

GRAND PIANO

**MIDI
TONE
GENERATOR**



Manual

SAFETY PRECAUTIONS

SAFETY INSTRUCTIONS



- Read the user manual before using the device
- Do not allow any liquid to come in contact with the device
- Do not place anything on top of the device
- Do not handle the power supply with wet hands
- Turn off all connected devices before you connect any new devices

Do not use or store the device where it is exposed to:

- dampness or wetness
- extreme temperature changes (i.e. do not store in a vehicle in winter)
- strong vibrations or jolts

HANDLING

- Use only the original cables and power supply
- Remove the cable only by pulling on the plug, not on the cable
- Do not expose the power adapter to any mechanical stress

CUSTOMER SERVICE

Do not carry out any repairs at home, as this may result in permanent damage to the electronics. Any guarantee claims are no longer valid in this case.

ACCESSORIES

Manual and power adapter

POWER REQUIREMENT

9VDC / 1.0A

HUMIDITY

max. 80%, non-condensing

OPERATING TEMPERATURE

10 to 40 degrees Celsius

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TECHNICAL SPECIFICATIONS

- Master Volume
- Master Reverb
- 3 GB flash memory
- 16 MIDI channels
- 4 audio out (2 stereo)
- Polyphony 256 voice
- Ports available for 1 sustain foot pedal
- Dimensions: 12cm (L) x 12cm (W) x 6cm (H)
- Weight: 0.2kg
- USB Host

CE This product conforms to the EMC Directive

The CE certification is available at
<http://www.v3sound.com/2016/manuals/CE-FCC/CE-report-EN55032-20.pdf>

FCC This product conforms to the FCC 47 CFR PART 15 SUBPART B

<http://www.v3sound.com/2016/manuals/CE-FCC/Verification%20-%20FCC.pdf>
<http://www.v3sound.com/2016/manuals/CE-FCC/FCC%20Part%2015%20B.pdf>

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OVERVIEW

Thank you for choosing the V3 GRAND PIANO 3GB — the most modern technology inside an electronic musical instrument.

The third generation of our sound expander creates an open, lively and authentic sound, just like a real concert piano. The unmistakable timbre of two exclusive grand pianos await you, equipped with the latest in modelling algorithms: Imperial 290 of Vienna and Model "D," constructed in Hamburg.

GRAND PIANO MODELLING ALGORITHM

- 1 String resonance – pedal down: Our new multi-layer algorithm creates a sound that perfectly simulates the real depth – the physical depth – of the instrument.
- 2 Sympathetic resonance: passive string resonance.
- 3 Note-Off samples: Created with note velocity and length
- 4 Pedal On/Off noise: Connect a sustain pedal to the unit.
- 5 Half pedal function: Use a controller pedal, like ROLAND DP-10, to vary the sustain lengths.
- 6 Sustain pedal "grabbing:" Press the sustain pedal again after you release it to extend the resonance of the strings.

USER INTERFACE AND PORTS



CONNECT

To avoid possible damage to the loud speakers or other connected electronic devices, always connect all cables before turn on the amplifier. Turn on the V3 GRAND PIANO first before turning on any active loud speakers or amplifiers.

- 1 Make sure the POWER switch on the back of the device is in the OFF position (LED light is not on).
- 2 Plug the power adapter that came with the device into the DC port on the back of the unit.
- 3 Plug the other end of the power adapter into a power outlet. Make sure that the adapter is compatible with the power supply.
- 4 Connect the audio outputs to an amplifier, active loudspeakers or headphones.
- 5 Connect the MIDI or USB cable to the V3 unit.

TO TURN ON

Before you turn the device on or off, make sure that all connected audio devices that amplify the audio signal (mixer, amplifier, active loud speakers) have their volumes turned down.

- 1 Press the POWER ON/OFF switch on the back of the device.
- 2 Turn up the V3 unit MAIN VOLUME knob to adjust the volume.
- 3 Adjust the volume on your mixer or active loudspeaker.

TIP

Turn the volume on the V3 unit as loud as possible, and then adjust the volume of the sound on your mixer.

CONNECT - USB KEYS

The V3 GRAND PIANO unit can be connected to any USB Audio Class 1 compatible keyboard. The V3 GRAND PIANO unit can supply your USB keyboard with a maximum of 500mA.

If your keyboard requires more than 500mA, you will need an external power supply.

Just plug in your USB keyboard here.



FOOT PEDAL

The polarity of the sustain foot pedal is set up automatically when you turn on the V3. The pedal only works on MIDI channel 1.

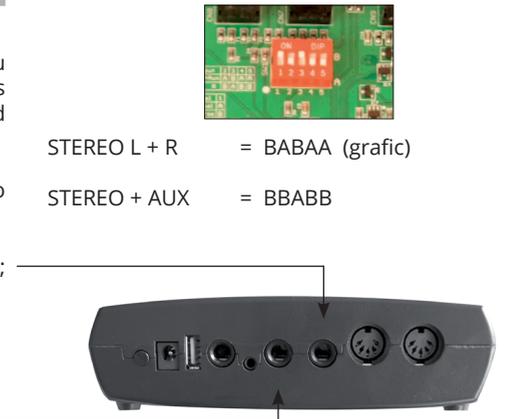


AUX OUT - 2nd STEREO OUT

To use the AUX OUT for any MIDI channel, you must manually change the 4 internal switches and send a MIDI message on the specified MIDI channel.

The connection changes from 2 mono jacks to 2 stereo jacks.

One stereo jack gives you the MAIN in stereo; the other one the AUX in stereo.



SELECT SOUNDS

The V3 GRAND PIANO sound board is a 16-channel, multi-timbral MIDI tone generator. Change sounds by sending a program change through MIDI.

Sympathetic resonance, sustain pedal grabbing and the half pedal function are only active on MIDI channel 1.

LEGEND

C = Chorus effect on
S = Sympathetic resonance
V = Number of necessary voices (OSC) per note.



ABOUT POLYPHONY

The unit offers 256 mono voices. Many sounds of the V3 Grand Piano use 6 voices per note.

If you hit 10 notes at the same time, 60 voices are used. If you hold down the sustain pedal, the 60 voices are sustained and still in use. If you play again, 60 more voices are needed.

So, do not forget to release the sustain pedal!

V3 GRAND PIANO - 3GB

MSB BANK 0

Prg.		Layer	Layer	Description	C	S	V
01	Grand Piano Vienna					❖	4
02	Grand Piano Hamburg					❖	4
03	Electric Grand Piano					❖	3
04	E-Piano RSP 73				✓		4
05	E-Piano DyM				✓		4
06	Wurly A200				✓		4
07	E-Piano FM				✓		2
08	Clavinet						2
09	HamOrgan 888 Perc			888 Perc.			4
10	Full String Orchestra						6
11	Grand Piano Vienna	Synth. Pad					4
12	Grand Piano Hamburg	Synth. Pad					4
13	Electric Grand Piano CP	Synth. Pad			✓		5
14	E-Piano RSP 73	Synth. Pad	Tinkle	Vibrato	✓		6
15	E-Piano DyM	Synth. Pad		Vibrato	✓		5
16	Wurly A200	Synth. Pad		Vibrato	✓		5
17	E-Piano FM	Synth. Pad		Vibrato	✓		4
18	HamOrgan slow Rotary			800000568			4
19	HamOrgan fast Rotary			800000568			4
20	Full String Orch. Classic						6
21	Grand Piano Vienna			Rock Version		❖	4
22	Grand Piano Hamburg			Rock Version		❖	4
23	Honky Tonk Hamburg	Attack				❖	4
24	E-Piano RSP 73			hard			4
25	E-Piano DyM			hard	✓		4
26	Wurly A200			hard			4
27	E-Piano FM Stack	DyM		hard	✓		6
28	HamOrgan slow			776555678			4
29	HamOrgan fast			776555678			4
30	Pipe Organ Tutti						2
31	Grand Piano Vienna	Strings					4
32	Grand Piano Hamburg	Strings					4
33	Electric Grand Piano CP	Strings					4
34	E-Piano RSP 73	Strings					4
35	E-Piano DyM	Strings					4
36	Wurly A200	Strings					4
37	E-Piano FM	Strings					4
38	HamOrgan slow			80000008			4
39	HamOrgan fast			80000008			4
40	Pipe Organ Flute Combi						4

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MSB BANK 0

Prg.		Layer	Layer	Description	C	S	V
41	Grand Piano Vienna	E-Piano	Pad				5
42	Grand Piano Hamburg	E-Piano	Pad				6
43	Grand Piano Hamburg	E-Piano	Pad & Bells				4
44	E-Piano RSP 73	Tinkle Attack					5
45	E-Piano DyM			Pedal down Hamburg			6
46	Wurly A200	Tinkle Attack					5
47	E-Piano FM	Tinkle Attack		Vibrato			5
48	HamOrgan slow			800000000			4
49	HamOrgan fast			800000000			4
50	Theatre Organ						2
51	Grand Piano Vienna	Dream Reso					4
52	Grand Piano Hamburg	Dream Reso					4
53	Latin Octave Hamburg	Octave					6
54	E-Piano RSP 73			Vibrato	✓		4
55	E-Piano DyM			Vibrato	✓		4
56	Wurly A200			Vibrato	✓		4
57	E-Piano FM Rezo				✓		2
58	HamOrgan slow			80780000			4
59	HamOrgan fast			80780000			4
60	Synthesizer Pad dark				✓		2
61	Grand Piano Vienna	pedal down		pedal down resonance		❖	6
62	Grand Piano Hamburg	pedal down		pedal down resonance		❖	6
63	Honky Tonk Vienna	Attack				❖	4
64	E-Piano RSP 73			Vibrato fast			4
65	Tinkle Bell						2
66	Wurly A200			Vibrato fast			4
67	TX816 EP-Stack				✓		4
68	HamOrgan slow			68760000			4
69	HamOrgan fast			68760000			4
70	Synth Strings						4
71	Grand Piano Vienna	pedal down		pedal down reso. soft		❖	4
72	Grand Piano Hamburg	pedal down		Pedal Resonance soft		❖	4
73	Electric Grand Piano	pedal down			✓	❖	5
74	E-Piano RSP 73				✓	❖	4
75	E-Piano DyM				✓	❖	4
76	Wurly A200				✓	❖	4
77	E-Piano FM				✓	❖	4
78	HamOrgan slow			00853000			4
79	HamOrgan fast			00853000			4
80	Full String Orchestra			long release			6

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MSB BANK 0

Prg.		Layer	Layer	Description	C	S	V
81	Grand Piano Vienna	pedal down		pedal down reso. loud		❖	4
82	Grand Piano Hamburg	pedal down		pedal down reso. loud		❖	4
83	FM Clavinet						2
84	E-Piano RSP 73			hard & Vibrato			4
85	E-Piano DyM			hard & Vibrato			4
86	Wurly A200			hard & Vibrato			4
87	E-Piano FM9			hard & Vibrato			4
88	HamOrgan slow Rotary			WSP			2
89	HamOrgan fast Rotary			WSP			2
90	Full String Orchestra			fast			6
91	Grand Piano Vienna			Sym. Res. loud		❖	4
92	Grand Piano Hamburg			Sym. Res. loud		❖	4
93	Electric Grand Piano			Micro Channel Honkey			3
94	E-Piano RSP 73			copy 4 - no chorus			4
95	E-Piano DyM			copy 5 - no chorus			4
96	Wurly A200			copy 6 - no chorus			4
97	E-Piano FM			copy 7 - no chorus			2
98	HamOrgan slow Rotary			Gospel			2
99	HamOrgan fast Rotary			Gospel			2
100	Strings Vintage						2
101	Grand Piano Vienna			copy 1 - with Chorus	✓	❖	4
102	Grand Piano Hamburg			copy 2 - with Chorus	✓	❖	4
103	Electric Grand Piano			copy 3 - with Chorus	✓		3
104	E-Piano RSP 73			copy 54 - Vib. no Chorus			4
105	E-Piano DyM			copy 55 - Vib. no Chorus			4
106	Wurly A200			copy 56 - Vib. no Chorus			4
107	E-Piano FM	Tinkle		copy 47 - Vib. no Chorus			2
108	Clavinet			with Chorus	✓		2
109	HamOrgan 888 Perc			888 Perc. with Chorus	✓		4
110	Full String Orchestra			with Chorus	✓		6
111	Grand Piano Vienna	E-Piano	Pad	with Chorus	✓	❖	5
112	Grand Piano Hamburg	E-Piano	Pad	with Chorus	✓	❖	6
113	Grand Piano Hamburg	E-Piano	Pad & Bells	with Chorus	✓		4
114	E-Piano RSP 73	Synth. Pad	Tinkle	copy 14 - no Chorus			6
115	E-Piano DyM	Synth. Pad		copy 15 - no Chorus			5
116	Wurly A200	Synth. Pad		copy 16 - no Chorus			5
117	E-Piano FM	Synth. Pad		copy 17 - no Chorus			4

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MSB BANK 0

Prg.		Split	Split	Description	C	S	V
118	E-Piano Dyn	E-Bass		Note D38 and lower E-Bass		❖	4
119	Grand Piano Vienna	E-Bass		Note D38 and lower E-Bass		❖	4
120	Grand Piano Hamburg	E-Bass		Note D38 and lower E-Bass		❖	4
Hit hard and get a harder Acoustic Bass sound.							
121	Grand Piano Vienna	AcousticBass		Note D38 and lower A-Bass		❖	4
122	Grand Piano Hamburg	AcousticBass		Note D38 and lower A-Bass		❖	4
Split Note D38 and lower are Acoustic Bass & Ride Cymbals Hit hard and get a Crash Cymbal and a harder Acoustic Bass sound. The Ride Cymbals use alternating samples.							
123	Grand Piano Vienna	AcousticBass	Ride/Crash	Split Bass & Cymbal		❖	4
124	Grand Piano Hamburg	AcousticBass	Ride/Crash	Split Bass & Cymbal		❖	4
Use these programs on a second or third MIDI channel to build multiple layers.							
125	E-Bass						1
126	Double Bass						1
127	Cymbal			Split Note D38 and lower			2
128	Silence			no sound			0

MIDI IMPLEMENTATION

	Recognized	
Basic Default	1 - 16	
Mode	3 poly mode	
Messages		
Note number	* 12-109	* depends on sounds
Velocity Note ON	9nH,v=1-127 o	
Note OFF	9nH,v=0 x	
Key aftertouch	o	
Channel aftertouch	o	
Pitch Bend	0-12	
Bank Select	00	* value depends on sound board
Controller	01 - Modulation	
	05 - Portamento time	
	06 - Data Entry	
	07 - Volume	
	10 - Panorama	
	11 - Expression	
	64 - Sustain	
	65 - Portamento	
	66 - Sostenuto	
	71 - Filter resonance	
	72 - ENVELOPE Release	
	73 - ENVELOPE Attack	
	74 - Filter cutoff	
	75 - ENVELOPE Decay	
	76 - Vibrato rate	
	77 - Vibrato depth	
	78 - Vibrato delay	

MIDI IMPLEMENTATION

	84 - Portamento control	
	91 - Reverb send	
	93 - Chorus send	
	120 - All sound off	
	121 - Reset all controllers	
	123 - All note off	
	126 - Mono-mode	
	127 - Poly-mode	
RPN 0000H	BnH 65H 00H 64H 00H 06H vv	Pitch bend sensitive in semitone (default=2)
RPN 0001H Fine tune in cent	BnH 65H 00H 64H 01H 06H vv	vv=00 -100 vv=40H 0 vv=7FH +100
RPN 0002H Coarse tune half tone	BnH 65H 00H 64H 02H 06H vv	vv=00 -64 vv=40H 0 vv=7FH +64
NRPN 18rrH	BnH 63H 18H 62H rr 06H vv	Pitch coarse of perc. rr in semitone (vv=40H->no modif)
NRPN 1ArrH	BnH 63H 1AH 62H rr 06H vv	Level of perc. sound rr (vv=00 to 7FH)
NRPN 1CrrH	BnH 63H 1CH 62H rr 06H vv	Pan of perc. sound rr (40H = middle)
NRPN 1DrrH	BnH 63H 1DH 62H rr 06H vv	Reverb send level of perc rr (vv=00 to 7FH)
AUX AUDIO OUT	BnH 63H 38H 62H rr 06H vv	rr = MIDI channel - CH1 = 00 CH2 = 01 vv = 0 MAIN 127=AUX Example :Set CH1 to AUX - send 3 MIDI controllers: cc99 value 56 + cc98 value 00 + cc06 value 127
(Reverb return is fixed in Main out)		
Program Change :	0-127	* depends on sound board
System Exclusive:		
SYSEX	F0H 7EH 7FH 09H 01H F7H	General MIDI Reset
SYSEX	F0H 7FH 7FH 04H 01H 00H II F7H	Master volume (II=0 to 127, default 127)
SYSEX DSP1	F0h,41h,00h,42h,12h,40h,7Fh,7Fh,xxh,00h,F7h xxh=Effekt 00h=HALL1 01h=HALL2 02h=ROOM1 03h=ROOM2 04h=ROOM3" 05h=PLATE1 06h=PLATE2 07h=PLATE3 08h=CHORUS 09h=FLANGE 0Ah=DELAY1 0Bh=DELAY2 0Ch=CHORUS/ROOM1 0Dh=CHORUS/ROOM2 0Eh=VOCAL CANCEL 0Fh=ROTARY SPEAKER	
SYSEX DSP2	F0h,41h,00h,42h,12h,40h,01h,38h,xxh,00h,F7h	xxh=Effekt 0h=CHORUS 1 01h=CHORUS 2 02h=CHORUS 3 03h=CHORUS 4 04h=FEEDBACK 05h=FLANGER 06h=SHORT DELAY 07h=FB DELAY