Vienna Dimension Brass I

Trumpets, Player 1–4
Horns, Player 1–4
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Low Brass, Player 1–4

Contents

Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Vienna Instruments! This document contains the mapping information for the Vienna Dimension Brass. You will find in it a comprehensive survey of the articulations/Patches content and the mapping list proper which gives details for every Patch, Matrix, and Preset.

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary. Here's an overview of the articulations/Patches contained in this Collection:

Level 1:
Single notes: Staccato, portato normal and long, sustained normal and "blared", flutter tonguing
Dynamics: Crescendo and diminuendo strong (4 durations); fortepiano, sforzato, sforzatissimo
Interval performances: Legato, trills
Repetition performances: Legato, portato, staccato, normal and crescendo
Fast repetitions: 16ths at 140 to 180, and 200 BPM

Level 2:
Single notes: portato long, medium sustains piano and forte
Dynamics: Crescendo and diminuendo light (3 durations)
Interval performances: glissando

The velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements. The Patch information also lists the velocity layers in detail.

As the Patches in this Collection are the same for all the players of a group, only the first set is listed in this manual in lieu of all.

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like trills, marcato, and other articulations.

Interval performances contain at least two legato repetitions for every note which alternate automatically whenever you repeat a keystroke. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM. Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Matrix and Preset information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. VI PRO also allows you to define a MIDI Control for Preset keyswitching.

Vienna Instruments (VI) and Vienna Instruments PRO (VI PRO) Matrices and Presets

This Collection contains different Matrices and Presets for the free Vienna Instruments Player software and for Vienna Instruments PRO, which features powerful functions for enhancing the "human" sound of your compositions, distributing voices, etc. While Matrices and Presets of the same name contain the same Patches and samples, the PRO versions make use of these functions to create divisi setups, clusters on the same note by applying microtuning, chords with voices distributed among different instruments, etc.

Please note that Vienna Instruments PRO Matrices and Presets do not appear in the "standard" Vienna Instruments' file browser.

When using the Vienna Instruments PRO player, we strongly recommend loading the VI PRO Matrices and Presets, since only they make full use of the features of Vienna Instruments PRO.

Vienna Dimension Brass and Vienna Instruments PRO

Vienna Dimension Brass is optimized for Vienna Instruments PRO, allowing you to make full use of the software's powerful features. Here's a few tips to facilitate your workflow.

Panning

All the samples of this Collection are mono. In Vienna Instrument PRO's Mixer panel (Advanced View), this is shown by a single fader handle instead of the two handles of a stereo instrument. The Matrices of single instruments are set to center by default; in combined Matrices the first instrument is panned far left, the second half left, the third half right and the fourth one far right.

If you use combined Matrices/Presets in Vienna MIR, the stereo width will automatically be adapted to the width defined for the repective instrument on MIR's stage. Of course, you can also use single instrument Matrices and Presets to place each instrument in a dedicated position on your MIR venue.

With the Vienna Instruments PRO VST plug-in, you can use the instrument channel's stereo pan (or other panning devices, e.g. Vienna Suite's PowerPan) to define the stereo position and width of your combined Matrices and Presets. The same of course goes for Vienna Ensemble and Vienna Ensemble PRO.

In case you want to have special mixer settings for the instruments of a combined Matrix, you can define them in Vienna Instruments PRO and save the result as a custom Matrix – A tedious job made easier by the fact that Vienna Instruments PRO allows you to copy and paste mixer settings by right-clicking on a mixer channel!

Volume

Naturally, you can also set the volume of individual instruments within a combined Matrix to work out the special sound of one player or achieve special effects. Please note that Player #1 of each group always is the most precise one and therefore easier to handle as a soloist or predominant voice, while the other players' Humanize settings deviate more from playing exactly on the beat.

Humanize

In a Dimension Brass PRO Matrix, each instrument has its own Humanize settings, thus creating that slight deviation from hard sequencing that is so pleasant to our ears and further enhancing the "real instrument" effect. If you want to create your own Matrices, please make sure that the players have different Humanize settings for the same articulations – otherwise, the effect will be lost. Here, too, you can use copy and paste to transfer an existing instrument's Humanize settings to another one.

Single instruments and Divisi

As mentioned before, single instrument Matrices and Presets can be used whenever you want dedicated positions for every player, e.g., on a Vienna MIR stage. However, we also recommend employing them whenever there is complex polyphony involved, because it gives you more control over the individual players' voices. The predefined auto-divisi Matrices work best for chords without rhythmic differences between the players. For other purposes, you can also use the "all-compact PRO" Matrices' fixed divisi settings which contain sets of two players (1/2 and 3/4).

Please note that the auto-divisi Matrices do not contain any legato Patches because the voice assignments would not work properly with Interval performances.

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

01 Dimension Trumpets

Patches

01 Trumpet Player 1 (2/3/4)

Range: E3–C6

Level 1:
Single notes: staccato, portato, sustained normal and blaring, flutter tonguing
Dynamics: crescendo and diminuendo 1.5/2/3/4 sec.; fp, sfz, sffz
Interval performances: legato, trills
Repetition performances: legato, portato, staccato normal and crescendo
Fast repetitions: staccato, 140/150/160/170/180/200 BPM

Level 2:
Single notes: portato long, medium sustains piano and forte
Dynamics: light crescendo and diminuendo 1/2/3 sec.
Interval performances: glissando

01 Tr-P1_staccato	**Samples: 304**	**RAM: 9 MB**	**L1**

Single notes: Staccato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
4 Alternations

02 Tr-P1_portato	**Samples: 304**	**RAM: 9 MB**	**L1**

Single notes: Portato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
4 Alternations

02 Tr-P1_portato-long	**Samples: 320**	**RAM: 10 MB**	**L2**

Single notes: Portato, long
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
4 Alternations

03 Tr-P1_sus	**Samples: 334**	**RAM: 10 MB**	**L1**

Single notes: Sustained
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
Release samples
3 Alternations

04 Tr-P1_sus_blare	**Samples: 76**	**RAM: 2 MB**	**L1**

Single notes: Sustained, "blaring"
1 velocity layer
Release samples
3 Alternations

06 Tr-P1_sus-medium_p	**Samples: 240**	**RAM: 8 MB**	**L2**

Single notes: Medium sustains, soft
3 velocity layers: 0–55 pp; 56–108 p; 109–127 mp

Release samples
3 Alternations

07 Tr-P1_sus-medium_f	**Samples: 240**	**RAM: 8 MB**	**L2**

Single notes: Medium sustains, loud
3 velocity layers: 0–55 mf; 56–108 f; 109–127 ff
Release samples
3 Alternations

10 Tr-P1_dyn_1'5s	**Samples: 38**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 1.5 sec.
1 velocity layer
AB switch: crescendo/diminuendo

11 Tr-P1_dyn_2s	**Samples: 38**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

12 Tr-P1_dyn_3s	**Samples: 38**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

13 Tr-P1_dyn_4s	**Samples: 38**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

14 Tr-P1_dyn-light_1s/2s/3s	**Samples: 120**	**RAM: 4 MB**	**L2**

Dynamics: Light crescendo and diminuendo, 1/2/3 sec.
3 velocity layers: 0–55 mp/f; 56–108 mf/mf; 109–127 f/mp
AB switch: crescendo/diminuendo

20 Tr-P1_fp	**Samples: 57**	**RAM: 1 MB**	**L1**

Dynamics: Fortepiano
1 velocity layer
3 Alternations

21 Tr-P1_sfz	**Samples: 57**	**RAM: 1 MB**	**L1**

Dynamics: Sforzato
1 velocity layer
3 Alternations

22 Tr-P1_sffz	**Samples: 57**	**RAM: 1 MB**	**L1**

Dynamics: Sforzatissimo
1 velocity layer
3 Alternations

30 Tr-P1_flatter	**Samples: 38**	**RAM: 1 MB**	**L1**

Single notes: Flutter tonguing, sustained
1 velocity layer
Release samples

40 Tr-P1_perf-legato	**Samples: 937**	**RAM: 29 MB**	**L1**

Interval performances: Legato
Monophonic
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
Release samples

41 Tr-P1_perf-trill	**Samples: 1537**	**RAM: 48 MB**	**L1**

Interval performances: Trills, minor and major 2nd; all other intervals legato
Monophonic
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
Release samples

42 Tr-P1_perf-gliss	**Samples: 932**	**RAM: 30 MB**	**L2**

Interval performances: Glissando
2 velocity layers: 0–88 p; 89–127 f
Release samples

50 Tr-P1_perf-rep_leg	**Samples: 285**	**RAM: 8 MB**	**L1**

Repetition performances: Legato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

51 Tr-P1_perf-rep_leg-cre	**Samples: 95**	**RAM: 2 MB**	**L1**

Repetition performances: Legato crescendo, 5 repetitions
1 velocity layer

52 Tr-P1_perf-rep_por	**Samples: 513**	**RAM: 16 MB**	**L1**

Repetition performances: Portato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

53 Tr-P1_perf-rep_por-cre	**Samples: 171**	**RAM: 5 MB**	**L1**

Repetition performances: Portato crescendo, 9 repetitions
1 velocity layer

54 Tr-P1_perf-rep_sta	**Samples: 513**	**RAM: 16 MB**	**L1**

Repetition performances: Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

55 Tr-P1_perf-rep_sta-cre	**Samples: 171**	**RAM: 5 MB**	**L1**

Repetition performances: Staccato crescendo, 9 repetitions
1 velocity layer

60 Tr-P1_fast-rep_140 (150/160/170/180/200)	**Samples: 114**	**RAM: 3 MB**	**L1**

Fast repetitions: Staccato, 16 repetitions
16ths at 140 to 180, and 200 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples

Matrices

VI Matrix files

11 Tr-P1 compact (P2/P3/P4)   Samples: 2913   RAM: 91 MB   L1

Trumpet, player #1–#4
Single notes: staccato, portato, sustained
Interval performances: legato
Dynamics: fortepiano, sforzato, crescendo and diminuendo 2 and 4 sec.
Repetition performances: portato and staccato,
Fast repetitions at 160 BPM
Flutter tonguing

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
V1	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

21 Tr-P1 enhanced (P2/P3/P4)   Samples: 4786   RAM: 149 MB   L1

Trumpet, player #1–#4
Standard articulations

Matrix switches: Horizontal: Keyswitches, C1–A1   Vertical: Keyswitches, C2–E2

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
C2	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing
C#2	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–
D2	–	–	–	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–
D#2	–	–	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–
E2	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–

31 Tr-P1 Full (P2/P3/P4)   Samples: 7687   RAM: 241 MB   L2

Trumpet, player #1–#4
All articulations

Matrix switches: Horizontal: Keyswitches, C1–A#1   Vertical: Keyswitches, C2–E2

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
C2	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing	dyn. light 1 sec.
C#2	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–	dyn. light 2 sec.
D2	portato long	med. sus, soft	perf. glissando	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–	dyn. light 3 sec.
D#2	–	med. sus, loud	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–	–
E2	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–	–

VI PRO Matrix files

01 Tr-all_compact PRO   Samples: 11652   RAM: 364 MB   L1

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Vertical Keyswitches: All players, 3 players, Divisi #1+#2, Divisi #3+#4, Player #1

Matrix switches: Horizontal: Keyswitches, C1–B1   Vertical: Keyswitches, C2–E2

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
C2: All players	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing
C#2: 3 players	%	%	%	%	%	%	%	%	%	%	%	%
D2: Divisi #1	%	%	%	%	%	%	%	%	%	%	%	%
D#2: Divisi #2	%	%	%	%	%	%	%	%	%	%	%	%
E2: Player #1	%	%	%	%	%	%	%	%	%	%	%	%

02 Tr-all_enhanced PRO   Samples: 19144   RAM: 598 MB   L1

Enhanced Matrix layout, all players
Mixer settings: P1 far left, P2 left, P3 right, P4 far right

Matrix switches: Horizontal: Keyswitches, C1–A1   Vertical: Keyswitches, C2–E2

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
C2	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing
C#2	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–
D2	–	–	–	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–
D#2	–	–	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–
E2	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–

03 Tr-all_auto-divisi PRO   Samples: 9240   RAM: 288 MB   L1

Compact Matrix layout (without legato)
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Voices are automatically split between players
Patches have various Humanize settings

Vertical Keyswitches determine Voice assignments (4-part harmony):
C2: 1 player per note; C#2: 2 players per note;
D2: 3 players per note; D#2: unisono

Matrix switches: Horizontal: Keyswitches, C1–B1   Vertical: Keyswitches, C2–D#2

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
V1	staccato	portato	sustained	(empty)	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

03 Tr-all_Full PRO   Samples: 30748   RAM: 961 MB   L2

All articulations, all players
Patches have various Humanize settings

Matrix switches: Horizontal: Keyswitches, C1–A#1   Vertical: Keyswitches, C2–E2

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
C2	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing	dyn. light 1 sec.
C#2	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–	dyn. light 2 sec.
D2	portato long	med. sus, soft	perf. glissando	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–	dyn. light 3 sec.
D#2	–	med. sus, loud	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–	–
E2	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–	–

04 Tr-all_cluster PRO   Samples: 11652   RAM: 364 MB   L1

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right

Vertical Keyswitches determine Humanize settings:
C2: Cluster static (each voice detuned)
C#2: To Cluster (detuning after tuned attack)
D2: From Cluster (tuning in from detuned attack)

Matrix switches: Horizontal: Keyswitches, C1–B1   Vertical: Keyswitches, C2–D2

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
V1	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

11 Tr-P1 compact PRO (P2/P3/P4)   Samples: 2913   RAM: 91 MB   L1

Same as corresponding VI Matrix files
Patches have various Humanize settings

21 Tr-P1 enhanced PRO (P2/P3/P4)   Samples: 4786   RAM: 149 MB   L1

Same as corresponding VI Matrix files
Patches have various Humanize settings

31 Tr-P1 Full PRO (P2/P3/P4)   Samples: 7687   RAM: 241 MB   L2

Same as corresponding VI Matrix files
Patches have various Humanize settings

Presets

VI Presets

11P Tr-P1 compact (P2/P3/P4)   Samples: 2913   RAM: 91 MB   L1

Trumpet, player #1–#4
The Presets contain the "compact" Matrices of the same name

21P Tr-P1 enhanced (P2/P3/P4)   Samples: 4786   RAM: 149 MB   L1

Trumpet, player #1–#4
The Presets contain the "enhanced" Matrices of the same name

31P Tr-P1 Full (P2/P3/P4)   Samples: 7687   RAM: 241 MB   L2

Trumpet, player #1–#4
The Presets contain the "Full" Matrices of the same name

VI PRO Presets

01P Tr-all Universal PRO   Samples: 11652   RAM: 364 MB   L1

Combined Matrices: 01 Tr-all_compact PRO, 03 Tr-all_auto-divisi PRO, 04 Tr-all_cluster PRO,
Single instrument Matrices: 11 Tr-P1_compact PRO, 12 Tr-P2_compact PRO, 13 Tr-P3_compact PRO, 14 Tr-P4_compact PRO
Matrix keyswitches: G2-C#3

02P Tr-all enhanced PRO   Samples: 19144   RAM: 598 MB   L1

Matrix: 02 Tr-all_enhanced PRO

03P Tr-all_Full PRO   Samples: 30748   RAM: 961 MB   L2

Matrix: 03 Tr-all_Full PRO

11P Tr-P1 compact PRO (P2/P3/P4)   Samples: 2913   RAM: 91 MB   L1

Trumpet, player #1–#4
The Presets contain the "compact PRO" Matrices of the same name

21P Tr-P1 enhanced PRO (P2/P3/P4)   Samples: 4786   RAM: 149 MB   L1

The Presets contain the "enhanced PRO" Matrices of the same name

31P Tr-P1 Full PRO (P2/P3/P4)   Samples: 7687   RAM: 241 MB   L2

The Presets contain the "Full PRO" Matrices of the same name

05 Dimension Horns

Patches

01 Horn Player 1 (2/3/4)

Range: A#1–D5

Level 1

Single notes: staccato, portato, sustained normal and blaring, flutter tonguing
Dynamics: crescendo and diminuendo 1.5/2/3/4 sec.; fp, sfz, sffz
Interval performances: legato, trills
Repetition performances: legato, portato, staccato normal and crescendo
Fast repetitions: staccato, 140/150/160/170/180/200 BPM

Level 2:

Single notes: portato long, medium sustains piano and forte
Dynamics: light crescendo and diminuendo 1/2/3 sec.
Interval performances: glissando

01 Ho-P1_staccato	**Samples: 368**	**RAM: 11 MB**	**L1**

Single notes: Staccato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

02 Ho-P1_portato	**Samples: 368**	**RAM: 11 MB**	**L1**

Single notes: Portato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

02 Ho-P1_portato-long	**Samples: 384**	**RAM: 12 MB**	**L2**

Single notes: Portato, long
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
4 Alternations

03 Ho-P1_sus	**Samples: 424**	**RAM: 13 MB**	**L1**

Single notes: Sustained
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
3 Alternations

04 Ho-P1_sus_blare	**Samples: 92**	**RAM: 2 MB**	**L1**

Single notes: Sustained, "blaring"
1 velocity layer
Release samples
3 Alternations

06 Ho-P1_sus-medium_p	**Samples: 288**	**RAM: 9 MB**	**L2**

Single notes: Medium sustains, soft
3 velocity layers: 0–55 pp; 56–108 p; 109–127 mp

Release samples
3 Alternations

07 Ho-P1_sus-medium_f	**Samples: 288**	**RAM: 9 MB**	**L2**

Single notes: Medium sustains, loud
3 velocity layers: 0–55 mf; 56–108 f; 109–127 ff
Release samples
3 Alternations

10 Ho-P1_dyn_1'5s	**Samples: 46**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 1.5 sec.
1 velocity layer
AB switch: crescendo/diminuendo

11 Ho-P1_dyn_2s	**Samples: 46**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

12 Ho-P1_dyn_3s	**Samples: 46**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

13 Ho-P1_dyn_4s	**Samples: 46**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

14 Ho-P1_dyn-light_1s/2s/3s	**Samples: 144**	**RAM: 5 MB**	**L2**

Dynamics: Light crescendo and diminuendo, 1/2/3 sec.
3 velocity layers: 0–55 mp/f; 56–108 mf/mf; 109–127 f/mp
AB switch: crescendo/diminuendo

20 Ho-P1_fp	**Samples: 69**	**RAM: 2 MB**	**L1**

Dynamics: Fortepiano
1 velocity layer
3 Alternations

21 Ho-P1_sfz	**Samples: 69**	**RAM: 2 MB**	**L1**

Dynamics: Sforzato
1 velocity layer
3 Alternations

22 Ho-P1_sffz	**Samples: 69**	**RAM: 2 MB**	**L1**

Dynamics: Sforzatissimo
1 velocity layer
3 Alternations

30 Ho-P1_flatter		**Samples: 46**	**RAM: 1 MB**	**L1**

Single notes: Flutter tonguing, sustained
1 velocity layer
Release samples

40 Ho-P1_perf-legato	**Range: A#1–C5**	**Samples: 1160**	**RAM: 36 MB**	**L1**

Interval performances: Legato
Monophonic
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

41 Ho-P1_perf-trill	**Range: A#1–C5**	**Samples: 1880**	**RAM: 58 MB**	**L1**

Interval performances: Trills, minor and major 2nd; all other intervals legato
Monophonic
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

42 Ho-P1_perf-gliss		**Samples: 1174**	**RAM: 37 MB**	**L2**

Interval performances: Glissando
2 velocity layers: 0–88 p; 89–127 f
Release samples

50 Ho-P1_perf-rep_leg		**Samples: 345**	**RAM: 10 MB**	**L1**

Repetition performances: Legato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

51 Ho-P1_perf-rep_leg-cre		**Samples: 115**	**RAM: 3 MB**	**L1**

Repetition performances: Legato crescendo, 5 repetitions
1 velocity layer

52 Ho-P1_perf-rep_por		**Samples: 621**	**RAM: 19 MB**	**L1**

Repetition performances: Portato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

53 Ho-P1_perf-rep_por-cre		**Samples: 207**	**RAM: 6 MB**	**L1**

Repetition performances: Portato crescendo, 9 repetitions
1 velocity layer

54 Ho-P1_perf-rep_sta		**Samples: 621**	**RAM: 19 MB**	**L1**

Repetition performances: Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

55 Ho-P1_perf-rep_sta-cre		**Samples: 207**	**RAM: 6 MB**	**L1**

Repetition performances: Staccato crescendo, 9 repetitions
1 velocity layer

60 Ho-P1_fast-rep_140 (150/160/170/180/200)		**Samples: 138**	**RAM: 4 MB**	**L1**

Fast repetitions: Staccato, 16 repetitions
16ths at 140 to 180, and 200 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples

Matrices

VI Matrix files

11 Ho-P1 compact (P2/P3/P4) Samples: 3560   RAM: 111 MB   L1

Horn, player #1–#4
Single notes: staccato, portato, sustained
Interval performances: legato
Dynamics: fortepiano, sforzato, crescendo and diminuendo 2 and 4 sec.
Repetition performances: portato and staccato,
Fast repetitions at 160 BPM
Flutter tonguing

Matrix switches: Horizontal: Keyswitches, C6–B6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
V1	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

21 Ho-P1 enhanced (P2/P3/P4) Samples: 5827   RAM: 182 MB   L1

Horn, player #1–#4
All articulations

Matrix switches: Horizontal: Keyswitches, C6–A6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–
D7	–	–	–	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–
D#7	–	–	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–

31 Ho-P1 Full (P2/P3/P4) Samples: 9595   RAM: 300 MB   L2

Horn, player #1–#4
All articulations

Matrix switches: Horizontal: Keyswitches, C6–A#6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing	dyn. light 1 sec.
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–	dyn. light 2 sec.
D7	portato long	med. sus, soft	perf. glissando	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–	dyn. light 3 sec.
D#7	–	med. sus, loud	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–	–

VI PRO Matrix files

01 Ho-all_compact PRO   Samples: 14240   RAM: 445 MB   L1

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Vertical Keyswitches: All players, 3 players, Divisi #1+#2, Divisi #3+#4, Player #1

Matrix switches: Horizontal: Keyswitches, C6–B6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
C7: All players	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing
C#7: 3 players	%	%	%	%	%	%	%	%	%	%	%	%
D7: Divisi #1	%	%	%	%	%	%	%	%	%	%	%	%
D#7: Divisi #2	%	%	%	%	%	%	%	%	%	%	%	%
E7: Player #1	%	%	%	%	%	%	%	%	%	%	%	%

02 Ho-all_enhanced PRO   Samples: 23308   RAM: 728 MB   L1

Enhanced Matrix layout, all players
Mixer settings: P1 far left, P2 left, P3 right, P4 far right

Matrix switches: Horizontal: Keyswitches, C6–A6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–
D7	–	–	–	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–
D#7	–	–	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–

03 Ho-all_auto-divisi PRO   Samples: 11264   RAM: 352 MB   L1

Compact Matrix layout (without legato)
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Voices are automatically split between players
Patches have various Humanize settings

Vertical Keyswitches determine Voice assignments (4-part harmony):
C7: 1 player per note; C#7: 2 players per note;
D7: 3 players per note; D#7: unisono

Matrix switches: Horizontal: Keyswitches, C6–B6   Vertical: Keyswitches, C7–D#7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
V1	staccato	portato	sustained	(empty)	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

03 Ho-all_Full PRO **Samples: 38380   RAM: 1200 MB   L2**

All articulations, all players
Patches have various Humanize settings

Matrix switches: Horizontal: Keyswitches, C6–A#6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing	dyn. light 1 sec.
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–	dyn. light 2 sec.
D7	portato long	med. sus, soft	perf. glissando	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–	dyn. light 3 sec.
D#7	–	med. sus, loud	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–	–

04 Ho-all_cluster PRO **Samples: 14240   RAM: 445 MB   L1**

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right

Vertical Keyswitches determine Humanize settings:
C7: Cluster static (each voice detuned)
C#7: To Cluster (detuning after tuned attack)
D7: From Cluster (tuning in from detuned attack)

Matrix switches: Horizontal: Keyswitches, C6–B6   Vertical: Keyswitches, C7–D7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
V1	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

11 Ho-P1 compact PRO (P2/P3/P4) **Samples: 3560   RAM: 111 MB   L1**

Horn, player #1–#4
Same as corresponding VI Matrix files
Patches have various Humanize settings

21 Ho-P1 enhanced PRO (P2/P3/P4) **Samples: 5827   RAM: 182 MB   L1**

Horn, player #1–#4
Same as corresponding VI Matrix files
Patches have various Humanize settings

31 Ho-P1 Full PRO (P2/P3/P4) **Samples: 9595   RAM: 300 MB   L2**

Same as corresponding VI Matrix files
Patches have various Humanize settings

Presets

VI Presets

11P Ho-P1 compact (P2/P3/P4) Samples: 3560   RAM: 111 MB   L1

Horn, player #1–#4
The Presets contain the "compact" Matrices of the same name

21P Ho-P1 enhanced (P2/P3/P4) Samples: 5827   RAM: 182 MB   L1

Horn, player #1–#4
The Presets contain the "enhanced" Matrices of the same name

31P Ho-P1 PRO (P2/P3/P4) Samples: 9595   RAM: 300 MB   L2

Horn, player #1–#4
The Presets contain the "Full" Matrices of the same name

VI PRO Presets

01P Ho-all Universal PRO Samples: 14240   RAM: 445 MB   L1

Combined Matrices: 01 Ho-all_compact PRO, 03 Ho-all_auto-divisi PRO, 04 Ho-all_cluster PRO,
Single instrument Matrices: 11 Ho-P1_compact PRO, 12 Ho-P2_compact PRO, 13 Ho-P3_compact PRO, 14 Ho-P4_compact PRO
Matrix keyswitches: C1–F#1

02P Ho-all enhanced PRO Samples: 23308   RAM: 728 MB   L1

Matrix: 02 Ho-all_enhanced PRO

03P Ho-all_Full PRO Samples: 38380   RAM: 1200 MB   L2

Matrix: 03 Ho-all_Full PRO

11P Ho-P1 compact PRO (P2/P3/P4) Samples: 3560   RAM: 111 MB   L1

Horn, player #1–#4
The Presets contain the "compact PRO" Matrices of the same name

21P Ho-P1 enhanced PRO (P2/P3/P4) Samples: 5827   RAM: 182 MB   L1

Horn, player #1–#4
The Presets contain the "enhanced PRO" Matrices of the same name

31P Ho-P1 Full PRO (P2/P3/P4) Samples: 9595   RAM: 300 MB   L2

Horn, player #1–#4
The Presets contain the "Full PRO" Matrices of the same name

10 Dimension Trombones

Patches

01 Trombone Player 1 (2/3/4)

Range: C2–C5

Level 1:
Single notes: staccato, portato, sustained normal and blaring, flutter tonguing
Dynamics: crescendo and diminuendo 1.5/2/3/4 sec.; fp, sfz, sffz
Interval performances: legato, trills
Repetition performances: legato, portato, staccato normal and crescendo
Fast repetitions: staccato, 140/150/160/170/180/200 BPM
Level 2:
Single notes: portato long, medium sustains piano and forte
Dynamics: light crescendo and diminuendo 1/2/3 sec.
Interval performances: glissando

01 Tb-P1_staccato	**Samples: 320**	**RAM: 10 MB**	**L1**

Single notes: Staccato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

02 Tb-P1_portato	**Samples: 320**	**RAM: 10 MB**	**L1**

Single notes: Portato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

02 Tb-P1_portato-long	**Samples: 400**	**RAM: 13 MB**	**L2**

Single notes: Portato, long
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
4 Alternations

03 Tb-P1_sus	**Samples: 385**	**RAM: 12 MB**	**L1**

Single notes: Sustained
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
3 Alternations

04 Tb-P1_sus_blare	**Samples: 80**	**RAM: 2 MB**	**L1**

Single notes: Sustained, "blaring"
1 velocity layer
Release samples
3 Alternations

06 Tb-P1_sus-medium_p	**Samples: 240**	**RAM: 8 MB**	**L2**

Single notes: Medium sustains, soft
3 velocity layers: 0–55 pp; 56–108 p; 109–127 mp

Release samples
3 Alternations

07 Tb-P1_sus-medium_f	**Samples: 240**	**RAM: 8 MB**	**L2**

Single notes: Medium sustains, loud
3 velocity layers: 0–55 mf; 56–108 f; 109–127 ff
Release samples
3 Alternations

10 Tb-P1_dyn_1'5s	**Samples: 40**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 1.5 sec.
1 velocity layer
AB switch: crescendo/diminuendo

11 Tb-P1_dyn_2s	**Samples: 40**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

12 Tb-P1_dyn_3s	**Samples: 40**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

13 Tb-P1_dyn_4s	**Samples: 40**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

14 Tb-P1_dyn-light_1s/2s/3s	**Samples: 120**	**RAM: 4 MB**	**L2**

Dynamics: Light crescendo and diminuendo, 1/2/3 sec.
3 velocity layers: 0–55 mp/f; 56–108 mf/mf; 109–127 f/mp
AB switch: crescendo/diminuendo

20 Tb-P1_fp	**Samples: 60**	**RAM: 1 MB**	**L1**

Dynamics: Fortepiano
1 velocity layer
3 Alternations

21 Tb-P1_sfz	**Samples: 60**	**RAM: 1 MB**	**L1**

Dynamics: Sforzato
1 velocity layer
3 Alternations

22 Tb-P1_sffz	**Samples: 60**	**RAM: 1 MB**	**L1**

Dynamics: Sforzatissimo
1 velocity layer
3 Alternations

30 Tb-P1_flatter   Samples: 40   RAM: 1 MB   L1

Single notes: Flutter tonguing, sustained
1 velocity layer
Release samples

40 Tb-P1_perf-legato   Samples: 1033   RAM: 32 MB   L1

Interval performances: Legato
Monophonic
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

41 Tb-P1_perf-trill   Samples: 1673   RAM: 52 MB   L1

Interval performances: Trills, minor and major 2nd; all other intervals legato
Monophonic
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

42 Tb-P1_perf-gliss   Samples: 1295   RAM: 41 MB   L2

Interval performances: Glissando
2 velocity layers: 0–88 p; 89–127 f
Release samples

50 Tb-P1_perf-rep_leg   Samples: 300   RAM: 9 MB   L1

Repetition performances: Legato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

51 Tb-P1_perf-rep_leg-cre   Samples: 100   RAM: 3 MB   L1

Repetition performances: Legato crescendo, 5 repetitions
1 velocity layer

52 Tb-P1_perf-rep_por   Samples: 540   RAM: 16 MB   L1

Repetition performances: Portato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

53 Tb-P1_perf-rep_por-cre   Samples: 180   RAM: 5 MB   L1

Repetition performances: Portato crescendo, 9 repetitions
1 velocity layer

54 Tb-P1_perf-rep_sta   Samples: 540   RAM: 16 MB   L1

Repetition performances: Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

55 Tb-P1_perf-rep_sta-cre   Samples: 180   RAM: 5 MB   L1

Repetition performances: Staccato crescendo, 9 repetitions
1 velocity layer

60 Tb-P1_fast-rep_140 (150/160/170/180/200)   Samples: 120   RAM: 3 MB   L1

Fast repetitions: Staccato, 16 repetitions
16ths at 140 to 180, and 200 BPM
3 velocity layers: 0–55 p; 56–108 f; 109–127 ff
Release samples

Matrices

VI Matrix files

11 Tb-P1 compact (P2/P3/P4)   Samples: 3113   RAM: 97 MB   L1

Trombone, player #1–#4
Single notes: staccato, portato, sustained
Interval performances: legato
Dynamics: fortepiano, sforzato, crescendo and diminuendo 2 and 4 sec.
Repetition performances: portato and staccato,
Fast repetitions at 160 BPM
Flutter tonguing

Matrix switches: Horizontal: Keyswitches, C6–B6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
V1	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

21 Tb-P1 enhanced (P2/P3/P4)   Samples: 5101   RAM: 159 MB   L1

Trombone, player #1-#4
All articulations

Matrix switches: Horizontal: Keyswitches, C6–A6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–
D7	–	–	–	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–
D#7	–	–	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–

31 Tb-P1 Full (P2/P3/P4)   Samples: 8555   RAM: 268 MB   L2

Trombone, player #1–#4
All articulations

Matrix switches: Horizontal: Keyswitches, C6–A#6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing	dyn. light 1 sec.
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–	dyn. light 2 sec.
D7	portato long	med. sus, soft	perf. glissando	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–	dyn. light 3 sec.
D#7	–	med. sus, loud	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–	–

VI PRO Matrix files

01 Tb-all_compact PRO   Samples: 12452 RAM: 389 MB   L1

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Vertical Keyswitches: All players, 3 players, Divisi #1+#2, Divisi #3+#4, Player #1

Matrix switches: Horizontal: Keyswitches, C6–B6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
C7: All players	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing
C#7: 3 players	%	%	%	%	%	%	%	%	%	%	%	%
D7: Divisi #1	%	%	%	%	%	%	%	%	%	%	%	%
D#7: Divisi #2	%	%	%	%	%	%	%	%	%	%	%	%
E7: Player #1	%	%	%	%	%	%	%	%	%	%	%	%

02 Tb-all_enhanced PRO   Samples: 20404 RAM: 637 MB   L1

Enhanced Matrix layout, all players
Mixer settings: P1 far left, P2 left, P3 right, P4 far right

Matrix switches: Horizontal: Keyswitches, C6–A6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–
D7	–	–	–	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–
D#7	–	–	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–

03 Tb-all_auto-divisi PRO   Samples: 9860   RAM: 308 MB   L1

Compact Matrix layout (without legato)
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Voices are automatically split between players
Patches have various Humanize settings

Vertical Keyswitches determine Voice assignments (4-part harmony):
C7: 1 player per note; C#7: 2 players per note;
D7: 3 players per note; D#7: unisono

Matrix switches: Horizontal: Keyswitches, C6–B6   Vertical: Keyswitches, C7–D#7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
V1	staccato	portato	sustained	(empty)	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

03 Tb-all_Full PRO   **Samples: 34220   RAM: 1200 MB   L2**

All articulations, all players
Patches have various Humanize settings

Matrix switches: Horizontal: Keyswitches, C6–A#6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6
C7	staccato	sustained	legato	fp	dyn. 1.5sec.	legato reps.	portato reps.	staccato reps.	fast reps. 140 BPM	flutter tonguing	dyn. light 1 sec.
C#7	portato	sus. blared	perf. trills	sfz	dyn. 2 sec.	legato reps. cres	portato reps. cres	staccato reps. cres	fast reps. 150 BPM	–	dyn. light 2 sec.
D7	portato long	med. sus, soft	perf. glissando	sffz	dyn. 3 sec.	–	–	–	fast reps. 160 BPM	–	dyn. light 3 sec.
D#7	–	med. sus, loud	–	–	dyn. 4sec.	–	–	–	fast reps. 180 BPM	–	–
E7	–	–	–	–	–	–	–	–	fast reps. 200 BPM	–	–

04 Tb-all_cluster PRO   **Samples: 12452   RAM: 389 MB   L1**

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right

Vertical Keyswitches determine Humanize settings:
C7: Cluster static (each voice detuned)
C#7: To Cluster (detuning after tuned attack)
D7: From Cluster (tuning in from detuned attack)

Matrix switches: Horizontal: Keyswitches, C6–B6   Vertical: Keyswitches, C7–D7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
V1	staccato	portato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions	fast reps. 160 BPM	flutter tonguing

11 Tb-P1 compact PRO (P2/P3/P4)   **Samples: 3113   RAM: 97 MB   L1**

Trombone, player #1–#4
Same as corresponding VI Matrix files
Patches have various Humanize settings

21 Tb-P1 enhanced PRO (P2/P3/P4)   **Samples: 5101   RAM: 159 MB   L1**

Trombone, player #1–#4
Same as corresponding VI Matrix files
Patches have various Humanize settings

31 Tb-P1 Full PRO (P2/P3/P4)   **Samples: 8555   RAM: 1070 MB   L2**

Same as corresponding VI Matrix files
Patches have various Humanize settings

Presets

VI Presets

11P Tb-P1 compact (P2/P3/P4)   Samples: 3113   RAM: 97 MB   L1
Trombone, player #1–#4
The Presets contain the "compact" Matrices of the same name

21P Tb-P1 enhanced (P2/P3/P4)   Samples: 5101   RAM: 159 MB   L1
Trombone, player #1–#4
The Presets contain the "enhanced" Matrices of the same name

31P Tb-P1 Full (P2/P3/P4)   Samples: 8555   RAM: 268 MB   L2
Trombone, player #1–#4
The Presets contain the "Full" Matrices of the same name

VI PRO Presets

01P Tb-all Universal PRO   Samples: 12452   RAM: 389 MB   L1
Combined Matrices: 01 Tb-all_compact PRO, 03 Tb-all_auto-divisi PRO, 04 Tb-all_cluster PRO,
Single instrument Matrices: 11 Tb-P1_compact PRO, 12 Tb-P2_compact PRO, 13 Tb-P3_compact PRO, 14 Tb-P4_compact PRO
Matrix keyswitches: C1–F#1

02P Tb-all enhanced PRO   Samples: 20404   RAM: 637 MB   L1
Matrix: 02 Tb-all_enhanced PRO

03P Tb-all_Full PRO   Samples: 34220   RAM: 1070 MB   L2
Matrix: 03 Tb-all_Full PRO

11P Tb-P1 compact PRO (P2/P3/P4)   Samples: 3113   RAM: 97 MB   L1
Trombone, player #1–#4
The Presets contain the "compact PRO" Matrices of the same name

21P Tb-P1 enhanced PRO (P2/P3/P4)   Samples: 5101   RAM: 159 MB   L1
Trombone, player #1–#4
The Presets contain the "enhanced PRO" Matrices of the same name

31P Tb-P1 Full PRO (P2/P3/P4)   Samples: 8555   RAM: 268 MB   L2
Trombone, player #1–#4
The Presets contain the "Full PRO" Matrices of the same name

15 Dimension Low Brass

Patches

01 Low Brass - Trombone 1 (Trombone 2/Bass trombone/Tuba)

Range: A#1–C4

Level 1:
Single notes: staccato, sustained
Dynamics: crescendo and diminuendo 2 and 3 sec., fortepiano, sforzato
Interval performances: trills
Repetition performances: portato, staccato

01 LB-P1_staccato	**Samples: 180**	**RAM: 5 MB**	**L1**

Single notes: Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

02 LB-P1_sus	**Samples: 216**	**RAM: 6 MB**	**L1**

Single notes: Sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
3 Alternations

10 LB-P1_dyn_2s	**Samples: 30**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

11 LB-P1_dyn_3s	**Samples: 30**	**RAM: 1 MB**	**L1**

Dynamics: Crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

20 LB-P1_fp	**Samples: 45**	**RAM: 1 MB**	**L1**

Dynamics: Fortepiano
1 velocity layer
3 Alternations

21 LB-P1_sfz	**Samples: 45**	**RAM: 1 MB**	**L1**

Dynamics: Sforzato
1 velocity layer
3 Alternations

40 LB-P1_perf-legato	**Samples: 312**	**RAM: 9 MB**	**L1**

Interval performances: Legato
Monophonic
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

| **41 LB-P1_perf-trill** | **Samples: 792** | **RAM: 24 MB** | **L1** |

Interval performances: Trills, minor and major 2nd; all other intervals legato
Monophonic
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

| **50 LB-P1_perf-rep_por** | **Samples: 270** | **RAM: 8 MB** | **L1** |

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

| **51 LB-P1_perf-rep_sta** | **Samples: 270** | **RAM: 8 MB** | **L1** |

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

Matrices

VI Matrix files

11 LB-P1 compact (P2/P3/P4)   Samples: 1182   RAM: 36 MB   L1

Low Brass, player #1–#4
Single notes: staccato, sustained
Interval performances: legato
Dynamics: fortepiano, sforzato, crescendo and diminuendo 2 and 3 sec.
Repetition performances: portato and staccato

Matrix switches: Horizontal: Keyswitches, C6–A6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
V1	staccato	staccato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions

VI PRO Matrix files

01 LB-all_compact PRO   Samples: 4728   RAM: 147 MB   L1

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Vertical Keyswitches: All players, 3 players, Divisi #1+#2, Divisi #3+#4, Player #1

Matrix switches: Horizontal: Keyswitches, C6–A6   Vertical: Keyswitches, C7–E7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
C7: All players	staccato	staccato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions
C#7: 3 players	%	%	%	%	%	%	%	%	%	%
D7: Divisi #1	%	%	%	%	%	%	%	%	%	%
D#7: Divisi #2	%	%	%	%	%	%	%	%	%	%
E7: Player #1	%	%	%	%	%	%	%	%	%	%

03 LB-all_auto-divisi PRO   Samples: 4344   RAM: 135 MB   L1

Compact Matrix layout (without legato)
Mixer settings: P1 far left, P2 left, P3 right, P4 far right
Voices are automatically split between players
Patches have various Humanize settings

Vertical Keyswitches determine Voice assignments (4-part harmony):
C7: 1 player per note; C#7: 2 players per note;
D7: 3 players per note; D#7: unisono

Matrix switches: Horizontal: Keyswitches, C6–A6   Vertical: Keyswitches, C7–D#7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
V1	staccato	staccato	sustained	(empty)	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions

04 LB-all_cluster PRO   **Samples: 4728   RAM: 147 MB   L1**

Compact Matrix layout
Mixer settings: P1 far left, P2 left, P3 right, P4 far right

Vertical Keyswitches determine Humanize settings:
C7: Cluster static (each voice detuned)
C#7: To Cluster (detuning after tuned attack)
D7: From Cluster (tuning in from detuned attack)

Matrix switches: Horizontal: Keyswitches, C6–A6   Vertical: Keyswitches, C7–D7

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
V1	staccato	staccato	sustained	legato	fortepiano	sforzato	dyn. 2 sec.	dyn. 3 sec.	portato repetitions	staccato repetitions

11 LB-P1 compact PRO (P2/P3/P4)   **Samples: 1182   RAM: 36 MB   L1**

Low Brass, player #1–#4
Same as corresponding VI Matrix files
Patches have various Humanize settings

Presets

VI Presets

11P LB-P1 compact (P2/P3/P4) Samples: 1182 RAM: 36 MB L1

Low Brass, player #1–#4
The Presets contain the "compact" Matrices of the same name

VI PRO Presets

01P LB-all Universal PRO Samples: 4728 RAM: 147 MB L1

Combined Matrices: 01 LB-all_compact PRO, 03 LB-all_auto-divisi PRO, 04 LB-all_cluster PRO,
Single instrument Matrices: 11 LB-P1_compact PRO, 12 LB-P2_compact PRO, 13 LB-P3_compact PRO,
14 LB-P4_compact PRO
Matrix keyswitches: C1–F#1

11P LB-P1 compact PRO (P2/P3/P4) Samples: 1182 RAM: 36 MB L1

Low Brass, player #1–#4
The Presets contain the "compact PRO" Matrices of the same name