

Hi Mike,

The Kawai K4 is a powerful but complicated little bugger. Here is the Parameter Reference Chart that came in the manual. This is for single patches only:

(EDIT) ---Top Parameter----- Volume : Patch Volume (1-100)

| ^ |-x2 Effect(Output)Patch : Mixer No.(1-32)

x1 | : |-x3 Submix Ch : Mixer Channel (A-H)

| : |-x4 Name 1st : Patch Name (10 Char.)

| : | :

| ...|-x13 Name 10th

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--(5)-----x1 Source Mode : Normal, Twin, or Double

| Common ^ |-x2 AM 2>1 : Ring Modulation 2>1

| : |-x3 AM 4>3 : Ring Modulation 4>3

| : |-x4 Poly Mode : Poly or Mono

| : |-x5 Bender Range : Pitch Bender Depth

| : |-x6 Press Freq : Bend Pitch w/ Pressure

| : |-x7 Wheel Assign : VIB, LFO, or VCF

| : |-x8 Depth : Wheel Depth

| : |-x9 Auto Bend Time : Time of bend from Key On

| : |-x10 Depth : Depth of bend from Key On

| : |-x11 KS Time : Change Time for Key Pos.

| ...|-x12 Vel Depth : Change Velocity Depth

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--(13)-----x1 Vibrato Shape : Tri, Saw, Sqr, Random

| LFO ^ |-x2 Speed : Vibrato speed

| : |-x3 Depth : Vibrato Depth

| : |-x4 Press Depth : Depth due to Pressure

| : |-x5 LFO Shape : Tri, Saw, Sqr, Random

| : |-x6 Speed : LFO speed

| : |-x7 Delay : Modulation Delay

| : |-x8 Depth : Modulation Depth

| ...|-x9 Press Depth : Depth due to Pressure

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--(6)-----x1 Delay : Time for each source

| S-Common ^ |-x2 Vel Curve : Curve for each source

| : ...|-x3 KS Curve : Curve for each source

|

--(14)-----x1 Wave : Wave selection

| DCO ^ |-x2 Key Track : Keyboard pitch On/Off

| : |-x3 Coarse : Change Pitch

| : |-x4 Fine : Fine Tune Pitch

| : |-x5 Fixed Key : Note played when (x2-Off)

| : |-x6 Press : On/Off (for each source)

| : ...|-x7 VIB/A.Bend : On/Off (for each source)

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--(7)-----x1 Level : Source Volume

| DCA ^ |-x2 Attack : DCA Env.(for each source)

| : |-x3 Decay :

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: |-x4 Sustain      :      "
...|-x5 Release     :      "

--( 15 )-----x1 Vel Depth      : Change Volume by Velocity
DCA-MOD ^ |-x2 Press Depth      : Change Volume by Pressure
: |-x3 KS Depth      : Change Volume w/Key Pos.
: |-x4 Time Mod Vel.   : Change Attack by Velocity
: |-x5      Rel. Vel.  : Change Rel. by Rel. Vel.
...|-x6      KS       : Change Att. & Dec. by Key

--( 8 )-----x1 Cutoff          : Filter Depth
DCF      ^ |-x2 Resonance       : Change Resonance
: |-x3 Vel Depth      : Modulating Cutoff w/Vel.
: |-x4 Press Depth    : Modulating Cutoff w/Press
: |-x5 KS Depth       : Keyboard Amount
...|-x6 LFO           : LFO Modulation On/Off

--( 16 )-----x1 Env Depth      : Modulating Cutoff w/Env
DCF-MOD ^ |-x2 Vel Depth      : Modulating Env Depth
: |-x3 Attack         : DCF Envelope
: |-x4 Decay          :      "
: |-x5 Sustain        :      "
: |-x6 Release        :      "
: |-x7 Time Mod Vel   : Change Attack by Velocity
: |-x8      Rel. Vel.  : Change Rel. by Rel. Vel.
...|-x9      KS       : Change Att. & Dec. by Key

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A couple of things to mention:

- There are 256 waves to choose from.
 - 1-96: DC Waves or Single Cycle waves (as we know them)
 - 97-256: PCM Waves or Sampled waves (as we know them)
- The K4 has 32 Oscillators but only 16 note polyphony since there is always at least 2 oscillators per note.
- In the Common page, there is a choice of three source modes.
 - Normal: sources 1&2 -> filter 1 per note
 - Twin: sources 1&2 -> filter 1 +
sources 3&4 -> filter 2 = per note
 - Double: sources 1,2,3,4 -> filter 1 -> filter 2 = per note
- Here's the goofy section of this instrument, the Effect (K4) and Output (K4r) Patches. Effect patches tell the singles or the Multi's outputs where to go. There is a total of 32 Output Patches for the instrument and are shared by both the Single Patches and the Multi Patches.

Hope this helps, Craig Robinson