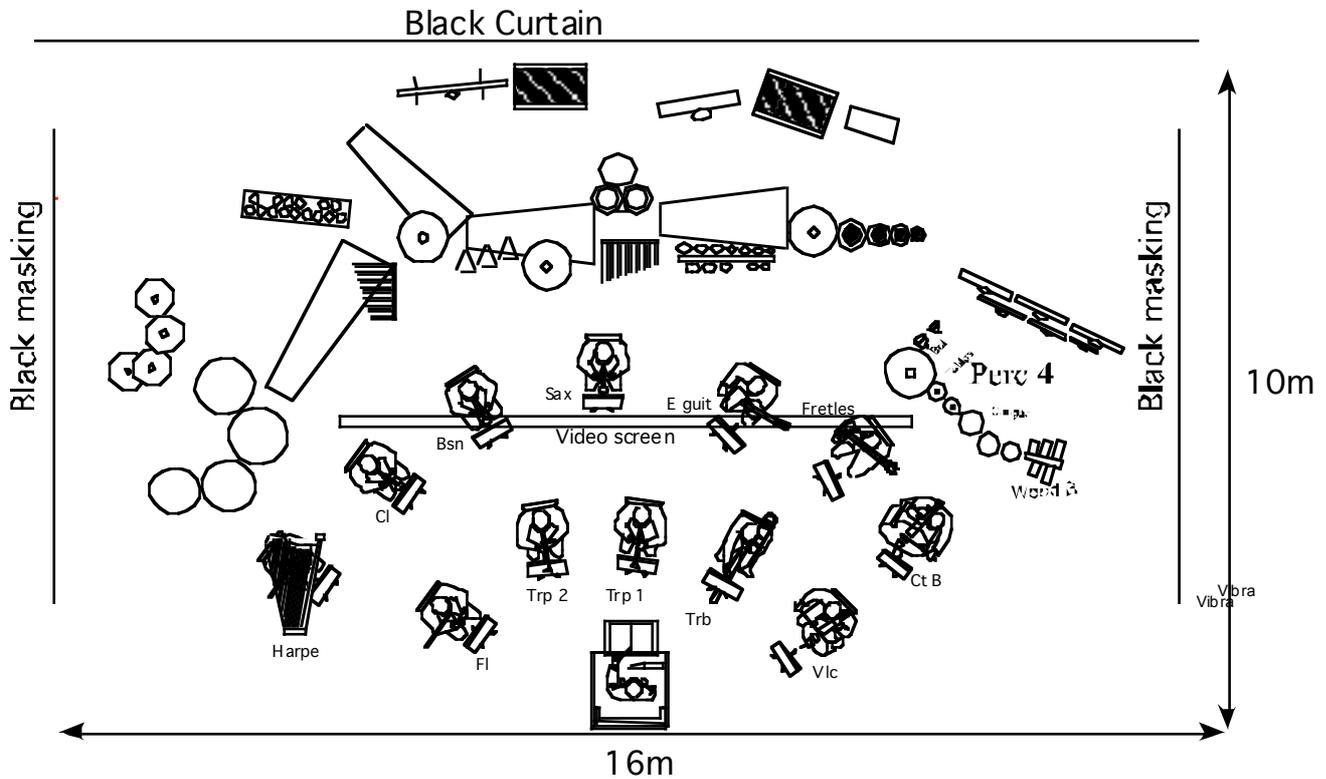


Film Fritz Lang  
Music Martin Matalon

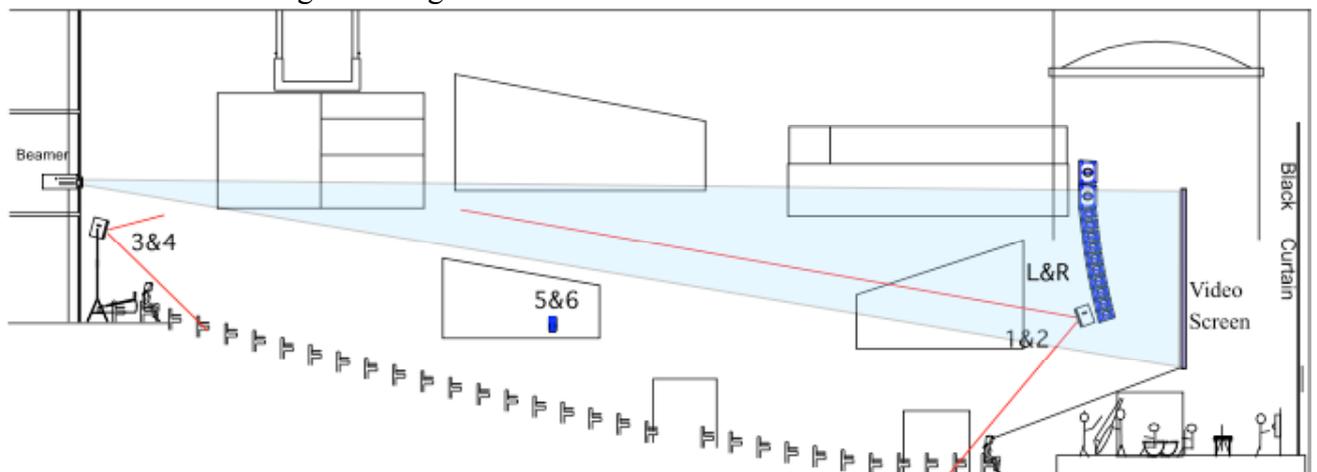
Technical Rider  
Video Version

Sound engineer: Frédéric PRIN  
[fredprin@free.fr](mailto:fredprin@free.fr)

**Stage :** Width 16m (14 Minimum) – depth 10m (9m Minimum).  
 Black wooden floor . Finishing with black masking  
 Access stage right and left



**Screen :** Bar to rig a Video screen 4-3, above and at the middle of the stage.  
 Subtitling system (for non speaking German countries)  
 Bars to rig Black legs and borders to frame the orchestra



**Video equipment :**

Digital Beta reader PAL : 4 audio tracks + 1 Cue track  
Video Beamer 10 000 to 20 000 Lumens, with hanging system.  
Video focal has be defined according to the distance of projection.  
Video Monitor.  
Video Screen 4/3.  
Video wiring.

## **Audio equipment:**

The Metropolis audio systems consists of the amplification of the orchestra and the transformation of certain soloist instruments. In addition, a multitracks tape of electronic and pre-registered sounds, played around the public and synchronised with the film, complement the orchestra performance. One of the tracks consists of a click used by the conductor to keep the orchestra and film synchronised.

Loudspeakers will have to be hung so as to cover the whole of the audience. It is thus necessary to supply chain motors on both sides of the stage for the front of house L & R and stands or a means to hang for the surround loudspeakers 1 to 6.

**MIXERS** -Mixing desk : PM5D Yamaha 48 mono inputs,4 stereo inputs 8 bus outputs, 12 auxiliary outputs, 1 stereo output, DCA control .

**SPEAKERS** FOH: Loudspeakers Left and right for all the area with processors , amplifiers and loudspeaker cables (Scheme n° L & R).

-Subwoofers with separate processors and amplifiers.

-Loudspeakers central Cluster 7&8 with processors , amplifiers and cables

SURROUND SYSTEM: 6 Loudspeakers with separate processors and amplifiers (+ loudspeaker cables (Scheme n° 1 to 6).

4 monitors + amplifiers + loudspeaker cables .

7 Channels Headphones with individual separate volume+ 7 Headphones.

**DSP -FX** 1 Digital Beta (Video rider: with 4 main audio tracks + 1 cue track)

3 Lexicon PCM 80 or 81 or 90

1 CD player .

**MICS** 6 Shure SM 57 - 6 Shure SM 58 - 2 Shure SM 81

3 AKG 414 - 3 AKG C535 - 1 M88 Beyer

5 Neumann KM 140 or 184 - 1 Neumann KM 150

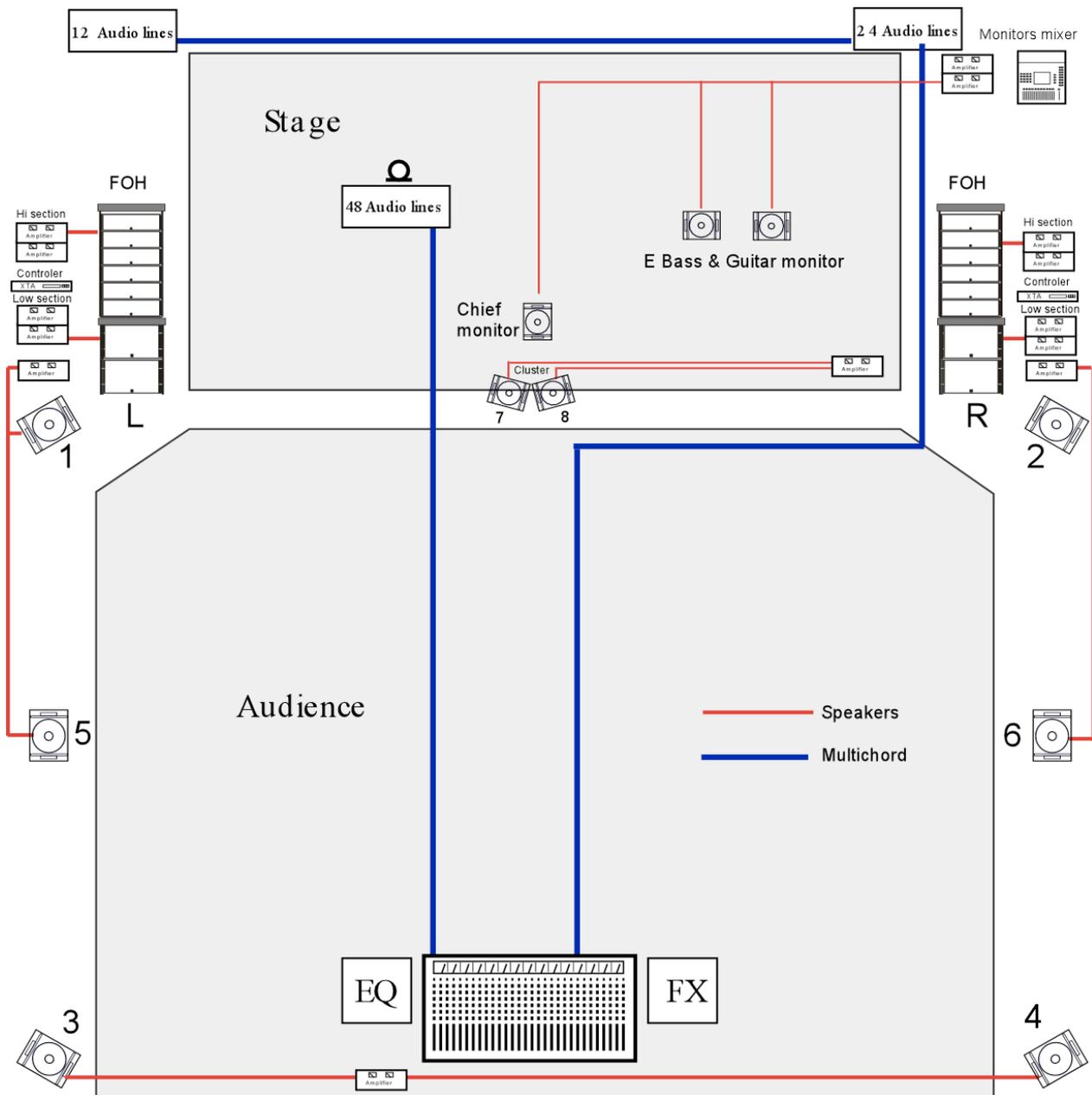
2 B&K 4021 + clip cello and bass.

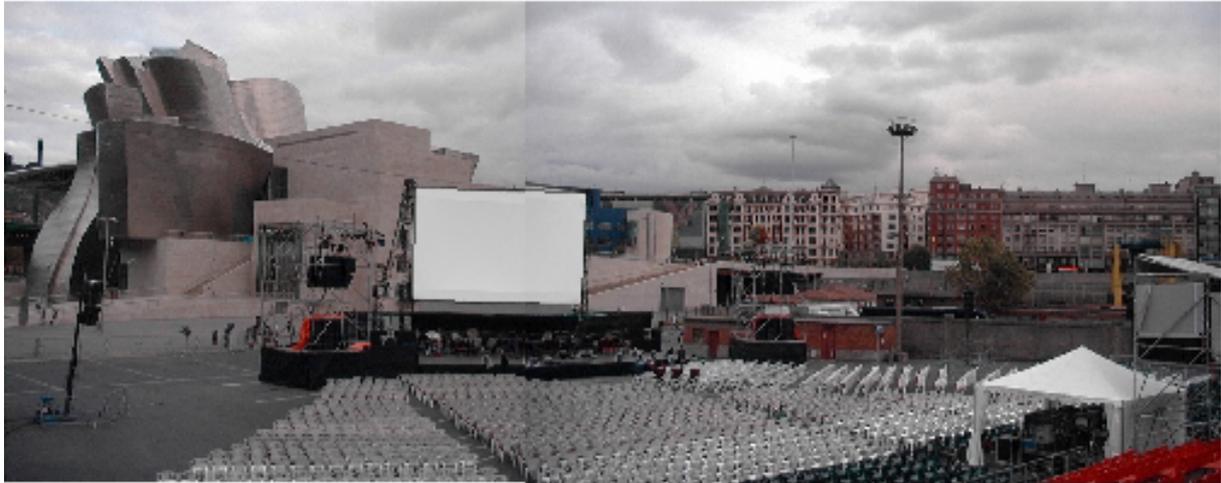
3 Sennheiser MD421 - 3 Sennheiser BF or e609 - 1 Sennheiser MKe2R+msp14 - 48V

1 Shertler bass ( Contact microphone)

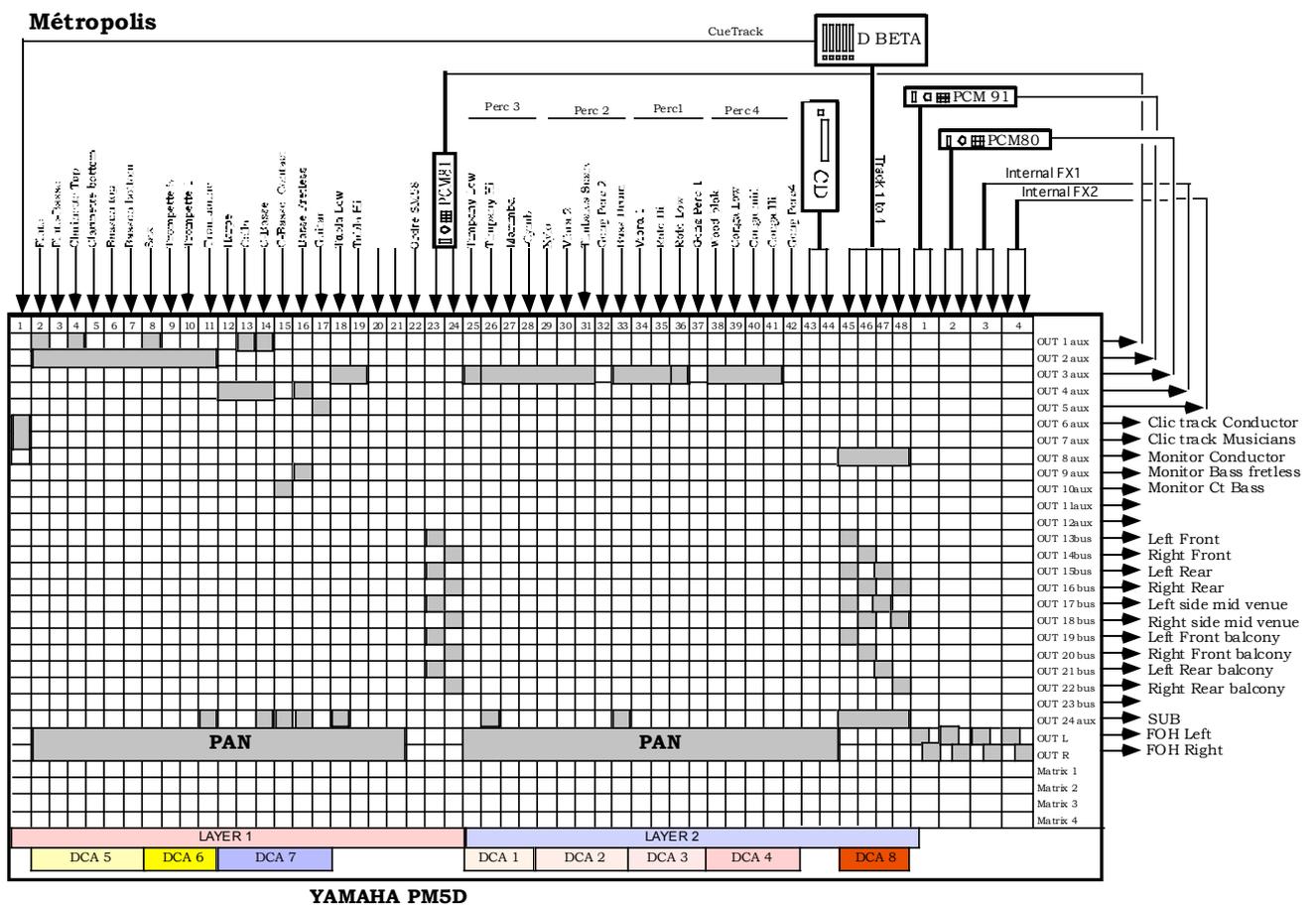
2 Direct Box (DI) -  
 30 microphones stands (22 normal, 12 small) - microphones cables .  
 Multichord Stage to mixer – Mixer to Amplifiers

**Audio system :**





## Mixer FOH :



The audio control room has to be in the venue, in the axis of the stage, behind the audience.  
 2 Multichords, from stage to FOH sound desk. One 48 audio lines for the mics, and one 24 audio lines for amplifiers and send clic track.  
 Power supply at the desk

**Patch Metropolis :**

<b>Instruments</b>		<b>Mics</b>	<b>Mixer</b>	<b>Stands</b>
Flute		Neumann KM 150	2	Standart + Boom
Flute Basse		Sennheiser MKe2	3	Clip
Clarinette top		Neumann KM 184	4	Standart + Boom
Clar Basse botom		M88 Beyer	5	Short+ Boom
Basson top		AKG 535	6	Standart + Boom
Basson botom		AKG 535	7	Short + boom
Sax		Sennheiser MD 421	8	Standart + Boom
Trp 1		SHURE SM 57	9	Short + boom
Trp 2		SHURE SM 57	10	Short + boom
Trb		Sennheiser MD 421	11	Standart + Boom
Cello		DPA 4021	13	DPA Clip CH4000
CT Basse		DPA 4021	14	DPA Clip CH4000
CT Basse Contact		Shertler basse	15	Clip
Fretless		DI	16	
Guitar		Sennheiser e609 or DI	17	Short + boom
Harpe		Neumann KM 184	12	Standart + Boom
Timpani Low	Perc 3	AKG C414	25	Standart + Boom
Timpani Hi	Perc 3	AKG C414	26	Standart + Boom
Marimba	Perc 3	AKG C414	27	Standart + Boom
Cymbals	Perc 3	SM 81	28	Standart + Boom
Xylo	Perc 2	SHURE SM 58	29	Short + boom
Vibra	Perc 2	SHURE SM 58	30	Standart + Boom
Timbales	Perc 2	SHURE SM 57	31	Standart + Boom
Tam	Perc 2	Neumann KM 184	32	Standart+ Boom
Bass drum	Perc 2	Sennheiser MD 421	33	Standart + Boom
Vibra	Perc 1	SHURE SM 58	34	Standart + Boom
Roto Hi	Perc 1	SHURE SM 58	35	Short + boom
Roto Low	Perc 1	SHURE SM 58	36	Short + boom
Bass Drum gong	Perc 1	Neumann KM 184	37	Standart + Boom
Wood block	Perc 4	SHURE SM 81	38	Standart + Boom
Congas Low	Perc 4	SHURE SM 57	39	Short + Boom
Congas Med	Perc 4	SHURE SM 57	40	Short + Boom
Congas Hi	Perc 4	SHURE SM 57	41	Short + Boom
Tablas Hi	Perc 4	Sennheiser e609	18	Standart + Boom
Tablas Low	Perc 4	Sennheiser e609	19	Standart + Boom
Gong	Perc 4	Neumann KM 184	42	Standart + Boom
PCM 81 Left			23	
PCM 81 Right			24	
Digibeta	Track 1		45	
Digibeta	Track 2		46	
Digibeta	Track 3		47	
Digibeta	Track 4		48	
Digibeta	Cue track		1	
ORDRE	MIXER	SM 58	22	
CD L			43	

CD R			44
PCM 91 L	Stereo in 1L	Lexicon	ST in 1
PCM 91 R	Stereo in 1R	Lexicon	
PCM 80 L	Stereo in 2L	Lexicon	ST in 2
PCM 80 R	Stereo in 2R	Lexicon	
Internal FX 1 L	Stereo in 3L		ST in 3
Internal FX 1 R	Stereo in 3R		
Internal FX 2 L	Stereo in 4L		ST in 4
Internal FX 2 R	Stereo in 4R		



### Lighting :

lit music stands (23) on dimmers  
 Full white light for curtain calls  
 Blue side or back light for stage and access  
 Public + security  
 Light desk, dimmers + Light snakes + cables

### Equipment for the orchestra : (to crosschecked with the orchestra)

- 23 music stands , 12 chairs , 8 perc. Tables , 4 bass chairs, 1 drum stool, 1 step (tubular bells)
- Acoustic panels
- Dressing rooms for the conductor, musicians and technical crew

### Instruments :

. flûte (aussi alto et basse)	
. clarinette en Sib (aussi basse et contrebasse)	
. basson (aussi contrebasson)	
. saxophone alto en Sib (aussi soprano et baryton en Mib)	
. trompette 1	
. trompette 2	
. trombone basse	
. guitare électrique (avec boîte à effet; wah wah et distorsion)	
. guitare basse fretless (avec boîte à effet)	
. harpe	
. violoncelle	
. contrebasse	
. percussion I	. percussion II

- . 1 vibraphone (Musser)
- . 1 crotales (2 octaves c3 to c5)
- . 1 tam (med.large) + pied
- . 6 cloches vaches + satnd
- . 1 grosse caisse
- . 1 cymbale + pied
- . 4 roto-toms (8' 10' 14' 16')
- . 1 enclume + marteau

- . 6 woodblocks
- . splash cymbale + . 2 pieds
- . 1 crecelle (ratchet)
- . 1 bol tibétain ou rin\_(si2)

- . 3 pupitres
- . 1 chaise contrebasse
- . 2 tablettes

### . percussion III

- . 1 marimba (4 octaves et demie)
- . cloches tubes (2 octaves fa2 à fa 4)
- . 4 timbales (. 1,. 2,. 3,.4)
- . 1 guiro
- . gong d'opéra chinois
- . 2 splash cymbales + . 2 pieds
- . 2 cymbales "ride" + . 2 pieds
- . 1 sizzled cymbale + pied
- . 1 vibrastrap
- . 2 maracas
- . metal chimes
- . 1 chaise contrebasse
- . 1 marche H=0,4M (cloches tubes)
- . 2 panneaux acoustiques
- . 2 tablettes
- . 1 metal chimes + pied perche
- . 3 pupitres

- . 1 vibraphone (Musser)
- . 2 cencerros ou ago go bells ou cloches vaches (c#4+d#4)
- . 1 tam -tam (large) + pied
- . 1 caisse claire (piccola) + pied (snare dr.)
- . 2 timbaletas + pieds
- . 3 triangles
- . 1 xylophone
- . Udu
- . 1 tambour chinois,  
(1 mètre de diamètre minimum with a narrow barrel) ou grosse caisse
- . 2 splash cymbales + pieds
- . thunder sheet (plaque tonnerre)
- . 1 cymbale suspendue
- . finger cymbals
- . bambou chimes
- . 3 pupitres
- . 2 panneaux acoustiques
- . 1 chaise contrebasse
- . 2 tablettes

### . percussion IV

- . 3 congas + pieds
- . tablas + table
- . 4 bols chinois (ou rins)
- . 6 temple blocks sur pied
- . 6 gongs thai + portique
- . 2 cymbales ride + pieds
- . 1 x . 2 cymbales frappées
- . claves
- . finger cymbals
- . 2 tablettes
- . 2 pupitres
- . 1 chaise contrebasse
- . 2 panneaux acoustiques (1m x1m)
- . 1 tabouret batterie