

# PRODUCT OVERVIEW

## MPC 2500



### Product Description

The Akai Professional MPC2500 Music Production Center combines a 64-Track MIDI Sequencer with a 32-voice 16bit Stereo Digital Sampler. The MPC is a rock solid sequencing and drum programming machine with 16 velocity and pressure sensitive rubber pads. The unit allows you to sample more efficiently. This composition center is contained in one extremely powerful desktop unit.

Designed for professional audio production, the MPC2500's intuitive and ergonomic interface makes it the ultimate user friendly composition studio

Two internal effects processors can be used simultaneously. This includes a wide range of effects algorithms, such as reverb, bit grunger, chorus, phasers, flying pan, 4-band EQ, compressor, and a phase shifter.

Real-time control is provided by two note variation sliders and two Q-Link knobs. Q-link knobs can be separately assigned to allow flexible, real-time performance control of a wide variety of selectable parameters. These parameters include level, pan, filter cut-off and resonance, tuning, LFO(low frequency oscillator) speed depth, all effect parameters and more.

Each assignable Q-Link knob can generate MIDI controller data so that all performance information can be recorded and played back from within a sequence. The Q-Link sequencer allows cyclic modulation programming.

Following the highly acclaimed MPC60 and MPC3000, 2 MIDI inputs and 4 MIDI outputs come standard enabling 64 external MIDI channel operation. In addition, the

MPC2500 can individually control its onboard sampler up to 64 Parts, allowing users to assign a different program on each track.

A large LCD screen allows a clear view of sequence data displaying features such as a piano roll, or a drum machine 'grid'. Continuous MIDI data can be shown as well as edited graphically.

The MPC2500 comes with 16MB of onboard memory which can be expanded up to 128 MB of RAM via the optional EXM128 memory card.

The MPC2500 has the capability of an optional internal 80GB Hard Disk and CD-RW drives.

### Positioning

Akai Professional, in its pursuit to remain the leader of digital sampling technology has released the MPC 2500. This unit designed for professional audio production, offers drum programming, sequencing, and sampling capabilities. Artists now have the luxury of producing music with a compact music composition center.

### Applications

- Sampling and creating beats
- MIDI sequencing
- Live Performance

### Customers

- Hip Hop and R&B Musicians and Producers
- Electronic Music Musicians

### Dimensions & Weight

- **Dimensions:**  
16.33"x 3.68 x 13.10"- 415 x 93.5(MAX 139) x 332.9(Max 334)
- **Weight:**  
13.5 Lbs 6.15kg (Excluding drives and options)



# PRODUCT OVERVIEW

## MPC 2500

### KEY FEATURES AND BENEFITS

#### 1) Improved Akai MPC design

- Large graphic LCD display based on the friendly user interface of the MPC series
- MPC's iconic "feel" and "groove"
- Velocity and pressure sensitive pads allow for expressive programming, with more pad banks
- New Features such as Chopshop, Patched Phrase, Grid Edit, Effect and LFO sync, Mixer Automation, and Input Thru
- Expanded Pattern-based 100,000 notes, 64-track sequencer and 64 external MIDI channels
- 32-voice full-featured 16bit sampler equipped with 16MB of RAM with ability to hold 128 RAM

#### 2) Extensive connectivity

- Two MIDI inputs and four MIDI outputs
- Built-in USB Slave port for connection to a Windows or Mac OS computer
- Built-in 10 analog outputs
- 2 1/4" stereo analog inputs and outputs with 16bit/44.1kHz sampling
- Master/Slave synchronization capabilities: MIDI clock
- 2 Assignable Footswitch inputs

#### 3) Sample Library Compatibility- Compatible with Akai MPC1000 Sequence, .wav, Program, MPC2000/2000XL Sequence, .wav, SND, Program, MPC2500 Sequences, .wav, Programs, MPC3000, Z4/Z8.wav and S5000/6000.wav

#### 4) Extensive sound control

- Extensive sample editing that includes cut and paste, timestretch, slice, resampling etc, with waveform display
- Dynamic resonant multi-mode filters, 2 envelope generators and 1 LFO for each of the 32 voices
- 2 Q-Link sliders and 2 knobs for real-time control over a wide variety of dynamic changes

#### 5) Self-contained

- Optional user installable Internal hard drive to store custom sound libraries and sequences
- Optional user installable CD-RW drive to load CD-ROM libraries, sample Audio CDs, and backup personal data



# PRODUCT OVERVIEW

## MPC2500

### SPECIFICATIONS

#### SOUND GENERATOR

- Sampling rate 44.1kHz
- Memory capacity 16MB standard (11.5MB for sound memory), expandable to 128MB
- Recording time 136sec. (16MB, MONO), 24m28sec. (128MB, MONO)
- Memory expansion slot 1 x for optional EXM128
- Data format 16-bit linear
- Polyphony 32
- Dynamic filtering 2 x 2-pole filter per voice
- Filter type Low pass, Band pass, High pass
- Preset sound memory 5MB
- Number of programs 24

#### EFFECTS

- Effects 2 stereo effects and Master effect  
Effect type Chorus, Flanger, Bit grunger, 4 band EQ, Compressor, Phase shifter, Tremolo, Flying Pan, Reverb, Delay
- Master effect: 4 band EQ, Compressor

#### SEQUENCER

- Maximum events 100,000 notes
- Resolution 96 parts per 1/4-note
- Sequences 99
- Tracks per sequence 64
- MIDI output channels 64 (16 channels x 4 outputs)
- Song mode 20 songs, 250 steps per song
- Drum pad 16 (velocity and pressure sensitive)
- Drum pad banks 4
- Sync mode MIDI clock

#### DRUM PADS:

- 16 velocity and pressure sensitive pads
- 4 pad banks
- 16 Levels: Velocity, Tuning
- Automated Pad Mixer (Level, Pan and FX send)
- Track Mute and Next Sequence features for live performance

#### DATA COMPATIBILITY

- MPC1000 SEQ, WAV, PGM
- MPC2000/2000XL SEQ, WAV, SND, PGM (Most parameters of PGM file can be loaded.)
- MPC2500 SEQ, WAV, PGM (DRUM program only. Only note assign and tune are loaded.)
- MPC3000 SND (THRU Computer)
- Z4/Z8 WAV only
- S5000/6000 WAV only (THRU Computer)
- S1000/3000 No compatibility



# PRODUCT OVERVIEW

## MPC2500

### SPECIFICATIONS

#### Q-LINK

- 2 sliders and 2 rotary knobs
- Assignable to internal sampler controls: pitch, filter cutoff, resonance, LFO, attack, decay, and Assignable to internal effects parameters
- Assignable to external Midi Controllers

#### GENERAL

- 240 x 64 dot graphic LCD w/back light
- Compact Flash (up to 2GB)

#### CONNECTIONS

- Record input (L and R) 1/4-inch stereo phone x 2, balanced -40dBu, input impedance 11k ohms;
- Max. Input level +10dBu
- Digital input RCA-pin x 1 S/PDIF
- Stereo output (L and R) 1/4-inch phone x 2 balanced +11dBu, output impedance 1k Ohms,
- Max. output level +22dBu
- 4 individual outputs 1/4-inch phone x 4 balanced +11dBu, output impedance 1k Ohms,
- Max. output level +22dBu
- Phones output 1/4-inch stereo phone x 1, 200mW / 100 ohms
- Digital output RCA-pin x 1 S/PDIF
- MIDI inputs 5-pin DIN x 2
- MIDI outputs 5-pin DIN x 4
- USB Slave connector x 1, USB MASS STORAGE CLASS support
- (You need Windows 2000/Me/XP or later version, or MacOS 9.x/10.x or later version.)
- Footswitches 1/4-inch phone x 2

#### POWER

- 100-240V AC, 50/60Hz
- Consumption: 70W max (with all options)

#### STANDARD ACCESSORIES

32MB Compact Flash card, Power cable, Operator's manual

#### OPTIONS

EXM128 128MB expansion memory card



# PRODUCT OVERVIEW

## MPC2500

### FAQs

#### **Q. What are the benefits of having two MIDI INPUTS and four MIDI OUTPUTS?**

**A.** The two MIDI Inputs allow connection of a MIDI controller (keyboard, drum pads) to one input, while the other input is used to receive MIDI Sync from another unit such as a digital recorder. Otherwise, you would need an outboard MIDI Merger. The four Midi Outputs allow the MPC2500 to control 64 external MIDI Channels (16x4), in conjunction with the 128 internal Programs. This is very useful if you have more than one outboard multi-timbral sound generator (for instance, your keyboard and a sound module). This also allows using a dedicated MIDI output MIDI Sync.

#### **Q. What is Chopshop and Patched Phrase?**

**A.** Chopshop is used for sampled phrases such as a drum beat. This function measures the amplitude on a drum beat and “chops” the rhythm sections into separate parts onto the pads of the MPC. This is great for making a drum kit from a sampled beat.

Patched Phrase takes one sample and divides it into several regions which creates sequence data used for playing these regions. This allows you to move the regions together giving you the effect of time stretching a sample in real time without changing its pitch.

#### **Q. What is Grid Edit?**

**A.** Grid editing is similar to step entering note values on a drum machine. This allows users to graphically create beats to a note value grid, rather than play them in real time into the MPC.

#### **Q. What are the Q-Link controls?**

**A.** The MPC2500 has two Q-Link™ knobs, and two Q-Link™ sliders, that can be separately assigned to allow flexible real-time control of a wide variety of selectable parameters including amplitude, filter cut-off and resonance, sample start offset, effect send, sample tune and more. Control of an entire program or an individual sound assigned to a single keygroup is possible. Each assignable Q-Link™ control is also capable of generating MIDI controller data to external sound generators, so that all performance information can be recorded and played back from the MPC2500's sequencer.

#### **Q. Can I install the optional Hard disk and CD-ROM drives myself? Is this difficult to do?**

**A.** We recommend that you have a qualified Akai service technician install these options for you. Otherwise you may damage your MPC as well as void your warranty.