

hangblog

For those interested in knowing more about the PANArt Hang
Für alle, die mehr über das PANArt Hang wissen möchten

[Hang Library \(en\)](#) / [Hangbibliothek \(de\)](#)

[Hang Blog / Hangblog \(en\)](#) [\(de\)](#)

Hang Sound Models

Author: Michael Paschko

© Copyright by the author – All rights reserved

First published at www.hangblog.org, June 6th, 2008

Last Update: January 19th, 2009

Original language: English

An overview on the different Hang Sound Models offered by PANArt 2002 – 2008 for the first generation Hang, the Low Hang, the second generation Hang and the Integral Hang

If you are looking for an overview on the different [Hang Sound Models](#) there are some places online that list notations and sound files. However these references are not fully representative of all the variations that have taken place. Until now no information about Low Hang Sound Models from 2005 has been available. Also some discrepancies between notations and sound files in published Sound Model lists exist on some sites. Another lack is a general overview about the [Second Generation](#) Hang Sound Models made in 2006 and 2007.

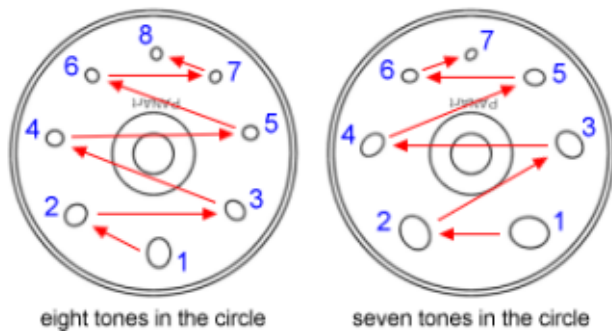
To learn more about Sound Models I started a systematic research on all available references. An important source is [PANArt's](#) former website. A number of versions of www.hang.ch are archived by web.archive.org. So it was possible to find older PANArt Sound Model lists. Although the sound files were not archived by web.archive.org and the lists sometimes don't indicate the whole scales of the [tone circle](#), it was possible to reconstruct the complete scales by comparing the lists on the former PANArt website with notations and sound files from other sources.

The first Sound Model list was published when PANArt started their new website www.hang.ch in spring 2002. Thirty sound models were offered at that time. In spring 2004 the Sound Models were updated. At that point 45 scales were listed on their website. The first 30 were similar to the models from 2002 but some of them were transposed or modified. In spring 2005 the Hang makers published a new listing with sound models broken out for the Low Hang. The website at that point listed 14 Sound Models in [high voice](#) and 13 Sound Models in [low voice](#).

Aside from these officially published Sound Models PANArt also tuned custom and experimental Sound Models. These Sound Models were not documented in any public lists. I also found that some online references contain Sound Model variants not officially offered on the PANArt website but that were likely available through [Hang distributors](#).

For the second generation Hang (2006 – 2007) Hang Makers left the world of ethno musicological scales. They created a sound structure based on a [Ding](#) tuned to D3 and tuned half of the tones according to artistic discretion. No lists of available Sound Models were published but customers had to choose their instruments personally in the [Hanghaus](#) in Bern. Finally for the [Integral Hang](#) introduced in early 2008 Hang makers offered only one Sound Model.

**Positions of the numbered tone fields
indicated in the tables**



The following lists are constructed from the multiple available references I was able to locate. In the last column of these tables is a reference to where each Sound Model was found. At the end of the article is a [footnote](#) listing the sources and the numbers used in the Reference field.

You can listen to sound examples of the first generation sound models in the [references No. 5 and 7](#).

- [First Generation Sound Models 2002](#)
lists the 30 scales offered in spring 2002 at www.hang.ch.
- [First Generation Sound Models 2004](#)
lists the 45 updated scales offered in spring 2004 at www.hang.ch.
- [Low Hang Sound Models 2005](#)
includes all Sound Models offered as Low Hang in 2005 at www.hang.ch.
- [First Generation Sound Model Variants](#)
shows 9 Sound Model variants documented from sources other than www.hang.ch.
- [Overview: All Sound Model Variants 2002-2005](#)
can be used as reference for all Sound Models offered and published 2002-2005. You can compare the existing variants of each Sound Model to see the differences.
- [Second Generation Sound Models 2006-2007](#)
is an incomplete list of second generation Sound Models culled from several sources.
- [Sound Model of the Integral Hang](#)
indicates the single Sound Model of the Integral Hang.
- [References](#)
specifies all references used for these lists.

First Generation Sound Models 2002

These 30 Sound Models were offered when PANArt started their website www.hang.ch in spring 2002. All had 8 notes in the tone circle. A3 Dings and G3 Dings numbered fourteen Sound Models each, and there were two with F3 dings.

No.	Name	Ding	1	2	3	4	5	6	7	8	Reference
1	Aeolian	A3	D4	E4	F4	G4	A4	Bb4	C5	D5	1,4,5,6,7
2	Ake Bono	G3	C4	D4	Eb4	G4	Ab4	C5	D5	Eb5	1,4,5,6,7
3	Banshiki-Cho	F3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	F5	1,4,5,6,7
4	Bayati	A3	D4	E*4	F4	G4	A4	Bb4	C5	D5	1,4,5,6,7
5	Dorian	A3	D4	E4	F4	G4	A4	B4	C5	D5	1,4,5,6
6	Harmonic minor	A3	D4	E4	F4	G4	A4	Bb4	C#5	D5	1,4,5,6,7
7	Hitzaz	A3	D4	Eb4	F#4	G4	A4	Bb4	C5	D5	1,4,5,6,7
8	Hitzazkiar / Persian Scale	A3	D4	Eb4	F#4	G4	A4	Bb4	C#5	D5	1,4,5,6,7
9	Hungarian major	A3	C4	D4	F4	Eb4	Gb4	Ab4	A4	C5	1,4,5,6,7

13	Kourd- Atar / Todi	G3	C4	Db4	Eb4	F#4	G4	Ab4	B4	C5	1,4,5,6
14	Lydian Yu-Diao /	G3	C3	D4	E4	F#4	G4	A4	B4	C5	1,4,5,6
15	Minor Penta	G3	C4	Eb4	F4	G4	Bb4	C5	Eb5	F5	1,4,5,6,7
16	Neveseri	A3	D4	Eb4	F4	Gb4	A4	Bb4	C5	Db5	1,4,5,6,7
17	Niavent	A3	D4	E4	F4	G#4	A4	Bb4	C#5	D5	1,4,6
18	Nirz Rast Gong- Diao /	G3	C4	D4	E*4	F4	G4	A*4	Bb4	C5	1,4,5,6,7
19	Pentatonic C Zhi-Diao /	G3	C4	D4	E4	G4	A4	C5	D5	E5	1,4,5,6,7
20	Pentatonic F	F3	C4	D4	F4	G4	A4	C5	D5	F5	1,4,5,6,7
21	Pelog	G3	C4	+125 Cts	+266 Cts	+563 Cts	+676 Cts	+800 Cts	+965 Cts	+1220 Cts	1,4,5,6,7
22	Purvi	A3	D4	Eb4	F#4	G#4	A4	Bb4	C#5	D5	1,4,6
23	Pygmy	G3	C4	D4	Eb4	G4	Bb4	C5	D5	Eb5	1,4,5,6,7
24	Rast	G3	C4	D4	E*4	F4	G4	A4	B*4	C5	1,4,5,6,7
25	Rumanikos	A3	D4	E4	F4	G#4	A4	B4	C5	D5	1,4,5,6
26	Sabah	A3	D4	E4	F4	Gb4	A4	Bb4	C5	C#5	1,4,5,6,7
27	Sadjagrama	G3 +9Cts	C4	D4 -36Cts	Eb4 -27Cts	F4 -9Cts	G4 +9Cts	A4 -27Cts	Bb4 -18Cts	C5	1,4,5,6,7
28	Segiah	A3	D4	F4	F#4	G4	A4	Bb4	C#5	D5	1,4,5,6,7
29	Sho	G3	C4	D4	Eb4	F4	G4	A4	C5	D5	1,4,6
30	Slendro	G3	C4	+218 Cts	+473 Cts	+721 Cts	+954 Cts	+1213 Cts	+1458 Cts	+1695 Cts	1,4,5,6,7

* = 1 [quarter tone](#) lower

Cts = [Cents](#) (1200 Cts = 1 octave, 100 Cts = 1 semitone)

First Generation Sound Models 2004

In 2004 PANArt offered 15 additional Sound Models on www.hang.ch and modified some of the prior 30 scales. The sound of the Dings shifted toward the lower tones (1 x Bb3, 13 x A3, 19 x G3, 12 x F3).

No.	Name	Ding	1	2	3	4	5	6	7	8	Reference
1	Aeolian	A3	D4	E4	F4	G4	A4	Bb4	C5	D5	2,4,5,6,7
2	Ake Bono Yue-Diao /	G3	C4	D4	Eb4	G4	Ab4	C5	D5	Eb5	2,4,5,6,7
3	Banshiki- Cho	F3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	F5	2,4,5,6,7
4	Bayati	A3	D4	E*4	F4	G4	A4	Bb4	C5	D5	2,4,5,6,7
5	Dorian	G3	C4	D4	Eb4	F4	G4	A4	Bb4	C5	2,7
6	Harmonic minor	A3	D4	E4	F4	G4	A4	Bb4	C#5	D5	2,4,5,6,7
7	Hijaz	A3	D4	Eb4	F#4	G4	A4	Bb4	C5	D5	2,4,5,6,7
8	Hijaz kar	A3	D4	Eb4	F#4	G4	A4	Bb4	C#5	D5	2,4,5,6,7
9	Hungarian major	A3	C4	D4	F4	Eb4	Gb4	Ab4	A4	C5	2,4,5,6,7
10	Huzam	A3	D4	F4	F#4	G4	A4	B4	C#5	D5	2,4,5,6,7
11	Ionian	F3	Bb3	C4	D4	Eb4	F4	G4	A4	Bb4	2,4,5,7

	1001										
14	Lydian Yu-Diao /	F3	Bb3	C4	D4	E4	F4	G4	A4	Bb4	2
15	Minor Penta	G3	C4	Eb4	F4	G4	Bb4	C5	Eb5	F5	2,4,5,6,7
16	Neveseri	A3	D4	Eb4	F4	Gb4	A4	Bb4	C5	Db5	2,4,5,6,7
17	Niavent	A3	D4	E4	F4	G#4	A4	Bb4	C#5	D5	2,4,6
18	Nirz Rast Gong- Diao /	G3	C4	D4	E*4	F4	G4	A*4	Bb4	C5	2,4,5,6,7
19	Pentatonic C Zhi-Diao /	G3	C4	D4	E4	G4	A4	C5	D5	E5	2,4,5,6,7
20	Pentatonic F	F3	C4	D4	F4	G4	A4	C5	D5	F5	2,4,5,6,7
21	Pelog	G3	C4	+125 Cts	+266 Cts	+563 Cts	+676 Cts	+800 Cts	+965 Cts	+1220 Cts	2,4,5,6,7
22	Purvi	A3	D4	Eb4	F#4	G#4	A4	Bb4	C#5	D5	2,4,6
23	Pygmy	G3	C4	D4	Eb4	G4	Bb4	C5	D5	Eb5	2,4,5,6,7
24	Rast	G3	C4	D4	E*4	F4	G4	A4	B*4	C5	2,4,5,6,7
25	Rumanikos	G3	C4	D4	Eb4	F#4	G4	A4	Bb4	C5	2,7
26	Sabah	A3	D4	E4	F4	Gb4	A4	Bb4	C5	C#5	2,4,5,6,7
27	Sadjagrama	G3 +9Cts	C4	D4 -36Cts	Eb4 -27Cts	F4 -9Cts	G4 +9Cts	A4 -27Cts	Bb4 -18Cts	C5	2,4,5,6,7
28	Segiah	A3	D4	F4	F#4	G4	A4	Bb4	C#5	D5	2,4,5,6,7
29	Sho	G3	C4	D4	Eb4	F4	G4	A4	C5	D5	2,4,6
30	Slendro	G3	C4	+218 Cts	+473 Cts	+721 Cts	+954 Cts	+1213 Cts	+1458 Cts	+1695 Cts	2,4,5,6,7
31	Blues	G3	C4	Eb4	F4	F#4	G4	Bb4	C5	Eb5	2,6,7
32	Goonkali	G3	C4	Db4	F4	G4	A4b	C5	Db5	F5	2,6,7
33	Iwato	F3	C4	Db4	F4	Gb4	Bb4	C5	Db5	F5	2,6,7
34	Kumoi	G3	C4	D4	Eb4	G4	A4	C5	D5	Eb5	2,6,7
35	Locrian	F3	C4	Db4	Eb4	F4	Gb4	Ab4	Bb4	C5	2,6,7
36	Madhyama- grama	F3	C4	D4 -36Cts	Eb4 -27Cts	F4 -9Cts	G4 -45Cts	A4 -27Cts	Bb4 -18Cts	C5	2
37	Magen Abot	Bb3	D4	Eb4	F4	Gb4	Ab4	Bb4	C#5	D5	2,4,6,7
38	Melog / Selisir	F3	A3	Bb3	C4	E4	F4	A4	Bb4	C5	2,4,6,7
39	Mixolydian	G3	C4	D4	E4	F4	G4	A4	Bb4	C5	2,4,6,7
40	Overtone Scale	G3	C4	E4 -14Cts	G4 +2Cts	Bb4 -31Cts	C5	D5 +4Cts	E5 -14Cts	F5 +51Cts	2,4,7
41	Noh	F3	Bb3	C4	Eb4	F4	F#4	G4	A4	Bb4	2,7
42	Phrygian	G3	C4	Db4	Eb4	F4	G4	Ab4	Bb4	C5	2,7
43	Pyeong Jo	F3	C4	D4	F4	A4	Bb4	C5	D5	F5	2,4,6,7
44	Shang-Diao	F3	Bb3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	2,4,6,7
45	Zokuso	F3	C4	Db4	F4	Gb4	Ab4	C5	Db5	F5	2,7

* = 1 [quarter tone](#) lower

Cts = [Cents](#) (1200 Cts = 1 octave, 100 Cts = 1 semitone)

Low Hang Sound Models 2005

The Low Hang was built in high voice with 8 tone fields in the circle and in low voice with 7 tone fields in the circle. A new tuning process with intermittent heating of the upper hemisphere of the Hang enabled the tuning of

lower tones in a refined quality. All Low Hang Sound Models listed on www.hang.ch had a Ding in F. 14 sound models in high voice and 13 Sound Models in low voice were offered in 2005. However the older scales were available too.

Name	Ding	1	2	3	4	5	6	7	8	Reference
------	------	---	---	---	---	---	---	---	---	-----------

High Voice (8 tone fields in the circle)

Gong-Diao	F3	Bb3	C4	D4	F4	G4	Bb4	C5	D5	3,8
Shang-Diao	F3	Bb3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	3,8
Yue-Diao	F3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	F5	3,8
Zhi-Diao	F3	C4	D4	F4	G4	A4	C5	D5	F5	3,8
Yu-Diao	F3	Bb3	Db4	Eb4	F4	Ab4	Bb4	Db5	Eb5	3,8
Ake Bono-Joshi	F3	Bb3	C4	Db4	F4	Gb4	Bb4	C5	Db5	3,8
Iwato-Joshi	F3	C4	Db4	F4	Gb4	Bb4	C5	Db5	F5	3,8
Goonkali	F3	C4	Db4	F4	G4	Ab4	C5	Db5	F5	3,8
Pygmy	F3	Bb3	C4	Db4	F4	Ab4	Bb4	C5	Db5	3,8
Pyeong Yo	F3	C4	D4	F4	A4	Bb4	C5	D5	F5	3,8
Kumoi-Joshi	F3	Bb3	C4	Db4	F4	G4	Bb4	C5	Db5	3,8
Kokin-Joshi	F3	C4	Db4	F4	G4	Bb4	C5	Db5	F5	3,8
Zokuso-Joshi	F3	C4	Db4	F4	Gb4	Ab4	C5	Db5	F5	3,8
Melog	F3	A3	Bb3	C4	E4	F4	A4	Bb4	C5	3,8

Low Voice (7 tone fields in the circle)

Gong-Diao	F3	G3	A3	C4	D4	F4	G4	A4		3,8
Shang-Diao	F3	G3	Bb3	C4	Eb4	F4	G4	Bb4		3,8
Yue-Diao	F3	Ab3	Bb3	Db4	Eb4	F4	Ab4	Bb4		3,8
Zhi-Diao	F3	G3	Bb3	C4	D4	F4	G4	Bb4		3,8
Yu-Diao	F3	Ab3	Bb3	C4	Eb4	F4	Ab4	Bb4		3,8
Ake Bono-Joshi	F3	G3	Ab3	C4	Db4	F4	G4	Ab4		3,8
Iwato-Joshi	F3	Gb3	Bb3	B3	Eb4	F4	Gb4	Bb4		3,8
Goonkali	F3	Gb3	Bb3	C4	Db4	F4	Gb4	Bb4		3,8
Pygmy	F3	G3	Ab3	C4	Eb4	F4	G4	Ab4		3,8
Pyeong Yo	F3	G3	Bb3	D4	Eb4	F4	G4	Bb4		3,8
Kumoi-Joshi	F3	G3	Ab3	C4	D4	F4	G4	Ab4		3,8
Kokin-Joshi	F3	Gb3	Bb3	C4	Eb4	F4	Gb4	Bb4		3,8
Zokuso-Joshi	F3	Gb3	Bb3	B3	Db4	F4	Gb4	Bb4		3,8

First Generation Sound Model Variants

These 9 modifications of Sound Models are listed in some references but not on www.hang.ch.

No.	Name	Ding	1	2	3	4	5	6	7	8	Reference
17	Niavent	G3	C4	D4	Eb4	F#4	G4	Ab4	B4	C5	5,7
22	Purvi	Ab	C	Db	E	F#	G	Ab	B	C	5,7
29	Sho	A3	C4	D4	Eb4	F4	G4	A4	C5	D5	5,7
35	Locrian	E3	B3	C4	D4	E4	F4	G4	A4	B4	4,6
36	Madhyama-grama	G3	C4	D4	Eb4	F4	G4	A4	Bb4	C5	4,6,7
				-36Cts	-27Cts	-9Cts	-45Cts	-27Cts	-18Cts		
40	Overtone Scale	Bb3	D4	Eb4	F4	Gb4	Ab4	Bb4	C#5	D5	6

Overview: All Sound Model Variants 2002-2005

The following table lists all Sound Model variants in the three tables above. You can compare the existing variants of each sound model to see the differences.

No.	Name	Year	Ding	1	2	3	4	5	6	7	8	Reference
1	Aeolian	2002/04	A3	D4	E4	F4	G4	A4	Bb4	C5	D5	1,2,4,5,6,7
2	Ake Bono	2002/04	G3	C4	D4	Eb4	G4	Ab4	C5	D5	Eb5	1,2,4,5,6,7
	Ake Bono-Joshi (high)	2005	F3	Bb3	C4	Db4	F4	Gb4	Bb4	C5	Db5	3,8
	Ake Bono-Joshi (low)	2005	F3	G3	Ab3	C4	Db4	F4	G4	Ab4		3,8
3	Yue-Diao / Banshiki-Cho	2002/04	F3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	F5	1,2,4,5,6,7
	Yue-Diao (high)	2005	F3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	F5	3,8
	Yue-Diao (low)	2005	F3	Ab3	Bb3	Db4	Eb4	F4	Ab4	Bb4		3,8
4	Bayati	2002/04	A3	D4	E*4	F4	G4	A4	Bb4	C5	D5	1,2,4,5,6,7
5	Dorian	2002	A3	D4	E4	F4	G4	A4	B4	C5	D5	1,4,5,6
5	Dorian	2004	G3	C4	D4	Eb4	F4	G4	A4	Bb4	C5	2,7
6	Harmonic minor	2002/04	A3	D4	E4	F4	G4	A4	Bb4	C#5	D5	1,2,4,5,6,7
7	Hijaz / Hitzaz	2002/04	A3	D4	Eb4	F#4	G4	A4	Bb4	C5	D5	1,2,4,5,6,7
8	Hijaz kar / Hitzazkiar	2002/04	A3	D4	Eb4	F#4	G4	A4	Bb4	C#5	D5	1,2,4,5,6,7
9	Hungarian major	2002/04	A3	C4	D4	F4	Eb4	Gb4	Ab4	A4	C5	1,2,4,5,6,7
10	Huzam	2002/04	A3	D4	F4	F#4	G4	A4	B4	C#5	D5	1,2,4,5,6,7
11	Ionian	2002	G3	C4	D4	E4	F4	G4	A4	B4	C5	1,4,5,6
11	Ionian	2004	F3	Bb3	C4	D4	Eb4	F4	G4	A4	Bb4	2,4,5,7
12	Kokin-Choshi	2002/04	G3	C4	Db4	F4	G4	Bb4	C5	Db5	F5	1,2,4,5,6,7
	Kokin-Joshi (high)	2005	F3	C4	Db4	F4	G4	Bb4	C5	Db5	F5	3,8
	Kokin-Joshi (low)	2005	F3	Gb3	Bb3	C4	Eb4	F4	Gb4	Bb4		3,8
13	Kourd-Atar / Todi	2002	G3	C4	Db4	Eb4	F#4	G4	Ab4	B4	C5	1,4,5,6
13	Kourd-Atar / Todi	2004	A3	D4	Eb4	F4	G#4	A4	Bb4	C#5	D5	2,7
14	Lydian	2002	G3	C3	D4	E4	F#4	G4	A4	B4	C5	1,4,5,6
14	Lydian	2004	F3	Bb3	C4	D4	E4	F4	G4	A4	Bb4	2
15	Yu-Diao / Minor Penta	2002/04	G3	C4	Eb4	F4	G4	Bb4	C5	Eb5	F5	1,2,4,5,6,7
	Yu-Diao (high)	2005	F3	Bb3	Db4	Eb4	F4	Ab4	Bb4	Db5	Eb5	3,8

17	Niavent	2002/04	G3	C4	D4	Eb4	F#4	G4	Ab4	B4	C5	1,2,3,5,6,7
18	Nirz Rast	2002/04	G3	C4	D4	E*4	F4	G4	A*4	Bb4	C5	1,2,4,5,6,7
19	Gong-Diao / Pentatonic C	2002/04	G3	C4	D4	E4	G4	A4	C5	D5	E5	1,2,4,5,6,7
	Gong-Diao (high)	2005	F3	Bb3	C4	D4	F4	G4	Bb4	C5	D5	3,8
	Gong-Diao (low)	2005	F3	G3	A3	C4	D4	F4	G4	A4		3,8
20	Zhi-Diao / Pentatonic F	2002/04	F3	C4	D4	F4	G4	A4	C5	D5	F5	1,2,4,5,6,7
	Zhi-Diao (high)	2005	F3	C4	D4	F4	G4	A4	C5	D5	F5	3,8
	Zhi-Diao (low)	2005	F3	G3	Bb3	C4	D4	F4	G4	Bb4		3,8
21	Pelog	2002/04	G3	C4	+125 Cts	+266 Cts	+563 Cts	+676 Cts	+800 Cts	+965 Cts	+1220 Cts	1,2,4,5,6,7
22	Purvi	2002/04	A3	D4	Eb4	F#4	G#4	A4	Bb4	C#5	D5	1,2,4,6
22	Purvi	?	Ab	C	Db	E	F#	G	Ab	B	C	5,7
23	Pygmy	2002/04	G3	C4	D4	Eb4	G4	Bb4	C5	D5	Eb5	1,2,4,5,6,7
	Pygmy (high)	2005	F3	Bb3	C4	Db4	F4	Ab4	Bb4	C5	Db5	3,8
	Pygmy (low)	2005	F3	G3	Ab3	C4	Eb4	F4	G4	Ab4		3,8
24	Rast	2002/04	G3	C4	D4	E*4	F4	G4	A4	B*4	C5	1,2,4,5,6,7
25	Rumanikos	2002	A3	D4	E4	F4	G#4	A4	B4	C5	D5	1,4,5,6
25	Rumanikos	2004	G3	C4	D4	Eb4	F#4	G4	A4	Bb4	C5	2,7
26	Sabah	2002/04	A3	D4	E4	F4	Gb4	A4	Bb4	C5	C#5	1,2,4,5,6,7
27	Sadjagrama	2002/04	G3 +9Cts	C4	D4 -36Cts	Eb4 -27Cts	F4 -9Cts	G4 +9Cts	A4 -27Cts	Bb4 -18Cts	C5	1,2,4,5,6,7
28	Segiah	2002/04	A3	D4	F4	F#4	G4	A4	Bb4	C#5	D5	1,2,4,5,6,7
29	Sho	2002/04	G3	C4	D4	Eb4	F4	G4	A4	C5	D5	1,2,4,6
29	Sho	?	A3	C4	D4	Eb4	F4	G4	A4	C5	D5	5,7
30	Slendro	2002/04	G3	C4	+218 Cts	+473 Cts	+721 Cts	+954 Cts	+1213 Cts	+1458 Cts	+1695 Cts	1,2,4,5,6,7
31	Blues	2004	G3	C4	Eb4	F4	F#4	G4	Bb4	C5	Eb5	2,6,7
32	Goonkali	2004	G3	C4	Db4	F4	G4	A4b	C5	Db5	F5	2,6,7
	Goonkali (high)	2005	F3	C4	Db4	F4	G4	Ab4	C5	Db5	F5	3,8
	Goonkali (low)	2005	F3	Gb3	Bb3	C4	Db4	F4	Gb4	Bb4		3,8
33	Iwato	2004	F3	C4	Db4	F4	Gb4	Bb4	C5	Db5	F5	2,6,7
	Iwato-Joshi (high)	2005	F3	C4	Db4	F4	Gb4	Bb4	C5	Db5	F5	3,8
	Iwato-Joshi (low)	2005	F3	Gb3	Bb3	B3	Eb4	F4	Gb4	Bb4		3,8
34	Kumoi	2004	G3	C4	D4	Eb4	G4	A4	C5	D5	Eb5	2,6,7
	Kumoi-Joshi (high)	2005	F3	Bb3	C4	Db4	F4	G4	Bb4	C5	Db5	3,8
	Kumoi-Joshi (low)	2005	F3	G3	Ab3	C4	D4	F4	G4	Ab4		3,8

	grama				-36Cts	-27Cts	-9Cts	-45Cts	-27Cts	-18Cts		
36	Madhyama- grama	?	G3	C4	D4	Eb4	F4	G4	A4	Bb4	C5	4,6,7
					-36Cts	-27Cts	-9Cts	-45Cts	-27Cts	-18Cts		
37	Magen Abot	2004	Bb3	D4	Eb4	F4	Gb4	Ab4	Bb4	C#5	D5	2,4,6,7
38	Melog / Selisir	2004	F3	A3	Bb3	C4	E4	F4	A4	Bb4	C5	2,4,6,7
	Melog (high)	2005	F3	A3	Bb3	C4	E4	F4	A4	Bb4	C5	3,8
39	Mixolydian	2004	G3	C4	D4	E4	F4	G4	A4	Bb4	C5	2,4,6,7
40	Overtone Scale	2004	G3	C4	E4	G4	Bb4	C5	D5	E5	F5	2,4,7
					-14Cts	+2Cts	-31Cts		+4Cts	-14Cts	+51Cts	
40	Overtone Scale	?	Bb3	D4	Eb4	F4	Gb4	Ab4	Bb4	C#5	D5	6
41	Noh	2004	F3	Bb3	C4	Eb4	F4	F#4	G4	A4	Bb4	2,7
41	Noh	?	G3	C4	D4	F4	G4	G#4	A4	B4	C5	4,6
42	Phrygian	2004	G3	C4	Db4	Eb4	F4	G4	Ab4	Bb4	C5	2,7
42	Phrygian	?	F#3	B3	C4	D4	E4	F#4	G4	A4	B4	4,6
43	Pyeong Jo	2004	F3	C4	D4	F4	A4	Bb4	C5	D5	F5	2,4,6,7
	Pyeong Yo (high)	2005	F3	C4	D4	F4	A4	Bb4	C5	D5	F5	3,8
	Pyeong Yo (low)	2005	F3	G3	Bb3	D4	Eb4	F4	G4	Bb4		3,8
44	Shang-Diao	2004	F3	Bb3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	2,4,6,7
	Shang-Diao (high)	2005	F3	Bb3	C4	Eb4	F4	Ab4	Bb4	C5	Eb5	3,8
	Shang-Diao (low)	2005	F3	G3	Bb3	C4	Eb4	F4	G4	Bb4		3,8
45	Zokuso	2004	F3	C4	Db4	F4	Gb4	Ab4	C5	Db5	F5	2,7
	Zokuso- Joshi (high)	2005	F3	C4	Db4	F4	Gb4	Ab4	C5	Db5	F5	3,8
	Zokuso- Joshi (low)	2005	F3	Gb3	Bb3	B3	Db4	F4	Gb4	Bb4		3,8
45	Zokuso	?	E3	B3	C4	E4	F4	G4	B4	C5	E5	4,6

* = 1 quarter tone lower

Cts = Cents (1200 Cts = 1 octave, 100 Cts = 1 semitone)

(high) = Low Hang 2005 in high voice (8 notes in the circle)

(low) = Low Hang 2005 in low voice (7 notes in the circle)

Second Generation Sound Models 2006-2007

In 2006 and 2007 the Hang Makers chose a whole new conceptual approach for the second generation of the Hanghang. Starting with a D3 Ding, A3 was the lowest note in the tone circle and the octaves of these two notes, D4 and A4 were in the circle as well. Almost all second generation Hanghang are built with this basic structure. The other notes are chosen by the tuner based on each instrument according to artistic discretion. Second generation models are predominantly configured with seven notes in the tone circle.

The following table of second generation Hanghang is not exhaustive. The Reference field indicates where the listed Sound Models were found.

Ding 1	2	3	4	5	6	7	8	Year	Reference	
D3	A3	Bb3	C4	D4	E4	F4	A4	2006/07	10	
D3	A3	Bb3	C4	D4	E4	F4	G4	A4	2007	15
D3	A3	Bb3	C4	D4	E4	F#4	A4	2006	10	
D3	A3	Bb3	C4	D4	E4	G4	A4	2007	15	

D3	A3	Bb3	D4	E4	F#4	G4	A4	2006	12
D3	A3	Bb3	D4	F4	G4	A4	C5	2007	10
D3	A3	B3	C4	D4	E4	F4	A4	2007	15
D3	A3	B3	C#4	D4	E4	F#4	A4	2007	10
D3	A3	B3	C#4	D4	F#4	G4	A4	2007	10
D3	A3	C4	D4	Eb4	F#4	G4	A4	2007	13
D3	A3	C4	D4	E4	F4	G4	A4	2007	10,15
D3	A3	C4	D4	E4	F4	G4	A4	Bb4	? 14
D3	A3	C4	D4	E4	F4	G#4	A4	C5	2006 15
D3	A3	C4	D4	E4	F4	A4	Bb4	?	11
D3	A3	C4	D4	E4	F#4	G4	A4	2007	9
D3	A3	C4	D4	E4	G4	A4	Bb4	2006	15
D3	A3	C4	D4	F4	G4	A4	Bb4	2007	10
D3	A3	D4	E4	F4	G4	A4	Bb4	2007	10
D3	A3	D4	E4	F4	A4	C5	D5	2006	13

Sound Model of the Integral Hang

The Integral Hang introduced in February 2008 only is one model and one set of notes. There are currently no other models being offered.

Ding 1	2	3	4	5	6	7	Reference
D3	A3	Bb3	C4	D4	E4	F4	A4 16

References

- www.hang.ch 2002**
Sound Model list published on the former PANArt website in April or May 2002
- 1 Pages archived by web.archive.org: [Link1](#), [link2](#), [link3](#)
The list includes the name of the Sound Models and the note of the Ding and the lowest tone field in the circle. The sound files were not archived by web.archive.org.
- www.hang.ch 2004**
Sound Model list on the former PANArt website updated in January or February 2004
- 2 Pages archived by web.archive.org: [Link1](#), [link2](#), [link3](#), [link4](#)
The list includes the name of the Sound Models and the note of the Ding and the lowest tone field in the circle. The sound files were not archived by web.archive.org.
- www.hang.ch 2005**
Sound Model list on the former PANArt website updated in February or March 2005
- 3 Page archived by web.archive.org: [Link](#)
The list includes the name of the Sound Models and the complete scale. The sound files were not archived by web.archive.org.
- www.oddmusic.com (notations)**
Notations of Sound Models No. 1-30 and 35-45 at [www.oddmusic.com](#)
- 5 **www.oddmusic.com (sound files)**
Sound files of Sound Models No. 1-30 at [www.oddmusic.com](#)
- 6 **www.hangmania.fr (notations)**
Notations of Sound Models No. 1-45 at [www.hangmania.fr](#)
- 7 **www.hangmania.fr (sound files)**
Sound files of Sound Models No. 1-45 at [www.hangmania.fr](#)
- 8 **Anklang Musikwelt 2005**
Sound Model list 2005 of the former German Hang distributor Anklang Musikwelt (paper copy)
- 9 **Hang-Music Forum**
Second generation Sound Models posted at [www.hang-music.com/forum](#)
- 10 **www.gothang.com**
Second generation Sound Models listed in the database at [www.gothang.com](#)

Hang Blog - Directory

- 13 **Ebay**
Second generation Sound Models mentioned in Ebay auctions
- 14 **YouTube**
Second generation Sound Models found in YouTube Videos
- 15 **Personal Information**
Second generation Sound Models mentioned in personal information
- Hang Booklet 2008**
- 16 This booklet was published by PANArt in early 2008 in several languages and sent to all customers of the Integral Hang. It is published [online as PDF](#) in the Hang Library.

-

- [**Hang Library \(en\)**](#)

- [Hang? What is that?](#)
- [Hang Lexicon](#)
- [Publications](#)
- [PANArt Publications](#)
- [Internet Directory](#)

- [**Hangbibliothek \(de\)**](#)

- [Hang? Was ist das?](#)
- [Hanglexikon](#)
- [Veröffentlichungen](#)
- [PANArt Veröffentlichungen](#)
- [Internetverzeichnis](#)

- **www.hangblog.org**

- [About](#) | [Impressum](#)
- [RSS-Feed](#)

- **Links**

- 
- 

- **Tools**

- [Google Translate](#)
- [LEO Dictionary](#)

www.hangblog.org is powered by [WordPress](#)

Never call the Hang a hang drum!

