

# *Falcon Singles - Celtic Harp for Falcon*

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## **Installation**

As there is no default location for 3rd party sound libraries for Falcon, you can just install the folder "Celtic Harp" which you extracted from the RAR-archive anywhere on your system, preferably on a fast external drive, if you have one available. Then you just locate the folder "Celtic Harp" in the Falcon browser under "Devices", add it to your favorite places and load a program from one of the categories in the main "Programs" folder, or a sample from the sample subfolders, or a wavetable from the wavetable folder or an image into the wavetable synth from the Images-folder. You can also drag and drop programs directly from the Finder into "Parts" in Falcon.

## License agreement and terms of usage

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1.) The licensee must not distribute the patches, samples, wavetables and images from **Falcon Singles - Celtic Harp**, resample them, copy or otherwise replicate the patches, samples, wavetables and images from this sound library in any commercial, free or otherwise product. That includes sample- and audio libraries and patches for other samplers and sample- or wavetable-based synthesizers. You can of course create such derivatives for your own musical work as long as these derivatives are only distributed in the context of musical work or sound design.

2.) The license to the sound library **Falcon Singles - Celtic Harp** may not be given away or sold, it is not for resale (NFR).

## Description and content

Multi-sampled Celtic harp, originally sampled for my MachFive 3 library [Scattered Entity](#), falconized, expanded, improved and re-worked for Falcon in January 2016, also making use of the new synthesis forms introduced in Falcon like the multi-granular engine, the wavetable and physical modeling synths and adding many more Macro controls. Some patches have scripted interfaces, the scripting was executed by Iain Morland.

This library provides various Celtic harp articulations like single accents with 3 velocity layers - 4x round robin, up/down glissandos in various modes (major/minor harmonic/minor melodic/dorian), bisbigliandos (tremolos) and plenty of electronic derivatives, re-synthesized harp sounds and two bell samples.

So besides the acoustic harp patches you will find some beautiful and mysterious soundscapes, warm pads, edgy plucks, a grungy bass and a groovy sequencer sound.

Up to 20+ Macros and switches plus the modulation wheel are assigned in each patch, many also use aftertouch, providing detailed control over volume envelopes, filtering, amplitude- and pitch modulations, EQ-ing, dynamics, stereo animation, granular parameters and more. All patches use some sort of background image in the UI, split patches have colored key-zones in the Falcon keyboard for easier navigation.

## Content:

- 995.1 MB of samples (364 wavs/stereo/48 Khz/24 Bit/phase-aligned), 2 harp-wavetables, 3 background images for the UI. The content is not encrypted, so you can use the samples and wavetables in other samplers and synths.
- 20 patches combining most synthesis forms available in Falcon.
- Library size in total: 1.01 GB

All acoustic samples in this library were recorded with 3 top notch microphones (Neumann) in L-C-R in 48 Khz/24 Bit.

All audio demos for this library are [here](#).

A walkthrough video can be viewed [here](#).

## CPU

The multi-granular engine with many grain streams and the wavetable synth with many unison voices can be somewhat CPU-hungry, so if a patch puts too much strain on your system whilst tracking, reduced the overall polyphony in Falcon and/or reduce the release time (most patches have a dedicated Macro assigned to "Release"). Also when mixing and not tracking I would advise you to raise the sample buffer in your DAW, as latency is not an issue in that case.

## Patchlist

All patches have between 10 - 20+ Macro and switches installed and the modulation wheel assigned, many also use aftertouch.

All playing tips and comments from the alphabetic patchlist below can also be accessed via the Info-tab in the Falcon UI.

C3 refers to the middle C on a piano (C1 in classical terms).

AT = Aftertouch, VEL = velocity, MW = modulation wheel, L1 = layer 1, KG = keygroup,

KS = key-switch, WT = wavetable

Patches	Description
Asian Harp Plucker	<p>Two split pluck synth modules using Celtic harp accents from the 3rd velocity layer to excite the resonators, VEL modulates numerous parameters. Set decay time for the pluck synth either with the assigned Macro or make it velocity sensitive with another Macro.</p> <p>MW introduces effects similar to ring-modulation (modulating the "Coupling"-parameter).</p> <p>Plenty of Macros are installed for controlling stereo width/stereo modulation (UVI Wide), chorus, delay, waveshaper distortion, convolution reverb, filtering and maximizing.</p> <p>19 Macros and 2 switches are installed.</p>
Celtic Harp Bell	<p>This patch uses 7 celtic harp multi-samples from the second velocity layer mapped between C0 - C6, these play in granular mode with 5 grain streams. A ship bell sample (with crossfade looping) in normal sampling mode is layered with the harp, set it's volume with the assigned Macro. 3 granular controls for speed/grain spread/density are available. The Filter Env-Macro introduces a filter envelope applied to LP cutoff in both layers.</p> <p>MW increases the speed of the LFO which modulates the amount of pitch randomization in the harp layer and it adds random pitch modulation to the bell.</p> <p>13 Macros and a reverb-freeze switch are installed.</p>
Celtic Harp Granular Bisbigliando	<p>Playing a long bisbigliando (tremolo) on 2 equally tuned strings on the celtic harp, every C and G in each octave was sampled, lowest and highest notes are extended so the instrument has a range from C-2 - C7, some samples are 1+ minute long. MW adds fast random pitch modulation.</p> <p>Sample start can be controlled with a Macro and/or via velocity when the assigned Macro is dialed in. More Macros for filter modulation and FX control are available.</p>

Patches	Description
Celtic Harp Glissandos KS	<p>Six key-switchable layers with Celtic harp glissandos.</p> <p>Layer 1 - KS C0 - rising glissandi major scale  G1 - F#2 upwards glissandi multiple gliss segments version 1  G2 - F#3 upwards glissandi multiple gliss segments version 2  G3 - F#4 - upwards gliss single version 1  G4 - F#5 - upwards gliss single version 1</p> <p>Layer 2 - KS D0 - falling glissandi major scale  G1 - F#2 - upwards glissandi multiple gliss segments version 1  G2 - F#3 - upwards glissandi multiple gliss segments version 2  G3 - F#4 - upwards gliss single version 1  G4 - F#5 - upwards gliss single version 1</p> <p>Layer 3 - KS E0 - rising glissandi minor harmonic scale  same mapping as above  Layer 4 - KS F0 - falling glissandi minor harmonic scale  same mapping as above  Layer 5 - KS G0 - rising glissandi minor melodic scale  same mapping as above  Layer 6 - KS A0 - falling glissandi minor melodic scale  same mapping as above</p> <p>10 Macros and 1 switch for controlling attack/release/filtering/EQing and FX are installed.</p>
Celtic Harp Granular Bisbigliando  (scripted interface)	<p>Playing a long bisbigliando (tremolo) on 2 equally tuned strings on the celtic harp, every C and G in each octave was sampled, lowest and highest notes are extended so the instrument has a range from C-2 - C7, some samples are 1+ minute long.</p> <p>5 granular controls are installed, MW is also assigned to the "Sample Speed"-control</p>
Celtic Harp Granular Impro	<p>This patch uses a long celtic harp impro I recorded right after I received the harp, which I bought for Scattered Entity Vol. 1. An impro in G#min, processed with some EQ/compression and reverb, running in granular mode.</p> <p>There are two key-switchable layers available:  KS A-1 - running in unison mode (2 voices = 2 grain streams)  KS B-1 - running in unison mode (5 voices = 5 grain streams) - CPU intense</p> <p>Three Macros let you determine the offset for sample position, pitch and pan, another Macro detunes the grains. Aftertouch modulates sample speed.</p> <p>MW adds UVI Wide-flanging-pitch-stereo warp.</p> <p>15 Macros are installed.</p>
Celtic Harp Synth	<p>Multi-sampled Celtic harp layered with an FM synth. A Macro decreases LP filter cutoff, so the filter becomes velocity sensitive. Add filter resonance with Macro 4.</p> <p>11 Macros and a compressor on/off-switch are installed.</p>

Patches	Description
Celtic Harp (scripted interface)	<p>Celtic harp sampled at 3 velocity layers and 4x round robin. The harp was tuned to C major, all 7 notes per octave were sampled from B1 - E5. To extend the range, samples from the octave above/below were copied, keeping the root notes the same, so this instrument ranges from C1 - C6.</p> <p>The highest velocity was plucked with the fingernail, so it has an edgy sound with a small glissando, reminding of a banjo or an asian string instrument.</p> <p>Add pitch modulation with MW, I suppose harp players would love to be able to do that :)</p> <p>Check the interface for plenty of controls to tweak the sound to your taste.</p>
Celtic Resonances Split	<p>Upper half: Celtic harp soundscape in granular mode derived from harp tremolos, processed with Melodyne Studio 4, Kaleidoscope and audio-morphing programs. 5 granular controls are available, one of them enabling AT to control grain position. Tempo-synced amplitude modulation, filter and pan modulation can be dialed in.</p> <p>Lower half: harp wavetable drone, controls for phase distortion-modulation, tempo-synced amplitude modulation, tuning, pitch sequence and filter modulation are available.</p> <p>MW randomizes grain pitch and increases detune in the wt-synth. Split point: C2</p> <p>19 Macros and a reverb freeze-switch are installed.</p>
Granular Beauty Gliss Split	<p>Two spectral textures derived from rising/falling harp glissandos, playing in granular mode split across the keyboard, split point is C3. The repetition in the lower register starts with a rising glissando towards the root note.</p> <p>Five granular controls for grain speed/size/density/spread and grain position control via AT are installed. MW randomizes grain pitch.</p> <p>Three parallel filter/effects can be mixed, LP filter with cutoff control, tuned combfilters with a polarity switch (negative = 1 octave lower) and sweeping bandpass filtering. Another Macro controls LP/HP filtering.</p> <p>19 Macros and 2 switches are installed.</p>
Granular Harp Flagos	<p>A long sample with a sequence of flageolet intervals played on a Celtic harp, running in granular mode.</p> <p>8 granular controls and a grain reverse switch are installed. MW randomizes grain pitch.</p> <p>More controls for filter modulation and FX control are available.</p> <p>16 Macros and 1 switch are installed.</p>

Patches	Description
Harp Arp KS	<p>KS1 (A-1): Lowest note of the harp sampled at 5x round robin, running in cycle-mode on oscillator level.</p> <p>KS2 (B-1) adds a pluck synth which also uses a harp accent to excite the resonators.</p> <p>Arpeggiator is activated, filter cutoff is controlled by the velocities programmed in the arpeggiator. The "Harp Drive"-Macro only becomes audible when filter resonance is dialed in. Each layer has a dedicated volume control, the pluck synth has controls for randomization and wave-shaping.</p> <p>Reduce the note lengths in the arpeggiator with the assigned Macro.</p> <p>MW adds a pitch-glitch to each attack.</p> <p>13 Macros and a Maximizer on/off-switch are installed.</p>
Harp Gliss Combed Dorian  (scripted interface)	<p>Celtic harp tuned to a dorian scale, one falling glissando playing from C0 - C4, root C3, looped back and forth, one up/down glissando texture played with the flat fingers creating some wind-like noise, mapped from C#4 - C7, root C5.</p> <p>These glissandi play in granular mode and are run through tuned combfilter (key follow).</p> <p>An analog stack synth is layered with the harp sounds.</p> <p>The harp layer plays in unison mode (3 voices) with an offset between the voices for various parameters, so this patch is very CPU-intense.</p> <p>Check the interface for a lot of controls to tweak the sound.</p> <p>Polyphony is set to 16 voices, so you can play 4 notes simultaneously (each note triggers 4 voices).</p>
Harp Gliss Dorian Split KS	<p>Celtic harp tuned to a dorian scale, two key-switchable trios with downwards glissandi. All samples play in granular mode.</p> <p>Overlapping split for each trio, mapping:  Gliss 1: root note C1, range C0 - C2  Gliss 2: root note C3, range C2 - C4  Gliss 3: root note C5, range C4 - C6</p> <p>Key-switches are located at A-1/B-2.  In the second trio the upper two glissandi were played with a finger nail resulting in a more noisy sound.</p> <p>Control the sample speed with the assigned Macro (hard left = freeze).  Detune the grains with another Macro. More controls for pan modulation, filtering and FX are available.</p> <p>11 Macros and a reverb freeze-switch are installed.</p>

Patches	Description
Harp Gliss Up Dorian Birds	<p>Celtic harp tuned to a dorian scale - upwards glissando - meets a bird ambience re-synthesized in Metasynth to create a tonal drone. The harp plays in multi-granular mode (3 grain streams), the bird scape plays in normal granular mode, each layer has a dedicated volume and grain speed control.</p> <p>Dial in tempo-synced, square-shaped pitch modulation with the assigned Macro, +/- 1 octave with the control fully engaged. Two Macros control amount of ring modulation/RM frequency, MW detunes the grains.</p> <p>In the convolution reverb engine there is a tubular windchime sample creating strange resonances.</p> <p>16 Macros and 2 switches are installed.</p>
Harp Grunge Bass	<p>Lowest note of the harp sampled at 5x round robin, layered with an analog synth module, each layer has a dedicated volume control. Shift the harp up an octave with the installed switch.</p> <p>The harp samples are run through a vowel filter with lots of drive, the synth runs through an analog lowpass. The cutoff of both filters is velocity sensitive. Use MW for pitch modulation.</p> <p>8 Macros and 4 switches are installed.</p>
Harp Pad Beauty	<p>This patch uses just reverb tails from celtic harp-accents multi-sampled between C2 - A4 using various cascaded reverbs and delays. All samples are crossfade-looped and the sample zones are also crossfading to create smooth transitions between the different samples.</p> <p>Dial in tempo-synced amplitude modulation with the assigned Macro, When the control "LP Cut Inv" is engaged, a filter envelope can be dialed in with another Macro. More Macros for FX control are available.</p> <p>Range C0 - C7. Attack time is velocity sensitive, MW adds pitch modulation.</p>
Harp Pluck Tabler KS	<p>Two different key-switchable wavetabled Celtic harp accents, an ADSR scans through the table once, activate wt- and phase distortion modulation with the "Animate"-Macro. AT increases unison detune when the respective Macro is dialed in. Key-switches are located at A-1/B-1.</p> <p>Dial in a filter sweep with the assigned Macro, MW adds tempo-synced amplitude modulation.</p> <p>Two different key-switchable wavetables are available, the switches are located at A-1/B-1.</p> <p>15 Macros and 2 switches are installed.</p>

Patches	Description
HarpGliss Drone	<p>A sequence of accents played on the celtic harp while moving the tuning lever up and down for semitone glissandi and great rattling noises. The harp plays in granular mode (4 grain streams), 3 granular controls for speed/density/grain spread and a grain reverse switch are installed.</p> <p>With KS1 engaged, an analogue synth can be mixed in which has a dedicated volume control and a Macro for dialing in Sync-modulation. MW adds distortion to the harp sample, dial in tempo-synced amplitude modulation with the assigned Macro.</p> <p>AT controls pitch, minor third upwards when fully engaged.</p> <p>Mapped from C-2 - C6.</p> <p>There are 2 key-switchable layers available:  A-1 - harp and synth  B-1 - only harp</p> <p>12 Macros and 4 switches are installed.</p>
Spectral Flageolet Cloud	<p>Spectralized and processed harp flageolet textures sampled at two root notes (C1/ C3) running in multi-granular mode (5 grain streams), instrument range: C0 - C5.</p> <p>MW randomizes grain pitch, 6 granular controls for speed/size/density/spread and grain position control are available. More Macros for pan modulation, tempo-synced tremolo, filter modulation and FX are installed.</p> <p>19 Macros and a reverb freeze-switch are available.</p>

Please enjoy the sounds!

Simon Stockhausen, January 30th - 2016