

MIDIPLUS

EK490 Owner's Manual



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Preface

Congratulations on your purchase of the MIDIPLUS EK490. Thank you for purchasing the EK490, a real versatile intelligent keyboard. The EK490 high quality sounds compatible with the General MIDI Format and others. it is designed to provide everything to the serious artists and amateur musicians needs on stage, or at home. Thus, if used your EK490 in conjunction with a computer with the appropriate music soft ware, it will turn into a more powerful musical instrument or workstation.

What's in the Box?

Included in the **MIDIPLUS EK490** package, you should find:

- One (1) **MIDIPLUS EK490** USB MIDI keyboard with styles
- One (1) owner's manual
- One (1) 9V DC adaptor

EK490 Keyboard Overview :

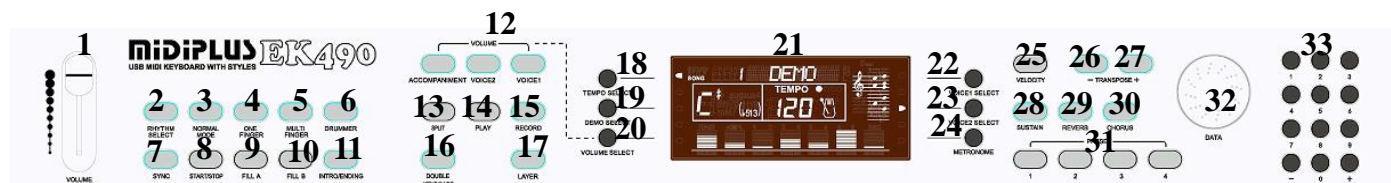
Here are the features including in the EK490 keyboard :

- 49-note semi-weighted keyboard.
- Pitch Bend wheel
- Modulation wheel
- Sustain pedal interface (sustain pedal does not include).
- LCD display screen
- Power supply : External 9V DC power, USB power or 6 AA type batteries.

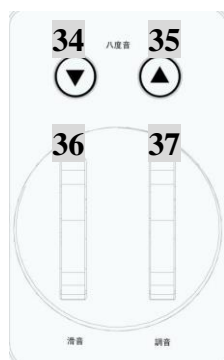
Chapter1. Quick Start

1.1. EK490 Overview

1.1.1. Front Panel



- | | |
|--|---------------------------------|
| 1 : VOLUME sliders | 17 : LAYER button |
| 2 : RHYTHM SELECT button | 18 : TEMPO SELECT button |
| 3 : NORMAL MODE button | 19 : DEMO SELECT button |
| 4 : ONE FINGER button | 20 : VOLUME SELECT button |
| 5 : MULTI FINGER button | 21 : LCD display screen |
| 6 : DRUMMER button | 22 : VOICE1 SELECT button |
| 7 : SYNC button | 23 : VOICE2 SELECT button |
| 8 : START/STOP button | 24 : METRONOME button |
| 9 : FILL A button | 25 : VELOCITY button |
| 10 : FILL B button | 26 : TRANSPOSE — button |
| 11 : INTRO/ENDING button | 27 : TRANSPOSE + button |
| 12 : VOLUME button (VOICE1 、 VOICE2 、
ACCOMPANIMENT) | 28 : SUSTAIN button |
| 13 : SPLIT button | 29 : REVERB button |
| 14 : PLAY button | 30 : CHORUS button |
| 15 : RECORD button | 31 : Preset 1~4 |
| 16 : DOUBLE KEYBOARD button | 32 : DATA encoder |
| | 33 : Number buttons 0~9 , - , + |



- | |
|-----------------------|
| 34 : OVTAVE▲ |
| 35 : OVTAVE▼ |
| 36 : PITCH wheel |
| 37 : MODULATION wheel |

1.1.2. Rear Panel



38 : PHONE jack

39 : AUX OUT jack

40 : SUSTAIN SWITCH jack

41 : MIDI IN jack

42 : MIDI OUT jack

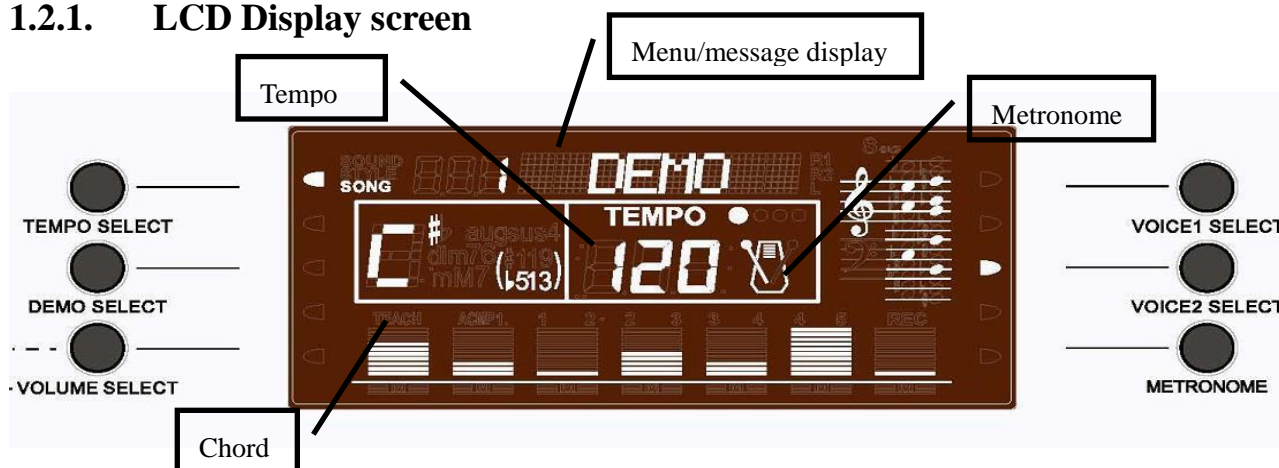
43 : USB jack

44 : Power switch (USB POWER
/BATTERY or DC 9V)

45 : DC IN 9V jack

1.2. Basic Functions

1.2.1. LCD Display screen



1.2.2. TEMPO SELECT

Tempo or speed, at which the rhythm accompaniment & DEMO is played.

- Press the **【TEMPO SELECT】**.
- Use the Data encoder to select tempo.
(Use the number buttons or **【+/-】** button, effect after 3 seconds, Press the **【+】** and **【-】** button simultaneously to instantly reset the tempo value to “0”).

1.2.3. DEMO SELECT

EK490 demonstration tracks, and allows you to appreciate the different styles demo songs:

- Press the **【DEMO SELECT】** button.
- Use the **【DATA】** encoder to select DEMO.
(Use the number buttons or **【+/-】** button, effect after 3 seconds)

- Press the **【START/STOP】** button ◦

1.2.4. **VOLUME SELECT**

Individually control the volume : ACCOMPAINMENT,VOICE1,VOICE2.

for example : you want to adjust the volume of automatic accompaniment to 60.

- Press the **【VOLUME SELECT】** button.
- Press the **【ACCOMPAINMENT】** button.(LED lit)
- Use to turn the Data encoder, setting the value to 60.
(Use the number buttons or **【+/-】** input [6]+[0] button)

1.2.5. **VOLUME sliders**

Adjusts the overall volume of the unit.

1.2.6. **OCTAVE up/down**

- By pressing the Octave key, you will shift the active keyboard range one octave higher, or lower. For example, if you want to change the octave 2 octaves down : Press Octave Key twice.
- Press the [up] button & [down] button simultaneously to instantly reset the octave value to "0".

1.2.7. **PITCH wheel**

The Pitch Bend wheel is used for raising or lowering the pitch of a voice during performance. The range of pitch values depends on the sound generator (sound card or module) being used.

1.2.8. **MODULATION wheel**

It is very common to use the modulation wheel to change the intensity of effects : mainly vibrato(pitch change),tremolo(change the volume),and modulation(change the tone).The modulation wheel produces a vibrato effect shortly after the sound is generated. It is most effective for voice such as saxophone strings and Oboe.

1.2.9. **VOICE SELECT**

Select the voice you want to the keyboard.

- Press the **【VOICE1】** button.
- Use to turn the **【DATA】** encoder for select voices name.
(Use the number buttons or **【+/-】** button, effect after 3 seconds)

1.2.10. METRONOME SELECT

- Press the **【METRONME SELECT】** button, the metronome name will be displayed.
- Use to turn the **【 DATA】** encoder to select metronome , the number buttons NO.1~NO.6 or **【+/-】** button, effect after 3 seconds.
- Press the **【START/STOP】** button.

Note : The time signature changes automatically when a rhythm is selected.

Chapter2. Basic Operations

2.1. Playing Operation

2.1.1. VELOCITY

Press the **【VELOCITY】** button to turn velocity response on.

2.1.2. TRANSPOSE

- Press the TRANSPOSE **【+】** and **【-】** button, select the desired level, base on a semitone increment, the transpose range is from -5 to +6.
- Press the TRANSPOSE **【+】** and **【-】** button simultaneously to instantly reset the transpose value to “C”(LED unlit).

2.1.3. LAYER

Press the **【LAYER】** button ,indicates that the dual voice is.

2.1.4. DOUBLE KEYBOARD

The preset tones split the keyboard and assign VOICE 1& VOICE 2 sounds.

- Press the **【DOUBLE KEYBOARD】** button.

With such a preset tone, the sound produced depends on what position of the keyboard you play. For example, BASS/PIANO 1 puts Bass on the left and PIANO on the right of the keyboard.

2.1.5. SUSTAIN

The sustain function lets you produce a natural sustain as you play by press the **【SUSTAIN】**,use it to switch on and off.

2.1.6. REVERB

The reverb function lets you produce a natural reverb as you play by press the **【REVERB】**, use it to switch on and off.

2.1.7. CHORUS

The chorus function lets you produce a natural chorus as you play by press the **【CHORUS】**, use it to switch on and off.

2.1.8. NORMAL MODE

Press the **【NORMAL MODE】** button, indicates that the grand piano voice is or VOICE 1& VOICE 2 sounds, not left-hand accompaniment part.

2.1.9. DRUMMER

Press the **【DRUMMER】** button, indicates that the drum voice is.

2.1.10. RHYTHM SELECT

- Press the **【RHYTHM SELECT】** button.
- Use the **【DATA】** encoder, the number buttons or **【+/-】** button, effect after 3 seconds to select a rhythm.

2.2. AUTO ACCOMPANIMENT

The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is play the chords with your left hand as you perform, and the selected accompaniment style matching your music will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of an entire band or orchestra.

2.2.1. SYNC/VARIATION

- Press the **【ONE FINGER】** or **【MULTI FINGER】** button.
- Press the **【SYNC/VARIATION】** button.(LED lit)
- As soon as you play a chord with your left hand, the auto accompaniment starts. (LED unlit)
- When Accompaniment starts, press the **【SYNC/VARIATION】** button(LED lit is variation, unlit is sync).

2.2.2. START/STOP

Press the **【START/STOP】** button to start the rhythm track auto accompaniment.

2.2.3. INTRO

This is used for the beginning of the song. When the intro finishes playing, accompaniment shifts to the main section. The length of the intro (in measures) differs depending on the selected rhythm.

- Press the **【INTRO/ENDING】** button.
- press the **【START/STOP】** button.

2.2.4. ENDING

This is used for the ending of the song. When the ending is finished, the auto accompaniment stops automatically. The length of the ending (in measures) differs depending on the selected rhythm.

- Press the **【INTRO/ENDING】** button to start the ending section. When the ending is over, auto accompaniment will stop.

2.2.5. FILL A/B

【SYNC/VARIATION】 LED unlit : press **【FILL A】** or **【FILL B】** button to fill in other accompaniment.

【SYNC/VARIATION】 LED lit : press **【FILL A】** or **【FILL B】** button to variation fill in other accompaniment.

2.2.6. ONE FINGER

- Press the **【ONE FINGER】** button.
- Press the **【SYNC/VARIATION】** button.

Single-finger accompaniment makes it simple to produce beautifully orchestrated accompaniment using major, seventh, minor and minor-seventh chords by pressing a minimum number of keys on the Auto accompaniment section of the keyboard. The following abbreviated chord fingerings are used :

- For a major chord, press the root key only.
- For a seventh chord, simultaneously press the root key and a white key to its left.
- For a minor chord, simultaneously press the root key and a white key to its left.
- For a minor-seventh chord, simultaneously press the root key and both a white and black key to its left.

2.2.7. MULTI FINGER

As soon as the left hands play the chord, this instrument will auto accompaniment when using the Multi Finger Chord Auto accompaniment.

2.3. Saving to the Registration Memory

2.3.1. PRESET

The preset ton selected by each selector depends upon status (lit or unlit) of button lamps.

- Press the preset【1】·【2】·【3】or【4】button a few seconds(about 3 seconds), until the “ding” sound to store the current panel settings to the specified registration memory.

2.3.2. RECORD

- Press the 【RECORD】 button when light flashes three times to engage the record mode.

2.3.3. PLAY

- Press the 【PLAY】 button to playback the recording.

Chapter3. Auxiliary jack

3.1. Basic jack

3.1.1. PHONE jack

Headphone Out: This jack is a 1/4 TRS stereo headphone output this plays the same signal as the main outputs.

3.1.2. AUX OUT jack

You can use the speaker of preference.

3.1.3. SUSTAIN SWITCH jack

This jack allows you to connect an optional Sustain Footswitch to the keyboard.

3.1.4. DC 9V jack

Use only a genuine external 9V DC adaptor with the same voltage rating as the power supply in

your area to prevent damage to internal components.

3.2. MIDI jack

3.2.1. MIDI OUT jacks

Sends MIDI messages to external devices.

3.2.2. MIDI IN jacks

Receives external MIDI messages.

3.2.3. USB port

This jack is used to connect the keyboard with the computer, to get power and send MIDI messages directly to the sound card

Appendix 1 : Specification

Model	MIDIPLUS EK490
Description	PORTABLE E. PIANO
Keyboard	49 velocity sensitive piano-style key
Maximum Polyphony	64 notes
Instruments	128 GM list sound
Quickly Sound	x
Rhythm Style	100
Demo Song	20
Sound Effect	Velocity 、 Sustain 、 Reverb 、 Chorus 、 Split 、 Double keyboard 、 Double voice 、 Drum
Auto Accompaniment	Normal 、 One finger 、 Multi finger
Other Control	Transpose 、 Data Encoder 、 Numeric 0~9 、 + 、 -
LCD	Large LCD screen with blue back-light
Volume Control	Total 、 Accompaniment 、 Voice1 、 Voice2
Record Control	Record 、 Play
Preset	5
Rhythm Control	Sync/variation 、 Start/Stop 、 Fill-in A 、 Fill-in B 、 Intro/Ending
Octave	Up 、 Down
Wheels	Pitch 、 Modulation
Tempo Control	30-250
MIDI	16 multi-timbre received 、 GM Level 1 standard
Socket	Sustain pedal input 、 Aux out 、 MIDI IN/OUT 、 USB to computer 、 Stereo headphone
Speaker Output	2W+2W
Power Adapter	DC 9V / 2A
Power Batteries	6 x AA or equivalent batteries (not included)
Dimensions	About 83 x 25.5 x 8 cm
Weight	About 3.6 kg (without batteries)

Appendix 2 : Voice List

1 Acoustic Grand Piano	33 Acoustic Bass	65 Soprano Sax	97 Fx1 (rain)
2 Bright Acoustic Piano	34 Finger Bass	66 Alto Sax	98 Fx2 (soundtrack)
3 Electric Grand Piano	35 Picked Bass	67 Tenor Sax	99 Fx3 (crystal)
4 Honky-Tonk Piano	36 Fretless Bass	68 Baritone Sax	100 Fx4 (atmosphere)
5 Electric Piano 1	37 Slap Bass1	69 Oboe	101 Fx5 (brightness)
6 Electric Piano 2	38 Slap Bass 2	70 English Horn	102 Fx6 (goblins)
7 Harpsichord	39 Synth Bass 1	71 Bassoon	103 Fx7 (echoes)
8 Clavi	40 Synth Bass2	72 Clarinet	104 Fx8 (sci-fi)
9 Celesta	41 Violin	73 Piccolo	105 Sitar
10 Glockenspiel	42 Viola	74 Flute	106 Banjo
11 Music Box	43 Cello	75 Recorder	107 Shamisen
12 Vibraphone	44 Contrabass	76 Pan Flute	108 Koto
13 Marimba	45 Tremolo Strings	77 Blown Bottle	109 Kalimba
14 Xylophone	46 Pizzicato Strings	78 Shakuhachi	110 Bagpipe
15 Tubular Bells	47 Orchestral Harp	79 Whistle	111 Fiddle
16 Dulcimer	48 Timpani	80 Ocarina	112 Shanai
17 Drawbar Organ	49 String Ensemble 1	81 Lead 1(square)	113 Tinkle Bell
18 Percussive Organ	50 String Ensemble 2	82 Lead 2(sawtooth)	114 Agogo
19 Rock Organ	51 Synth Strings1	83 Lead3 (calliope)	115 Steel Drums
20 Church Organ	52 Synth Strings2	84 Lead4 (chiff)	116 Woodblock
21 Reed Organ	53 Choir Aahs	85 Lead5 (charang)	117 Taiko Drum
22 Accordion	54 Voice Oohs	86 Lead6 (voice)	118 Melodic Tom
23 Harmonica	55 Synth Voice	87 Lead7 (fifths)	119 Synth Drum
24 Tango Accordion	56 Orchestra Hit	88 Lead8 (bass+lead)	120 Reverse Cymbal
25 Acoustic Guitar (nylon)	57 Trumpet	89 Pad1 (new age)	121 Gt. Fret Noise
26 Acoustic Guitar (steel)	58 Trombone	90 Pad2 (warm)	122 Breath Noise
27 Electric Guitar (jazz)	59 Tuba	91 Pad3 (polysynth)	123 Seashore
28 Electric Guitar (clean)	60 Muted Trumpet	92 Pad4 (choir)	124 Bird Tweet
29 Electric Guitar (muted)	61 French Horn	93 Pad5 (bowed)	125 Telephone Ring
30 Overdriven Guitar	62 Brass Section	94 Pad6 (metallic)	126 Helicopter
31 Distortion Guitar	63 Synth Brass 1	95 Pad7 (halo)	127 Applause
32 Guitar harmonics	64 Synth Brass 2	96 Pad8 (sweep)	128 Gunshot

Appendix 3 : Demo List

1	Balloon Flower	11	The Flute
2	Papaya Song	12	Fishing Village
3	The Bluebells Of Scotland	13	My hometown
4	The Linden Tree	14	Sunny-side-up
5	Sword Brake	15	Home On The Range
6	In The Sweet Bye And Bye	16	Long Long Ago
7	Coconut	17	River
8	Whispering Pines	18	The harmonious blacksmith
9	Lovely Rose	19	Flow Gently Sweet Afton
10	Mongolian Pastoral Song	20	Women are fickle

Appendix 4 : Rhythm List

1	ROCK1	17	BOOGIE	33	BOSSA1	49	SL WALTZ
2	ROCK2	18	ROCK'N1	34	BOSSA2	50	SW WALTZ
3	RAP	19	ROCK'N2	35	LATIN	51	WALTZ
4	HOUSE	20	TWIST	36	CHA CHA	52	MARCH
5	TECHNO	21	SL ROCK1	37	RUMBA	53	FOXTROT
6	DANCE	22	SL ROCK2	38	POPROCK	54	POLKA
7	FUNK1	23	DISCO1	39	BEGUINE	55	BAROQUE
8	FUNK2	24	DISCO2	40	TANGO	56	COUNTRY
9	8BEAT1	25	SWING1	41	SAMBA1	57	SOUL CHA
10	8BEAT2	26	SWING2	42	SAMBA2	58	SL TANGO
11	8BEAT3	27	BLUES	43	SALSA	59	RUM-WAL
12	8BEAT4	28	SL SWING	44	MAMBO1	60	T-RUMBA
13	16BEAT1	29	BIG BAND	45	MAMBO2	61	T-SOUL
14	16BEAT2	30	SHUFFLE	46	CALYPSO	62	T-DISCO
15	16BEAT3	31	DIXIE	47	REGGAE	63	ENKA
16	16BEAT4	32	CHARLEST	48	FUSION	64	SANDI