Tap Tempo

The footswitch can be used to set the refresh speed. Press and release the footswitch at least twice, in time with your music, to set the tempo. The LED blinks at the tempo to confirm the speed is set by tap-tempo. To turn off tap-tempo, simply turn the SPEED knob to reset the refresh speed.

You can completely disable tap-tempo by following these steps:

- 1. Power down the Atomic Cluster.
- 2. Press and hold the footswitch while reapplying power.
- Continue to hold the footswitch for about two seconds, the LED will slowly blink through all three colors twice.
- 4. Release the footswitch and tap-tempo is now disabled.
- 5. Repeat this process to re-enable tap-tempo.

Tap-tempo on/off is recalled through power cycles so you can set it and forget it.

Dynamics Control

By default, the different oscillations have different volumes, based on the input signal. You can also flatten the dynamics to force all oscillations to have the same volume for a more synthetic effect. To switch between these two modes, hold the MODE button for about a second. The LED will flash through three colors, either slowly or rapidly. The slower blink cycle indicates you are in flat-dynamics mode, while the rapid blink cycle indicates you are in normal, full-dynamics mode. The state of this mode is recalled through a power cycle.

NOTE: upon entering flat-dynamics mode the volume of the effect signal may change depending on the input level of your signal and the number of ATOMS used.



Questions about this product?

Email: info@ehx.com

Tap Tempo

The footswitch can be used to set the refresh speed. Press and release the footswitch at least twice, in time with your music, to set the tempo. The LED blinks at the tempo to confirm the speed is set by tap-tempo. To turn off tap-tempo, simply turn the SPEED knob to reset the refresh speed.

You can completely disable tap-tempo by following these steps:

- 1. Power down the Atomic Cluster.
- 2. Press and hold the footswitch while reapplying power.
- Continue to hold the footswitch for about two seconds, the LED will slowly blink through all three colors twice.
- 4. Release the footswitch and tap-tempo is now disabled.
- 5. Repeat this process to re-enable tap-tempo.

Tap-tempo on/off is recalled through power cycles so you can set it and forget it.

Dynamics Control

By default, the different oscillations have different volumes, based on the input signal. You can also flatten the dynamics to force all oscillations to have the same volume for a more synthetic effect. To switch between these two modes, hold the MODE button for about a second. The LED will flash through three colors, either slowly or rapidly. The slower blink cycle indicates you are in flat-dynamics mode, while the rapid blink cycle indicates you are in normal, full-dynamics mode. The state of this mode is recalled through a power cycle.

NOTE: upon entering flat-dynamics mode the volume of the effect signal may change depending on the input level of your signal and the number of ATOMS used.



Questions about this product?

Email: info@ehx.com



ATOMIC CLUSTER

User Manual

Spectral Decomposer





ATOMIC CLUSTER

User Manual

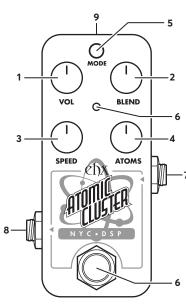
Spectral Decomposer



Welcome to the Electro-Harmonix Atomic Cluster, a unique effect that breaks your signal down to its most basic elements to create effects ranging from rhythmic lo-fi glitch and auto-arpeggiation to ambient synthetic pads. The Atomic Cluster uses a unique algorithm to reduce the frequency resolution of your instrument, generating resonant oscillations directly related to your input signal. Control the number of simultaneous oscillations, the speed they refresh (controllable with tap-tempo), and the transition style between them to create a wide range of unique effects.

Operating Instructions

Insert the output plug from the supplied 9VDC AC adapter into the power jack at the top of the Atomic Cluster. The unit must be powered to pass signal, even in bypass. The pedal features buffered analog bypass. Connect an instrument cable from your instrument to the Input jack. Connect an instrument cable between the Output jack and a suitable amplifier. Press the footswitch to engage the Atomic Cluster and light the LED.

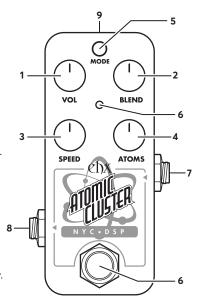


This device comes equipped with an Electro-Harmonix 9.6DC-200 power supply. Use of the wrong adapter or a plug with the wrong polarity may damage the device and void the warranty. Do not exceed 10.5VDC on the power plug. Power supplies rated for less than 100mA may cause the device to act unreliably.

Welcome to the Electro-Harmonix Atomic Cluster, a unique effect that breaks your signal down to its most basic elements to create effects ranging from rhythmic lo-fi glitch and auto-arpeggiation to ambient synthetic pads. The Atomic Cluster uses a unique algorithm to reduce the frequency resolution of your instrument, generating resonant oscillations directly related to your input signal. Control the number of simultaneous oscillations, the speed they refresh (controllable with tap-tempo), and the transition style between them to create a wide range of unique effects.

Operating Instructions

Insert the output plug from the supplied 9VDC AC adapter into the power jack at the top of the Atomic Cluster. The unit must be powered to pass signal, even in bypass. The pedal features buffered analog bypass. Connect an instrument cable from your instrument to the Input jack. Connect an instrument cable between the Output jack and a suitable amplifier. Press the footswitch to engage the Atomic Cluster and light the LED.



This device comes equipped with an Electro-Harmonix 9.6DC-200 power supply. Use of the wrong adapter or a plug with the wrong polarity may damage the device and void the warranty. Do not exceed 10.5VDC on the power plug. Power supplies rated for less than 100mA may cause the device to act unreliably.

Controls & Jacks

- 1. VOL Adjusts the output volume.
- **2. BLEND** Adjusts the output mix from 100% dry to 100% wet.
- **3. SPEED** Sets how quickly the algorithm refreshes the oscillations it produces. This can also be controlled via tap-tempo.
- **4. ATOMS** Sets how many oscillations are produced at a given moment.

TIP 1: Setting SPEED and ATOMS to maximum will give you a sound close to your normal instrument sound. From there, play with lowering ATOMS and SPEED to get a feel for how these controls impact the effect.

TIP 2: At lower numbers of ATOMS, you will likely get a more interesting and varied effect with a brighter input signal (a signal with more high frequency content). If using a guitar, consider the bridge pickup and/or using distortion before the Atomic Cluster.

- **5. MODE Button** This button is used to control the transition style between the different oscillations:
- Red Sharp Mode The transition between oscillations is instant, for a more rhythmic effect.
- Green Smooth Mode The transition between oscillations is smoothly faded, for a more lush, ambient effect.

NOTE: at very high SPEED settings, the difference between these two modes is subtle.

- **6. Footswitch and Status LED** The footswitch engages or bypasses the effect. The LED color indicates the transition mode. In bypass, the LED is off. The LED blinks at the latest tap reading when SPEED is set by tap tempo.
- 7. Input Jack Impedance: 2.2MΩ, Max In: +1.5dBu
- 8. Output Jack Impedance: 680Ω, Max Out: +2.1dBu
- 9. Power Jack Current draw: 100mA at 9.0VDC

Controls & Jacks

- 1. VOL Adjusts the output volume.
- **2. BLEND** Adjusts the output mix from 100% dry to 100% wet.
- **3. SPEED** Sets how quickly the algorithm refreshes the oscillations it produces. This can also be controlled via tap-tempo.
- **4. ATOMS** Sets how many oscillations are produced at a given moment.
- TIP 1: Setting SPEED and ATOMS to maximum will give you a sound close to your normal instrument sound. From there, play with lowering ATOMS and SPEED to get a feel for how these controls impact the effect.
- TIP 2: At lower numbers of ATOMS, you will likely get a more interesting and varied effect with a brighter input signal (a signal with more high frequency content). If using a guitar, consider the bridge pickup and/or using distortion before the Atomic Cluster.

- **5. MODE Button** This button is used to control the transition style between the different oscillations:
- **Red Sharp Mode** The transition between oscillations is instant, for a more rhythmic effect.
- Green Smooth Mode The transition between oscillations is smoothly faded, for a more lush, ambient effect.

NOTE: at very high SPEED settings, the difference between these two modes is subtle.

- **6. Footswitch and Status LED** The footswitch engages or bypasses the effect. The LED color indicates the transition mode. In bypass, the LED is off. The LED blinks at the latest tap reading when SPEED is set by tap tempo.
- 7. Input Jack Impedance: 2.2MΩ, Max In: +1.5dBu
- 8. Output Jack Impedance: 680Ω, Max Out: +2.1dBu
- 9. Power Jack Current draw: 100mA at 9.0VDC