

## Menu Overview

- Use **Menu** buttons and **< / >** **Cursor** to open/change menu pages.
- Use **Matrix** knobs and/or **Para 1 - 4** knobs for editing.

**Sing/Mul**

Analog Bass 1 012  
Single < > Multi  
Single Mode

KickAeyrth 000  
Single < > Multi  
Multi Mode  
002 018 008 003 1  
004 005 007 003 1

**Midi**

Analog Bass 1 012  
Midi Setup 1  
RxCh TxCh CkSy PBRq  
01 01 OFF 00

Analog Bass 1 012  
Midi Setup 2  
Split TxCC  
0 OFF OFF RkTr ON

Analog Bass 1 012  
Midi Setup 3  
SysEx Transm  
1Prs 1Mul BkP BkM  
OFF OFF OFF OFF

Analog Bass 1 012  
Midi Setup 4  
SyErr MLUth MIUB  
OFF TxPg ON OFF

**FX**

Analog Bass 1 012  
REVERB  
LEV 0 SIZ 0 LP 0 HF 0

Analog Bass 1 012  
DELAY 1  
SRM1SG.0  
LEV 0 1/2 SYN FBK 0

Analog Bass 1 012  
DELAY 2  
SRM1SG.0  
LEV 0 1/2 SYN FBK 0

**Store**

Store to location  
Name edit: right >  
To cancel: left <

Analog Bass 1 012  
Edit Name  
Analog Bass 1

**Set EV/OP**

ENV / PIT CV IN  
ENVMAN PITCH  
OP1 OP2 OP3 OP4

**Set FM Amt**

EXT OP FM CV INP  
OP1 OP2 OP3 OP4

**Set FM**

EXT OP FM CV INP  
OP1 OP2 OP3 OP4

Input calibration  
remove FM cables  
press SET FM

**Mod FM**  
8 Voice 4 OP FM Synth

V / OCT CV SCALE  
MTARGET OFF SCALE  
0 13 27

Set V/Oct

**Matrix**

Analog Bass 1 012  
Matrix  
TUN CVTD ALDO VOL

Analog Bass 1 012  
Matrix  
TUN CVTD ALDO VOL

Analog Bass 1 012  
Matrix  
TUN CVTD ALDO VOL

left-hand display

right-hand display

**Algorithm**

Analog Bass 1 012  
ALG 001  
NO ALGORITHM  
FREE MATRIX

OPERAT TUNE MODE  
OP1 OP2 OP3 OP4

Analog Bass 1 012  
Waveform display

left-hand display

right-hand display

**LFO**

Analog Bass 1 012  
LFO  
FRQ MIX LFO WAV

Analog Bass 1 012  
LFO  
FRQ MIX LFO WAV

left-hand display

right-hand display

**Filter**

Analog Bass 1 012  
Filter  
LFO FRQ INT WAV01

left-hand display

right-hand display

Part of this  
Quickstart Guide

# Mod FM

## 8 Voice 4 OP FM Synth

### QUICKSTART GUIDE

## Change MIDI In Chnl

- Hit **Midi** menu button
- Select MIDI In Chnl with **Para 1** knob.

Analog Bass 1 012  
Midi Setup 1

RxCh TxCh CkSy PBRq  
01 01 OFF 00

## Change Presets

- Use **^ / v** **Cursor** everytime to change the current preset.

Analog Bass 1 012  
MATRIX  
TUN CVTD ALDO VOL

## Panel Overview

**External control of operator envelope amounts (sockets and menu button)**

**Matrix knobs for editing matrix and other parameters**

**Menu buttons for selecting menus**

**Cursor buttons for changing presets and menu pages**

**Audio outs**

**External control of matrix parameters (sockets and menu buttons)**

**Parameter knobs for editing div. menu parameters**

**CV/Gate inputs (sockets and menu button)**

**MIDI ports**

**Mod FM**  
8 Voice 4 OP FM Synth

## Editing Parameters

**Example left Display**

Change Parameter Value

Parameter Name

Preset Name / Number

Menu Page

Turn Knob

Display shows Parameter Value

Analog Bass 1 012  
FM1 FM2 FM3 FM4  
FRQ MIX VCO WAV

## Example right Display

Change Parameter Value

Level Parameter

Turn Knob

Any other Parameter

Display shows Parameter Values

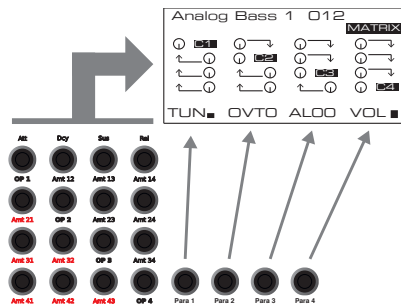
INP MIX SHP  
FMV 2PL LP  
NOI 4PL  
MET

Sometimes both "Para"- and "Matrix" knobs are used to access parameters shown in the two displays.

## Matrix Menu (Selection of Functions)

Controls the FM engine

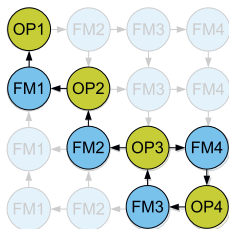
Display Content	Value	Knob / Button	Function
C1/M1 to C4/M4	000 - 127	OP1 / OP 2 / OP 3 / OP4	Operator Pitch
⊙	000 - 127	Amt XY (12x)	Operator Mod Depth
TUN	000 - 127	Para 1	Tuning entire FM Engine
OVT	0 - 6	Para 2	Overtone Mode
AL	00 - 26	Para 3	Algorithm
VOL	000 - 127	Para 4	Volume entire FM Engine



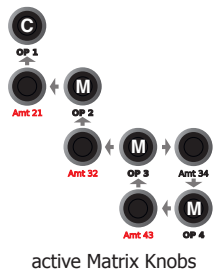
## Algorithm Menu (Selection of Functions)

Selects FM Algorithm

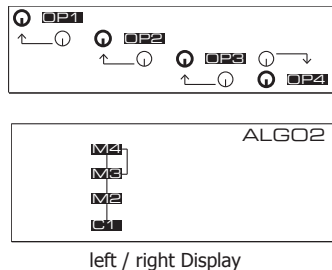
Algorithm 2:



Matrix Scene



active Matrix Knobs

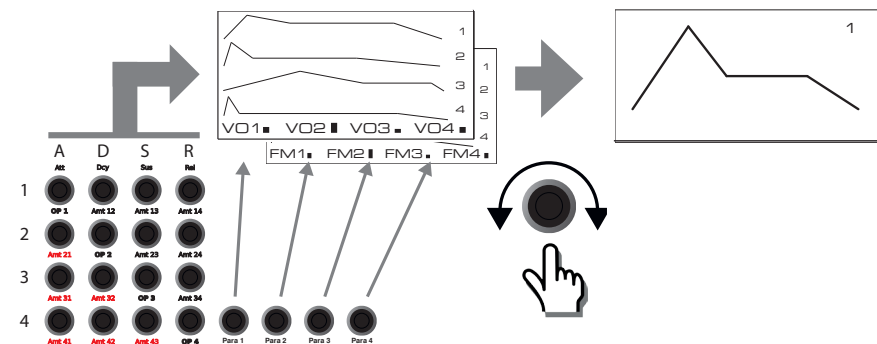


left / right Display

Depending on which operator modulation paths are used by the particular algorithm, only some specific of the 12 **Amt XY** knobs are active.

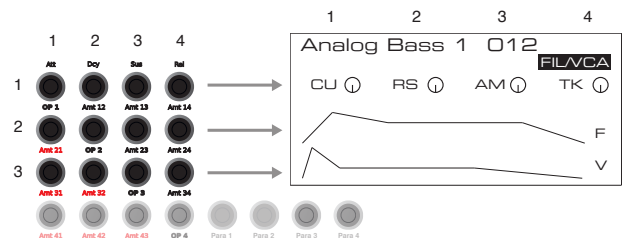
## Operator Envelope (Selection of Functions)

Each of the four operators provides an ADSR envelope generator. It controls both the volume- and the pitch curve of its operator but with independently adjustable amounts.



## Filter/VCA Menu (Selection of Functions)

Controls filter, filter envelope and VCA envelope as well as modulation depths of both.



Display Content	Value	Knob / Button	Function
CU	000 - 127	Matrix Knob 1 / Row 1	Cutoff Frequency
RS	000 - 127	Matrix Knob 2 / Row 1	Resonance
AM	000 - 127	Matrix Knob 3 / Row 1	Envelope Amount
TK	000 - 127	Matrix Knob 4 / Row 1	Keyboard Tracking
Filter Envelope Graphic	Graphic	Matrix Knobs 1 - 4 / Row 2	Filter Envelope Shape (ADSR)
Volume Envelope Graphic	Graphic	Matrix Knobs 1 - 4 / Row 3	Volume Envelope Shape (ADSR)

## FX Menu (Selection of Functions)

Controls on-board reverb effect and two delay effects via **Para 1-4** knobs.

### Reverb

Display Content	Value	Knob	Function
LEV	000 - 127	Para 1	Level Reverb Signal
SIZ	000 - 127	Para 2	Reverb Decay Time
LP	000 - 127	Para 3	Hi Cut
HP	000 - 127	Para 4	Lo Cut

### Delay 1, 2

Display Content	Value	Knob	Function
LEV	000 - 127	Para 1	Level Delay Signal
DLY / 128 / 1/2	000 - 127 / 1/2	Para 2	Delay Time
SLO / SYN	SLO / MED / FAST / SYN	Para 3	Delay Time Range / MIDI Sync
FBK	000 - 127	Para 4	Delay Feedback

## Random and Reset Functions

### Randomise FM Matrix

- Enter the Matrix menu (**Matrix** button).
- Press and hold the **< Cursor** button for at least 3 seconds.

### Initialise FM Matrix

- Enter the Matrix menu (**Matrix** button).
- Press and hold the **Matrix** button for at least 3 seconds.

### Randomise Filter

- Enter the Filter menu (**Filter** button).
- Press and hold the **< Cursor** button for at least 3 seconds.

### Initialise Single Preset

- Press and hold the **Sing/Mul** button for at least 3 seconds.