

Ongoing Pursuit of Higher Keyboard Quality





HIGH-GRADE KEYBOARDS





CTK-7200

- ·61 piano-style keys
- -820 tones
- ·260 rhythms
- ·64-note polyphony
- $\cdot 7 \text{ W} + 7 \text{ W}$

Feature Highlights

Drawbar Organ Function

The keyboard comes with 50 specially selected built-in drawbar organ tones. Nine sliders can be used to change harmonic overtone level settings and add percussion and click sounds for real-time sound creation as you play. A rotary speaker simulated using a built-in DSP provides the distinctive acoustic effect of drawbar organ speakers. Parameters can be edited to create original "user drawbar organ tones," 50 of which can be stored in memory for later recall. *Availability: WK-7600_CTK-7200



Multiple Digital Effects

The attack time, release time, cutoff, vibrato, reverb/chorus, DSP and other parameters of a built-in tone can be adjusted and edited. You can save the result as your own unique "user tone" that will be available for instant recall whenever you need it during live performances. A TONE EDITOR button provides instant access to the editing mode

Tone Editor

Built-in effects include reverb (10 types), chorus (five types), and DSP (100 preset DSPs using 46 DSP types including delay, phaser, flanger, wah, rotary, and more). By adjusting the parameters of the DSP effect types, you can create original effects and store up to 100 original types in memory for later recall. *DSP and chorus cannot be used simultaneously

32-Channel Mixer

Nine sliders*, one for each channel, can be used for individual simultaneous adjustment of volume, pan, reverb send, and other parameters.

* WK-6600 and CTK-6200, CTK-6250: Button and dial operation onl



Song Sequencer

The 17-track Song Sequencer (16 tracks + 1 system track) acts as a multi-track recorder, so you can use it for real-time recording of your keyboard play. 17 tracks mean that you can perform multi-track recording to layer bass, guitar, piano, and other instruments onto a drum part and build to a final song. Both real-time and step recording are supported. Completed recordings can be converted to SMF (Standard MIDI File) format and saved to an SD memory card.





Audio Recording / MIC IN & INST IN

Normal keyboard play, Auto Accompaniment, Song Sequencer play, INST IN terminal input, MIC IN terminal input and other audio can be recorded to an SD memory card as digital audio data. While playing back a song you created with the Song Sequencer, you can play along on a guitar or other instrument, or input vocal accompaniment with a microphone.

*Availability: WK-7600_CTK-7200 Up to approximately 13 minutes of recording per file.



Connection Diagram

Pattern Sequencer

Up to eight tracks (drum, percussion, bass, chord 1 through chord 5) can be edited to create original accompaniment patterns (INTRO, NORMAL, NORMAL FILL-IN, VARIATION, VARIATION FILL-IN). In addition to recording over each individual accompaniment part of an existing rhythm, an event editing function gives you total control over each aspect of recorded data, an Easy Edit function lets you combine accompaniment from multiple built-in rhythms to create original rhythms, and mixer capabilities give you control over the tones, volume levels, reverb, and other parameters of each part.

A full selection of editing tools includes event insert, event delete, event copy, quantize, and more. Memory is provided for storage of up to 100 different user rhythms, which can be recalled with the touch of a key. *Availability: WK-7600, CTK-7200

Music Presets

Music presets provide one-touch access to Auto Accompaniment, tone, reverb, and other settings that are configured in accordance with representative chord progressions. A total of 305 presets lets you configure the keyboard for a wide variety of different musical styles easily. In addition to built-in presets, you can create your own original presets (user presets) and store them in memory for later recall.

Equalizer

Incorporates five selectable frequency characteristics, including "Bright" for a lively sound emphasizing the treble range and "Powerful" for a stress on volume.



Arpeggiator

With the arpeggiator, you can play various arpeggios and other phrases automatically by simply pressing keys on the keyboard. You can select from 150 different arpeggiato types, including arpeggios from a fingered chord, guitar phrases, and more.

Auto Harmonize

Adding harmony automatically when you play melody notes lets you experience the joy of playing music with a depth similar to that of an advanced player's performance.

Rhythm Editor

The WK-6600 and CTK-6200, CTK-6250 come with a Rhythm Editor function that you can use to edit built-in Auto Accompaniments and

*WK-6600 and CTK-6200, CTK-6250 only. On the WK-7600 and CTK-7200, you can use the Easy Edit function of the Pattern Sequence

Pitch Bend Wheel & Modulation Button



SD Memory Card Slot

HIGH-GRADE KEYBOARDS

ORIENTAL KEYBOARDS

الآلة الموسيقية الشرقية



WK-7600

·76 piano-style keys ·820 tones ·260 rhythms ·64-note polyphony ·7 W + 7 W



WK-6600

·76 piano-style keys ·700 tones ·210 rhythms ·48-note polyphony ·6 W + 6 W



CTK-6250



CTK-6250/ CTK-6200

·61 piano-style keys ·700 tones ·210 rhythms ·48-note polyphony ·6 W + 6 W



AT-5

·76 piano-style keys ·800 tones ·250 rhythms ·64-note polyphony ·7 W + 7 W



AT-3

- ·61 piano-style keys ·800 tones
- ·250 rhythms ·64-note polyphony
- ·7 W + 7 W

ORIENTAL KEYBOARD Function

A versatile selection of Oriental tones and rhythms built in

54 built-in Oriental tones include the oud, qanun, nay and more. A total of 83 built-in Oriental accompaniment rhythms covers everything from traditional to modern music. High-quality sound supports both Oriental music performance and composing.





Oriental Scale Setting

The tuning of the built-in sound source can be easily lowered by a quarter tone to recreate the scale required for Oriental music. The Oriental scale can be used for both composing and live performances. The final scale setting can be applied to Auto Accompaniments as well.

You can also fine tune a preset scale in one cent (1/100 semitone) steps



RABIC		ORIENTA	L
Number	Tone Name	Number	Tone Name
01	OUD 1	01	UD 1
02	OUD 2	02	UD 2
03	OUD 3	03	UD 3
04	OUD 4	04	BAGLAMA 1
05	QANUN 1	05	BAGLAMA 2
06	QANUN 2	06	BAGLAMA 3
07	QANUN 3	07	BAGLAMA 4
08	SAZ	08	BAGLAMA 5
09	ELEC.SAZ	09	BAGLAMA 6
10	NAY 1	10	ELEC.BAGLAMA 1
11	NAY 2	11	ELEC.BAGLAMA 2
12	KAWALA 1	12	ELEC.BAGLAMA 3
13	KAWALA 2	13	ELEC.BAGLAMA 4
14	MIZMAR 1	14	BOUZOUKI 1
15	MIZMAR 2	15	BOUZOUKI 2
16	KAMAN 1	16	BOUZOUKI 3
17	KAMAN 2	17	KANUN 1
18	ARABIC STRINGS 1	18	KANUN 2
19	ARABIC STRINGS 2	19	SANTUR
20	ARABIC STRINGS 3	20	KEMENCHE 1
21	ARABIC STRINGS 4	21	KEMENCHE 2
22	ARABIC ORGAN 1	22	NEY 1
23	ARABIC ORGAN 2	23	NEY 2
24	ARABIC ORGAN 3	24	ZURNA 1
25	DARBUKA	25	ZURNA 2
26	BENDIR	26	TURKISH CLARINET 1
27	RIQ	27	TURKISH CLARINFT 2

ARABIC				VARIATIO	NI.
Number	Rhythm Name	30	BANDARI	Number	Rhythm Name
01	SAIDI	31	BENG	01	ARABIC POP
02	MAKSOUM	32	6/8 MODERN	02	TURKISH POP 1
03	MAI FOLIF			03	TURKISH POP 2
03	AYOUB	ORIENTA	L	04	FLECTRIC MALEOUE
05	KATAKOFTI	Number	Rhythm Name	05	ELECTRIC AYOUB
06	KARACHI	01	2/4 OYUN HAVASI	06	ELECTRIC BALADI
07	BALADI	02	ARAP ORYANTAL	07	FLECTRIC KHALLII
08	KHAI I.II	03	VAHDE	08	FLECTRIC FALLAHI
09	SAUDI	04	ORIENTAL 1	09	FI FCTBIC FOX
10	FALLAHI	05	ORIENTAL 2	10	FLECTRIC ADANI
11	ZAFFA	06	CIFTETELLI	11	FLECTRIC 2/4 OYUN HAVASI
12	WEHDA KABIRA	07	3/4 TSM	12	ELECTRIC 9/8 OYUN HAVASI
13	WEHDA	08	5/4 CLASSIC	13	BALADI-MAKSOUM
14	SOMBATI	09	5/8 CLASSIC	14	BALADI-MALFOUF
15	MASMOUDI KABIR	10	6/8 AZEBI	15	BALADI-AYOUB
16	LAFF 1	11	KARDENIZ	16	BALADI-KARACHI
17	LAFF 2	12	7/8 RUMELI	17	JERK-MAKSOUM
18	JERK	13	9/8 OYUN HAVASI	18	CLASSIC FOX-MALFOUF
19	RHUMBA-MASARI	14	9/8 ROMAN	19	CLASSIC 3/4
20	FOX	15	9/8 CLASSIC	20	CLASSIC MALFOUF-10/8
21	VALSE	16	KARSILAMA 1	21	CLASSIC WEHDA-MAKSOUM
22	10/8 SAMAI	17	HALAY	22	CLASSIC SAMAI
23	SAIDI MODERN	18	MISKET	23	HAGALLA
24	KARACHI MODERN	19	KARSILAMA 2	24	SAMAI MIX
25	LAFF MODERN	20	ANADOLU	25	SAIDI MIX
26	DOSARY	21	MUS	26	CIFTETELLI MIX
27	IRAQI	22	KARSILAMA 3	27	KARSIROMAN
28	SHARH	23	HASAPIKO		•
29	ADANI	24	SIRTAKI		

STANDARD KEYBOARDS



CTK-4400

- ·61 piano-style keys
- ·600 tones
- ·180 rhythms
- ·152 Song Bank tunes
- ·2.5 W + 2.5 W



CTK-5200

- ·61 piano-style keys
- ·600 tones
- ·180 rhythms
- ·152 Song Bank tunes
- ·Pitch bend wheel
- ·SD card slot
- ·2.5 W + 2.5 W



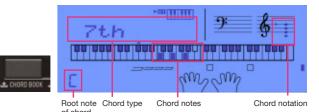
WK-240

- ·76 piano-style keys ·600 tones
- ·180 rhythms
- ·152 Song Bank tunes ·2.5 W + 2.5 W

Feature Highlights

Chord Book

You can use the Chord Book to look up chords you don't know how to play. You can hear what a chord sounds like, and a simple operation even shows you inverted forms of the chord, making the Chord Book an especially valuable reference.



Registration

You can easily save your current setup, including tones, rhythms, and other settings, for instant recall when you need them. You can even save tones to which effector effects are being applied. Recalling a registration instantly changes the digital keyboard's setup. Registration (memory) simplifies performance of complex pieces that require successive tone and rhythm changes.



- Tone numbers (main, laver, split)
- Octave shift
- . Chorus (on, off, type) · Arpeggiator setting (on, off, type)
- · Rhythm number Tempo
- · Reverb (on, off, type)
- · Layer (on, off)
 - · Split (on, off)

and more...

Auto Harmonize

Virtual Hall

Playing the keyboard simulates the acoustic effect of a concert hall, and produces reverberations that transmit a feeling of being there.

*Availability: CTK-4400, WK-240





Arpeggiator / Auto Harmonize

The arpeggiator enables you to play various arpeggios and other phrases automatically by simply pressing keys on the keyboard. Both arpeggio and stroke play are available for guitar, providing you with wide-ranging versatility. An Auto Harmonize feature automatically adds harmony to melody notes you play with your right hand to add greater depth to your melodies.

Step Up Lesson

Treating each short phrase as an independent lesson makes it easier to remember. After memorizing one phrase, you can move on to the next. This lesson function helps you master whole songs by assembling the phrases one by one.

Piano / Organ Button

A press of the Piano / Organ Button instantly toggles between a piano tone and an organ tone and optimizes the keyboard setup accordingly.



Music Preset

Selecting a Music Preset instantly changes the keyboard setup (tones, rhythms, tempo, etc.), optimizing it for playing a specific song. The selection of setups covers a wide range of musical genres.

Audio In

Connecting a music player with the Audio In jack causes audio from the player to be output through the keyboard's speakers. You can play along with the audio, too, so you can enjoy jamming with your favorite artists. It's a great way to liven up a party or other social gathering.

Recorder [6 tracks x 5 songs, 1 lesson song]



Easy dance tune playback

Just touching the keys is all it takes to play dance music expressing a DJ mood. Or you can use Build-up Play to apply sound effects characteristic of dance music for even more fun.

(Availability) → CTK-3500 → CTK-2550 → CTK-2500 → CTK-1550 → CTK-1500 → LK-265 → LK-190 → LK-136 → LK-135



Build-up Play

Pressing the indicated black keys livens up the music with six dramatic sound effects!



Applies a beat sound effect by cutting out and repeating the first beat.



Chops up a song finely with muted and unmuted sounds.



Changes the song's overall pitch. A sound can be raised or lowered half a tone by touching a key.



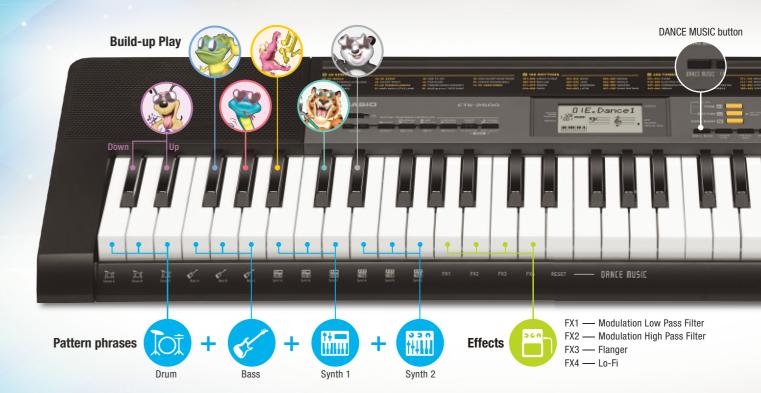
Instantly changes the pattern phrases of a song during a performance.



Cuts high and low pass frequencies to modulate a song's texture.



Brings the song to an end with a variety of effects applied during the performance.



Enjoy dance music easily, just as you imagine it!



DANCE MUSIC button.

2 Choose

Select the built-in EDM, house or hip-hop pattern you feel like playing.





combining 3 types of phrases you select from the 4 parts of the pattern you have selected your fancy. for play and turning them off and on at will.



Apply whichever of the 4 effects suits



You can also add a total of up to 6 dramatic effects.

STANDARD KEYBOARDS







CTK-2550



ORANGE

© 60 SONG BANK ____

80-38 WORSLD
60 THROUGH THROUGH LITTLE STAR
84 AMAZING GRAGE
13 GREENSLEEVES

CTK-2550/ CTK-2500

- ·61 piano-style keys
- ·400 tones
- ·100 rhythms
- ·50 Dance Music rhythms
- ·60 Song Bank tunes
- ·2 W + 2 W





CTK-1550

CTK-1500





CTK-1550/ CTK-1500

- ·61 piano-style keys
- ·120 tones
- ·70 rhythms
- ·50 Dance Music rhythms
- ·100 Song Bank tunes
- ·2 W + 2 W



CTK-245

CTK-240





CTK-245/ CTK-240

- ·49 full-size keys
- ·100 tones
- ·100 rhythms
- ·50 Song Bank tunes

KEY LIGHTING KEYBOARDS



LK-280

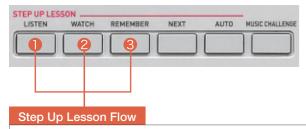
- ·61 piano-style keys ·600 tones
- ·180 rhythms
- 152 Song Bank tunes2.5 W + 2.5 W



Feature Highlights

Step Up Lesson

The best way to master a song is to break it up into short phrases, master the phrases one at a time, and then put them all together. Step Up Lesson does exactly that, providing you with the support you need to improve your play.



[Phrases]

All the built-in songs are divided into phrases that are optimized for learning, so you can start improving with Step Up Lesson immediately.

[Lesson Part Select]

You can configure Step Up Lesson to practice the right-hand part, left-hand part, or parts for both hands, at any pace that suits you.

[Performance Evaluation]

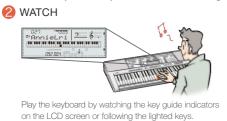
The keyboard rates your performance and shows the score on the LCD screen. This makes music learning as fun as a favorite game as you challenge yourself each time you play.

[Voice Fingering Guide]

If the keyboard senses you are having problems, it will help you by calling out finger numbers in a simulated human voice.

Simply perform each of the three steps below as you practice the preset phrases and improve your musical skills. After you master one phrase, move on to the next one. Before you know it, you will master the whole song.







Music Challenge

Music Challenge tests your reaction speed by requiring you to press the keys indicated by the on-screen keyboard guide in time with the Auto Accompaniment tempo using the correct fingers indicated by the on-screen fingering guide.

Recorder

You can use the recorder to record your keyboard play for later playback. You can record solos or record as you play along with a built-in song. Each song can then be divided among multiple parts (for specific instruments, left-hand play, right-hand play, etc.), which can then be combined into a final song, making the recorder a valuable practice tool. Recorded song data can be saved to an SD card or transferred to your computer for storage.



Song Bank

Song Bank songs cover a wide range of genres for lesson play and for your listening enjoyment. Some of the built-in songs can also be used for karaoke sing along. (Requires connection of a commercially available microphone.)



Song Expansion

You can load songs from external sources* and use them for listening, play along, or even lessons.

"Via USB port or SD memory card"

Chord Book Sampling Function

KEY LIGHTING KEYBOARDS





Add to the fun by linking the keyboard with the downloaded Chordana Play app in your smart device.



Stereo mini jack



Application operating environment: iPhone, iPad or Android™ device

*Downloading of dedicated app required before use.

*IPhone / iPad / iPod touch: download from the App Store; Android™: download from Google Play™.

*Check the App Store or Google Play™ for the correct OS version.

Expand the keyboard's store of built-in songs

Use an audio cable to transfer 50 built-in songs from the app as well as songs downloaded as MIDI files and save them in the keyboard. You can then use the saved song data with the keyboard accompaniment function to enjoy the Step Up Lesson feature.

*Songs stored in the keyboard may sound different from original built-in songs.

[Chordana Play built-in songs]

LIGHTLY ROW

LONG LONG AGO
SAKURA SAKURA
AULD LANG SYNE
MICHAEL ROW THE BOAT ASHORE
HOME ON THE RANGE
SANTA LUCIA
JOSHUA FOUGHT THE BATTLE OF JERICHO
THE MUFFIN MAN
IF YOU'RE HAPPY AND YOU KNOW IT, CLAP YOUR HANDS
HOUSE OF THE RISING SUN
SHE WORE A YELLOW RIBBON
MY OLD KENTUCKY HOME
SZLA DZIEWECZKA
TROIKA
WALTZING MATILDA
ON THE BRIDGE OF AVIGNON
CAMPTOWN RACES

JEANNIE WITH THE LIGHT BROWN HAIR
JAMAICA FAREWELL
JE TE VEUX
SONATA op. 13 "PATHÉTIQUE" 2nd Mov.
HEIDENRÖSLEIN
HABANERA FROM "CARMEN"
BRINDISI FROM "LA TRAVIATA"

MUSETTE IN D MAJOR
CHOPSTICKS
SONATINA 0p.36 no.1 1st Mov.
RÉVERIE
GYMNOPÉDIES no.1
WEDDING MARCH FROM "MIDSUMMER NIGHT'S DREAM"
AMERICAN PATROL
SONATA K.545 1st Mov.
LA PRIÉRE D'UNE VIERGE
SERENADE FROM "EINE KLEINE NACHTMUSIK"
LARGO (HÂNDEL)
LINNOCENCE
PROMENADE FROM "TABLEAUX D'UNE EXPOSITION"
DOLLY'S DREAMING AND AWAKENING
LA FILLE AUX CHEVEUX DE LIN
BEAUTIFUL DREAMER
DANNY BOY
HUMORESQUE (DVOŘÁK)
MAPLE LEAF RAG
CSIKOS POST
MARCHE MILITAIRE 1
BLUMENLIED
GRANDE VALSE BRILLANTE
LA CANDEUR
AVE MARIA (BURGMÜLLER)

Play the keyboard while linked with the app

A piano roll showing the music score and finger timing is displayed on the mobile device's app screen. You can even use the keyboard's key lighting function to support your performance.



[Music score screen]





[Availability] LK-265, CTK-3500, CTK-2550, CTK-2500

Practice playing on the smart device screen

Another fun feature is the ability to take 3-step lessons on the smart device itself using the virtual keyboard that appears on the screen. You can confirm the chords, melody and finger timing visually on the screen, while also using the scoring

function to help you master the song. The 50 built-in app songs and your downloaded MIDI file songs are all available for use in your lessons.



*Smart device and audio cable available separately on the market. *CTK Series keyboards do not offer Key Lighting.

KEY LIGHTING KEYBOARDS

MINI KEYBOARDS



LK-247

- ·61 piano-style keys
- ·400 tones
- ·150 rhythms ·110 Song Bank tunes
- ·2 W + 2 W





LK-190

- ·61 piano-style keys
- ·400 tones
- ·100 rhythms
- ·50 Dance Music rhythms
- ·60 Song Bank tunes
- ·2 W + 2 W







SA-78/SA-77/SA-76

- ·44 mini-size keys
- ·100 tones
- ·50 rhythms
- ·10 Song Bank tunes ·0.8 W + 0.8 W







5 pads for Percussion sounds



SA-78/SA-76

PIANO, ORGAN tone button



SA-77

PIANO, HARMONIUM / ORGAN tone button







LK-136/ LK-135

- ·61 piano-style keys ·120 tones
- ·70 rhythms
- ·50 Dance Music rhythms
- ·100 Song Bank tunes
- ·2 W + 2 W





GREEN SA-46

SA-47/SA-46

- ·32 mini-size keys
- ·100 tones
- ·50 rhythms
- ·10 Song Bank tunes ·0.5 W + 0.5 W







5 pads for Percussion sounds







PIANO, HARMONIUM / PIANO. ORGAN tone button

ORGAN tone button

DIGITAL PIANOS



·Arpeggiator

·Chord Book

·Metronome

·Recorder

·Step Up Lesson

CDP-230RSR (Silver)

CDP-230R

- ·88 piano-style keys ·700 tones
- ·200 rhythms
- ·152 Song Bank tunes ·8 W + 8 W
- ·Music Preset
- ·Registration
- ·Rhythm Editor
- ·One Touch Preset

- ·Auto Harmonize
- ·Piano/Organ Button

- ·Song Expansion ·Damper pedal jack
- (sustain/sostenuto/soft/rhythm), SP-3 pedal included



CDP-130BK (Black)



CDP-130

- ·88 piano-style keys
- ·10 tones
- ·5 demonstration songs
- ·8 W + 8 W
- ·Metronome
- ·Damper pedal jack (damper), SP-3 pedal included

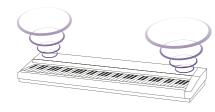


CDP-130SR (Silver) •The CS-44P stand shown in the photograph

Feature Highlights

Full Force Sound Speakers

These speakers clearly reproduce a wide dynamic range from the bass range to the treble. The newly developed speaker system delivers rich, high-quality sound.



Keyboard for authentic grand piano touch



CDP-230RBK (Black) •The CS-44P stand shown in the photograph is an optional accessory.

These pianos are equipped with an effect function that recreates the warm, rich acoustics of a concert hall. Your playing will have the visceral immediacy of a concert hall performance.



CDECIFICATIONS LUCLI ODADE KEVDOADDO

Function				KEYBOARDS	ORIENTAL KEYBOARDS
(auboard	Number of Iron		CTK-7200 WK-7600	CTK-6250 / CTK-6200 WK-6600	AT-5 AT-3
Keyboard	Number of keys Touch Response		61 keys (Piano-style) 76keys (Piano-style) 2 sensitivity levels, Off	61 keys (Piano-style) 76 keys (Piano-style) 2 sensitivity levels, Off	76 keys (Piano-style) 61 keys (Piano-sty
ones	Polyphony (maximu	um)	2 Sensitivity levels, On	48	2 sensitivity levels, Off 64
101100	Sound Source	unij	AHL (Tri-element)	AHL (Dual-element)	AHL (Tri-element)
	Number of Built-in	Tones	820 (including 50 Drawbar Organ tones)	700	800 (including 54 Oriental tones)
		Stereo Sampled Piano Tones	•	•	•
	Tone Editor		•	•	•
		User Tones	100	10	100
	Drawbar Organ Fu		9 drawbars (16', 5 1/3', 8', 4', 2 2/3', 2', 1 3/5', 1 1/3', 1')		
		Preset Drawbar Organ Tones	50 (Included in 820 preset tones.)		
		User Drawbar Organ Tones	50	_	_
		Percussion	Second / Third		
		Click	On / Off		
Digital Effects	Reverb	Rotary Effect	10	10	10
Digital Ellocis	Chorus				
		with DSP not supported.)	5	5	5
	DSP	Preset DSPs	100	100	100
	(Simultaneous use Chorus not suppor	rted.) User DSPs	100	100	100
	EQ(Equalizer)	,	5 (Off, Soft, Bright, B.Boost, Powerful)	5 (Off, Soft, Bright, B.Boost, Powerful)	_
	Auto Harmonize		12	12	12
	Arpeggiator		150	150	150
hythms and	Number of Built-in	Rhythms	260	210	250
uto		Ethnic Rhythms (Latin , Indian ,	111 [39 , 11 , 10 , 51]	95 [34 , 11 , 6 , 44]	136 [21 , 10 , 83 , 22]
ccompaniment		Oriental / Arabic, Others]	* ' ' '		•
		For Piano Play	20	20	20
	One Touch Preset		260	210	250
	Auto Accompanime	ent	CASIO Chord, Fingered 1, Fingered 2 (6th off), Fingered 3 (on bass), Full Range Chord	CASIO Chord, Fingered 1, Fingered 2 (6th off), Fingered 3 (on bass), Full Range Chord	CASIO Chord, Fingered 1, Fingered 2 (6th off), Fing (on bass), Full Range Chord
		Controllors	Start/Stop, Intro, Normal/Fill-in, Variation/Fill-in, Synchro/	Start/Stop, Intro, Normal/Fill-in, Variation/Fill-in, Synchro/	Start/Stop, Intro, Normal/Fill-in, Variation/Fill-in, Sy
		Controllers	Ending (Accompaniment volume adjustable)	Ending (Accompaniment volume adjustable)	Ending (Accompaniment volume adjustable)
	Rhythm Creation	Pattern Sequencer	Real-time recording, step recording, quantize, Easy Edit,	_	Real-time recording, step recording, quantize, Eas
		Rhythm Editor	Event Editor, part parameters • (Easy Edit)	•	Event Editor, part parameters • (Easy Edit)
		User Rhythms	100 (Pattern Sequencer)	10 (Rhythm Editor)	100 (Pattern Sequencer)
ongs	Number of Demons		5	5	5
ongo		otration bongo	-	-	Play/Stop, Fast Forward, Fast Backward, Pause, I
	Song Controllers		(Song volume adjustable)	(Song volume adjustable)	(Song volume adjustable)
Nusic Preset	Number of Music F	Presets	305 presets with chord progression, chord edit	305 presets with chord progression, chord edit	305 presets with chord progression, chord edi
	User Presets		100	50	100
ecording unctions	Song Sequencer		Real-time recording (Easy Rec, Multi-track Rec), step recording, song edit, track edit, event edit (delete, copy,	Real-time recording (Easy Rec, Multi-track Rec), step recording, song edit, track edit, event edit (delete, copy,	Real-time recording (Easy Rec, Multi-track Rec recording, song edit, track edit, event edit (delete
uncions	Joing Jequencer		insert, quantize, etc.), punch-in/out	insert, quantize, etc.)	insert, quantize, etc.), punch-in/out
		User Songs	5 songs, 17 tracks per song	5 songs, 17 tracks per song	5 songs, 17 tracks per song
			(1 system track + 16 multi tracks)	(1 system track + 16 multi tracks)	(1 system track + 16 multi tracks)
	A !! D !! /	Approximate Data Capacity	30,000 notes (5 songs total)	12,000 notes (5 songs total)	30,000 notes (5 songs total)
	Audio Recording/ Playback	Recording Source	Keyboard Play, Keyboard Play with Auto Accompaniment and with Music Preset, Song Sequencer playback, sound input from EXT IN (INST IN, MIC IN)		Keyboard Play, Keyboard Play with Auto Accompar and with Music Preset, Song Sequencer playback, input from EXT IN (INST IN, MIC IN)
	, laybaoit				input from EXT IN (INST IN, MIC IN)
		Recording Capacity	Up to 20 audio files (maximum recording time: approxi-	_	Up to 5 audio files (maximum recording time: approxi
		Dlaubaale	mately 13 minutes for a single audio file) Data recorded with this instrument, data converted on		13 minutes for a single audio file) Data recorded with this instrument, data converted
		Playback	computer*1 (up to 999 files)		computer*1 (up to 999 files)
		Requirements	SD or SDHC memory card, 2GB to 32GB		SD or SDHC memory card, 2GB to 32GB
ther Functions			32 channels + EXT IN (INST IN, MIC IN), 9-slider operation	32 channels 32 channels + EXT IN (MIC IN)	32 channels + EXT IN (INST IN, MIC IN)
	Registration		6 sets x 16 banks (96 setups)	4 sets x 8 banks (32 setups)	6 sets x 16 banks (96 setups)
	Layer		•	•	•
	Split Scale Tuning		 (Variable split point) 	(Variable split point) 17 preset scales, Scale Fine Tune ±99 cents	(Variable split point)
		Number of Preset Cooles	17 propot cooles Coole Fine Tune - 00 conte		
	ocaic running	Number of Preset Scales	17 preset scales, Scale Fine Tune ±99 cents	17 preset scales, scale i life fulle ±35 certs	17 preset scales, Scale Fine Tune ±99 cents
		Number of Preset Scales Oriental Scale Function	_	_	Oriental Scale Setting Buttons / 4 Scale Memori
	Key Transpose		±1 octave (-12 to +12 semitones)	±1 octave (-12 to +12 semitones)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones)
			±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz
	Key Transpose Tuning Control		±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves	Oriental Scale Setting Buttons / 4 Scale Memor ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves
	Key Transpose Tuning Control Octave Shift		±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats
isplay and	Key Transpose Tuning Control Octave Shift	Oriental Scale Function	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats
isplay and ontrollers	Key Transpose Tuning Control Octave Shift Metronome	Oriental Scale Function	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin
isplay and ontrollers	Key Transpose Tuning Control Octave Shift Metronome Display	Oriental Scale Function Tempo Range	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight
splay and ontrollers	Key Transpose Tuning Control Octave Shift Metronome Display	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones
ontrollers	Key Transpose Tuning Control Octave Shift Metronome Display	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones —	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones
ontrollers	Key Transpose Tuning Control Octave Shift Metronome Display	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received.	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — — — — — — — — — — — — — — — — — —	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — — — — — — — — — — — — — — — — — —	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2*	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 • (Standard jack) • (Stereo standard jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (fempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 • (Standard jack) • (Stereo standard jack)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0,2,3,4,5,6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack)
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2*	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (fempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 • (Standard jack) • (Stereo standard jack)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (lempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Mono standard jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — — — — — — — — — — — — — — — — — —	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Mono standard jack) (Mono standard jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INE OUT MIG IN AUDIO IN	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Mono standard jack) (Stereo mini jack)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Silders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Manuel 1 standard*2 (Standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (fempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 • (Standard jack) • (Stereo standard jack) • (L/MONO, R for each; Standard jack) • (Stereo mini jack) • (Stereo mini jack)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0,2,3,4,5,6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack)
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 3 (12 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall,	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2* (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Stereo mini jack) SMF playback (up to 320KB per file), file storage, file recall,	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals	Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Stereo standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) Stereo mini jack) (Stereo mini jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 (Stereo standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Stereo mini jack) 10 (Stereo mini jack) 11 (Stereo mini jack) 12 (Stereo mini jack) 13 (Stereo mini jack) 14 (Stereo mini jack) 15 (Stereo mini jack) 16 (Stereo mini jack) 17 (Stereo mini jack) 18 (Stereo mini jack) 19 (Stereo mini jack)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0,2,3,4,5,6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Stereo standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) Stereo mini jack) (Stereo mini jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 (Stereo standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Stereo mini jack) 10 (Stereo mini jack) 11 (Stereo mini jack) 12 (Stereo mini jack) 13 (Stereo mini jack) 14 (Stereo mini jack) 15 (Stereo mini jack) 16 (Stereo mini jack) 17 (Stereo mini jack) 18 (Stereo mini jack) 19 (Stereo mini jack)	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0,2,3,4,5,6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————
eneral MIDI	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Silders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) 8 (Stereo mini jack) Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0,2,3,4,5,6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
isplay and ontrollers eneral MIDI connectivity and torage	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) 3 (12 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files 12 cm x 2 + 3 cm x 2	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones — — — — — —————————————————————————
eneral MIDI onnectivity and torage	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals SD Memory Card Slot	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load Size Bass-reflex System	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 10 (Stereo mini jack) 11 (Stereo mini jack) 12 (Stereo mini jack) 13 (Stereo mini jack) 14 (Stereo mini jack) 15 (Stereo mini jack) 16 (Stereo mini jack) 17 (Stereo mini jack) 18 (Stereo mini jack) 19 (Stereo mini jack)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — —————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI onnectivity and torage	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals SD Memory Card Slot Speakers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 8 (12 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (fempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard** (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) (Stereo mini jack) 10 (Stereo mini jack) Registration setups, user rhythms, user tones, user DSPs, user music presets, song sequencer	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI onnectivity and torage	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals SD Memory Card Slot Speakers Amplifiers	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load Size Bass-reflex System Speaker ON/OFF	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 12 (12 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files 12 cm x 2 + 3 cm x 2	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Fempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI connectivity and corage	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals SD Memory Card Slot Speakers Amplifiers Dimensions	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load Size Bass-reflex System Speaker ON/OFF	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-imbre received, GM Level 1 standard'=2 (Mono standard jack) (Istereo standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) 10 (12 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files 12 cm x 2 + 3 cm x 2 7 W + 7 W 948 x 384 x 122 mm 1,161 x 385 x 147 mm	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones — 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (L/MONO, R for each; Standard jack) — — (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 10 (Stereo mini jack) 11 (Stereo mini jack) 12 (Stereo mini jack) 13 (Stereo mini jack) 14 (Stereo mini jack) 15 (Stereo mini jack) 16 (Stereo mini jack) 17 (Stereo mini jack) 18 (Stereo mini jack) 19 (Stereo mini jack) 10 (Stereo mini jack) 11 (Stereo mini jack) 11 (Stereo mini jack) 11 (Stereo mini jack) 12 (Stereo mini jack) 13 (Stereo mini jack) 14 (Stereo mini jack) 16 (Stereo mini jack) 17 (Stereo mini jack) 18 (Stereo mini jack) 19 (Stereo mini jack) 11 (Stereo mini jack) 12 (Stereo mini jack) 13 (Stereo mini jack) 14 (Stereo mini jack) 15 (Stereo mini jack) 16 (Stereo mini jack) 17 (Stereo mini jack) 17 (Stereo mini jack) 18 (Stereo min	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0,2,3,4,5,6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones
eneral MIDI connectivity and corage	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals SD Memory Card Slot Speakers Amplifiers Dimensions Weight (without batt	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load Size Bass-reflex System Speaker ON/OFF W X D x H leries)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) 3 (12 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files 12 cm x 2 + 3 cm x 2 7W + 7W 948 x 384 x 122 mm 1,161 x 385 x 147 mm 6.7 kg 8.3 kg	## 1 octave (-12 to +12 semitones) ## 1 octave (-12 to +12 semitones) ## 2 octaves 0, 2, 3, 4, 5, 6 beats 0, 2, 3, 4, 5, 6 beats 1 = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI connectivity and corage Deakers and mplifiers	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals SD Memory Card Slot Speakers Amplifiers Dimensions	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load Size Bass-reflex System Speaker ON/OFF W X D x H leries)	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 10 (Stereo mini jack) 11 (2 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files 12 cm x 2 + 3 cm x 2 7 W + 7 W 948 x 384 x 122 mm 1,161 x 385 x 147 mm 6.7 kg 8.3 kg Batteries: D size x 6 / AC Adaptor: AD-A12150LW	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI connectivity and corage peakers and mplifiers ze and Weight	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals SD Memory Card Slot Speakers Amplifiers Dimensions Weight (without batt	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load Size Bass-reflex System Speaker ON/OFF W x D x H leries) d AC Adaptor	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 3 (12 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files 12 cm x 2 + 3 cm x 2 7 W + 7 W 948 x 384 x 122 mm 6.7 kg 8.3 kg Batteries: D size x 6 / AC Adaptor: AD-A12150LW AC adaptor (AD-A12150LW), music stand	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (fempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0,2,3,4,5,6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————
eneral MIDI onnectivity and torage	Key Transpose Tuning Control Octave Shift Metronome Display Controllers Terminals Terminals SD Memory Card Slot Speakers Amplifiers Dimensions Weight (without batt Batteries / Includer	Oriental Scale Function Tempo Range Pitch Bend Wheel Modulation Button Sliders Large Dial SUSTAIN / ASSIGNABLE PHONES LINE OUT INST IN MIC IN AUDIO IN USB DC IN Supported Memory Card Functions Save/Load Size Bass-reflex System Speaker ON/OFF W x D x H leries) d AC Adaptor	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones 9 16 channel multi-timbre received, GM Level 1 standard*2 (Standard jack) (Stereo standard jack) (Mono standard jack) (Mono standard jack) (Stereo mini jack) (Stereo mini jack) (Stereo mini jack) 10 (Stereo mini jack) 11 (2 V) SD or SDHC memory card, 2GB to 32GB SMF playback (up to 320KB per file), file storage, file recall, file delete, card format Registration setups, user rhythms, user tones, user drawbar organ tones, user DSPs, user music presets, song sequencer, audio recording files 12 cm x 2 + 3 cm x 2 7 W + 7 W 948 x 384 x 122 mm 1,161 x 385 x 147 mm 6.7 kg 8.3 kg Batteries: D size x 6 / AC Adaptor: AD-A12150LW	±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tapping beat) LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————	Oriental Scale Setting Buttons / 4 Scale Memori ±1 octave (-12 to +12 semitones) A4 = 415.5 - 440.0 - 465.9 Hz ±2 octaves 0, 2, 3, 4, 5, 6 beats J = 30 to 255 per minute (Tempo adjustable by tappin LCD with backlight Pitch bend range: 0 to 24 semitones ———————————————————————————————————

¹ Converted with the free Data Manager application software. See the website-http://www.casio-intl.com/support/download.html *2 These products are not equipped with MIDI terminals. MIDI communication between a product and a computer is performed using the USB port.
3 Supported operating systems: Windows Vista* (32-bit), Windows* (32-bit, 64-bit), Windows* (102-bit, 64-bit), Windows* (102-bit, 64-bit), Mac OS*X (10.7, 10.8, 10.9, 10.10, 10.11)

No USB cable is bundled with this product. Use a commercially available adaptable USB cable to connect it with a computer.

SPECIFICATIONS STANDARD KEYBOARDS / KEY LIGHTING KEYBOARDS / DIGITAL PIANOS

Function			_	TANDARD KEYBOAF						Y LIGHTING KEYBOARI				PIANOS
unotion		CTK-5200 CTK-4400 WK-240	CTK-3500	CTK-3400SK	CTK-2550 / CTK-2500	CTK-1550 / CTK-1500	CTK-245 / CTK-240	LK-280	LK-265	LK-247	LK-190	LK-136 / LK-135	CDP-230RBK/SR	CDP-130bk/sr
	Number of Keys	61 (Piano-style) 76 (Piano-style)		61 (Piano-style	61 (Piano-style)	61 (Piano-style)	49 (Full-size)	61 (Piano-style)	61 (Piano-style)	61 (Piano-style)	61 (Piano-style)	61 (Piano-style)	88 (Scaled Hammer Action)	88 (Scaled Hammer Actio
	Touch Response	2 sensitivity levels, Off	2 sensitivity levels, Off	On, Off	-	-	-	2 sensitivity levels, Off	2 sensitivity levels, Off	2 sensitivity levels, Off	 ● (On / Off)	— ● (On / Off)	3 sensitivity levels, Off	3 sensitivity levels, Off
	Key Lighting System Polyphony (maximum)		48	48	48	32	12	● (On / Off) 48	● (On / Off) 48	● (On / Off) 48	48	32	48	48
	Number of Built-in Tones	600	400	200	400	120	100	600	400	400	400	120	700	10
	Stereo Piano Tones	(Stereo-sampled)	•	•	•	-	-	(Stereo-sampled)	•	•	•	-	(Stereo-sampled)	(Stereo-sampled)
Digital Effects	Hall	- (Virtual Hall)	(Virtual Hall)	-	(Virtual Hall)	-	-	-	(Virtual Hall)	-	-	-	•	•
,	Reverb	10	10	10	10	-	-	10	10	10	10	-	10	10
	Chorus	5	-	-	-	-	-	5	-	-	-	-	5	5
	Auto Harmonize	12	-	-	-	-	-	12	-	-	-	-	12 90	-
	Arpeggiator Dance Music Effect	90	-		-	-	-	90	-	-	-	-	90	-
	Number of Built-in Rhythms	180	100	126	100	70	100	180	100	150	100	70	200	_
Rhythms	Ethnic Rhythms [Latin, other]	87 [32 , 55]	46 [12 , 34]	50 [16 , 34]	46 [12 , 34]	33 [7 , 26]	28 [15 , 13]	87 [32 , 55]	46 [12 , 34]	55 [20 , 35]	46 [12 , 34]	33 [7 , 26]	86 [32 , 54]	_
	For Piano Play	20	10	20	10	2	-	20	10	20	10	2	20	-
	One Touch Presets	180	100	126	100	-	-	180	100	150	100	-	200	-
	Dance Music Mode	_	•	-	•	•	-	-	•	-	•	•	-	-
	Number of Built-in Dance Music Rhythms	_ 	50	-	50	50	-	-	50	-	50	50	10	_
	User Rhythms (Rhythm Editor) Number of Built-in Tunes [Exercise Phrase]	152 [50]	60	10 (Demo songs)	60	100	_ 50	152 [50]	60	110 [20]	60	100	152 [50]	5 (Demo songs)
- 1	Song Expansion (maximum number of songs)	10	30	- (Defile deliga)	30	-	-	10	30	-	-	-	10	- (Dollio soligs)
	Number of Music Presets	305	-	_	-	_	_	305	-	_	_	_	305	_
Additional	Lesson Function	Step Up Lesson, Scoring System, Voice Fingering Guide	Step Up Lesson, Scoring System,	_	Lesson Lite, Scoring System,	Lesson Lite, Scoring System,	Melody On / Off	Step Up Lesson, Scoring System,	Step Up Lesson, Scoring System,				Step Up Lesson, Scoring System,	_
eatures	E7 Mod-	5.5p op 2000om, oconing dystern, voice i ingering dulide	Voice Fingering Guide		Voice Fingering Guide	Voice Fingering Guide	-	Voice Fingering Guide	Voice Fingering Guide	Voice Fingering Guide	Voice Fingering Guide	Voice Fingering Guide	Voice Fingering Guide	
	EZ Mode Lesson Part Select	Right Hand, Left Hand, Both Hands	Right Hand, Left Hand, Both Hands	-	Right Hand, Left Hand, Both Hands	Right Hand, Left Hand, Both Hands	– Right Hand	Right Hand, Left Hand, Both Hands	Dight Hand Laft Hand Dath Hands	Right Hand, Left Hand, Both Hands	Right Hand, Left Hand, Both Hands	Pight Hand Laft Hand Path Hands	Right Hand, Left Hand, Both Hands	
	Connection to APP	nigiit naiid, Leit naiid, Bulii naiids	nigiit rialiu, Leit rialiu, Butii rialius		nigiit nailu, teit nailu, buil nailus	night hand, Left hand, Bour hands	nigiil rialiu	nigiit naiiu, Leit naiiu,buii naiius —	nigiil Haliu, Leit Haliu, Bulli Halius	nigiil nailu, Leil nailu,Buil nailus —	nigiit nailu, Leit nailu, bulii nailus	nigiit nailu, Leit nailu, Butii nailus	— Nigiti riditu, Lett riditu, butii riditus	
	Chord Book	•	-	_	_	_	_	•	-	_	_	-	•	_
	Sampling Function	Up to 8 (Memory 5, Drum 3), Up to 10 seconds	_	_	_		_	Up to 8 (Memory 5 , Drum 3),	_	Up to 3 tones , Up to 1 second	_	_	Up to 8 (Memory 5 , Drum 3)	
		1 1 1 1 1 1				_		Up to 10 seconds					Up to 10 seconds	
	Sampling Sound Input Effects for Sampled Tone	AUDIO IN jack MIC IN / SAMPLING j		-	-	-	-	MIC IN / SAMPLING jack	-	MIC IN / SAMPLING jack	-	-	MIC IN / SAMPLING jack	-
	Voice Pad	10 types -	-		-	-		10 types		10 types	_	-	10 types	_
	Recorder Keyboard Play	6 tracks x 5 songs	_	1 track x 1 song	_	_	_	6 tracks x 5 songs	_	_	_	_	6 tracks x 5 songs	_
	With Built-in Songs	1 lesson song	_	-	_	_	_	1 lesson song	_	_	_	_	1 lesson song	_
P	Approximate Data Capacity	Approximately 12,000 notes total	_	Approximately	_	_	_	Approximately	_	_	_	_	Approximately	
	1	** **		2,000 notes total				12,000 notes total					12,000 notes total	
	Registration Setups [sets x banks]	32 (4 x 8)	-	32 (4 x 8)		-	-	-	_ _	-	-	-	32 (4 x 8)	-
	Solit	•		•	_	_		•	_	_	_	_		_
,	Scale Function Number of Preset Scales	17	_	_	_	_	_	17	_	_	_		17	_
	Key Transpose	•	•	•	•	•	•	•	•	•	•	•	•	•
	Octave Shift	±2 octaves	-	-	-	-	-	±2 octaves	-	-	-	-	±2 octaves	-
	Tuning Control	•	•	•	•	•	•	•	•	•	•	•	•	•
	Metronome	•	•	•	•	-	-	•	•	•	•		•	•
,	Auto Power Off Piano / Organ Button	•	_	_	-	•	-		-	-	-	-		-
	Pitch Bend Wheel	-	•	•	_	_	_	_	_	_	_	_	•	_
General MIDI		•	•	•	_	-	_	•	_	•	_	_	•	_
Connectivity	Terminals PEDAL (SUSTAIN/DAMPER)	•	•	•	•		_	•	•	•	•	_	Stereo Standard Jack	Stereo Standard Jack
and Storage	(•		•	•	A (Manaura)	•	•	•	•	•		(sustain/sostenuto/soft/rhythm)	(damper)
	PHONES/OUTPUT MIC IN	—	(G) –	-	-	• (Monaural)	-	(MIC IN / SAMPLING)	•	(MIC IN / SAMPLING)	•	• (Monaural)	(MIC IN / SAMPLING)	-
	AUDIO IN	- (WITO IN 7 OCHWI EII	•	•	•	_	_	(IVIIO IIV / GAIVII EIIVO)	•	(IVIIO IIV / OAIVII LIIVO)	_	_	(IVIIO IIV7 GAIVII EIIVO)	_
	USB	• 1	•	●1	-	-	-	●1	-	•1	-	-	●11	●1
	Memory Internal Memory (Approximate.	320 KB	_	_	_	_	_	320 KB	_	_	_	_	320 KB	_
	Capacities)*2		_	_		_				_	_			
Speakers and	SD Memory Card Slot	● *3 — — — — — — — — — — — — — — — — — —	10 cm x 2	10 cm x 2	10 cm x 2	10 cm x 2	10 cm x 2	●*3 12 cm x 2	10 cm x 2	10 cm x 2	10 cm x 2	10 cm x 2	●*3 [12 cm / 6 cm] x 2	[12 cm / 6 cm] x 2
mplifiers	Full Force Sound Speakers	12 GHI X 2	10 CHI X 2	10 CIII X 2	10 CIII X 2	10 CIII X Z	10 CIII X Z	12 CIII X 2	10 CIII X 2	10 CIII X Z	10 CIII X 2	10 CIII X Z	[12 CH17 6 CH1] X 2	[12 cili / 6 cili] x 2
	Amplifiers	2.5 W + 2.5 W	2 W + 2 W	2 W + 2 W	2 W + 2 W	2 W + 2 W	1.6 W + 1.6 W	2.5 W + 2.5 W	2 W + 2 W	2 W + 2 W	2 W + 2 W	2 W + 2 W	8 W + 8 W	8 W + 8 W
ize and Weight		948 x 350 x 103 mm 948 x 350 x 103 mm 1,161 x 385 x 134		946 x 307 x 92 mm	946 x 307 x 92 mm	946 x 307 x 92 mm	914 x 237 x 75 mm	948 x 350 x 103 mm	946 x 307 x 92 mm	946 x 307 x 92 mm	946 x 307 x 92 mm	946 x 307 x 92 mm	1.322 x 286 x 129 mm /	1,322 x 286 x 129 mm
- 1													1,322 x 373.2 x 753.3 mm ⁻⁴	1,322 x 373.2 x 753.3 mr
,	Weight (without batteries) Batteries / Optional AC Adaptor	4.4 kg 4.3 kg 6.9 kg AA-size x 6 / AD-E95100L D-size x 6 / AD-E9510	3.4 kg	3.5 kg	3.3 kg AA-size x 6 / AD-E9510	3.3 kg	2.8 kg	4.5 kg	3.6 kg	3.6 kg AA-size x 6 / AD-E95100L	3.6 kg	3.5 kg	11.3 kg[19.2 kg] ⁻⁴	10.8 kg[18.7 kg] ^{*4} 12150LW ^{*5}
OMOR Cupple	patteries / Optional AC Adaptor				I			Song Book, Music Stand,		Song Book, Music Stand,			Pedal (SP-3), Song Book, Music	
			Music Stand	Music Stand, Dust Cover	Music Stand	Music Stand	Song Book, Music Stand	Microphone	Music Stand	Microphone	Music Stand	Music Stand	Stand, AC Adaptor (AD-A12150LW)	AC Adaptor (AD-A12150LV
Power Supply Accessories	Included Accessories	Song Book, Music Stand	IVIUSIC Startu	Ividaic Starid, Duat Gover	mode claric			IVIICIOPIIOTE		IVIIGIOPIIOTIG			Jianu, AG Auapiur (AD-ATZ I JULIV)	
	Included Accessories	Song Book, Music Stand 4971850314356		4971850314448	[CTK-2550] 4971850314752	[CTK-1550] 4971850314714 [CTK-1500] 4971850314707	[CTK-245]4971850313908 [CTK-240]4971850313779	4074050044000	4971850314684	4971850314301	4971850314653	[LK-135]4971850314721	[CDP-230RBK] 4971850362005 [CDP-230RSR] 4971850362012	[CDP-130BK] 49718503619

SPECIFICATIONS MINI KEYBOARDS

		_								
Function	MINI KEYBOARDS									
i dilotion	SA-78	SA-77	SA-76	SA-47	SA-46					
Keyboard	44 (Mini-size)	44 (Mini-size)	44 (Mini-size)	32 (Mini-size)	32 (Mini-size)					
Polyphony (maximum)	8	8	8	8	8					
Built-in Tones	100	100	100	100	100					
Indian tones	3	4	3	4	3					
Built-in Patterns (Indian rhythms / Free session)	50 (5 / 1)	50 (5 / 1)	50 (5 / 1)	50 (5 / 1)	50 (5 / 1)					
Built-in Tunes	10	10	10	10	10					
Lesson Function	Melody Off									
Pads (Indian purcussion sounds)	5 (2)	5 (2)	5 (2)	5 (2)	5 (2)					
Tuning Control	•	•	•	•	•					
Display (LCD)	•	•	•	•	•					
Terminals (Phones / Output)	•	•	•	•	•					
Speakers	8 cm x 2									
Amplifier	0.8 W + 0.8 W	0.8 W + 0.8 W	0.8 W + 0.8 W	0.5 W + 0.5 W	0.5 W + 0.5 W					
Power (Batteries / Optional AC Adaptor)	AA-size x 6 / AD-E95100L									
Size W x D x H	604 x 211 x 57 mm	604 x 211 x 57 mm	604 x 211 x 57 mm	446 x 208 x 51 mm	446 x 208 x 51 mr					
Veight without batteries)	1.4 kg	1.4 kg	1.4 kg	1.0 kg	1.0 kg					
Accessories	Song Book									
EAN Code	4971850321149	4971850321118	4971850321101	4971850321088	4971850321071					

OPTIONS







01 110110							
Model	Stand	Pedal	AC Adaptor	Model	Stand	Pedal	AC Adaptor
CTK-7200	CS-7W, CS-4B	SP-20, SP-3	AD-A12150LW*	CTK-245	CS-2X	-	AD-E95100L
WK-7600	CS-7W	SP-20, SP-3	AD-A12150LW*	CTK-240	CS-2X	-	AD-E95100L
WK-6600	CS-7W	SP-20, SP-3	AD-A12150LW*	LK-280	CS-7W, CS-4B	SP-20, SP-3	AD-E95100L
CTK-6250	CS-7W, CS-4B	SP-20, SP-3	AD-A12150LW*	LK-265	CS-2X	SP-20, SP-3	AD-E95100L
CTK-6200	CS-7W, CS-4B	SP-20, SP-3	AD-A12150LW*	LK-247	CS-2X	SP-20, SP-3	AD-E95100L
AT-5	CS-7W	SP-20, SP-3	AD-A12150LW*	LK-190	CS-2X	SP-20, SP-3	AD-E95100L
AT-3	CS-7W, CS-4B	SP-20, SP-3	AD-A12150LW*	LK-136	CS-2X	-	AD-E95100L
CTK-4400	CS-7W, CS-4B	SP-20, SP-3	AD-E95100L	LK-135	CS-2X	-	AD-E95100L
CTK-5200	CS-7W, CS-4B	SP-20, SP-3	AD-E95100L	CDP-230R	CS-44P	SP-20, SP-3*	AD-A12150LW*
WK-240	CS-7W	SP-20, SP-3	AD-E95100L	CDP-130	CS-44P	SP-20, SP-3*	AD-A12150LW*
CTK-3500	CS-2X	SP-20, SP-3	AD-E95100L	SA-78	-	-	AD-E95100L
CTK-3400SK	CS-2X	SP-20, SP-3	AD-E95100L	SA-77	-	-	AD-E95100L
CTK-2550	CS-2X	SP-20, SP-3	AD-E95100L	SA-76	-	-	AD-E95100L
CTK-2500	CS-2X	SP-20, SP-3	AD-E95100L	SA-47	-	-	AD-E95100L
CTK-1550	CS-2X	-	AD-E95100L	SA-46	-	-	AD-E95100L
CTK-1500	CS-2X	-	AD-E95100L			*Inc	luded with the product.

^{*1} Supported operating systems: Windows Vista[®] (32-bit), Windows[®] 7 (32-bit, 64-bit), Windows[®] 8 (32-bit, 64-bit), Windows[®] 10 (32-bit, 64-bit), Mindows[®] 10 (32-bit, 64-bit), Mac OS[®] X (10.7, 10.8, 10.9, 10.10, 10.11)

No USB cable is bundled with this product. Use a commercially available adaptable USB cable to connect it with a computer.

*2 Memory capacity values indicate the capacity of memory shared for storage of Song Expansion songs, sampled sounds, user rhythms, registration setups, and other data. *3 Supported SD memory card capacities: SD or SDHC memory card, up to 32GB



Go Beyond Sound

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