRESSION	OFF, ON	01	0	×	×	×	×
	<u>├</u>	3C	1	00-01	Rev HOLD1	OFF. ON	01	0	×	×	×	×
		3D	i	00-01	Rev PORTAMENTO	OFF, ON	01	ŏ	×	×	×	×
		3E	1	00-01	Rev SOSTENUTO	OFF, ON	01	0	×	×	×	×
		3F	1	00-01	Rev SOFT PEDAL	OFF, ON	01	0	×	×	×	×
	┼──┤	40 41	1	00-01	KCV BANK SELEUI	OFF, UN -63 0 +63 [cent]	40	0	×	×	×	×
	<u>├</u>	42	1	00-7F	SCALE TUNING C#	-630+63 [cent]	40	0	×	×	×	×
		43	1	00-7F	SCALE TUNING D	-630+63 [cent]	40	ŏ	×	×	×	×
		44	1	00-7F	SCALE TUNING D#	-630+63 [cent]	40	0	×	×	×	×
		45	1	00-7F	SCALE TUNING E	-630+63 [cent]	40	0	×	×	×	×
	┼──┤	46 47	1	00-7F 00-7F	SCALE TUNING F#	-030+03 [cent]	40	0	×	×	×	×
	<u>├</u>	48	1	00-7F	SCALE TUNING G	-630+63 [cent]	40	0	×	×	×	×
		49	1	00-7F	SCALE TUNING G#	-630+63 [cent]	40	ŏ	×	×	×	×
		4A	1	00-7F	SCALE TUNING A	-630+63 [cent]	40	0	×	×	×	×
<u> </u>	\vdash	4B	1	00-7F	SCALE TUNING A#	-630+63 [cent]	40	0	×	×	×	×
	├	4C 4D	1	00-7F	SCALE TUNING B	-650+63 [cent]	40	0	×	×	×	×
		4E	1	20-38 00-7F	CAT LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	×
		4F	i	00-7F	CAT AMPLITUDE CONTROL	-1000+100 [%]	40	ŏ	×	×	×	×
		50	1	00-7F	CAT LFO PMOD DEPTH	0127	00	0	×	×	×	×
<u> </u>	\vdash	51	1	00-7F	CAT LFO FMOD DEPTH	0127	00	0	×	×	×	×
		52	1	00-/F	CAT LFU AMOD DEPTH	012/	00	0	×	×	×	×

MIDI Data Format

							[MIDI (Silent)]				
							MIDI	Reception	MIL	I Transmi	ssion
Addr (H	ress)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input
	53	1	28-58	PAT PITCH CONTROL	-240+24 [semitones]	40	0	×	×	×	×
	54	1	00-7F	PAT LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	×
	55	1	00-7F	PAT AMPLITUDE CONTROL	-1000+100 [%]	40	0	×	×	×	×
	56	1	00-7F	PAT LFO PMOD DEPTH	0127	00	0	×	×	×	×
	57	1	00-7F	PAT LFO FMOD DEPTH	0127	00	0	×	×	×	×
	58	1	00-7F	PAT LFO AMOD DEPTH	0127	00	0	×	×	×	×
	59	1	00-5F	AC1 CONTROLLER NUMBER	095	10	0	×	×	×	×
	5A	1	28-58	AC1 PITCH CONTROL	-240+24 [semitones]	40	0	×	×	×	×
	5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	×
	5C	1	00-7F	AC1 AMPLITUDE CONTROL	-1000+100 [%]	40	0	×	×	×	×
	5D	1	00-7F	AC1 LEO PMOD DEPTH	0127	00	Ő	×	×	×	×
	5E	1	00-7F	ACL LEO EMOD DEPTH	0 127	00	Ő	×	×	×	×
	5E	1	00-7F	ACLUED AMOD DEPTH	0 127	00		×	×	×	×
	60	1	00-71 00-5F	AC2 CONTROLLER NUMBER	0.95	11		×	×	×	×
	61	1	28.58	AC2 PITCH CONTROL	24_0_±24 [samitonas]	40		···	···	 V	
	62	1	20=J0 00.7E	AC2 LOW BASS FILTER CONTROL	-240 24 [semitoiles]	40		<u> </u>	~ ~	~ ~	Û
	62	1	00-75	AC2 LOW FASS FILTER CONTROL	-96000+9430 [cent]	40	0	^	^ 	^	
	63	1	00-/F	AC2 AMPLITUDE CONTROL	-1000+100 [%]	40	- 0	×	×	×	×
	64	1	00-/F	AC2 LFO PMOD DEPTH	0127	00	0	×	×	×	×
	65	1	00-/F	AC2 LFO FMOD DEPTH	0127	00	0	×	×	×	×
	66	1	00-/F	AC2 LFO AMOD DEPTH	0127	00	0	×	×	×	×
	67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	0	×	×	×	×
	68	1	00-7F	PORTAMENTO TIME	0127	00	0	×	×	×	×
	69	1	00-7F	PITCH EG INITIAL LEVEL	-640+63	40	0	×	×	×	×
	6A	1	00-7F	PITCH EG ATTACK TIME	-640+63	40	0	×	×	×	×
	6B	1	00-7F	PITCH EG RELEASE LEVEL	-640+63	40	0	×	×	×	×
	6C	1	00-7F	PITCH EG RELEASE TIME	-640+63	40	0	×	×	×	×
	6D	1	01-7F	VELOCITY LIMIT LOW	1127	01	0	×	×	×	×
	6E	1	01-7F	VELOCITY LIMIT HIGH	1127	7F	0	х	×	×	×
TOTAL SIZI	E	3F									
	70	1		NOT USED		_		—	_	_	_
	71	1		NOT USED			_	-	—	—	_
	72	1	00-7F	EO BASS GAIN	-12dB+12dB	40	×	×	×	×	×
	73	1	00-7F	EO TREBLE GAIN	-12dB+12dB	40	×	×	×	×	×
TOTAL SIZI	E	04					I J				
1	74	1		NOT USED				1			<u> </u>
	74	1		NOT USED				_	_	_	
	76	1	04.29	EO DASS EDEOLIENCY	22 2.0k [H-7]						
	70		1C 2 4	EQ BASS FREQUENCY	500 16 0k [Hz]	26	×	~ ~	~	~	Ŷ
	70	1	1C-5A	NOT USED	50010.0k [ft2]	50	^	^	^	^	
	78	1	L	NOT USED		—			-	-	
	79	1		NOT USED		—			_	_	
	7A	1	L	NOT USED		—			_	_	
	7B	1		NOT USED		—			—	—	
	7C	1		NOT USED		—			—	—	—
	7D	1		NOT USED		—			—	—	-
	7E	1		NOT USED		—			—	—	—
	7F	1		NOT USED		_	_	—			_
TOTAL SIZI	E	0C									
0A nn	40	1	00-7F	MW OFFSET LEVEL CONTROL	-100 - 100 [%]	40	0	×	×	×	×
	41	1 i	00-7F	BEND OFFSET LEVEL CONTROL	-100 - 100 [%]	40		×	×	×	×
	42	1 i	00-7F	CAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40		×	×	×	×
	43	i	00-7F	PAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40		×	×	×	×
	44	t î	00-7F	ACLOFESET LEVEL CONTROL	-100 - 100 [%]	40		×	×	×	×
	45	t i	00-7F	AC2 OFFSET LEVEL CONTROL	-100 - 100 [%]	40		×	×	×	×
TOTAL CIT	J	- ·	00-71	HOE OTTOET EETEE CONTROL	100-100[/0]	10					ı

nn: part number

If there is a Drum voice assigned to the part, the following parameters are ineffective. BANK SELECT LSB PORTAMENTO MONO/POLY SCALE TUNING POLY AFTER TOUCH PITCH EG

■ MIDI Parameter Change Table (DRUM SETUP)

								[MIDI (S	ilent)]			
	Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input
3n	rr	00	1	00-7F	PITCH COARSE	-640+63	40	0	×	×	×	×
		01	1	00-7F	PITCH FINE	-640+63 [cent]	40	0	×	×	×	×
		02	1	00-7F	LEVEL	0127	Depends on the note	0	×	×	×	×
		03	1	00-7F	ALTERNATE GROUP	OFF, 1127	Depends on the note	0	×	×	×	×
		04	1	00-7F	PAN	RND, L63CR63	Depends on the note	0	×	×	×	×
		05	1	00-7F	REVERB SEND	0127	Depends on the note	0	×	х	×	×
		06	1	00-7F	CHORUS SEND	0127	Depends on the note	0	×	×	×	×
		07	1	00-7F	VARIATION SEND	0127	7F	0	×	х	×	×
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	0	×	×	×	×
		09	1	00-01	Rev NOTE OFF	OFF, ON	Depends on the note	0	×	х	×	×
		0A	1	00-01	Rev NOTE ON	OFF, ON	01	0	×	×	×	×
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-640+63	40	0	×	×	×	×
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-640+63	40	0	×	х	×	х
		0D	1	00-7F	EG ATTACK RATE	-640+63	40	0	×	×	×	×
		0E	1	00-7F	EG DECAYI RATE	-640+63	40	0	×	×	×	×
		0F	1	00-7F	EG DECAY2 RATE	-640+63	40	0	×	×	×	×
TOTAL	_ SIZE		10									
		20	1	00-7F	EQ BASS GAIN	-12+12 [dB]	40	×	×	×	×	×
		21	1	00-7F	EQ TREBLE GAIN	-12+12 [dB]	40	×	×	×	×	×

		21	1	00-7F	EQ TREBLE GAIN	-12+12 [dB]	40	×	×	×	×	×
		22	1		NOT USED			_	-			
		23	1		NOT USED			_				
		24	1	04-28	EQ BASS FREQUENCY	322.0k [Hz]	0C	×	×	×	×	×
		25	1	1C-3A	EQ TREBLE FREQUENCY	50016.0k [Hz]	36	×	×	×	×	×
		26	1		NOT USED			_	-			
		27	1		NOT USED			_	_	-	-	_
		28	1		NOT USED		_	_	_			_
		29	1		NOT USED		_	_	_			_
		2A	1		NOT USED			—	_			_
		2B	1		NOT USED			_	-			
		2C	1		NOT USED			_	-			
		2D	1		NOT USED			_	_	-	-	_
TOTAL	SIZE		0E									

TOTAL SIZE

n: drum setup number (0-1) rr: note number (0D-5B)

In the following cases, the unit will initialize all drum setups. • XG SYSTEM ON received • GM SYSTEM ON received • GM LEVEL 2 SYSTEM ON received • GS RESET received • DRUM SETUP RESET received (only when in XG mode)

When a part to which a drum setup is assigned receives a program change, the assigned drum setup will be initialized. If the same drum setup is assigned to two or more parts, changes in drum setup parameters (including program changes) will apply to all parts to which it is assigned.

System Exclusive Messages (1)

* Not received when Receive System Exclusive Message is set to off.
 * Not transmitted when Transmit System Exclusive Message is set to off.

System Exclusive Messages (Universal Non Realtime Messages)

		[MIDI (Silent)]				
			MIDI Reception		MIDI Transmission		
MIDI Event	Data Format	Song Part	Piano Playback Channel	Panel Operation	Song Playback	MIDI Input	
GM1 System On	F0 7E XN 09 01 F7	0	×	×	×	×	
[GM1] [GM2]	11110000 F0 = Exclusive status						
	01111110 7E = Universal Non-Real Time						
	0xxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored						
	00001001 09 = Sub-ID #1=General MIDI Message						
	00000001 01 = Sub-ID #2=General MIDI On	1					
	11110111 F7 = End of Exclusive						

System Exclusive Messages (2)

System Exclusive Messages (XG)

		[MIDI (Silent)]			
		MIDI Reception	MIDI Transmission		
MIDI Event	Data Format	Song Part Piano Playback Channel	Panel Operation Song Playback		
XG Parameter Change	F0 43 In 4C hh mm II dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 00001mmn In = Device Number n=always 0 (when transmit), n=0-F (when recieve) 01001100 4C = Model ID 0hhhhhhh h = Address High 0mmmmmmm mm = Address Mid 0IIIIII II = Address Mid 0llillill II = Address Low 0ddddddd dd = Data	O Refer to Parameter Change Table	×××		
XG Bulk Dump	F0 43 0n 4C aa bb hn mil ld dd cc F7 11110000 F0 = Exclusive status dd cc F7 01000011 43 = Y/MAHA ID 00 0000nnn 0n = Device Number n=always 0 (when transmit), n=0-F (when recieve) 01001100 4C = Model ID 0aaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0bbbbbbb bb = Byte Count LSB 0bbbbbbbb = Byte Count LSB 0bbbbbbbb = Modress Mid 00 00 0dddddd dd = Data : <td< td=""><td>O Refer to Parameter Change Table</td><td>X X</td></td<>	O Refer to Parameter Change Table	X X		
XG Parameter Request	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	O Refer to Parameter Change Table	×××		
XG Dump Request	F0 43 2n 4C hh mm II F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010mnn 2n = Device Number n=always 0 (when transmit), n=0-F (when recieve) 01001100 4C = Model ID 0hhhhhhh h Address High mmmmmmm mm = Address Mid 0llllll II = Address Low = = Address Low = 11110111 F7 = End of Exclusive = =	O Refer to Parameter Change Table	×××		

System Exclusive Messages (Others)

				[MIDI (Silent)]			
			MIDI Reception		MIDI Transmission		
MIDI Event	Data Format			Song Part	Piano Playback Channel	Panel Operation	Song Playback
MIDI Master Tuning	F0 43 ln 27	30	00 00 mm ll cc F7	×	×	×	×
	11110000	F0	= Exclusive status				
	01000011	43	= YAMAHA ID				
	0001nnnn	ln	n= always 0(when transmit), n=0-F(when receive)				
	00100111	27	= Model ID of TG100				
	00110000	30	= Address High				
	00000000	00	= Address Mid				
	00000000	00	= Address Low				
	0000mmmm	0m	= Master Tune MSB				
	00001111	01	= Master Tune LSB				
	0cccccc	cc	= don't care				
	11110111	F7	= End of Exclusive				

System Exclusive Messages (Preset Voice)

		[MIDI (Silent)]			
		MIDI R	leception	MIDI Transmission	
MIDI Event	Data Format	Song Part	Piano Playback Channel	Panel Operation	Song Playback
String Resonance Depth	F0 43 73 01 50 11 00 2d F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 000 000 01 Model ID (Clavinova common ID) 01010000 50 = SubID 00000nnn 0 Channel (00-0F) 00000nnn 00 = SubID (String Resonance Depth) 0dddddd d = Depth (00-48) 01111011 F7 = End of Exclusive End of Exclusive End of Exclusive	0	×	×	x
Sustain Sample Depth	F0 43 73 01 50 11 00 03 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 000 0000 01 Model ID (Clavinova common ID) 0100000 01 = Model ID (Clavinova common ID) 0010000 50 = SubID 000000nnn 0 = Channel (00-0F) 000000nnn 0 = Channel (00-0F) 00dddddd dd = Depth (00-48) 11110111 F7 = End of Exclusive	0	×	×	×
Key Off Sampling Depth	F0 43 73 01 50 11 00 04 dd F7 111110000 F0 Exclusive status uss 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000000 01 Model ID (Clavinova common ID) 01010000 50 = SubID 00010001 11 = SubID 00000000 04 = SubID 00000000 04 = Channel (00-0F) 000000100 04 = SubID (Key Off Sampling Depth) 0dddddd dd = Depth (00-50) 01011111 F7 = End of Exclusive End of Exclusive End of Exclusive	0	×	×	×
Soft Pedal Depth	F0 43 73 01 50 11 0n 05 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 0000001 01 = Model ID (Clavinova common ID) 01010000 50 = SubID 00010001 11 = SubID 00000001 01 = SubID 00001001 11 = SubID 00000nnm 0n = Channel (00-0F) 00000101 05 = SubID (Soft Pedal Depth) 0dddddd d = Depth (00-7F) 111/1011 F7 = End of Eveloptive	0	×	x	x

* For each depth value, the rest value is 40H = voice parameter.

MEMO

MIDI IMPLEMENTATION CHART

Yamaha Disklavier Model: DKC-900 Date: 01-AUG-2019 Version: 1.00

Function		Transmitted	Recognized	Remarks		
Dania Ohannal	Default	1-16	1-16	Memorized		
Basic Channel	Changed	1-16	1-16			
	Default	3	3			
Mode	Messages	×	3, 4 (m=1) *1, *2			
	Altered	****	×			
Noto Number		o 21-108	0-127			
Note Number	: True Note	****	0-127			
Valaaity	Note ON	o 9nH, v=1-127	o v=1-127			
Velocity	Note OFF	o 8nH, v=0-127	0			
After Touch	Key's	o *4	×			
Alter Touch	Ch's	×	×			
Pitch Bend		×	o 0-24 semi *1			
	0, 32	x	o *1	Bank Select		
	7, 11	×	0			
	1, 5, 10	×	o *1			
	6, 38	×	o *1	Data Entry		
	64	0	0	Hold1 (Sustain)		
Control Change	65	×	o *1	Portamento		
	66	o *3	o *1	Sostenuto		
	67	0	0	Soft (Shift) Pedal		
	71-74, 84	×	o *1			
	91, 93, 94	×	o *1	Effect Depth		
	96-101	×	o *1			
Brag Change		x	o 0-127			
Prog Change	: True #	*****				
System Exclusive		0	0			
	: Song Pos	x	×			
Common	: Song Sel	×	×			
	: Tune	×	×			
Sustam Bool Time	: Clock	x	×			
System Real Time	: Commands	×	×			
	: All Sound OFF	0	o (120, 126, 127)			
	: Reset All Cntrls	×	o (121)			
Aux Maaaaaaa	: Local ON/OFF	×	0			
Aux messages	: All Notes OFF	0	o (123-125)			
	: Active Sense	0	0			
	: Reset	×	×			
Notes	*1 = Only ESBL Part can recognized.*2 = m is always treated as 1 regardless of value.*3 = Transmit if this model has a Sostenuto Pedal.*4 = Applying further pressure on the key does not output key aftertouch information.					
Mode 1 : OMNI ON. POLY Mode 2 : OMNI ON. MONO o : YES						

Mode 3 : OMNI OFF. POLY

Mode 2 : OMNI ON. MONO Mode 4 : OMNI OFF. MONO

• : YES × : NO

YAMAHA

YAMAHA CORPORATION

10-1 Nakazawa-cho, Chuo-ku, Hamamatsu, 430-8650 Japan

© 2019 Yamaha Corporation Published 11/2024 MWEI-B0



