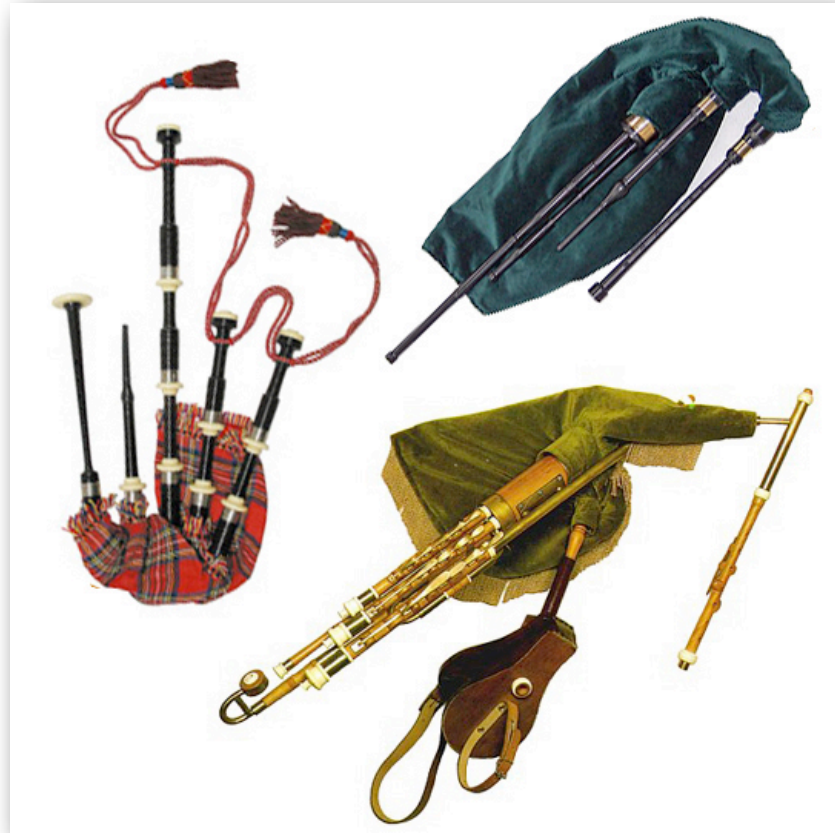


# Best Of BOLDER Collection



## Celtic Pipes

Owner's Manual

KRONOS  
Music Workstation

**BOLDER** *Sounds*

## Overview

Welcome to the Best Of Bolder Collection: **Celtic Pipes**

This Best Of Bolder volume features 3 varieties of Celtic Pipes -

- 2 Scottish Highland Pipes
- Uilleann Pipes
- Pub Pipes

## Demo Sequence

In your download is a demo .SNG file containing demo sequences which can be loaded with your sounds called **CelticPipes.SNG**. The tune *Brown Haired Maiden* was sequenced by Ed Fenner.



## About the Pipes

The Scottish Highland Pipes will be referred to in this manual as *Bagpipes* even though all three pipes presented here are technically bagpipes. We can separate the pipes into two components - the melodic scalar section called the *Chanter*, and the *Drone* section.

### Recorded Articulations

The Uilleann Pipes were recorded with non-vibrato samples and its drone. The vibrato was created via LFO modulation on the KRONOS.

The Bagpipe drone samples labeled *Strike In* have a signature sound of the drones pitch dropping down until it settles into stability. Bagpipe drones are also offered without the *Strike In* effect for users who might prefer a more stable pitch at the onset of the drone.

The Bagpipes were also sampled with what I have generically labeled as *ornaments* on each note - these are typically triggered by velocity level.

## Flutter and Grace Notes

A *Flutter Note* could be defined as a very quick pitch that is heard on the attack of a note created by the change of fingering from the previous note. 2 sets of Flutter Note multisamples were created for the Uilleann Pipes and 1 set for the Pub Pipes. A *Grace Note* is the same concept yet the pitch that is heard before the main note is of a longer duration.

## Long and Short Loops / Mono and Stereo Samples

You will also see a reference to *long* and *short* loops. The long loops have a bit more instability regarding pitch while the short loops are quite steady. Combining these two looping approaches in the Combination *Bagpipe Bands* creates a natural chorusing effect of an ensemble. All samples are *mono* except for those programs with the word *stereo* in the title.

### Quick Start

Go to **Combi - 000: Stereo Bagpipe 1** - Press your sustain pedal down and play A#2, this will trigger an A# bagpipe drone with its *Strike In*. Now you can release the A#2 note (but keep the sustain pedal depressed). Play any phrase in the approximate range of F4 to C6 while using the joystick to create some pitch bends and vibrato. Notice that the drone A#2 is unaffected by the joystick modulation. A filter is set up so that these joystick modulations are ignored by the drone note. Also notice that by playing a note at a velocity value higher than 120 triggers an ornament articulation.

This may not be an authentic approach to the way Scottish Highland Pipes are actually played - but it sure sounds great, and after all we are dealing with virtual instruments here - so we can get away with it! The above procedure actually might be more authentic when applied to the Uilleann and Pub Pipe Combinations - but you get the idea.

*\*\* In this Celtic Pipes library - the programs are really building blocks for the Combinations. The Combinations are where the action is in this volume!*

### Celtic Pipe Pitch Range

Each pipes multisample map is stretched as far as possible in order to give the user the option of playing outside of a pipes actual pitch range as well as flexibility for sound design purposes. However, it may be useful to be aware of the actual pitch range of these Celtic Pipes shown below. The chanter ranges of each pipe are displayed below.



Scottish Highland Bagpipes    ■    G#4 - A#5

Uilleann Pipes    ■    D4 - D5

Pub Pipes    ■    G#3 - G#4



## Celtic Pipe Programs

The programs represent the separate components that are essential to the building of the Combinations. The pipe programs can be separated into either drone, chanter or pad categories. The pads were included since they worked nicely coupled with the *chanter* of the pipes. The pad titled *Sea Bed* is from the Best Of Bolder *Granular* volume. It was created with granular processing of a conch shell.

Abbreviations in Programs and Combinations names are as follows -

**Tnr** - Tenor Drone

**Vel Sw.** - Velocity Switch

**Ch** - Chanter

**JS** - Joystick

Program	Name
U-G000	Bagpipe#1 Stereo VelSw
U-G001	BPipe#2 Stereo Orn.1
U-G002	BPipe#2 Stereo Orn.2
U-G003	Uilleann Pipes
U-G004	Celtic Pub Pipe
U-G005	Uilleann Flutter 1
U-G006	Uilleann Flutter 1&2 VS
U-G007	Pub Pipe Flutter V.S.
U-G008	Uilleann Flutter 2
U-G009	Uilleann Flut. 1&2/Grace
U-G010	BPipe#2 - 3 Way Vel.Sw.
U-G011	Uilleann Grace Notes VS
U-G012	Celtic Bagpipe Long
U-G013	Bagpipe Short Loops

Program	Name
U-G014	Bagpipe Strike In ChBs
U-G015	Sea Bed
U-G016	Pub Pipe Pad
U-G017	Uilleann Drone
U-G018	Bagpipe Strike ChBsTnr
U-G019	Celtic Bagpipe Tnr Drone
U-G020	B-Pipe Stereo Strike In
U-G021	B-Pipe Stereo Bass Drone
U-G022	B-Pipe Stereo Tenor Drone
U-G023	Bagpipe Drone Tnr+Chant
U-G024	Bagpipe Strike In Bass
U-G025	Celtic Bagpipe DroneBass
U-G026	Bagpipe#1 Stereo (basic)
U-G027	Bagpipe#2 Stereo (basic)

## Celtic Pipe Program Notes

*Program 000 - Bagpipe 1 Stereo VelSw* has a set of ornaments that are triggered at a velocity value of 120 and higher.

*Program 001 & 002 - Bagpipe 2 Stereo Orn.1* and *Bagpipe 2 Stereo Orn.2* have two different sets of ornaments that are triggered at a velocity value of 115 and higher.

*Program 005 - Uilleann Flutter 1* has flutter notes triggered at a velocity value of 119 and higher. The same is true for *Program 006 - Uilleann Flutter 1&2 VS*, the difference being that 2 different flutter note articulations are now triggered at velocity values of 110 and 120.

*Program 000 - Uilleann Flut. 1&2/Grace* uses two flutter note Multisamples as well as Grace Notes. Grace notes start at a velocity value of 106 while flutter notes 1 and 2 start at velocity levels of 115 and 122 respectively.

Bagpipe 2 was recorded with 2 sets of ornaments. *Program 01- BPipe#2 - 3 Way Vel.Sw.* has the normal chanter articulation triggered at velocity values lower than 105. Then ornaments 1 and 2 are triggered at velocities of 106 and 118 respectively.

*Program 011 - Uilleann Grace Notes VS* - Is the Uilleann Pipe with Grace Notes triggered above a velocity value of 119.

*Program 026 & 027 - Bagpipe#1&#2 Stereo (basic)* - the word *basic* is telling you that no ornaments are being triggered at higher velocity values as in previous programs.



## Celtic Pipe Combinations

As previously mentioned above in the *Quick Start* section above - the chanter and drone section of each Pipe Combination are treated as two separate entities in regard to the filtering of midi data. The chanter section will not respond to sustain pedal messages, and the drones will ignore all pitch modulation messages. It was necessary to use the Combination banks since this is not possible at the Program level.

The original sampled pitch of the Bagpipe drones are mapped to A#2, the actual pitch of this drone is somewhere between A and A#. The original sampled pitch of the Uilleann Pipes drone is located at D3.

The beauty of having sampled virtual bagpipes is the ability to play in any key with both the drone and chanter. In the real world the Uilleann Pipe simply cannot play in the key of F with a drone engaged. The actual scale played by the Uilleann Pipe is D mixolydian (D, E, F#, G, A, B, C).

The *Bagpipe Bands (019 & 020)* listed below are exclusively made of Bagpipes samples only, while the *Mixed Pipe Band (008)* is a combination of the three varieties of Celtic Pipes offered this library.

Combi	Name
U-G000	Stereo Bagpipe 1
U-G001	Uilleann Pipes
U-G002	Pub Pipe/Uilleann Drone
U-G003	Stereo Bagpipe #2 Orn.1
U-G004	Bagpipe Mono Long Loops
U-G005	Uilleann Pipes flutters
U-G006	Uilleann Pipes (basic)
U-G007	Stereo Bagpipe #2 Orn.2
U-G008	Mixed Pipe Band
U-G009	Uilleann Grace Notes VS
U-G010	Ster. BPipe#2 VS Orn.1&2
U-G011	Stereo Bagpipe 1 (basic)

Combi	Name
U-G012	Stereo Bagpipe 2 (basic)
U-G013	Bagpipe Mono Short Loops
U-G014	Pub Pipe (basic)
U-G015	Pub + BP long mono
U-G016	Pub + Uilleann Pipe
U-G017	Pub Pipe Pad Split
U-G018	Pub Pipe Pad Split 2
U-G019	Bagpipe Band 1
U-G020	Bagpipe Band 2
U-G021	Drone Collection 1
U-G022	Drone Collection 2

## Pipe Detuning in the Combinations

In the various *Bands* listed below a wide range of detuning control is assigned to User Knobs 1 - 4.

User Knob 1 - controls detuning of Bagpipe mono chanter programs.

User Knob 2 - controls detuning of Bagpipe stereo chanter programs.

User Knob 3 - controls detuning of Uilleann Pipe chanter programs.

User Knob 4 - controls detuning of Pub Pipe programs.

*\* Combination Bands are saved with the RT KNOBS / KARMA button engaged to enable this control.*

## Celtic Pipe Band Members

COMBI - 008: *Mixed Pipe Band* - / Bagpipe #1 Stereo VelSw / Bagpipe #2 Stereo / Uilleann Pipes / Pub Pipe / Assorted Drones.

COMBI - 019: *Bagpipe Band 1* - / Bagpipe #1 Stereo VelSw / Celtic Bagpipe Long / Bagpipe #2 Stereo / Assorted Drones.

COMBI - 020: *Bagpipe Band 2* - / Bagpipe #1 Stereo / Bagpipe #2 Stereo / Bagpipe Short Loops / Assorted Drones.

## Drone Collections 1 & 2

These Combinations present all the pipe drones in this library - both stereo and mono. They are simply made available should the user need a drone *menu* for Celtic music or general sound design purposes.

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*I'd like to thank the following people for their generous contributions to this library - Ed Fenner, Michele Paciulli, James Tubbritt and William Busch.*

Thank you and I hope you enjoy the KRONOS edition of the BOB Celtic Pipes volume!  
Dennis Burns - Bolder Sounds - December 2013

**BOLDER***Sounds*