



WAUBABY MULTI-WAH FX

[RACK EXTENSION]
MANUAL / 2021



FX device by Turn2on Software



WAUBABY is not just another Wah-Wah effect. It is the biggest existing collection of known Wah pedal emulations all in one box. Now it couldn't be easier to select that special Wah tone you need from **35** Wah models and **70** frequency modes. This is a collection of most the popular, most recognised and iconic Wah pedals also including artist signature pedals with further expanded range modes for creating your own ultimate wah tone in the Reason Rack. Now you can have a big bag of Wah pedals all contained within one Rack Extension. This is WAUBABY baby.

Select the frequency range pedal model and sweep it using the pedal with either frequency knob or even a foot controller. From narrow and high to subtle and broad tones everything is possible using the various Wah pedal models and modes of WAUBABY. The Wah pedal shifts a bandpass filter with a resonant peak creating the sounds of a trumpet mute, or a human voice like a "Wah-Wah" also known today as "Wacka-Wacka" on rhythm guitar.

The Wah effects usually work on the guitar mid range sound. Some pedals have been specially created for use with Bass guitars. Many keyboardists also use Wah effects with keys and synthesizers to produce humanized sounds. WAUBABY includes Wah models and modes for guitars, bass and also include allows for frequency range mode tweaking for more effective use with various other kinds of incoming signals.

6-BAND EQ helps to control and remove Wah artifacts from the processed signal. Envelope follower section measures incoming audio signal level and uses it as a Frequency modulator.

The Wah Pedal is a frequency range filter effect, it is very popular in the world of music since its innovation in the 1960's as an experimental solution to mid range boosting of a guitar signal.

WAUBABY is a unique and must-have effect collection for all fans of Wah. Try it now in the Reason Rack.



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The '60s: The wonderful world of **Wah**

The Wah pedal's history began in 1965.

The Thomas Organ Company produced a preamp/control module which included an innovational MFB™ section (Mid Range Resonant Boost), used to articulate mid range frequency.

The head engineer of Thomas Organ, found that boost switching between two MFB positions created a Wah-Wah sound. He hit upon the idea that a remote pedal for controlling this sound would result in a unique effect for guitars.

By rocking the foot on the pedal the guitarist could sweep the mid-frequency boost simulating the "wow-wow" effect of a trumpet with a harmonical mute.

The first Wah pedal was designed by the Thomas Organ Company™ and appeared on the market in 1967 as the "VOX Clyde McCoy Wah-Wah pedal"™. Soon after, the Thomas Organ Company™ dropped the "Clyde McCoy"™ name from the pedal, and rebranded it as the "V864 Wah-Wah"™.

Later in 1968, Thomas Organ Company™ produced the "Cry Baby"™ and "King Vox Wah"™ pedals which were identical to the original "Vox Clyde McCoy"™ and "V846 Vox Wah-Wah"™.

The Wah pedal shifts a bandpass filter with a resonant peak creating the sounds of a trumpet mute, or a human voice like a "Wah-Wah" also known today as "Wacka-Wacka" on rhythm guitar.

The Wah effect has been famously used by artists such as Jimi Hendrix, Jimmy Page, Eric Clapton and many other musicians in the 50 years since its creation. Its unique sound can be heard in pop and funk, rock, metal and many more styles. The Wah effect work on the guitar's mid range sound. Some pedals have been specially created for use with Bass guitars. Many keyboardists also use Wah effects with keys and synthesizers to produce humanized sounds.

All Wah pedal models in history vary in their frequency ranges, but the main functionality is the same.



WAHBABY as unique collection of Wah models

WAUBABY - is the biggest collection of known existing Wah pedals on the modern market, but also in the history list of Wah effects. It includes 35 pedal models and 70 various modes, ranging from the first Clyde McCoy version up to modern signature pedal versions such as Tom Morello or Kirk Hammet and others.

WAUBABY includes exclusive extra modes with more extensive frequency ranges beyond the guitar signal limitation. This enables the Wah effect to be used more effectively with various other kinds of incoming signals.

WAUBABY presents the flexibility of the known Wah pedals with the addition of modern possibilities, including Envelope Follower, Limiter with Maximizer and a 6-band EQ, which helps to control and remove Wah artifacts from the processed signal.

WAUBABY THE BIGGEST MULTI-WAH FX



WAH CONTROL

29 PEDALS
60 MODES



FREQUENCY

Changes bandwidth frequency and gain linked to the frequency. Moving the pedal boosts a defined range of frequencies and sweeps the frequency center of this boost to create wah effect. Frequency parameter is changed by selecting different Wah pedal models

RESONANCE

Amount of the resonant peak at center frequency

SMOOTH TIME

Time smoothing of the Frequency parameter between min/max pedal positions (0-20ms) for a glue effect for the sweeping

PRE GAIN

Gain level of the incoming unprocessed signal (up to +12 dB)

FREQ RANGE

Selection of 35 different pedal models, with up to 70 frequency modes which work within defined frequency ranges

- MULTI-Q A
- MULTI-Q B
- MULTI-Q C
- MULTI-Q D
- MULTI-Q E
- MULTI-Q F
- DIMEBG A
- DIMEBG B
- DIMEBG C
- DIMEBG D
- DIMEBG E
- MINI-Q A
- MINI-Q B
- MINI-Q C
- MINI-Q D
- JNR HI
- JNR MD
- JNR LO
- MORHELO AG
- MORHELO XP
- BADMAS A
- BADMAS B
- BADMAS C
- BADMAS D
- BDY-G BG L
- BDY-G BG H
- BDY-G DP L
- BDY-G DP H
- SLSH LO
- SLSH HI
- SLSH CLSC
- KHAMMET LO
- KHAMMET HI
- JENDRIKS
- J BNMSA
- CLD MCCOY
- PETRUCHI L
- PETRUCHI H
- EVGALLEN L
- EVGALLEN H
- G.KLRK LO
- G.KLRK HI
- JCANTR L
- JCANTR H
- BASS-Q
- U-WAH Q
- CSTM YL
- CSTM YH
- CSTM RL
- CSTM RH
- O-ZONE Q
- XOV 748V
- ITALY JN 85
- WILDZ LO
- WILDZ HI
- BDF L
- BDF HI
- CB CLSC
- GZR BLS BASS
- ✓ CARA BASS

FREQUENCY RANGE MODES

ENVELOPE FOLLOWER SECTION



ENV.FOLL. ON/OFF

Enable / Disable Envelope follower functionality

ATTACK

Rise time when the incoming audio level increases

RELEASE

Fall time when the incoming audio level decreases

THRESHOLD

Incoming audio signal level for the modulation curve

AMOUNT

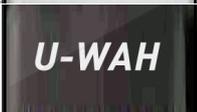
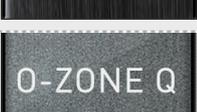
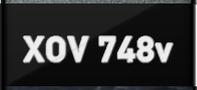
Amount of the envelope follower to the Wah Frequency

Envelope follower section measures incoming audio signal level and uses it as a Frequency modulator

FREQUENCY RANGE / PEDAL MODELS & MODES

WAUBABY frequency range selector allows selection of 35 different pedal models, with up to 70 frequency modes which work within defined frequency ranges.

| PEDAL MODEL | FREQ MODE | FREQ RANGE | PEDAL / MODE DESCRIPTION | LOGO |
|-----------------|--|--|--|---|
| FULL NEO | FULL NEO | 20 Hz / 25 kHz | Modern variation of the Wah frequency range. Not limited to the mid freq. range of the guitar sound |  |
| MULTI Q | A B C D E F | 440 Hz / 2.2 kHz 400 Hz / 1.9 kHz 375 Hz / 1.8 kHz 345 Hz / 1.6 kHz 395 Hz / 1.4 kHz 250 Hz / 1.2 kHz | One of the modern wah pedals, includes 6 modes of the ultimate wah tones |  |
| DIMEBG | A B C D E | 440 Hz / 1.5 kHz 400 Hz / 1.3 kHz 375 Hz / 1.2 kHz 345 Hz / 1.0 kHz 295 Hz / 700 Hz | Signature pedal of Dimebag Darell*. In a period when Wah pedal use had fallen, Dime used this effect in his own unique way. Wah pedal was the most significant element of his sound. |  |
| MINI Q | A B C D | 270 Hz / 1.3 kHz 320 Hz / 1.65 kHz 360 Hz / 1.84 kHz 420 Hz / 2.1 kHz | Mini version of a very well known and popular Wah pedal. Include 4 modes. |  |
| JNR | HI MID LOW | 380 Hz / 2.1 kHz 330 Hz / 1.8 kHz 270 Hz / 1.5 kHz | Junior wah effect includes worlds most popular configurations in 3 modes |  |
| MORHELO | AGRESSIVE EXPRESSIVE | 350 Hz / 1.5 kHz 450 Hz / 2.5 kHz | Signature pedal of Tom Morello*, includes aggressive and expressive modes |  |
| BADMASS | A B C D | 550 Hz / 1.2 kHz 550 Hz / 1.8 kHz 380 Hz / 1.1 kHz 380 Hz / 1.5 kHz | Custom BadMass*. Dual inductor dynamic palette |  |
| BDY-G | BG LOW BG HIGH DEEP LOW DEEP HIGH | 290 Hz / 1.5 kHz 390 Hz / 1.9 kHz 250 Hz / 1.3 kHz 330 Hz / 1.6 kHz | Signature pedal of Buddy Guy*. Two selectable voices: Deep for a big sound and BG for bell-like tones, with Low and High frequency ranges |  |
| SLSH | LOW HIGH CLASSIC | 270 Hz / 1.5 kHz 370 Hz / 1.9 kHz 340 Hz / 1.7 kHz | Signature pedals of Slash*. Huge dynamic range and a wide sweep Classic pedal of Slash's cutting lead |  |
| KHAMMET | LOW HIGH | 300 Hz / 1.4 kHz 380 Hz / 1.8 kHz | Signature pedal of Kirk Hammett*. Own dynamic range |  |
| JENDRIKS | HEDRIKS | 290 Hz / 1.4 kHz | Signature pedal of Jimi Hendrix*. Reproduces Jimi's legendary wah tone heard in "Voodoo Child" |  |
| J BNMSA | J BNMSA | 310 Hz / 1.51 kHz | Signature pedal of Joe Bonamassa*. Adds harmonic content and growling |  |

| PEDAL MODEL | FREQ MODE | FREQ RANGE | DESCRIPTION | LOGO |
|--------------|---|---|--|---|
| CLD MCCOY | CLD MCCOY | 410 Hz / 2.2 kHz | First commercial Wah effect in history. Sound of the original wah pedal |  |
| PETRUCHI | LOW HIGH | 200 Hz / 1.2 kHz 240 Hz / 1.5 kHz | Signature pedal of John Petrucci*. Include 6-band EQ tonal control |  |
| EVGALLEN | LOW HIGH | 300 Hz / 1.9 kHz 380 Hz / 2.3 kHz | Eddie Van Halen* signature pedal. Includes wide frequency sweep, increasing low-end sweep. |  |
| G KLRK J | LOW HIGH | 320 Hz / 1.05 kHz 320 Hz / 1.27 kHz | Signature pedal of Gary Clark Jr.* Lower frequency range and tighter sweep |  |
| J CANTRL | LOW HIGH | 390 Hz / 1.7 kHz 390 Hz / 2.07 kHz | Signature pedal of Jerry Cantrell* |  |
| BASS Q | BASS Q | 180 Hz / 1.8 kHz | Special Wah pedal version with frequency range for the Bass |  |
| U-WAH Q | U-WAH Q | 390 Hz / 2.0 kHz | Special edition pedal with own frequency range |  |
| CSTM | YELLOW LO YELLOW HI RED LOW RED HIGH | 400 Hz / 1.9 kHz 400 Hz / 2.2 kHz 255 Hz / 1.3 kHz 355 Hz / 1.35 kHz | Custom pedal with switching between two inductors (Yellow and Red) with High and Low frequency ranges. Modes select narrower and wider bandpass. |  |
| O-ZONE Q | O-ZONE Q | 380 Hz / 2.0 kHz | Fixed position wah pedal with own frequency range |  |
| XOV 748V | XOV 748V | 450 Hz / 1.6 kHz | Legendary original rebranded pedal from XOY |  |
| ITALY JN 85 | ITALY JN 85 | 300 Hz / 2.1 kHz | Italian version of the Wah pedal from 1985 |  |
| WILD Z | LOW HIGH | 250 Hz / 1.4 kHz 350 Hz / 2.4 kHz | Signature pedal of Zakk Wylde.* Lower and Higher variants of frequency range |  |
| BDF | LOW HIGH | 410 Hz / 2.0 kHz 450 Hz / 2.2 kHz | Signature pedal of Billy Duff.* |  |
| CB CLSC | CB CLSC | 350 Hz / 2.2 kHz | Classic Wah pedal with modern look |  |
| GZR BLS BASS | GZR BLS BASS | 400 Hz / 2.0 kHz | Signature pedal of Geezer Buttler.* |  |
| CARA BASS | CARA BASS | 194 Hz / 2.0 kHz | Wah pedal for Bass |  |

| PEDAL MODEL | FREQ MODE | FREQ RANGE | DESCRIPTION | LOGO |
|--------------------------|--------------------------|---|---|-----------------------------|
| MORLEY POWER WAH | MORLY POW | 25 Hz / 4.0 kHz | First commercial Wah effect in history. Sound of the original wah pedal | MORLY POWER |
| COLOR SOUND WAH | COLORSND | 375 Hz / 1.8 kHz | Signature pedal of John Petrucci*. Include 6-band EQ tonal control | COLORSND WAH EFFECT |
| IBANZ WH10 | GUITAR BASS | 350 Hz / 2.2 kHz 175 Hz / 1.1 kHz | Emulation of the Ibanz WH10 v3 pedal in Guitar and Bass versions | IBZ WH10 GUITAR |
| EBS STANLEY CLARK | IBS SCLRK | 50 Hz / 12.5 kHz | Signature Bass pedal by EBS, Stanley Clark Signature Bass with wide frequency range control | IBS STANLY CLARK |
| DNP CHANCE | GUITAR WAH UK FILTER | 340 Hz / 1.92 kHz 232 Hz / 2.7 kHz | Signature pedal of Justin Chancellor (JCT95) with main guitar Wah mode and UK filter mode | DNLP JUSTIN CHANCEL |
| NOCENT MARDI | NOCENTELLI MARDI GRAS | 290 Hz / 1.5 kHz | Signature pedal by Nocentelli Mardi Gras (LN95) funk legend | NOCENTEL MARDI GRAAS |
| SONUUS WAHOO | SONIC WIHOO | 20 Hz / 4.0 kHz | Emulation of the Wah pedal WIHOO by SONUUS | SONIC Wihoo |

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BASIC SETTINGS



SOFT BYPASS

Switches between effect bypass. Fades in and fades out which excludes loud peaks when enabled or disabled.



BYPASS - disable effect

ON - enable effect

OFF - mute incoming signal

LIMITER



LIMITER ON/OFF

Enable / Disable Limiter activity

RELEASE

Set recovery time of the limited signal

BOOSTER

Maximizer level wich boosts (up to +60 dB) and compresses signal

6-BAND EQ



"6 BAND EQ"

Enable / Disable 6-band equalizer

EQ BANDS

Control the peak level of the frequency bends (100 / 200 / 400 / 800 / 1600 / 3200 Hz) by reducing or increasing each band individually to +/-20dB

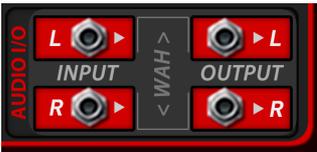
6-BAND EQ helps to control and remove Wah artifacts from the processed signal

PEDAL CONTROL



Highly recommended to use as external Expression pedal with WAHBABY Multi-Wah effect. You can build custom **converter from 1/4 Jack Expression pedal -> USB midi**, based on Arduino. [Please read manual about custom controller](#)

REAR PANEL



AUDIO INPUT/OUTPUT:

Mono or Stereo connections for audio signals.



CV INPUTS

Use these CV inputs to control the main parameters by external CV source curves



WAUBABY
MULTI-WAH EFFECT



Thanks to all beta-testers,

Special thanks to

- MrFigg (Cameron Jeffrey): Beta testing / Audio demo examples / Manual editions
- Philip Meadows (Despondo): text fixes



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