

BOLDER *Sounds*

EXs162



Hammered Dulcimer

Owner's Manual

KRONOS
Music Workstation

Overview

Welcome to the third sampled instrument from the Bolder Sounds *Hammered Dulcimer Trilogy*: **Hammered Dulcimer**

About the Hammered Dulcimer

The hammered dulcimer was extensively used during the Middle Ages in England, France, Italy, Germany, the Netherlands and Spain. The dulcimer sampled for this library is a double *course* instrument. Meaning it uses 2 strings per note (much like a twelve string guitar). This instrument is also played in the United Kingdom (Wales, East Anglia, Northumbria) and the U.S., where its traditional use in folk music saw a notable revival in the late 20th century.

Sampled Articulations

The instrument is referred to as *hammered* in reference to the small mallets (referred to as hammers) that players use to strike the strings. This library features a dulcimer struck by wood as well as leather hammers.

The Drag Ornament

The drag ornaments were sampled for each pitch with both wood and leather hammers. The drag ornaments are created by one hammer bouncing repetitively on the string to be finally interrupted by the other hammer which plays a long accented note. This ornament is generally used leading into a downbeat. The bouncing portion of the note is just ahead of the beat acting as a pickup or anticipation into the down beat.

Kronos Programming

The Hammered Dulcimer library features 16 Kronos programs. Each program has a KARMA GE assigned to it with 4 scenes to choose from as well as a Drum Track. At program 000 - we begin with each individual sampled articulation. By program 004 you are presented with the drag ornament combined with the regular hammer hits which are triggered either by velocity or JS+Y movement. Rounding out the programming we have the Hammered Dulcimer presented in a layered manner with other ROM samples from the Kronos.

Demo Sequences

In your download is a demo .SNG file with two demo sequences which can be loaded with your sounds called **Hammered Dulcimer - Demos.SNG**. Demo S000: *Scarborough Fair*, is a traditional English ballad. The second demo - *O'Carolan's Concerto* is by the 18th century blind Irish harper Turlough O'Carolan.

Concert Grand Dulcimer Program List

Program	Name
U-G000	H. Dulcimer Leather
U-G001	H. Dulcimer Wood
U-G002	H. Dulcimer Leather Drag
U-G003	H. Dulcimer Wood Drag
U-G004	H. Dulcimer Leather+Drag
U-G005	H. Dulcimer Wood+Drag
U-G006	H. Dulcimer Leather JS+Y
U-G007	H. Dulcimer Wood JS+Y
U-G008	H. Dulcimer Velocity
U-G009	H. Dulcimer Wood + Choir
U-G010	H. Dulcimer + Strings
U-G011	H. Dulcimer + Pad
U-G012	H. Dulcimer Drag + Glass
U-G013	H. Dulcimer + Spectra
U-G014	H. Dulcimer + CymbFI
U-G015	H. Dulcimer + Pluck

Concert Grand Dulcimer Program Notes

Program 000 - **H. Dulcimer Leather** is a basic single OSC program featuring the leather hammers.

Program 001 - **H. Dulcimer Wood** is a basic single OSC program featuring the wood hammers.

Program 002 - **H. Dulcimer Leather Drag** is a basic single OSC program featuring the leather drag ornament samples.

Program 003 - **H. Dulcimer Wood Drag** is a basic single OSC program featuring the wood drag ornament samples.

Program 004 - **H. Dulcimer Leather+Drag** is a single OSC program with leather drag ornaments triggered by a velocity of 114 and higher.

Program 005 - **H. Dulcimer Wood+Drag** is a single OSC program with wood drag ornaments triggered by a velocity of 114 and higher.

Program 006 - **H. Dulcimer Leather JS+Y** is a dual OSC program with leather hammer samples assigned to OSC1 and leather drag ornaments brought in by JS+Y modulation assigned to OSC2.

Program 007 - **H. Dulcimer Wood JS+Y** is a dual OSC program with wood hammer samples assigned to OSC1 and wood drag ornaments brought in by JS+Y modulation assigned to OSC2.

Program 008 - **H. Dulcimer Velocity** utilizes velocity switching of leather and wood hammers as well as wood drag ornament samples in a single OSC.

Program 009 - **H. Dulcimer Wood + Choir** uses wood hammer samples in OSC1 and a Kronos choir ROM sample in OSC2 as a layer.

Program 010 - **H. Dulcimer + Strings** uses wood hammer samples in OSC1 and a layered Kronos string ensemble ROM sample in OSC2.

Program 011 - H. Dulcimer + Pad uses leather and wood hammer velocity switched samples in OSC1 and a layered Kronos pad ROM sample in OSC2.

Program 012 - H. Dulcimer + Drag + Glass is a FX-ish program using leather and wood drag ornaments as velocity switched samples in OSC1 and a Glass Vox Kronos ROM sample in OSC2.

Program 013 - H. Dulcimer + Spectra utilizes velocity switching of leather and wood hammers as well as wood drag ornament samples in OSC1 and a synthetic Kronos ROM sample in OSC2.

Program 014 - H. Dulcimer + CymbFI is a dual OSC program with wood hits and drags in OSC1 and the Kronos Cymbal Flute ROM sample in OSC2.

Program 015 - H. Dulcimer + Pluck is a dual OSC program with wood and leather velocity switched hits including drags at a velocity value of 108 in OSC1. OSC2 features a Kronos Bouzouki ROM sample.

Thank you to William Busch for his programming contribution to this library.

I hope you enjoy the KRONOS edition of the Concert Grand Hammered Dulcimer!
Dennis Burns - Bolder Sounds - September 2015

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