



61-key touch response keyboard with powerful on-board speakers and easy-to-use professional features including assignable Live Controllers, DJ pattern mode, and USB to Device connectivity.

Your toolbox for making powerful music

The PSR-E453 is an all-round keyboard that is an ideal student instrument and a powerful option for experienced players who seek advanced features for composition or performance. Its powerful sound system boasts two 6W amplifiers and its wide range of features, controls and connectivity make the PSR-E453 a long-lasting musical companion as you develop your skills.

- 758 high quality voices including Sweet! and Cool! voices, with 48-note polyphony
- 6W + 6W amplifiers with 12 cm bass reflex speakers
- Assignable real-time controllers, DSP effects and pitch bend
- Connectivity with audio and MIDI capabilities
- USB TO DEVICE terminal
- Pattern function to create your own grooves - 25 patterns
- Arpeggio function
- Worldwide sound content
- Yamaha Education Suite (Y.E.S.)
- Music Database

Features

758 high quality voices including Sweet! and Cool! voices



The PSR-E453 features 758 high quality voices including 8 Sweet! voices and 3 Cool! voices which use Yamaha's advanced sampling technologies to capture the realism and specific characteristics of each sound. 48-note polyphony allows for the performance of complex passages without dropped notes.

6W + 6W amplifiers with 12 cm bass reflex speakers



6W + 6W amplifiers drive the high-definition 12 cm bass reflex speakers, delivering stunning clarity and detail.

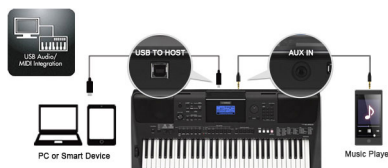
Features

Assignable real-time controllers, DSP effects, and pitch bend



Two assignable, real-time controllers let you filter and adjust your sound just like an analogue synthesizer. 10 brand new DSP effects can be assigned and controlled in real time for dynamic and expressive live performance. The pitch bend wheel adjusts the pitch of the sound bringing voices like the Guitar, Sax and Trumpet to life.

Connectivity with audio and MIDI capabilities



The PSR-E453 features audio transfer through the USB TO HOST terminal*. You can record your performance to your computer or smart device. Connecting to your iOS device adds a new dimension of MIDI control with apps. Connect an external audio player to the AUX IN jack and you can play along with your favourite tunes. The built-in, advanced Melody Suppressor lowers the volume of vocals and melody lines of the original recordings, leaving that part open for you

to play**. *For iOS device connection, refer to the "iPhone / iPad Connection Manual" **Depending on the song, the volume of the melody part may not be affected.

USB to Device terminal



The USB to Device terminal on the instrument lets you load and save your settings and songs to a USB flash drive and transfer data from your PC.

Pattern function to create your own grooves



The Pattern function puts a wealth of powerful loops and beats at your fingertips, allowing you to instantly create dynamically varied music on the fly. And, for even more authentic performance, try the Crossfade and Retrigger functions.

Features

Arpeggio function

Tap into instant inspiration with the Arpeggio function, which has been improved for smoother playability. Hold Mode and Allocated key-range free your hands, allowing you to improvise over the pattern. The 150 Arpeggio patterns adjust and morph around the notes and chords you play on the keyboard allowing for almost limitless creativity.

Worldwide sounds expand your musical horizons



A rich collection of ethnic sounds and scale tunings allow you to enjoy many styles of music from around the world, including Latin, Indian, Arabic, African, Chinese and more.

Yamaha Education Suite (Y.E.S.)

Yamaha Education Suite (Y.E.S.) is an advanced set of helpful learning tools built into the instrument, letting you teach yourself how to play and perform regardless of your ability. Choose from nine step-by-step lessons for left, right, or both hands. Y.E.S. helps you master a song with ease.

Music Database

Get off to a flying start—choose a song and the Music Database automatically selects the best accompaniment and voices for you to start playing immediately.

Specifications

| Color/Finish | | |
|--------------|-------|-------|
| Body | Color | Black |

Specifications

| Size/Weight | | |
|-------------|--------|---|
| Dimensions | Width | 946 mm (37-1/4") |
| | Height | 140 mm (5-1/2") |
| | Depth | 405 mm (15-15/16") |
| Weight | Weight | 6.6 kg (14 lbs 9 oz.) not including batteries |

Specifications

| Control Interface | | |
|-------------------|----------------|------------------------------|
| Keyboard | Number of Keys | 61 |
| | Touch Response | Soft, Medium, Hard, Fixed |
| Other Controllers | Pitch Bend | Yes |
| | Control Knobs | Yes |
| Display | Type | LCD (Liquid Crystal Display) |
| Panel | Language | English |

| Voices | | |
|-----------------|----------------------------|---|
| Tone Generation | Tone Generating Technology | AWM Stereo Sampling |
| Polyphony | Number of Polyphony (Max.) | 48 |
| Preset | Number of Voices | 237 panel Voices + 24 Drum/SFX kits + 40 Arpeggio + 457 XGlite Voices |
| | Featured Voices | 8 Sweet! Voices, 3 Cool! Voices, 3 Dynamic Voices |
| Compatibility | XGlite | Yes |
| | GM | Yes |

| Effects | | |
|-----------|-------------------|---|
| Types | Reverb | 9 types |
| | Chorus | 5 types |
| | DSP | 10 types (assignable on control knobs) |
| | Master EQ | 6 types |
| Functions | Dual/Layers | Yes |
| | Split | Yes |
| | Arpeggio | 150 types |
| Types | Harmony | 26 types |
| Functions | Melody Suppressor | Yes |
| | Crossfade | Yes <input type="checkbox"/> for Internal/AUX IN <input type="checkbox"/> |

| Accompaniment Styles | | |
|----------------------|-------------------------|---|
| Preset | Number of Preset Styles | 220 |
| | Fingering | Multi finger |
| | Style Control | ACMP ON/OFF, SYNC START, SYNC STOP, START/STOP, INTRO/ENDING/rit., MAIN/AUTO FILL, TRACK ON/OFF |
| Other Features | Music Database | 378 |
| | One Touch Setting (OTS) | Yes |
| Preset | File Format | Style File Format (SFF) |
| Expandability | Expansion Style | 10 |

Specifications

| Songs | | |
|------------------------|------------------------|---|
| Recording | Number of Songs | 10 |
| | Number of Tracks | 6 (5 Melody + 1 Style/Pattern) |
| | Data Capacity | Approx. 19,000 notes (when only "melody" tracks are recorded) |
| | Recording Function | Yes |
| Compatible Data Format | Playback | SMF |
| | Recording | Original File Format (SMF 0 conversion function) |
| Preset | Number of Preset Songs | 30 |

| Functions | | |
|------------------|---------------------------------|---|
| Registration | Number of Buttons | 4 (x 8 banks) |
| Lesson/Guide | Yamaha Education Suite (Y.E.S.) | Lesson 1 – 3 (Listening, Timing, Waiting), Repeat & Learn, Chord Dictionary |
| Overall Controls | Metronome | Yes |
| | Tempo Range | 11 – 280 |
| | Transpose | -12 to 0, 0 to +12 |
| | Tuning | 427.0 – 440.0 – 453.0 Hz (approx. 0.2Hz increments) |
| Miscellaneous | PIANO Button | Yes (Portable Grand Button) |
| Overall Controls | Scale Setting | Yes |

| Storage and Connectivity | | |
|--------------------------|-----------------|--|
| Storage | Internal Memory | Approx. 1.29 MB |
| | External Drives | USB flash drive |
| Connectivity | DC IN | DC IN 12V |
| | Headphones | x 1 (Headphones/Output) |
| | AUX IN | Yes (Stereo-mini) |
| | USB TO DEVICE | Yes |
| | USB TO HOST | Yes (MIDI/Audio: 44.1 kHz, 16 bit, stereo) |
| Connectivity | Sustain Pedal | Yes |

| Amplifiers and Speakers | |
|-------------------------|--|
| Amplifiers | 6 W + 6 W (When using PA-150 AC adaptor) |
| Speakers | 12 cm x 2 |

| Power Supply | |
|-------------------------|--|
| Power Supply | AC Adaptor (PA-150 or an equivalent recommended by Yamaha) or batteries (Six "AA" size alkaline (LR6), manganese (R6) or Ni-MH rechargeable batteries) |
| Power Consumption | 8 W (When using PA-150 AC adaptor) |
| Auto Power Off Function | Yes |

| Accessories | | |
|----------------------|------------|-----------------------|
| Included Accessories | Music Rest | Yes |
| | Song Book | Download from website |