DP-90 DIGITAL PIANO

USER’S MANUAL
In order to fully appreciate all the impressive features of this digital piano, please take a few minutes to read the following pages of instruction.

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated or “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 operation and maintenance or servicing instructions.

CAUTION
Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

WARNING
When using electrical products, basic safety precautions should always be followed, including the following:

SAFETY
Power Source - The product should always be connected to a power supply only of the type described in the operating instructions or as marked on the product.
Periods of Nonuse - The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
SERVICE AND MODIFICATION
This product should be serviced by qualified service personnel when,
• the power supply cord or the plug has been damaged,
• liquid has been spattered into the unit or it has been exposed to rain,
• the instrument does not appear to operate normally or exhibits a marked change in
  performance.
• the instrument has been dropped or the cabinet has been damaged.
• Do not attempt to open the piano or make any change in the circuits or parts of the unit.

HANDLING AND TRANSPORT
• Never apply excessive force to the controls, connectors or other parts of the instrument.
• Always unplug cables by gripping the plug firmly, not by pulling on the cable.
• Disconnect all cables before moving the instrument.
• Physical shocks caused by dropping, bumping, or placing heavy objects on the
  instrument can result in scratches and/or more serious damage.
• Carefully check the amplifier volume control before starting to play. Excessive volume
  can cause permanent hearing loss.

CLEANING
• Clean the cabinet and panel with a soft nonabrasive dry cloth. Do not use paint thinner
  or petrochemical based polishes.
• To maintain the luster of the keys and buttons wipe with a clean, slightly damp cloth, and
  then polish with a soft dry cloth.

LOCATION
Do not expose the instrument to the following conditions to avoid deformation,
discoloration, or more serious damage:
• Direct sunlight (near a window)
• High temperatures (near a heat source, outside, or near a window)
• Excessive humidity
• Excessive dust
• Strong vibration
• Leave enough space around the piano for it to be properly ventilated.
• This instrument contains digital circuitry and may cause interference if placed too close
  to radio or television receivers. If interference occurs, move the instrument further away
  from the affected equipment.
• Avoid placing vinyl objects on top of the instrument, vinyl can stick to and discolor the
  surface.

POWER
• Turn the power switch off when the instrument is not in use.
• To avoid damage to the instrument and other devices to which it is connected, turn the
  power switches of all related devices off prior to connection or disconnection of MIDI
  cables.
• Turn the power off if the main cable is damaged or the instrument is spattered with liquid.
• Do not switch the unit on and off in quick succession, this places an undue load on the
  electronic components.
• Unplug the AC power cord during an electrical storm.
• Avoid plugging the AC power cord into the same AC outlet as appliances with high
  power consumption, such as electric heaters or refrigerators.
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SPECIFICATIONS

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<th>88-note, Hammer-Action keyboard</th>
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<td>VOICES</td>
<td>15 Voices, 5 buttons + a variation button</td>
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<td>VOICE MODE</td>
<td>Upper, Layer, duet</td>
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<td>SOUND EFFECTS</td>
<td>Reverb and Chorus</td>
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<td>CONTROL BUTTONS</td>
<td>Transpose, Tempo, Setup, Metronome, Demo, +/-</td>
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<td>SETUP</td>
<td>Tuning, Octave, Touch response, Volume balance</td>
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<tr>
<td>DEMONSTRATION</td>
<td>10 orchestra songs; each voice has a demo music piece</td>
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<td>TEACHING</td>
<td>58 Lesson songs, right / left hand training</td>
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<tr>
<td>RECORDING</td>
<td>2 tracks</td>
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<tr>
<td>DISPLAY</td>
<td>3 X 7-segment LED</td>
</tr>
<tr>
<td>AUXILIARY JACKS</td>
<td>Headphone x 2, Line Out, Line in, MIDI In/Out, USB</td>
</tr>
<tr>
<td>PEDALS</td>
<td>Sustain Pedal, Sostenuto Pedal, Soft Pedal</td>
</tr>
<tr>
<td>AMPLIFIER</td>
<td>10W x 2</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>1377mm x 510mm x 862mm</td>
</tr>
</tbody>
</table>
INSTALLATION

Step 1: Install the pedal cross bar to the side board with the screw □

Step 2: Install the back board to the side board with the screw □ and □ to complete the stand assembly.

- Screw M6X20 (8)
- Tape screw 4X16 (4)
- Screw M4X15 (2)
- Tape Screw 4X12 (2)
- Headphone Holder (1)
Step 3: Install the stand assembly to the piano body with the screw 

Step 4: Install the headphone holder ⑤ to the piano with the screw ④
Step 5: Plug the pedal cable to the socket on the piano bottom.

Step 6: Place the piano in its final position, on the bottom the pedal board is a turn down knob. Turn the Pedal Brace Knob down to firmly touch the floor.

Step 7: Locate the Power Cord and plug it into the Receptacle on the bottom of the Piano. Plug the Power Cord into an appropriate wall socket.

**NOTES:** Unplug the piano during lightning storm or when unused for long periods of time. Avoid plugging the AC adaptor into the same AC outlet as appliances with high power consumption, such as electric heaters or ovens.
CONTROL PANEL AND PEDAL

FRONT CONTROL PANEL

Master Volume
Voice Select
Display
▲
▼
Record
Song
Setup, Demo, Metro, Trans, Tempo
Reverb, Chorus, Layer, Duet

See detailed description of the control panel in the following chapters.

POWER SWITCH - The power switch is located to the left of the keyboard. Press the button to turn the power on and off. The red power indicator in the left of the front cross bar lights up when the power is on.

Note: When you turn the power off, do not turn it back on immediately. Wait at least five seconds to turn the power back on so that the electronic circuits can properly reset.

BOTTOM PANEL

The socket board located on the front-left of the bottom

The headphone jack board is located on the front-left of the bottom.

See detailed description of the panel in the PREPARING FOR PLAY chapter.

PEDAL

1. SOFT PEDAL - When the left pedal is engaged the piano volume is reduced and the timbre slightly altered on the notes that are played.
2. SOSTENUTO PEDAL: The function of it is similar with the sustain pedal. When playing notes then middle pedal is engaged, the notes will be sustained. Sustain effect does not apply to the notes played after pressing pedal, even though the pedal keeps down.
3. SUSTAIN PEDAL - When the right pedal is engaged the piano keys will continue to sustain as they are played. Thereby the piano note will decay gradually as if you were continuing to hold down the piano keys.
PREPARING FOR PLAY

MASTER VOLUME
Turn this knob to the right to increase the overall volume of the piano, and to the left to decrease the volume. Slide the knob to the middle position before turn on the power.

The Following Facilities Could be Set Up for Your Application:

MUSIC STAND
When use it, rise up the music stand and support it by the hugged bracket.

HEADPHONES
The piano has two stereo headphone jacks on the front-left of the bottom. You can play in total silence, without disturbing others in the room, by plugging a set of headphones into one of the appropriate sockets. When headphones are plugged into jack, the speakers will turn off. Two sets of headphones may be used simultaneously.

LINE IN
These stereo audio input jacks will amplify the supplied signal through the internal sound delivery system. They can be used to hook up items such as CD players, MP3 player or Cassette player.

LINE OUT
These stereo audio output jacks supplies the piano’s output signal to external amplification, such as home stereo, PA system or other stand alone amplifiers.

MIDI IN / MIDI OUT
This piano contains MIDI in and MIDI output ports. MIDI jacks allow communication with other products equipped with MIDI interfaces. Please see the MIDI section of this manual for further details.

USB
The USB connector allows you to connect the piano directly to your computer’s USB port. Please see the MIDI section of this manual for further details.
DEMO SONGS

There are two types of demonstration song built-in the piano. THE PIANO piano has 10 Orchestra demonstration songs for your listening enjoyment. The voice demo presents selected voice with a short piece of music.

**VOICE DEMONSTRATION**
Press and hold down a voice select button then press the DEMO button, a piece of music will play with the voice selected. Use the VOICE select button, VARIATION Button or the ▲,▼ button to change the voice for demonstration. The display shows the voice number. Press the DEMO button again to stop the voice demo playing.

**ORCHESTRATION DEMONSTRATION**
There are 10 demos. Press the DEMO button and the indicator lights up. All demos will play back from No. 1 in loop. The display shows the demo song number with “d-” prefix in front. Press the ▲,▼ button to select demo song. Press the DEMO button again to stop it.
VOICE

When the piano is turned on, the LED display shows the voice number. The default voice setting is 01 Grade Piano.

SELECT A SOUND
There are 15 voices numbered 1-15 and selected by the voice quick select buttons and a VARIATION button. Each voice select button refers to a category of instrument voice. Press the VARIATION button to select a voice in the category. The VARIATION button indicator is dual color. When voice changes in the category, the color of the VARIATION indicator also changes with corresponding voice number in the display. Use the ▲,▼ button can select voice in the voice select mode as well and the relevant indicator will light up.

Note: Though only 15 voices can be selected by key, 128 MIDI voices and a percussion sound kit are built-in in the piano. They are available for playing complete MIDI music through MIDI/USB connection.

<table>
<thead>
<tr>
<th>GROUP</th>
<th>No.</th>
<th>VOICE</th>
<th>MIDI No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIANO</td>
<td>01</td>
<td>Grand Piano</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>02</td>
<td>Grand Piano 2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>03</td>
<td>Honky Tonk</td>
<td>3</td>
</tr>
<tr>
<td>E.PIANO</td>
<td>04</td>
<td>E.Piano 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>05</td>
<td>E.Piano 2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>06</td>
<td>Vibraphone</td>
<td>11</td>
</tr>
<tr>
<td>HARPSICHORD</td>
<td>07</td>
<td>Harpsichord</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>08</td>
<td>Clavinet</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>09</td>
<td>Nylon Guitar</td>
<td>24</td>
</tr>
<tr>
<td>ORGAN</td>
<td>10</td>
<td>Church Organ</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>Jazz Organ *</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>Rock Organ</td>
<td>18</td>
</tr>
<tr>
<td>STRINGS</td>
<td>13</td>
<td>Strings Ensemble</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>Slow Strings</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>Synth Strings</td>
<td>50</td>
</tr>
</tbody>
</table>

* Jazz Organ: The sound vibration is slower when press the key softer and the sound vibration is faster when hit the key harder.
LAYER VOICE
With layer mode, you can layer (or mix) two instrument sounds together. Press the LAYER button and its indicator lights up to engage the dual voice mode. The display shows the layered voice number (the default layered voice is strings). If press the LAYER button and a voice select button simultaneously, the layer voice mode is engaged as well but the LAYER indicator flashes. Then, use the voice select button, the VARIATION button or ▲,▼ button to select the layer voice.

Press any button except ▲▼ and voice select buttons, or after finish the selection or not manipulate for 3 second, the display shows the master voice and return to the voice select mode. The LAYER indicator keeps on.
Press the LAYER Button again to exit the layer voice mode and the indicator turns off.

The volume balance between layered voice and master voice can be adjusted. Please refer to FUNCTION chapter for details.

TRANSPOSE
The Transpose feature can shift the pitch of the piano up or down in semitone intervals. Press the TRANSPOSE button to engage the transpose feature and its indicator blinks. The display shows current transpose value (the default is 0) with the prefix “t” in front. Use the ▲,▼ button to set the transpose value ranged -6 to 6, e.g. t-5. Press any button except ▲▼, or after finish the setting or not manipulate for 3 second, the display shows master voice and return to the voice select mode.

When the transpose value is not zero, its indicator will keep lighting. Press the TRANSPOSE button again to disable the transpose feature.
KEYBOARD MODE

There are two modes of the keyboard: full keyboard and duet keyboard.

FULL KEYBOARD
The full keyboard is standard mode as shown below.

DUET KEYBOARD
The keyboard is split to A2- E6 and F2 – C6 two sections. Two sections have the same voice (master voice) and volume.
In this mode, the right pedal becomes the sustain pedal for the right section of the keyboard and the left pedal becomes the sustain pedal for the left section of the keyboard.

The middle pedal (Sostenuto) is disabled.

Press the DUET and its indicator lights up to indicate this mode engaged. The display shows the voice number. The default setting of it is the same as master voice.

Press the DUET Button again to exit the duet keyboard mode and the indicator turns off.
SOUND EFFECT

REVERB
Reverb simulates effect of playing in a big room or hall where the sound reverberates off the walls and ceiling.
Press the REVERB button and its indicator lights up to engage the reverb effect.
If press the REVERB button and ▲ or ▼ button simultaneously, the reverb effect is engaged as well but the REVERB indicator blinks and the display shows the current reverb level with the prefix “r” in front, e.g. r08. Then, use the ▲,▼ button to change the reverb level ranged 0 – 16.

![Image of Reverb Indicator]

Press any button except ▲▼, or after finish the operation or not manipulate for 3 second, the display shows master voice and return to the voice select mode. The REVERB indicator keeps on.

CHORUS
The Chorus effect adds depth and spaciousness to the selected keyboard voice.
Press the CHORUS button and its indicator lights up to engage the Chorus effect.
If press the CHORUS button and ▲ or ▼ button simultaneously, the Chorus effect is engaged as well but the CHORUS indicator blinks and the display shows the current chorus level with the prefix “c” in front, e.g. c08. Then, use the ▲,▼ button to change the Chorus level ranged 0 – 16.

![Image of Chorus Indicator]

Press any button except ▲▼, or after finish the operation or not manipulate for 3 second, the display shows master voice and return to the voice select mode. The CHORUS indicator keeps on.

Each voice has its own reverb and chorus default setting. The sound effects adjustment applies to two voices in the dual voice and duet keyboard mode.
METRONOME

Press the METRONOME button; the built-in metronome will start to play with the current tempo and beat pattern. If press the METRONOME button and ▲ or ▼ button simultaneously, the metronome is engaged as well the display shows the current beat pattern (the default setting is 4/4). There is a doc between the number of beat per measure and the note definition of note. e.g. the picture below refers to 3/4. Use the ▲,▼ button to change the beat pattern in sequence of 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 6/8 and 12/8. When the metronome sounds, the beat indicator will flash per the beat pattern.

Press any button except ▲▼, or after finish the selection or not manipulate for 3 second, the display shows the master voice and return to the voice select mode. The Metronome indicator keeps on.
Press the METRONOME button again to stop the metronome.

Note: Reverb and chorus sound effect does not apply to the metronome sound.

TEMPO

Press the TEMPO button to enter the tempo setting mode and its indicator blinks. The display shows current tempo value (the default is 120) followed by a dot mark. Use the ▲,▼ button to change the tempo ranged 40 – 240; press ▲ and ▼ buttons simultaneously to recall the default tempo 120. If you press and hold down the ▲ or ▼ button, the tempo will change continuously until release the button. Press any button except ▲▼, or after finish the setting or not manipulate for 3 second, the display shows master voice and return to the voice select mode.
The Overture features a two track recorder that lets you record what you play on the keyboard and then play it back. Two tracks mean that you can “overdub” one part on top of another, using a different voice if you like. The recorder feature is a useful addition to any keyboard study program since it lets you hear exactly how you sound from the listener’s perspective. It can also be just plain fun. This recorded information is nonvolatile and therefore will not be lost when the power is turned off. The 2 tracks can playback separately or together as a complete song. The record function records all settings exactly as you selected and performed them.

RECORDING

1. Prepare: Prepare to record by setting the voice, tempo, reverb level, or other parameters as desired.

2. Select a track: There are two tracks available for recording. The tracks are assigned by engaging the TRACK 1 or TRACK 2 buttons. Press and hold down the REC button, then press the track button that you want to record in. The corresponding track indicator and the REC indicator will blink, and the four dots of the beat indicator will blink with the current tempo to show that the recorder is on standby.

Note1: The contents of a track will be erased as soon you select that track for recording.

Note2: If you already have recorded on the other track, its track indicator will also be lit and the recorded music will play as a reference for you while you record the new track. If you do not wish for the previously recorded track to play while you are recording, press the corresponding track button to turn the indicator light off.

3. Metronome: Press the METRONOME button to enable the metronome as a reference, if so desired. The four beat indicators flash, the metronome sounds without any beat pattern, just giving the tempo. You can adjust the metronome's beat pattern and tempo as usual before recording. However, these cannot be changed during recording.

Note1: The metronome sound will not be recorded.

Note2: If one track has been recorded, when record another track, its tempo and beat pattern will follow the setting of the first track recorded. If you change the tempo now, the new tempo will be applied for both tracks. Cannot change the beat pattern.

4. Record: If the TRACK 1 or TRACK 2 buttons are selected and blinking, the recording will begin as soon as you play the keyboard or press the PLAY/STOP button. While recording, the recording track indicator keeps blinking and the REC indicator it lit solid.
5. **Stop Recording** - Press the PLAY/STOP button, the REC button or the recording track button to stop recording. The REC indicator turns off and the recorded track indicator is lit solid to show the track now contains data.  
*NOTE: When the record memory is full, recording will stop automatically and “FUL” will appear on the LED display.*

**PLAYBACK**

1. The Track LED indicators will show which tracks contain recorded data. If you do not wish to hear one of the two Tracks, press the corresponding TRACK button to turn that track off. Its LED indicator will turn off.

2. Press the PLAY/STOP button to hear the recorded track(s). The PLAY indicator lights up and the beat indicators will flash per the beat pattern and tempo.

   ![Playback Indicators](image)

   You can change the tempo of your recorded track by pressing the TEMPO button while the recording is being played back. You may also accompany the recorded tracks on the keyboard while the recording is playing back.

   **Note:** If the metronome is turned on before pressing the PLAY/STOP button to play back the recorded music, the metronome will sound with proper tempo and beat pattern which performed during your recording. When the playing back stop, the metronome will return to its original setting.

3. Press the PLAY/STOP button to stop the playback. Playback will also stop automatically when the recording reaches its end.

**ERASING TRACKS**

To erase the music recorded on the tracks:

1. Press and Hold the REC button down.

2. Press the track button that you which to erase while you continue to hold down the REC button. This will immediately erase the existing data from your previous recording.

3. Release the REC button (the track and REC indicators are blinking).

4. Press the track button again (the indicators will go off).

5. Repeat Steps 1 through 4 until all the tracks that you desire are erased.
PLAY ALONG SONGS

There are 58 songs built into the Overture for your musical enjoyment. These songs have separate left and right-hand parts that can be turned on and off as required so you can practice the corresponding part on the keyboard.

SELECTING A SONG
Press the SONG button. The song indicator will turn on and the song number will appear on the LED display. Both Right and Left indicator are OFF. Use the ▲,▼ buttons to select a song.

If you want to play slower or faster than the preset tempo, press the TEMPO button and use the ▲,▼ buttons to set the tempo adjustment coefficient based on the original tempo of the song. The range is 50% to 150%. Press the ▲ and ▼ buttons simultaneously to recall the default rate for the selected song. After 3 second, the display will return to the song number.

LISTENING TO THE ENTIRE SONG
1. Press the PLAY/STOP button to hear both hand parts playing the entire song.

2. Press the PLAY/STOP button again to stop. Otherwise, playback will stop automatically at the end of the song.

PRACTICING THE RIGHT HAND OF THE SELECTED SONG
1. Press the RIGHT button to mute the right hand part. The right indicator lights up,

2. Press the DEMO button if you want to hear the only the right-hand part before practicing it. Press the DEMO button again to stop.

3. Press the PLAY/STOP button. Its indicator lights up and you will hear the metronome “count in” the song. You will then hear the left-hand part

3. The default status of the metronome is ON. Press the METRONOME button if you want to disable the metronome sound in the right / Left hand mode. But, in the both hand mode, it cannot be close.
4. Play the right-hand part of your selected song while the left-hand part plays.

5. Press the PLAY/STOP button again to stop. Otherwise, playback will stop automatically at the end of the song.

PRACTICING THE LEFT HAND OF THE SELECTED SONG
Follow steps 1-5 listed above, substituting the LEFT button whenever RIGHT button is mentioned.

You will hear the right-hand part of your selected song. Play the left-hand part of your selected song while the right-hand part plays.

PRACTICING BOTH HANDS OF THE SELECTED SONG

1. Press the RIGHT and LEFT buttons simultaneously.
The right and left indicators will both turn on.

2. Press the PLAY/STOP button. Its indicator lights up and you will hear the metronome “count in” the song.

3. Play the left-hand and right-hand parts of your selected song.
The metronome will continue to play to assist you in keeping time.

4. Press the PLAY/STOP button again to stop. Otherwise, playback will stop automatically at the end of the song.
**FUNCTION MODE**

The Function Mode gives you access to other features on your piano.

Press the SETUP button to enter the functionality setup mode. Press the SETUP button repeatedly to change the item to manipulate. Press the ▲,▼ button to select option or set value for the item. When enter to the next item by pressing the SETUP button, the setting for the last item will be fixed. Press any button except ▲,▼ and SETUP button, the Function mode will exit and return to voice select mode.

The following functions can be selected in the Function Mode:

**TOUCH MODE SELECT**

The piano adopts velocity sensitive keyboard which responds your touching force on the key with the volume change.

When entering this mode by pressing the SETUP button, the display shows “tch”.

There are 4 types of the touch sensitivity:
- **Standard** - The standard setting which is the most similar to an acoustic piano and the default setting Displayed as “Std”.
- **Soft** - Generate the same volume by softer touching, displayed as “SFt”.
- **Hard** - Generate the same volume by harder touching, displayed as “Hrd”.
- **Fixed** - Non-touch-sensitive keyboard. The volume is fixed for instruments such as organ or harpsichord, and for playing some contemporary music. Displayed as “no”.

Use the ▲,▼ button to select desired type.

**MASTER TUNING**

This function allows you to adjust the piano’s pitch to match recordings or other instruments in an ensemble.

When entering this mode by pressing the SETUP button, the display shows “tun”. Use the ▲,▼ button to set desired tuning value ranged -64 to 64. Press ▲ and ▼ buttons simultaneously to recall the default setting 0.
OCTAVE
The octave shift function will transpose the entire piano one octave down or up. When entering this mode by pressing the SETUP button, the display shows “Oct”. Use the ▲,▼ button to set desired octave shift range is -2 to 2. The default setting is 0.

VOLUME BALANCE
The Volume Balance function will set volume balance between the master and second voice in the dual voice mode. When entering this mode by pressing the SETUP button, the display shows “bLn”. The format of the setting is “The second volume-The master volume”, each parameter is ranged 1 – 9; 1 refers to the min. volume and 9 refers to the max. volume. The default setting of the volume is balanced as 5-5. Use the ▼ button to reduce the second volume while the master volume will increase, for example 4-6, 3-7……1-9. Use the ▲ button to increase the second volume while the master volume will decrease, for example 6-4, 7-3……9-1. Press ▲ and ▼ buttons simultaneously to recall the default setting 5-5.

LOCAL OFF
“Local Off” is a special mode of piano performance when the piano is connected with another MIDI device or computer. When “Local” is “On”, performance on the piano will sound by built-in speakers while the performance message is transmitted via MIDI out. When “Local” is “Off”, performance on the piano will not sound but the performance message is transmitted via MIDI out. It is useful to use the piano as keyboard and sound by another MIDI device. When entering this mode by pressing the SETUP button, the display shows “Loc”. Use the ▼ button to turn “Local” off and use the ▲ button to turn “Local” on. The default setting is “On”.

Note: When Local is off, the metronome will sound as normal.
STORE
Normally, when turn on the power, all settings are default and user settings are volatile. If the “Store” feature is engaged, when turn on the power, the latest user customized settings will be recalled which include: layer and duet voice, volume balance, touch mode, song number, sound effects setting etc. When entering this mode by pressing the SETUP button, the display shows “Sto”. Use the ▼ button to set the store feature off and use the ▲ button to set it on. The default setting is Off.

Note: The record contents are always nonvolatile.

BRIGHTNESS
This function allows you to adjust sound brightness. When entering this mode by pressing the SETUP button, the display shows “brt”. Use the ▲,▼ button to set desired level of the brightness ranged 1 to 16. Press ▲ and ▼ buttons simultaneously to recall the default setting 04.

SOFT RESET
The recorded music, layer voice, touch mode, song number are un-volatile. When turn on the power, the settings above will be recalled automatically. If you want to recover the default setting, press and hold down both ▲,▼ buttons when turn on the power. Please note that recorded contents will be erased.
MIDI

MIDI (Musical Instrument Digital Interface) is a world-standard interface that enables electronic musical instruments and computers to communicate with each other so that instructions and other data can pass between them. This makes it possible to create a system of MIDI instruments and devices that offer far greater versatility and control than is available with isolated instruments.

MIDI In: This terminal receives data from an external MIDI device.
MIDI Out: This terminal transmits data from the instrument to another MIDI device. The transmitted data include the note and touch velocity produced while playing on the piano as well as voice changes.

The MIDI system in the unit has 16 channels numbered from 0 to 15. Each of them is responsible for an instrument voice. When the piano receives control from an external device, the active channel is determined by the MIDI setting of the piano or control message.

Connection Examples
Output to an external sound generator
Connect the MIDI Out terminal of the piano and MIDI In terminal of an external device (keyboard, synthesizer, or sound module). The external device will respond to your playing. In this way, you can play two instruments at the same time or play on your instrument to sound on another MIDI device.

Output from an external MIDI device
Connect the MIDI In terminal of the piano and MIDI Out terminal of an external device. Data generated on another device can sound on your piano.

Connect with computer
You can transmit your performance to a computer to utilize advanced recording, composing and editing available from software on the computer. MIDI music stored on the computer can be played back through your instrument.

USB
- The USB connector allows you to connect the piano directly to your computer’s USB port. The features of the USB interface are the same as MIDI, but both MIDI In and MIDI Out data run in the same USB port and cable. The USB interface is compatible with Windows XP/Vista and MAC.
## MIDI APPLICATION CHART

<table>
<thead>
<tr>
<th>Function</th>
<th>Transmitted</th>
<th>Recognized</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Channel</td>
<td>1 CH</td>
<td>1 – 16 CH</td>
<td></td>
</tr>
<tr>
<td>Channel changed</td>
<td>1 – 16 CH</td>
<td>1 – 16 CH</td>
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</tr>
<tr>
<td>Default mode</td>
<td>X</td>
<td>3</td>
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</tr>
<tr>
<td>Note number</td>
<td>11 – 118</td>
<td>0 – 127</td>
<td></td>
</tr>
<tr>
<td>Velocity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note On</td>
<td>9nV, V=0–127</td>
<td>9nV, V=0–127</td>
<td></td>
</tr>
<tr>
<td>Note Off</td>
<td>8nV, V=0–127</td>
<td>8nV, V=0–127</td>
<td></td>
</tr>
<tr>
<td>Pitch Bender</td>
<td>X</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>Control Change</td>
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<td></td>
</tr>
<tr>
<td>1 X</td>
<td>√</td>
<td>Modulation</td>
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</tr>
<tr>
<td>5 X</td>
<td>√</td>
<td>Portamento value</td>
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</tr>
<tr>
<td>7 X</td>
<td>√</td>
<td>Volume</td>
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</tr>
<tr>
<td>10 X</td>
<td>√</td>
<td>Pan</td>
<td></td>
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<tr>
<td>11 X</td>
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<td>Expression</td>
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<td>√</td>
<td>Sustain, ,</td>
<td></td>
</tr>
<tr>
<td>66 X</td>
<td>√</td>
<td>Sostenuto</td>
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<td>37 X</td>
<td>√</td>
<td>Soft pedal</td>
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</tr>
<tr>
<td>65 X</td>
<td>√</td>
<td>Portamento yes/no</td>
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</tr>
<tr>
<td>80 X</td>
<td>√</td>
<td>Reverb program</td>
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</tr>
<tr>
<td>81 X</td>
<td>√</td>
<td>chorus program</td>
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</tr>
<tr>
<td>91 X</td>
<td>√</td>
<td>Reverb send level</td>
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</tr>
<tr>
<td>92 X</td>
<td>√</td>
<td>chorus send level</td>
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</tr>
<tr>
<td>98 X</td>
<td>√</td>
<td>NRPNL</td>
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</tr>
<tr>
<td>99 X</td>
<td>√</td>
<td>NRPNH</td>
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</tr>
<tr>
<td>100 X</td>
<td>X</td>
<td>X</td>
<td>RPNL</td>
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<tr>
<td>101 X</td>
<td>X</td>
<td>X</td>
<td>RPNH</td>
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<td>121 X</td>
<td>√</td>
<td>Reset all controllers</td>
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</tr>
<tr>
<td>123 X</td>
<td>√</td>
<td>All notes off</td>
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</tr>
<tr>
<td>Program change</td>
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<td>0 – 127</td>
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</tr>
<tr>
<td>System exclusive</td>
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<td>Sys. Common: Song select</td>
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<tr>
<td>Song position</td>
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<tr>
<td>System: Clock</td>
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<tr>
<td>Real time: Commands</td>
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<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Mode 1: OMNI ON, POLY   Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY   Mode 4: OMNI OFF, MONO

* Depends on the voice can be selected in the piano, refer to the Voice List.