# ELITE

SC-05

**RS232C Protocol** 

August 2008

For Custom Installation

## **Physical Cable Connection**

#### Connector

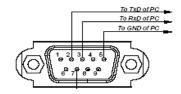
RS232C DB9 Male

### Pioneer A/V Receivers use a "crossover" (aka/"null modem" or "twisted pair") cable.

Pin	AV Receiver		Pin	Computer/Controller
1	*1		1	*1
2	RXD	<b>★</b>	2	RXD
3	TXD	<b>→</b>	3	TXD
4	*1		4	*1
5	GND	$\longleftrightarrow$	5	GND
6	*1		6	*1
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

\*PinS 1, 4, & 6 are shorted to each other.

#### **RECEIVER PINOUTS**



#### Communication

Communication Speed: 9600bps

Protocol Type: 8data bits,1stop bit,no parity

#### Notice1

To meet stringent power conservation measures Pioneer A/V receivers consume less than 1 Watt when in the "Standby" or "Off" mode.

To achieve this the main CPU doesn't operate in Standby/Off.

For this reason the receiver may not understand the first command send to it's the RS-232C port but the main CPU will "wake up" with the first command.

In other words, the receiver is using the first command as a trigger to wake up the main CPU and may not respond correctly to it.

For the proper execution of the first command please send the command twice.

Also, please make sure to have at least a 100msec. interval between the first and second command.

#### Example1

#### Notice2

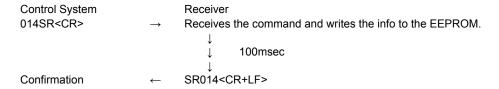
It takes a brief amount of time for the receiver to respond to a command like "Surround Mode" from your control system.

When the receiver receives a command it writes that information to the EEPROM.

Accordingly, you have to keep at least 100msec. before you do a "TIMEOUT" after sending the command to the receiver.

#### Example2

SR: The receiver's response to the command for PRO LOGIC II MUSIC.



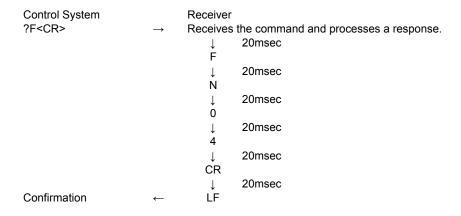
#### Notice3

The interval between each response sent from the receiver is 20msec.

Therefore you have to wait at least 20msec. before a "TIMEOUT".

#### Example3

?F: Responding to a request for the current function (input).



#### Automatic Feedback

When the customer changes the status using knobs on the front panel or the remote controller of the AV receiver, the AV receiver will send the new status automatically. (VOLXX,PQRX,MUTX,FNXX,SRXXXX,LMXXX)

(For example) The user changes function on the front panel. We send : FNXX<CR+LF>

All commands and requests must be followed by a Carriage Return <CR>.

X:Argument:ASC□ code

Command	Command Name	Argument	operation	Answer
?V <cr></cr>	VOLUME LEVEL STATUS REQUEST		Return the VOLUME LEVEL	VOLXX <cr+lf> *1</cr+lf>
?P <cr></cr>	POWER STATUS REQUEST		Return the POWER status	PWRX <cr+lf> *2</cr+lf>
?M <cr></cr>	MUTE STATUS REQUEST		Return the MUTE status	MUTX <cr+lf> *2</cr+lf>
?F <cr></cr>	FUNCTION MODE REQUEST		Return the FUNCTION MODE	FNXX <cr+lf> *3</cr+lf>
?S <cr></cr>	LISTENING MODE SETTING REQUEST		Return the L.M SETTING	SRXXXX <cr+lf> *4</cr+lf>
?L <cr></cr>	LISTENING MODE REQUEST		Return the L.M	LMXXX <cr+lf> *5</cr+lf>
?TO <cr></cr>	TONE STATUS REQUEST		Return the TONE status	TOX <cr+lf> *6</cr+lf>
?BA <cr></cr>	BASS STATUS REQUEST		Return the BASS Level	BAXX <cr+lf> *7</cr+lf>
?TR <cr></cr>	TREBLE STATUS REQUEST		Return the TREBLE Level	TRXX <cr+lf> *8</cr+lf>
?PR <cr></cr>	TUNER PRESET REQUEST		Return the PRESET number	PRXXX <cr+lf> *9</cr+lf>
?FR <cr></cr>	TUNER FREQ REQUEST		Return the FREQ number	FRXXXXXX <cr+lf> *1</cr+lf>
?MI <cr></cr>	MULTI INPUT CH REQUEST		Return the MULTI INPUT CH. status	MIX <cr+lf> *13</cr+lf>
AP <cr></cr>	ZONE 2 POWER STATUS REQUEST		Return the POWER status	APRX <cr+lf> *2</cr+lf>
?BP <cr></cr>	ZONE 3 POWER STATUS REQUEST		Return the POWER status	BPRX <cr+lf> *2</cr+lf>
?ZS <cr></cr>	ZONE 2 FUNCTION STATUS REQUEST		Return the FUNCTION MODE	Z2FXX <cr+lf> *3</cr+lf>
?ZT <cr></cr>	ZONE 3 FUNCTION STATUS REQUEST		Return the FUNCTION MODE	Z3FXX <cr+lf> *3</cr+lf>
?ZV <cr></cr>	ZONE 2 VOLUME STATUS REQUEST		Return the VOLUME LEVEL	ZVXX <cr+lf> *1</cr+lf>
?YV <cr></cr>	ZONE 3 VOLUME STATUS REQUEST		Return the VOLUME LEVEL	YVXX <cr+lf> *1</cr+lf>
?MC <cr></cr>	MCACC POSITION REQUEST		Return the MCACC POSITION status	MCX <cr+lf> *15</cr+lf>
?EX <cr></cr>	SBch PROCESSING STATUS REQUEST		Return the SBch PROCESSING status	EXXX <cr+lf> *14</cr+lf>
?XM <cr></cr>	XM channel REQUEST (USA model)	000-255	Return XM channel	XMXXX <cr+lf></cr+lf>
?IS <cr></cr>	PHASE CONTROL STATUS REQUEST		Return PHASE CONTROL STATUS	ISX <cr+lf>*16</cr+lf>
?SI <cr></cr>	Sirius channel REQUEST (USA model)	000-255	Return Sirius channel	SIXXX <cr+lf></cr+lf>

Operation command
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Command	Command Name	Argument	Operation	Answer
/U <cr></cr>	VOLUME UP		VOLUME UP	VOLXX <cr+lf> *1</cr+lf>
D <cr></cr>	VOLUME DOWN		VOLUME DOWN	VOLXX <cr+lf> *1</cr+lf>
XVL <cr></cr>	VOLUME SET	00-93 *1	Set the VOLUME level	VOLXX <cr+lf> *1</cr+lf>
J. (12 - O.) (	POWER ON		COLUID VOLOME IOVOI	TOEAU OIL EI
'O <cr></cr>	(You must repeat the command quickly when the receiver is OFF)		POWER ON	PWRX <cr+lf> *2</cr+lf>
F <cr></cr>	POWER OFF		POWER OFF	PWRX <cr+lf> *2</cr+lf>
10 <cr></cr>	MUTE ON		MUTE ON	MUTX <cr+lf> *2</cr+lf>
IF <cr></cr>	MUTE OFF		MUTE OFF	MUTX <cr+lf> 2</cr+lf>
XFN <cr></cr>	FUNCTION MODE SET	*3	Set the FUNCTION MODE	FNXX <cr+lf> *3</cr+lf>
U <cr></cr>	FUNCTION MODE SET	3	Change the FUNCTION MODE	FNXX <cr+lf> *3</cr+lf>
XXXSR <cr></cr>	LISTENING MODE SET	*4	Change the FONCTION MODE  Change the LISTENING MODE	SRXXX(X) <cr+lf> *4</cr+lf>
O <cr></cr>	TONE ON/BYPASS	4	TONE ON or BYPASS	TOX <cr+lf></cr+lf>
U <cr></cr>	BASS INCREMENT		BASS INCREMENT	BAXX <cr+lf> *7</cr+lf>
D <cr></cr>	BASS DECREMENT		BASS DECREMENT	BAXX <cr+lf> *7</cr+lf>
I <cr></cr>	TREBLE INCREMENT		TREBLE INCREMENT	TRXX <cr+lf> *8</cr+lf>
D <cr></cr>	TREBLE DECREMENT		TREBLE DECREMENT	TRXX <cr+lf> *8</cr+lf>
B <cr></cr>	TUNER BAND	0.0	change the BAND (AM/FM)	FRXXXXXX <cr+lf> *10</cr+lf>
TP <cr></cr>	TUNER PRESET	0-9	change the TUNER PRESET	PRXXX <cr+lf> *9</cr+lf>
C <cr></cr>	TUNER CLASS		change the TUNER CLASS	PRXXX <cr+lf> *9</cr+lf>
PI <cr></cr>	TUNER PRESET INCREMENT		TUNER PRESET INCREMENT	PRXXX <cr+lf> *9</cr+lf>
PD <cr></cr>	TUNER PRESET DECREMENT		TUNER PRESET DECREMENT	PRXXX <cr+lf> *9</cr+lf>
FI <cr></cr>	TUNER FREQ INCREMENT		TUNER FREQ INCREMENT	FRXXXXXX <cr+lf> *10</cr+lf>
FD <cr></cr>	TUNER FREQ DECREMENT		TUNER FREQ DECREMENT	FRXXXXXX <cr+lf> *10</cr+lf>
MI <cr></cr>	MULTI INPUT CH	0,1,2,3	change the MULTI INPUT CHANNEL	MIX <cr+lf> *13</cr+lf>
XZS <cr></cr>	ZONE2 FUNCTION MODE SET	*3	Set the FUNCTION MODE	Z2FXX <cr+lf> *3</cr+lf>
XZT <cr></cr>	ZONE3 FUNCTION MODE SET	*3	Set the FUNCTION MODE	Z3FXX <cr+lf> *3</cr+lf>
U <cr></cr>	ZONE2 VOLUME UP		VOLUME UP	ZVXX <cr+lf> *1</cr+lf>
D <cr></cr>	ZONE2 VOLUME DOWN		VOLUME DOWN	ZVXX <cr+lf> *1</cr+lf>
XZV <cr></cr>	ZONE2 VOLUME SET	00-80	Set the VOLUME level	ZVXX <cr+lf> *1</cr+lf>
'U <cr></cr>	ZONE3 VOLUME UP		VOLUME UP	ZVXX <cr+lf> *1</cr+lf>
D <cr></cr>	ZONE3 VOLUME DOWN		VOLUME DOWN	YVXX <cr+lf> *1</cr+lf>
XYV <cr></cr>	ZONE3 VOLUME SET	00-80	Set the VOLUME level	YVXX <cr+lf> *1</cr+lf>
	ZONE2 POWER ON			
PO <cr></cr>	(You must repeat the command quickly when the receiver is OFF)		ZONE2 POWER ON	APRX <cr+lf> *2</cr+lf>
PF <cr></cr>	ZONE2 POWER OFF		ZONE2 POWER OFF	APRX <cr+lf> *2</cr+lf>
	ZONE3 POWER ON			
PO <cr></cr>	(You must repeat the command quickly when the receiver is OFF)		ZONE3 POWER ON	BPRX <cr+lf> *2</cr+lf>
PF <cr></cr>	ZONE3 POWER OFF		ZONE3 POWER OFF	BPRX <cr+lf> *2</cr+lf>
MC <cr></cr>	MCACC POSITION	0,1,2,3,4,5,6	change the MCACC POSITION	MCX <cr+lf> *15</cr+lf>
XEX <cr></cr>	SBch PROCESSING SET	0,1,2	Change EXTENDED MODE	EXXX <cr+lf> *14</cr+lf>
TS <cr></cr>	STATUS DISPLAY	0,1,2	to see OSD display	R
IS <cr></cr>	PHASE CONTROL	0,1,2	PHASE CONTROL ON/OFF	ISX <cr+lf>*16</cr+lf>
O <cr></cr>	HDMI OUTPUT SELECT	1.2	HDMI OUTPUT SELECT	HOX <cr+lf></cr+lf>
UP <cr></cr>	AMP CURSOR UP	1,2	AMP CURSOR UP	R
DN <cr></cr>	AMP CURSOR DOWN		AMP CURSOR DOWN	R
RI <cr></cr>	AMP CURSOR RIGHT		AMP CURSOR RIGHT	R
LE <cr></cr>	AMP CURSOR LEFT		AMP CURSOR LEFT	R
EN <cr></cr>	AMP CURSOR ENTER	+	AMP CURSOR ENTER	R
EN <cr></cr>	AMP RETURN		AMP RETURN	R
PA <cr></cr>				R
PA <cr></cr>	AUDIO PARAMETER		AUDIO PARAMETER	R
	VIDEO PARAMETER		VIDEO PARAMETER	
OF <cr></cr>	KEY OFF (for USB, NETWORK)		KEY OFF	R

\_ STEREO MODE ONLY

About "KOF<CR>" command : Use KOF <CR> to stop Network commands such as Up or Down from repeating.

XM radio Operation (USA model only)

Command	Command Name	Argument	Operation	Answer
00XM	STATION 10	-	to see OSD display	XM*** <cr+lf></cr+lf>
01XM	1	-	to see OSD display	XM*** <cr+lf></cr+lf>
02XM	2	-	to see OSD display	XM*** <cr+lf></cr+lf>
03XM	3	-	to see OSD display	XM*** <cr+lf></cr+lf>
04XM	4	-	to see OSD display	XM*** <cr+lf></cr+lf>
05XM	5	-	to see OSD display	XM*** <cr+lf></cr+lf>
06XM	6	-	to see OSD display	XM*** <cr+lf></cr+lf>
07XM	7	-	to see OSD display	XM*** <cr+lf></cr+lf>
MX80	8	-	to see OSD display	XM*** <cr+lf></cr+lf>
09XM	9	-	to see OSD display	XM*** <cr+lf></cr+lf>
10XM	CH + / Cursol DOWN↓	-	to see OSD display	XM*** <cr+lf></cr+lf>
11XM	CH - / Cursol UP↑	-	to see OSD display	XM*** <cr+lf></cr+lf>
12XM	PRESET ST + $(\rightarrow)$	-	to see OSD display	XM*** <cr+lf></cr+lf>
13XM	PRESET ST - (←)	-	to see OSD display	XM*** <cr+lf></cr+lf>
14XM	DISPLAY	-	to see OSD display	XM*** <cr+lf></cr+lf>
15XM	PRESET	-	to see OSD display	XM*** <cr+lf></cr+lf>
16XM	CLASS	-	to see OSD display	XM*** <cr+lf></cr+lf>
17XM	DIRECT ACCESS(CH)	-	to see OSD display	XM*** <cr+lf></cr+lf>
18XM	MEMORY (EDIT)	-	to see OSD display	XM*** <cr+lf></cr+lf>
19XM	MENU	-	to see OSD display	XM*** <cr+lf></cr+lf>
21XM	ENTER	-	to see OSD display	XM*** <cr+lf></cr+lf>
22XM	RETURN	-	to see OSD display	XM*** <cr+lf></cr+lf>
23XM	CATEGORY	-	to see OSD display	XM*** <cr+lf></cr+lf>

Sirius Operation (USA model only)

(†when change	channel	١

Command	Command Name	Argument	Operation	Answer
00SI	STATION 10	-	to see OSD display	SI*** <cr+lf></cr+lf>
01SI	1	-	to see OSD display	SI*** <cr+lf></cr+lf>
02SI	2	-	to see OSD display	SI*** <cr+lf></cr+lf>
03SI	3	-	to see OSD display	SI*** <cr+lf></cr+lf>
04SI	4	-	to see OSD display	SI*** <cr+lf></cr+lf>
05SI	5	-	to see OSD display	SI*** <cr+lf></cr+lf>
06SI	6	-	to see OSD display	SI*** <cr+lf></cr+lf>
07SI	7	-	to see OSD display	SI*** <cr+lf></cr+lf>
08SI	8	-	to see OSD display	SI*** <cr+lf></cr+lf>
09SI	9	-	to see OSD display	SI*** <cr+lf></cr+lf>
10SI	CH + / Cursol DOWN↓	-	to see OSD display	SI*** <cr+lf></cr+lf>
11SI	CH - / Cursol UP↑	-	to see OSD display	SI*** <cr+lf></cr+lf>
12SI	PRESET ST + (→)	-	to see OSD display	SI*** <cr+lf></cr+lf>
13SI	PRESET ST - (←)	-	to see OSD display	SI*** <cr+lf></cr+lf>
14SI	DISPLAY	-	to see OSD display	SI*** <cr+lf></cr+lf>
15SI	PRESET	-	to see OSD display	SI*** <cr+lf></cr+lf>
16SI	CLASS	-	to see OSD display	SI*** <cr+lf></cr+lf>
17SI	DIRECT ACCESS(CH)	-	to see OSD display	SI*** <cr+lf></cr+lf>
18SI	MEMORY (EDIT)	-	to see OSD display	SI*** <cr+lf></cr+lf>
19SI	MENU	-	to see OSD display	SI*** <cr+lf></cr+lf>
21SI	ENTER	-	to see OSD display	SI*** <cr+lf></cr+lf>
22SI	RETURN	-	to see OSD display	SI*** <cr+lf></cr+lf>
23SI	CATEGORY	-	to see OSD display	SI*** <cr+lf></cr+lf>

Home Media Gallery

About the "KOF<CR>" command for USB/Network: After each command for USB and Network send the KOF command. For instance - the Cursor Up command (CUP<CR>) must be followed by the Key Off command (KOF<CR>) or the Menu will continue to scroll.

Command	Command Name	Argument	Operation	Answer
WM00	0	-	to see OSD display	R
1NW	1	-	to see OSD display	R
2NW	2	-	to see OSD display	R
3NW	3	-	to see OSD display	R
4NW	4	-	to see OSD display	R
NW	5	-	to see OSD display	R
6NW	6	-	to see OSD display	R
NW	7	-	to see OSD display	R
BNW	8	-	to see OSD display	R
NW	9	-	to see OSD display	R
I0NW	PLAY	-	to see OSD display	R
1NW	PAUSE	-	to see OSD display	R
I2NW	PREVIOUS ( < < )	-	to see OSD display	R
3NW	NEXT ( > > )	-	to see OSD display	R
I4NW	REV (< < )	-	to see OSD display	R
I5NW	FWD ( > >)	-	to see OSD display	R
I8NW	DISPLAY	-	to see OSD display	R
20NW	STOP	-	to see OSD display	R
26NW	UP	-	to see OSD display	R
27NW	DOWN	-	to see OSD display	R
28NW	RIGHT	-	to see OSD display	R
29NW	LEFT	-	to see OSD display	R
30NW	ENTER	-	to see OSD display	R
31NW	RETURN	-	to see OSD display	R
32NW	PROGRAM	-	to see OSD display	R
3NW	CLEAR	-	to see OSD display	R
34NW	REPEAT	-	to see OSD display	R
35NW	RANDOM	-	to see OSD display	R
36NW	MENU	-	to see OSD display	R
37NW	EDIT	-	to see OSD display	R
88NW	CLASS	-	to see OSD display	R

Error message

0	Hiessage					
Error Message Error Name			Meaning			
	E04 <cr+lf></cr+lf>	COMMAND ERROR	Detect Inappropriate Command line			
	E06 <cr+lf></cr+lf>	ARGUMENT ERROR	Inappropriate Factor			

#### Explanation of argument

\*17 VOLUME LEVEL [3byte]

185	+12.0dB
184	+11.5dB
161	0dB
002	-79.5dB
001	-80.0dB
000	(same as mute)

Example1-2 Command ?V<CR> Answer VOL185<CR+LF>

Request Volume Level. Volume is set to +12.0dB.

\*2 **ON/OFF** [1byte]

0	ON
1	OFF

Example2 Command ?M<CR> Answer MUT0<CR+LF>

Request Mute Status. Mute On.

\*3 FUNCTION MODE NO. [2byte]

00	PHONO
01	CD
02	TUNER
03	CDR
04	DVD
05	TV
10	VIDEO or VIDEO1
12	Multi CH
14	VIDEO2
15	DVR or DVR1
16	DVR2
18	XM
19	HDMI1
20	HDMI2
21	HDMI3
25	BDP
26	HOME MEDIA GALLARY
27	SIRIUS
31	HDMI (cyclic)
32	VIDEO 3

Example3 Command 04FN<CR> Answer FN04<CR+LF>

Change to source 04(DVD).

Example4
Command in respect of "?F<CR>"
Answer FN04<CR+LF>

Request Current Source. Source 04 is selected(DVD).

\*6 TONE STATUS [1byte]

0	BYPASS
1	ON

Example1 Command ?TO<CR> Answer TO1<CR+LF>

Request TONE Status. Tone On.

\*7 BASS status [2byte]

00	+6
01	+5
02	+4
03	+3
04	+2
05	+1
06	0
07	-1
08	-2
09	-3
10	-4
11	-5
12	-6

Example2 Command ?BA<CR> Answer BA02<CR+LF>

Request BASS Level. BASS is set to +4dB.

*8 TREBLE sta	itus [2byte]	
00	+6	
01	+5	
02	+4 +3	
03	+2	
05	+1	
06	0	
07	-1	
08	-2	
09	-3 -4	
10 11	- <del>4</del> -5	
12	-6 -6	
	11	
Example3	1070 :00:	D. ATDEDLEA
	nd ?TR <cr></cr>	Request TREBLE Level. TREBLE is set to +4dB.
Answ	er TR02 <cr+lf></cr+lf>	TREBLE IS SET TO #40B.
*9 PRESET nu		
*01 *02	2	* = B : class B
*03	3	* = C : class C
*04	4	<del></del>
*05	5	
*06	6	
*07	7	
*08	8	
*09 *10	9	
-10	0	
Example4		
	nd ?PR <cr></cr>	Request PRESET number
Answ	er PRA04 <cr+lf></cr+lf>	PRESET number is set to class A4
	PRC10 <cr+lf></cr+lf>	PRESET number is set to class C0
*10 FREQ num	ber [7byte]	
A0****	[:5]:5	
F****		
A is AM		
F is FM * is ASC□ co	odo 0 0	
is ASC LC	ode 0 - 9	
Example5		
	nd ?FR <cr></cr>	Request FREQ number
Answ	er FRA00890 <cr+lf></cr+lf>	FREQ number is set to AM 890 kHz FREQ number is set to FM 80.10 MHz
	FRF08010 <cr+lf></cr+lf>	FREQ number is set to FM 80.10 MHZ
Example9		
	nd 1MCH <cr></cr>	change the MULTI INPUT CHANNEL
Answ	er MCH1 <cr+lf></cr+lf>	MULTI INPUT CHANNEL is set to 2 CHANNEL
*14 SPch PPO	CESSING [1byte]	
0	OFF	
1	ON	
2	AUTO	
*45 MO* 00 = 5	OCITION (4b. de)	
	OSITION [1byte]	
1	MCACC OFF MEMORY 1	
2	MEMORY 2	
3	MEMORY 3	
4	MEMORY 4	
5	MEMORY 5	
6	MEMORY 6	

\*16 PHASE CONTROL [1byte]

0 OFF
1 PHASE CONTROL ON
2 F U L L BAND PHASE CONTROL ON

#### \*4 LISTENING MODE SET,LISTENING MODE SETTING REQUEST [4byte]

When you set the "Listening Mode with the product front panel keys and knobs, you operate the "LISTENING MODE SELECTOR" knob with "LISTENING CH SELECT" button. There are some modes which are not available depending on the source signal. There is automatic detection for 2ch and Multi-channel, though some modes override auto detection.

With the "SR" command, you can select whichever mode you wish. Also, you can confirm your selection with the ?S" command.

\*) When the LISTENING MODE is changed, the receiver will automatically send an ANSWER to let the external controller know the current status without a LISTENING MODE SETTING REQUEST command having to be sent (Automatic Feedback [1-3byte]:data for mode setting.
Indicating below the combination of modes selected by LISTENING MODE Example

Command 0001SR<CR>
Answer SR0001<CR+LF>
Answer LNT30<CR+LF>
Now 96kHz STEREO mode.
Now 96kHz STEREO play.
Now LNT30<CR+LF>
Now LISTENNING mode?
Now ACTION mode.

0XXXSR	All commands and requests must be followed by a Set Listening Mode		
001	STEREO ( cyclic )	Group STEREO	Comment
002	DIRECT	STEREO	
002	FRONT STAGE SURROUND ADVANCE FOCUS	STEREO	
004	FRONT STAGE SURROUND ADVANCE WIDE	STEREO	
005	AUTO SURROUND/STREAM DIRECT (same as key)	AUTO SURR	
006	AUTO SURROUND	AUTO SURR	
007	NORMAL DIRECT	AUTO SURR	
008	PURE DIRECT	AUTO SURR	
009	STEREO ( direct command)	STEREO	
010	STANDARD SELECTION (same as key)	STANDARD	
012	PRO LOGIC	STANDARD	for 2ch Source
013	PRO LOGIC   MOVIE	STANDARD	for 2ch Source
014	PRO LOGIC   MUSIC	STANDARD	for 2ch Source
015	PRO LOGIC GAME	STANDARD	for 2ch Source
016	Neo:6 CINEMA	STANDARD	for 2ch Source
017	Neo:6 MUSIC	STANDARD	for 2ch Source
018	PRO LOGIC □x MOVIE	STANDARD	for 2ch Source
019	PRO LOGIC X MUSIC	STANDARD	for 2ch Source
020	PRO LOGIC □X MIDSIC  PRO LOGIC □X GAME	STANDARD	for 2ch Source
020	Deponding on Source (for Multi-ch)	STANDARD	for Multi-ch Source
022			
	(Multi-Channel Source) + EX	STANDARD	for Multi-ch Source
023	(Multi-Channel Source) + PRO LOGIC x MOVIE	STANDARD	for Multi-ch Source
024	(Multi-Channel Source) + PRO LOGIC x MUSIC	STANDARD	for Multi-ch Source
025	DTS + Neo:6	STANDARD	for Multi-ch Source
026	DTS-ES matrix6.1	STANDARD	for Multi-ch Source
027	DTS- ES discrete6.1	STANDARD	for Multi-ch Source
028	XM HD SURROUND	STANDARD	for 2ch Source
029	NEURAL THX	STANDARD	for Multi-ch Source
030	DTS- ES 8ch discrete	STANDARD	for Multi-ch Source
050	THX SELECTION (same as key)	HOME THX	
051	PRO LOGIC + THX CINEMA	HOME THX	for 2ch Source
052	PRO LOGIC□ MOVIE + THX CINEMA	HOME THX	for 2ch Source
053	Neo:6 CINEMA + THX CINEMA	HOME THX	for 2ch Source
054	PRO LOGIC□x MOVIE + THX CINEMA	HOME THX	for 2ch Source
055	THX GAMES MODE (THX SELECT2 GAMES)	HOME THX	for 2ch Source
056	THX CINEMA	HOME THX	for Multi-ch Source
057	THX SURROUND EX	HOME THX	for Multi-ch Source
058	PRO LOGIC□x MOVIE + THX CINEMA	HOME THX	for Multi-ch Source
059	DTS + Neo:6 + THX CINEMA	HOME THX	for Multi-ch Source
060	DTS-ES MATRIX + THX CINEMA	HOME THX	for Multi-ch Source
061	DTS-ES DISCRETE6.1 + THX CINEMA	HOME THX	for Multi-ch Source
062	THX SELECT2 CINEMA	HOME THX	for Multi-ch Source
063	THX SELECT2 MUSIC	HOME THX	for Multi-ch Source
064	THX SELECT2 GAMES	HOME THX	for Multi-ch Source
067	DTS-ES 8ch DISCRETE + THX CINEMA	HOME THX	for Multi-ch Source
068	THX CINEMA	HOME THX	for 2ch Source
069	THX MUSIC	HOME THX	for 2ch Source
070	THX GAMES	HOME THX	for 2ch Source
071	PL2 MUSIC + THX MUSIC	HOME THX	for 2ch Source
072	PL2x MUSIC + THX MUSIC	HOME THX	for 2ch Source
073	Neo:6 MUSIC + THX MUSIC	HOME THX	for 2ch Source
074	PL2 GAME + THX GAMES	HOME THX	for 2ch Source
074	PL2x GAME + THX GAMES  PL2x GAME + THX GAMES	HOME THX	for 2ch Source
080	THX MUSIC	HOME THX	
081	THX MOSIC THX GAMES	HOME THX	for Multi-ch Source
082	PLIIX MUSIC + THX MUSIC	HOME THX	for Multi-ch Source
			for Multi-ch Source
083	EX + THX GAMES	HOME THX	for Multi-ch Source
084	Neo:6 + THX MUSIC	HOME THY	for Multi-ch Source
085	Neo:6 + THX GAMES	HOME THX	for Multi-ch Source
086	ES MATRIX + THX MUSIC	HOME THX	for Multi-ch Source
087	ES MATRIX + THX GAMES	HOME THX	for Multi-ch Source
088	ES DISCRETE + THX MUSIC	HOME THX	for Multi-ch Source
089	ES DISCRETE + THX GAMES	HOME THX	for Multi-ch Source
090	ES 8CH DISCRETE + THX MUSIC	HOME THX	for Multi-ch Source
091	ES 8CH DISCRETE + THX GAMES	HOME THX	for Multi-ch Source
100	ADVANCED SURROUND SELECTION (same as key)	ADV.SURR	
101	ACTION	ADV.SURR	
102	SCI-FI	ADV.SURR	
103	DRAMA	ADV.SURR	
104	ENTERTAINMENT SHOW (MUSICAL)	ADV.SURR	
105	MONO FILM	ADV.SURR	
106	EXPANDED THEATER (7-D THEATER)	ADV.SURR	
107	CLASSICAL	ADV.SURR	
109	UNPLUGGED (JAZZ)	ADV.SURR	
110	ROCK/POP (ROCK)	ADV.SURR	
112	EXTENDED STEREO (7CH-STEREO)	ADV.SURR	
113	PHONES SURROUND	ADV.SURR	
116	TV SURROUND	ADV.SURR	
117	SPORTS	ADV.SURR	
	ADV.GAME	ADV.SURR	
118			

\*5 LISTENING (DECODE) MODE REQUEST[3byte]

The list below indicates the combination of the LISTENING MODE selected by "SR" command and the LISTENING MODE determined by the input source signal.

\*) When the LISTENING MODE is set and the format for the source signal is confirmed, the set will send an ANSWER COMMAND to the external controller to let it know the status of the LISTENING MODE. It replies automatically and does not need to receive a LISTENING MODE Request (Automatic Feedback).

LISTENING MODE shows the current signal format the set is receiving or surround mode which has been added to the original signal. LM\*\*\*

004 005 008 009 010 011 015 016 017 019 022 023 030 031 032 033 034 035 036 043 055 056 057 058 059 080 081 083 085 087 090 091 092 093 093 099	PRO LOGIC MOVIE PRO LOGIC MUSIC PRO LOGIC MUSIC PRO LOGIC MUSIC PRO LOGIC MUSIC PRO LOGIC GAME 96kHz PRO LOGIC MUSIC 96kHz MUSIC DIS SUSC 6.1 DTS 96/24 PCM ACTION SCIFI DTS 96/24 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC X MOVIE PRO LOGIC X MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC PRO LOGIC X MUSIC 96kHz PRO LOGIC X MUSIC	STANDARD STA	
002 003 004 005 008 009 010 011 015 016 017 019 022 023 030 031 032 033 034 035 055 056 057 058 059 080 081 083 085 087 090 091 092	PRO LOGIC  NEO6 CINEMA NEO6 MUSIC  PRO LOGIC GAME 96kHz PRO LOGIC MOVIE 96kHz PRO LOGIC GAME PCM 96KHz DOLBY DIGITAL DOLBY DIGITAL DOLBY DIGITAL EX DTS DTS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS-ES MTRX 6.1 DTS-ES MTRX 6.1 DTS-ES MTRX 6.1 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC X MOVIE PRO LOGIC X MOVIE NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC PRO LOGIC X MOWIE 96kHz PRO LOGIC X MOVIE 96kHz PRO LOGIC X MUSIC NEO6 88K MUSIC	STANDARD	
003 004 005 008 009 010 011 015 016 017 019 022 023 030 031 032 033 034 035 036 043 055 056 057 058 059 080 081 083 083 085 081 083 085 087 090 091 092 093 098	NEO6 CINEMA NEO6 MUSIC PRO LOGIC GAME 96kHz PRO LOGIC GENEY 96kHz PRO LOGIC MUSIC 96kHz PRO LOGIC MUSIC 96kHz PRO LOGIC MUSIC 96kHz PRO LOGIC MUSIC 96kHz PRO LOGIC GAME PCM 96kHz DOLBY DIGITAL DOLBY DIGITAL DOLBY DIGITAL EX DTS  DTS-ES DISC 6.1 DTS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS 96/24 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC X MOVIE PRO LOGIC X MUSIC NEO6 96K CINEMA NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC NEO6 96K CINEMA NEO6 96K CINEMA NEO6 96K CINEMA NEO6 96K CINEMA NEO6 96K MUSIC NEO6 06K CINEMA NEO6 96K MUSIC NEO6 07K MUSIC	STANDARD	
004 005 008 009 010 011 015 016 017 019 022 023 030 031 032 030 031 032 036 043 055 056 057 058 059 080 081 083 085 087 090 091 092	NEC6 MUSIC  PRO LOGIC GAME  96KHz PRO LOGIC MOVIE  96KHz PRO LOGIC MUSIC  96KHz PRO LOGIC MUSIC  96KHz PRO LOGIC GAME  PCM 96KHz  DOLBY DIGITAL  DOLBY DIGITAL  DOLBY DIGITAL EX  DTS  DTS-ES DISC 6.1  DTS-ES MTRX 6.1  DTS-ES MTRX 6.1  DTS 96/24  PCM  ACTION  SCIFI  DRAMA  ENTERTAINMENT SHOW (MUSICAL)  MONOFILM  EXPANDED THEATER (7-D THEATER)  PRO LOGIC MOVIE  PRO LOGIC MUSIC  NEC6 96K CINEMA  NEC6 96K CINEMA  NEC6 88K MUSIC  NEC6 88K MUSIC  NEC6 88K MUSIC  NEC6 88K MUSIC  NEC6 88K PRO LOGIC MOVIE  96KHZ PRO LOGIC MAUSIC  NEC6 S8K MUSIC  NEC	STANDARD	
008 009 010 011 011 015 016 017 019 022 023 030 031 032 033 034 035 036 043 055 056 057 058 059 080 081 083 083 081 083 085 087 090 091 092	96kHz PRO LOGIC 96kHz PRO LOGIC MOVIE 96kHz PRO LOGIC MUSIC 96kHz PRO LOGIC MUSIC 96kHz PRO LOGIC GAME PCM 96KHz DOLBY DIGITAL DOLBY DIGITAL DOLBY DIGITAL EX DTS DTS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS-96/24 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC ™ MOVIE PRO LOGIC ™ MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 96K MUSIC NEO6 08K MUSI	STANDARD	
009 010 011 015 016 017 019 022 023 030 031 032 033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 093	96kHz PRO LOGIC□ MOVIE 96kHz PRO LOGIC□ MUSIC 96kHz PRO LOGIC□ GAME PCM 96KHz DOLBY DIGITAL DOLBY DIGITAL DOLBY DIGITAL DTS-S DISC 6.1 DTS-ES DISC 6.1 DTS-ES MIRX 6.1 DTS 96/24 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC□ X MUSIC NEO6 96K CINEMA NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC PRO LOGIC□ X MOVIE 96KHz PRO LOGIC□ X MOVIE 96KHz PRO LOGIC□ X MOVIE 96KHz PRO LOGIC□ X MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC PRO LOGIC□ X MOVIE 96KHz PRO LOGIC□ X MOVIE 96KHz PRO LOGIC□ X MUSIC 96KHZ PRO LOGIC□ X MUSIC DIS + NEO6 + THX CINEMA THX SURROUND EX THX SURROUND EX THX SELECT2 MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC□ X MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECT2 MUSIC	STANDARD ADV.SURR STANDARD THX THX THX	
010 011 011 015 016 017 019 022 023 030 031 032 033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092	96KHZ PRO LOGIC□ MUSIC 96KHZ PRO LOGIC□ GAME PCM 96KHZ DOLBY DIGITAL DOLBY DIGITAL DTS DIS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS-ES DISC 6.1 DTS-ES	STANDARD	
011 0115 016 017 019 022 023 030 031 032 033 034 035 036 043 055 056 057 058 059 080 081 083 085 087 090 091 092 093 098	96KHZ PRO LOGIC□ GAME  PCM 96KHZ  DOLBY DIGITAL  DOLBY DIGITAL EX  DTS.  DTS.ES DISC 6.1  DTS.ES MTRX 6.1  DTS.ES MTRX 6.1  DTS. 96/24  PCM  ACTION  SCIFI  DRAMA  ENTERTAINMENT SHOW (MUSICAL)  MONOFILM  EXPANDED THEATER (7-D THEATER)  PRO LOGIC□x MOVIE  PRO LOGIC□x MUSIC  NEO6 96K CINEMA  NEO6 96K CINEMA  NEO6 88K MUSIC  SEON BOUND SEON SEON SEON SEON SEON SEON SEON SEON	STANDARD ADV.SURR STANDARD	
015 016 016 017 019 022 023 030 031 032 033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 096	PCM 96KHz  DOLBY DIGITAL  DOLBY DIGITAL EX  DTS  DTS-ES DISC 6.1  DTS-ES MTRX 6.1  DTS 96/24  PCM  ACTION  SCIFI  DRAMA  ENTERTAINMENT SHOW (MUSICAL)  MONOFILM  EXPANDED THEATER (7-D THEATER)  PRO LOGIC∷X MOVIE  PRO LOGIC∷X MOVIE  PRO LOGIC∷X MUSIC  NEO6 96K CINEMA  NEO6 96K MUSIC  NEO6 88K CINEMA  NEO6 96K MUSIC  NEO6 88K MUSIC  PRO LOGIC∷X MOVIE  96KHz PRO LOGIC∷X GAME  THX SUREMA  THX SURECIEX MOVIE  PRO LOGIC∷X GAME  THX SURECIEX MOVIE  THX SELECT2 MUSIC  TTX SURECIEX MOVIE + THX CINEMA  THX MUSIC  THX GAMES  THX SELECT2 MUSIC	STANDARD ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR STANDARD THX THX THX	
016 017 019 022 023 030 031 032 033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 096	DOLBY DIGITAL  DOLBY DIGITAL EX  DTS  DTS-ES DISC 6.1  DTS-ES MTRX 6.1  DTS 96/24  PCM  ACTION  SCIFI  DRAMA  ENTERTAINMENT SHOW (MUSICAL)  MONOFILM  EXPANDED THEATER (7-D THEATER)  PRO LOGIC :: X MUSIC  NEO6 96K CINEMA  NEO6 96K CINEMA  NEO6 96K CINEMA  NEO6 88K MUSIC  NEO6 88K MUSIC  NEO6 88K MUSIC  NEO6 88K MUSIC  NEO6 08K MUSIC  PRO LOGIC:: X MOVIE  96KHz PRO LOGIC:: X MUSIC  96KHz PRO LOGIC:: X MUSIC  97 MUSIC  1 MUSIC	STANDARD ADV.SURR STANDARD	
019 022 023 030 031 032 033 034 035 036 043 050 051 052 053 055 056 057 058 059 080 081 083 085 087 090 091 092 093 098	DTS DTS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS 96/24 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC :: X MOVIE PRO LOGIC :: X MUSIC NEO6 96K MUSIC PRO LOGIC :: X MUSIC PRO LOGIC :: X GAME 96KHZ PRO LOGIC :: X MUSIC 96KHZ PRO LOGIC :: X MUSIC 96KHZ PRO LOGIC :: X GAME THX SURROUND EX THX SURROUND EX THX SUECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC :: X MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX SELECTZ MUSIC	STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD ADV. SURR STANDARD THX THX THX THX THX THX THX THX THX	
022 023 030 031 031 032 033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 096	IDTS-ES DISC 6.1 DTS-ES MTRX 6.1 DTS 96/24 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC: x MOVIE PRO LOGIC: x MUSIC NEO6 96K CINEMA NEO6 96K CINEMA NEO6 88K MUSIC NEO6 COMPANDED SCHOOL	STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD ADV.SURR STANDARD THX THX THX THX THX THX	
023 030 031 032 033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 090 091 092 093 098	DTS. =S MTRX 6.1  DTS. 96/24  PCM  ACTION  SCIFI  DRAMA  ENTERTAINMENT SHOW (MUSICAL)  MONOFILM  EXPANDED THEATER (7-D THEATER)  PRO LOGIC: x MOVIE  PRO LOGIC: x MUSIC  NEO6 96K CINEMA  NEO6 96K CINEMA  NEO6 88K MUSIC  NEO6 88K MUSIC  PRO LOGIC: x GAME  96KHz PRO LOGIC: x MOVIE  96KHz PRO LOGIC: x MUSIC  S6KHZ PRO LOGIC: x MUSIC  THX SURROUND EX  THX SURROUND EX  THX SURROUND EX  THX SELECTZ MUSIC  DTS + Neo6 + THX CINEMA  THX MUSIC  THX GAMES  THX GAMES  THX GAMES  THX GAMES	STANDARD STANDARD STANDARD STANDARD STANDARD ADV.SURR STANDARD TANDARD STANDARD STANDARD THX THX THX THX THX THX THX	
030 031 032 033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 096	DTS 96/24 PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC :: X MOVIE PRO LOGIC :: X MUSIC NEO6 96K KUSIC NEO6 96K MUSIC NEO6 96K MUSIC NEO6 88K CINEMA NEO6 88K CINEMA NEO6 88K CINEMA NEO6 88K DISIC NEO6 96K MUSIC NEO6 96K MUSIC PRO LOGIC :: X MOVIE 96KHZ PRO LOGIC :: X MUSIC 96KHZ PRO LOGIC :: X MUSIC 96KHZ PRO LOGIC :: X MUSIC 96KHZ PRO LOGIC :: X GAME THX SURROUND EX THX SUECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC :: X MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX GAMES	STANDARD STANDARD ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR STANDARD THX THX THX THX THX THX THX THX	
031 032 033 034 035 036 043 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 093	PCM ACTION SCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC :: MOVIE NEO6 98K CINEMA NEO6 98K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC PRO LOGIC :: X GAME 96KHZ PRO LOGIC :: X MOVIE 96KHZ PRO LOGIC :: X MOVIE 96KHZ PRO LOGIC :: X GAME THX CINEMA THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC :: X MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX GAMES	STANDARD ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR ADV.SURR STANDARD THX THX THX THX THX THX	
033 034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091	GCIFI DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC::X MOVIE PRO LOGIC::X MUSIC NEO6 96K CINEMA NEO6 96K CINEMA NEO6 96K KUSIC NEO6 88K CINEMA NEO6 88K MUSIC PRO LOGIC::X GAME 96KHZ PRO LOGIC::X MOVIE 96KHZ PRO LOGIC::X MUSIC S6KHZ PRO LOGIC::X MUSIC DSHIZE PRO LOGIC::X MUSIC DTS + NEO6 + THX CINEMA THX SURROUND EX THX SURROUND EX THX SURROUND EX THX SURGUES THX CINEMA PRO LOGIC::X MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX GAMES	ADV. SURR STANDARD THX THX THX THX THX THX THX	
034 035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 098	DRAMA ENTERTAINMENT SHOW (MUSICAL) MONOFILM EXPANDED THEATER (7-D THEATER) PRO LOGIC□X MOVIE PRO LOGIC□X MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC PRO LOGIC□X MOVIE 96KHZ PRO LOGIC□X MOVIE 96KHZ PRO LOGIC□X MOVIE 96KHZ PRO LOGIC□X GAME THX CINEMA THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA THX MUSIC THX GAMES THX GAMES THX GAMES THX GAMES THX GAMES	ADV. SURR ADV. SURR ADV. SURR ADV. SURR STANDARD THX THX THX THX THX THX THX	
035 036 043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 098	ENTERTAINMENT SHOW (MUSICAL)  MONOFILM  EXPANDED THEATER (7-D THEATER)  PRO LOGIC ∴ MOVIE  PRO LOGIC ∴ MUSIC  NEO6 96K CINEMA  NEO6 96K CINEMA  NEO6 98K CINEMA  NEO6 88K CINEMA  NEO6 88K MUSIC  PRO LOGIC ∴ KAME  96KHZ PRO LOGIC □ X MOVIE  96KHZ PRO LOGIC □ X MUSIC  96KHZ PRO LOGIC □ X GAME  THX CINEMA  THX SURROUND EX  THX SELECTZ MUSIC  DTS + Neo6 + THX CINEMA  PRO LOGIC ∴ MOVIE + THX CINEMA  THX MUSIC  THX GAMES  THX GAMES  THX SELECTZ MUSIC	ADV. SURR ADV. SURR ADV. SURR STANDARD THX THX THX THX THX THX THX THX	
036 043 043 050 051 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 096	MONOFILM  EXPANDED THEATER (7-D THEATER)  PRO LOGIC "x MOVIE  PRO LOGIC "x MUSIC  NEO6 96K CINEMA  NEO6 96K CINEMA  NEO6 88K CINEMA  NEO6 88K CINEMA  NEO6 88K MUSIC  PRO LOGIC "x MOVIE  96KHZ PRO LOGIC "x MOVIE  96KHZ PRO LOGIC "x MUSIC  96KHZ PRO LOGIC "x GAME  THX CINEMA  THX SURROUND EX  THX SURROUND EX  THX SURECTZ MUSIC  DTS + Neo6 + THX CINEMA  PRO LOGIC "x MOVIE + THX CINEMA  THX MUSIC  THX GAMES  THX GAMES  THX SELECTZ MUSIC	ADV. SURR ADV. SURR STANDARD THX THX THX THX THX THX THX	
043 050 051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092 093 098	PRO LOGIC □ X MOVIE PRO LOGIC □ X MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 96K MUSIC NEO6 88K CINEMA NEO6 88K MUSIC PRO LOGIC □ X GAME 96KHZ PRO LOGIC □ X MOVIE 96KHZ PRO LOGIC □ X MUSIC 96KHZ PRO LOGIC □ X GAME THX CINEMA THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC □ X MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX SELECTZ MUSIC	STANDARD THX THX THX THX THX THX THX THX	
051 052 053 054 055 056 057 058 059 080 081 083 085 087 090 091 092	PRO LOGIC "x MUSIC NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K MUSIC NEO6 88K MUSIC PRO LOGIC "x GAME 96KHZ PRO LOGIC "x MUSIC 96KHZ PRO LOGIC "x MUSIC 96KHZ PRO LOGIC "x MUSIC 96KHZ PRO LOGIC "X GAME THX CINEMA THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC "x MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX GAMES	STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD THX THX THX THX THX	
052 053 054 055 056 057 058 059 080 081 083 085 087 090 091	NEO6 96K CINEMA NEO6 96K MUSIC NEO6 88K CINEMA NEO6 88K MUSIC PRO LOGIC∷X GAME 96KHZ PRO LOGIC∷X MOVIE 96KHZ PRO LOGIC∷X MUSIC THX SURROUND EX THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC∷X MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX SELECTZ MUSIC	STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD THX THX THX THX THX THX	
053 054 055 056 056 057 058 059 080 081 083 085 087 090 091 092 093	NEO6 96K MUSIC NEO6 88K CINEMA NEO6 88K MUSIC PRO LOGIC∷X GAME 96KHZ PRO LOGIC∷X MOVIE 96KHZ PRO LOGIC∷X MUSIC 96KHZ PRO LOGIC∷X GAME THX CINEMA THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC∷X MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX SELECTZ MUSIC	STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD THX THX THX THX THX	
054 055 056 057 058 059 080 081 083 085 087 090 091 092 093	NEO6 88K CINEMA NEO6 88K MUSIC PRO LOGIC :x GAME 96kHz PRO LOGIC :x MOVIE 96kHz PRO LOGIC :x MUSIC 96kHz PRO LOGIC :x GAME THX CINEMA THX SURFAUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC :x MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES THX SELECTZ MUSIC	STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD THX THX THX THX THX THX	
055 056 057 058 059 080 081 083 085 087 090 091 092 093	NEO6 88K MUSIC PRO LOGIC∷X GAME 96KHZ PRO LOGIC∷X MOVIE 96KHZ PRO LOGIC∷X MUSIC 96KHZ PRO LOGIC∷X MUSIC 96KHZ PRO LOGIC∷X GAME THX CINEMA THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC∷X MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECTZ MUSIC	STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD THX THX THX THX THX	
056 057 058 059 080 081 083 085 087 090 091 092 093 098	96kHz PRO LOGIC□x MOVIE 96kHz PRO LOGIC□x MUSIC 96kHz PRO LOGIC□x GAME THX CINEMA THX SURROUND EX THX SELECT2 MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC□x MOVIE + THX CINEMA THX MUSIC THX GAMES THX GAMES	STANDARD STANDARD STANDARD STANDARD THX THX THX THX THX THX	
058 059 080 081 083 085 087 090 091 092 093 096	96kHz PRO LOGIC□X MUSIC 96kHz PRO LOGIC□X GAME THX CINEMA THX SURROUND EX THX SELECT2 MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC□X MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECT2 MUSIC	STANDARD STANDARD THX THX THX THX THX THX	
059 080 081 083 085 087 090 091 092 093 096	96kHz PRO LOGIC□X GAME THX CINEMA THX SURROUND EX THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC□X MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECTZ MUSIC	STANDARD THX THX THX THX THX THX	
080 081 083 085 087 090 091 092 093 096 098	THX CINEMA THX SURROUND EX THX SELECT2 MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECT2 MUSIC	THX THX THX THX THX	
081 083 085 087 090 091 092 093 096	THX SURROUND EX THX SELECT2 MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC X MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECT2 MUSIC	THX THX THX THX	
083 085 087 090 091 092 093 096	THX SELECTZ MUSIC DTS + Neo6 + THX CINEMA PRO LOGIC::X MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECT2 MUSIC	THX THX THX	
087 090 091 092 093 096	PRO LOGIC□X MOVIE + THX CINEMA THX MUSIC THX GAMES THX SELECT2 MUSIC	THX	
090 091 092 093 096 098	THX MUSIC THX GAMES THX SELECT2 MUSIC		
091 092 093 096 098	THX GAMES THX SELECT2 MUSIC	I HX	
092 093 096 098	THX SELECT2 MUSIC	THX	
093 096 098		THX	
098	THX SELECT2 GAMES	THX	
	CLASSICAL	ADV.SURR	
	UNPLUGGED (JAZZ)	ADV.SURR	
099 107	ROCK/POP (ROCK)  EXTENDED STEREO (7CH-STEREO)	ADV.SURR ADV.SURR	
	NEURAL THX	etc.	
123	XM HD SURROUND	etc.	
124	SACD DIRECT	etc.	
125	PCM DIRECT	etc.	
126 128	ANALOG DIRECT STEREO	etc. STEREO	
130	96KHz STEREO	STEREO	
134	192kHz STEREO	STEREO	
135	FRONT STAGE SURROUND ADVANCE FOCUS	STEREO	
136	FRONT STAGE SURROUND ADVANCE WIDE	STEREO	
137 140	AUTO LEVEL CONTROL PCM88.2kHz + PRO LOGIC	STEREO STANDARD	
141	PCM88.2kHz + PRO LOGIC   MOVIE	STANDARD	
142	PCM88.2kHz + PRO LOGIC□ MUSIC	STANDARD	
143	PCM88.2kHz + PRO LOGIC□ GAME	STANDARD	
144	PCM88.2kHz + PRO LOGIC x MOVIE (for 2ch)	STANDARD	
145 146	PCM88.2kHz + PRO LOGIC□x MUSIC (for 2ch) PCM88.2kHz + PRO LOGIC□x GAME	STANDARD STANDARD	
154	DOLBY DIGITAL + PRO LOGIC X MOVIE	STANDARD	
	DOLBY DIGITAL + PRO LOGIC□x MUSIC	STANDARD	
156	DTS + PROLIGIC□x MOVIE	STANDARD	
157	DTS + PROLIGIC × MUSIC	STANDARD	
162	PCM88.2kHz + PRO LOGIC□x MOVIE (for multichannel) PCM88.2kHz + PRO LOGIC□x MUSIC (for multichannel)	STANDARD	
163 164	PCM88.2kHz + PRO LOGIC   X MOVIE (for multichannel)	STANDARD STANDARD	+
165	PCM96kHz + PRO LOGIC × MUSIC (for multichannel)	STANDARD	
166	DTS Express	STANDARD	
167	DTS-HD HIGH RESOLUTION	STANDARD	
168	DTS-HD MASTER AUDIO DOLBY DIGITAL PLUS	STANDARD	_
169 170	DOLBY DIGITAL PLUS  DOLBY DIGITAL PLUS EX	STANDARD STANDARD	+
170	DOLBY DIGITAL PLUS EX DOLBY DIGITAL PLUS +PRO LOGIC X MOVIE	STANDARD	+
172	DOLBY DIGITAL PLUS +PRO LOGIC□x MUSIC	STANDARD	
173	DOLBY DIGITAL PLUS +PRO LOGIC□x MOVIE +THX CINEMA		
174	DOLBY trueHD	STANDARD	
175 176	DOLBY TrueHD EX DOLBY TrueHD +PRO LOGIC x MOVIE	STANDARD STANDARD	
176	DOLBY TrueHD +PRO LOGIC N MOVIE	STANDARD	+
177	DOLBY TrueHD +PRO LOGIC X MOVIE +THX CINEMA	THX	<u> </u>
179	DTS-(HD)ES 8ch Discrete	STANDARD	
181	TV SURROUND	ADV.SURR	
182	SPORTS	ADV.SURR	
183 185	GAME PHONES SURROUND	ADV.SURR ADV.SURR	
	6CH IN	STANDARD	+
202	6CH IN + EX	STANDARD	
204	7CH IN	STANDARD	
206	8CH IN	STANDARD	
	6CH IN + PRO LOGIC□x MOVIE	STANDARD	
209 210	6CH IN + PRO LOGIC□x MUSIC 6CH IN + PRO LOGIC□x MOVIE +THX CINEMA	STANDARD THX	

212	MULTI CH IN	STANDARD	
213 214	MULTI-CH IN PRO LOGIC□x GAME + THX GAMES	THX	
216	PRO LOGIC GAME + THX GAMES	THX	
219	HDMI THROUGH	etc.	
220	PRO LOGIC + THX CINEMA	THX	
221	PRO LOGIC - THX CINEMA	THX	
222	Neo:6 CINEMA + THX CINEMA	THX	
224	THX SELECT2 GAMES (for 2ch)	THX	
225	PRO LOGIC MUSIC + THX MUSIC	THX	
226	PRO LOGIC MUSIC + THX MUSIC	THX	
227	Neo:6 MUSIC + THX MUSIC	THX	
230	DOLBY DIGITAL + PRO LOGIC × MOVIE + THX CINEMA	THX	
231	DTS + PRO LOGIC X MOVIE + THX CINEMA	THX	
232	DTS-ES MATRIX6.1 + THX CINEMA	THX	
233	DTS-ES DISCRETE6.1 + THX CINEMA	THX	
235	WMA 9 Pro + PRO LOGIC X MOVIE + THX CINEMA	THX	
236	THX SELECT2 CINEMA	THX	
237	THX SELECT2 GAMES	THX	
238	PCM + PRO LOGIC□x MOVIE + THX CINEMA	THX	
239	DTS-(HD)ES 8ch Discrete +THX CINEMA	THX	
240	DTS-(HD)ES Discrete +THX CINEMA	THX	
241	DTS-(HD)ES Matrix +THX CINEMA	THX	
242	PCM + PRO LOGIC□x MUSIC + THX MUSIC	THX	
243	PCM + DOLBY EX + THX GAMES	THX	
244	DOLBY DIGITAL + PRO LOGIC□x MUSIC + THX MUSIC	THX	
245	DOLBY DIGITAL EX + THX GAMES	THX	
246	DTS + PRO LOGIC□x MUSIC + THX MUSIC	THX	
248	DTS-(HD)ES Matrix	STANDARD	
249	DTS-(HD)ES Discrete	STANDARD	
250	DVD-AUDIO + PRO LOGIC	STANDARD	
251	DVD-AUDIO + PRO LOGIC□ MOVIE	STANDARD	
252	DVD-AUDIO + PRO LOGIC□ MUSIC	STANDARD	
253	DVD-AUDIO + PRO LOGIC□ GAME	STANDARD	
254	DVD-AUDIO + PRO LOGIC □x MOVIE (for 2ch)	STANDARD	
255	DVD-AUDIO + PRO LOGIC □x MUSIC (for 2ch)	STANDARD	
256	DVD-AUDIO + PRO LOGIC□x GAME	STANDARD	
257	DVD-AUDIO + PRO LOGIC □x MOVIE (for multichannel)	STANDARD	
258	DVD-AUDIO + PRO LOGIC □x MUSIC (for multichannel)	STANDARD	
260	DVD-AUDIO 88.2k + PRO LOGIC	STANDARD	
270	DVD-AUDIO 96k + PRO LOGIC	STANDARD	
280	SACD + PRO LOGIC	STANDARD	
281	SACD + PRO LOGIC□ MOVIE	STANDARD	
282	SACD + PRO LOGIC□ MUSIC	STANDARD	
283	SACD + PRO LOGIC□ GAME	STANDARD	
284	SACD + PRO LOGIC□x MOVIE (for 2ch)	STANDARD	
285	SACD + PRO LOGIC□x MUSIC (for 2ch)	STANDARD	
286	SACD + PRO LOGIC□x GAME	STANDARD	
287	SACD + PRO LOGIC□x MOVIE (for multichannel)	STANDARD	
288	SACD + PRO LOGIC□x MUSIC (for multichannel)	STANDARD	
300	PCM 88.2KHz	STANDARD	
302	PCM 176.4KHz	STANDARD	
303	PCM 192KHz	STANDARD	
304	PCM 88.2KHz STEREO	STEREO	
305	PCM 96KHz STEREO	STEREO	
306	PCM 176.4KHz STEREO	STEREO	
000	DOM 100KU OTEDEO	CTEDEO	
307	PCM 192KHz STEREO	STEREO	
	DTS 96/24 STEREO	STEREO	
307	DTS 96/24 STEREO DTS + Neo:6	STEREO STANDARD	
307 322	DTS 96/24 STEREO	STEREO	
307 322 324	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX	STEREO STANDARD STANDARD STANDARD	
307 322 324 330 331 332	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX PCM 96 +EX	STEREO STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX PCM 96 +EX PCM + PRO LOGIC x MOVIE (for multichannel)	STEREO STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 334	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX PCM 96 +EX PCM + PRO LOGIC × MOVIE (for multichannel) PCM + PRO LOGIC × MUSIC (for multichannel)	STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 334 340	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM + PRO LOGIC \( \times \) MOVIE (for multichannel) PCM + PRO LOGIC \( \times \) MUSIC (for multichannel) SACD	STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 334 340 342	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM + PRO LOGIC × MOVIE (for multichannel) PCM + PRO LOGIC × MUSIC (for multichannel) SACD SACD STEREO	STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 334 340 342 344	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 96 + EX PCM 96 + EX PCM + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD SACD SACD STEREO SACD + EX	STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STEREO STEREO	
307 322 324 330 331 332 333 334 340 342 344 350	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 9 + PRO LOGIC x MOVIE (for multichannel) PCM + PRO LOGIC x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO	STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 344 340 342 344 350 351	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM + PRO LOGIC x MOVIE (for multichannel) PCM + PRO LOGIC x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 88.2KHz	STEREO STANDARD	
307 322 324 330 331 332 333 334 340 340 340 350 351 351	DTS 96/24 STEREO DTS + Neo:6 PCM + Neo:6 PCM + EX PCM 96 + EX PCM 96 + EX PCM + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD SACD SACD STEREO SACD + EX DVD-AUDIO 88.2KHz DVD-AUDIO 96KHz	STEREO STANDARD STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 340 340 342 350 351 352 356	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD SACD SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 88.2KHz DVD-AUDIO 96KHz DVD-AUDIO 96KHz DVD-AUDIO STEREO	STEREO STANDARD	
307 322 324 330 331 332 333 340 342 342 345 350 351 356 358	DTS 96/24 STEREO DTS + Neo:6 PCM + Neo:6 PCM + EX PCM 96 + EX PCM 96 + EX PCM + PRO LOGIC∷x MOVIE (for multichannel) PCM + PRO LOGIC∷x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO 98.2KHz DVD-AUDIO 98.2KHz DVD-AUDIO 98.2KHz DVD-AUDIO 88.2KHz DVD-AUDIO 88.2KHz DVD-AUDIO 88.2KHz DVD-AUDIO 88.2KHz DVD-AUDIO 88.2KHz	STEREO STANDARD STEREO	
307 322 324 330 331 332 333 334 340 342 344 350 351 351 352 356 358	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 88.2 + EX PCM 96 + EX PCM + PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO DVD-AUDIO 88.2KHz DVD-AUDIO 98KHz DVD-AUDIO 98KHz DVD-AUDIO STEREO DVD-AUDIO STEREO DVD-AUDIO 88.2KHz STEREO DVD-AUDIO 98.2KHz STEREO DVD-AUDIO 98KHz STEREO	STEREO STANDARD STEREO STANDARD STEREO STEREO STEREO STEREO	
307 322 324 330 331 332 333 334 340 342 344 350 351 356 358 360 362	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 96KHz DVD-AUDIO STEREO DVD-AUDIO 36 ZKHz STEREO DVD-AUDIO 96KHz STEREO DVD-AUDIO 96KHz STEREO DVD-AUDIO 96KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 176KHz STEREO	STEREO STANDARD STEREO STEREO STEREO STEREO	
307 322 324 330 331 332 333 344 340 342 344 350 351 352 356 360 362	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 97 + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO 98.2KHz DVD-AUDIO 98.2KHz DVD-AUDIO STEREO DVD-AUDIO 98.2KHz STEREO DVD-AUDIO 98.2KHz STEREO DVD-AUDIO 98.2KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO	STEREO STANDARD STEREO STEREO STEREO STEREO	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 358 360 362 363	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 88.2 + EX PCM 96 + EX PCM + PRO LOGIC x MOVIE (for multichannel) PCM + PRO LOGIC x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD STEREO SACD + EX DVD-AUDIO 98/Hz DVD-AUDIO 98/Hz DVD-AUDIO 98/Hz DVD-AUDIO 98/Hz DVD-AUDIO 98/Hz STEREO DVD-AUDIO 98/Hz STEREO DVD-AUDIO 176/Hz STEREO	STEREO STANDARD STEREO	
307 322 324 330 331 332 333 334 340 342 344 350 351 352 356 363 362 363 366	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 97 + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 98.2KHz DVD-AUDIO STEREO DVD-AUDIO STEREO DVD-AUDIO 88.2KHz STEREO DVD-AUDIO 96KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 88.2KHz STEREO	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STEREO STEREO STEREO STANDARD STANDARD	
307 322 324 330 331 332 333 334 340 342 350 351 351 352 356 366 362 363 366 367	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 97 + PRO LOGIC∷X MOVIE (for multichannel) PCM + PRO LOGIC∷X MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO 98.2KHz DVD-AUDIO 98.2KHz DVD-AUDIO 98.2KHz DVD-AUDIO 98.2KHz STEREO DVD-AUDIO 98.2KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 182KHz STEREO DVD-AUDIO 188.2KHz + EX DVD-AUDIO 96KHz + EX	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 368 363 366 367 368 371	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 88.2 + EX PCM 96 + EX PCM + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO 80.2 KHz DVD-AUDIO 80.2 KHz DVD-AUDIO 96 KHz DVD-AUDIO 96 KHz DVD-AUDIO 98 X KHZ DVD-AUDIO 98 X KHZ DVD-AUDIO 98 X KHZ DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 96 KHZ + EX DVD-AUDIO 96 KHZ + EX DVD-AUDIO 96 KHZ + EX DVD-S 96 KHZ + EX DVD-S 96 KHZ + EX DVD-S 96 KHZ + EX	STEREO STANDARD STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 344 340 342 344 351 351 352 366 368 366 366 367 368 371	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 97 + PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 98.2KHz DVD-AUDIO 98KHz DVD-AUDIO STEREO DVD-AUDIO STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 188.2KHz HZ DVD-AUDIO 98KHz + EX DVD-AUDIO 98 SKHz + EX DVD-AUDIO 98 SKHz + EX DVD-AUDIO 98 SKHz + EX DVD-AUDIO 96KHz + EX DTS 96/24 + Neo:6 DTS 96/24 ES MATRIX	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 363 363 363 363 363 363 371 372	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 88.2 + EX PCM 96 + EX PCM + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO 80.2 KHz DVD-AUDIO 80.2 KHz DVD-AUDIO 96 KHz DVD-AUDIO 96 KHz DVD-AUDIO 98 X KHZ DVD-AUDIO 98 X KHZ DVD-AUDIO 98 X KHZ DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 96 KHZ + EX DVD-AUDIO 96 KHZ + EX DVD-AUDIO 96 KHZ + EX DVD-S 96 KHZ + EX DVD-S 96 KHZ + EX DVD-S 96 KHZ + EX	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STEREO STEREO STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 368 362 363 363 367 368 371 372 373	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 97 + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 88.2 KHz DVD-AUDIO 96 KHz DVD-AUDIO 96 KHz DVD-AUDIO 98 XEHz STEREO DVD-AUDIO 98 XEHZ STEREO DVD-AUDIO 96 KHZ STEREO DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 195 B6/24 + Neo:6 DTS 96/24 + Neo:6 DTS 96/24 ES MATRIX DVD-AUDIO 192 KHZ	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STEREO STEREO STANDARD	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 363 363 363 363 363 363 371 372	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX PCM 96 +EX PCM 97 + PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD +EX DVD-AUDIO DVD-AUDIO 988.2KHz DVD-AUDIO 98KHz DVD-AUDIO 98KHz DVD-AUDIO 98 SCHZ STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 184 SCHZ STEREO DVD-AUDIO 185 STEREO DVD-AUDIO 185 STEREO DVD-AUDIO 186 SCHZ STEREO DVD-AUDIO 186 SCHZ +EX DVD-AUDIO 186 SCHZ +EX DVD-AUDIO 186 SCHZ +EX DTS 96/24 + Neo:6 DTS 96/24 + S MATRIX DVD-AUDIO 176KHz	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STEREO STEREO STEREO STANDARD	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 360 362 363 363 367 368 371 372 373	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 97 + PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 88.2 KHz DVD-AUDIO 96 KHz DVD-AUDIO 96 KHz DVD-AUDIO 98 XEHz STEREO DVD-AUDIO 98 XEHZ STEREO DVD-AUDIO 96 KHZ STEREO DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 192 KHZ STEREO DVD-AUDIO 195 B6/24 + Neo:6 DTS 96/24 + Neo:6 DTS 96/24 ES MATRIX DVD-AUDIO 192 KHZ	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STEREO STEREO STANDARD	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 368 360 362 363 363 366 367 368 371 372 374 380	DTS 96/24 STEREO   DTS + Neo:6   PCM + EX   PCM 88.2 + EX   PCM 88.2 + EX   PCM 96 + EX   PCM + PRO LOGIC   x MOVIE (for multichannel)   PCM + PRO LOGIC   x MUSIC (for multichannel)   SACD   SACD   STEREO   SACD STEREO   SACD STEREO   SACD STEREO   SACD STEREO   DVD-AUDIO 88.2KHz   DVD-AUDIO 98KHz   DVD-AUDIO 98KHz   DVD-AUDIO 98KHz   DVD-AUDIO 98KHz   DVD-AUDIO 98KHz   DVD-AUDIO 98KHz STEREO   DVD-AUDIO 176KHz STEREO   DVD-AUDIO 176KHz STEREO   DVD-AUDIO 192KHz STEREO   DVD-AUDIO 192KHz STEREO   DVD-AUDIO 192KHz STEREO   DVD-AUDIO 98KHz + EX   DTS 96/24 + Neo:6   DTS 96/24 + Neo:6   DTS 96/24 ES MATRIX   DVD-AUDIO 176KHz   DVM-AUDIO 176KHZ   DVM-AU	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STANDARD	
307 322 324 330 331 332 333 334 340 342 344 350 351 352 356 363 360 362 363 363 363 371 372 374 374 380	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 96 + EX PCM PRO LOGIC X MOVIE (for multichannel) PCM + PRO LOGIC X MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 88.2KHz DVD-AUDIO 88.2KHz DVD-AUDIO STEREO DVD-AUDIO 98KHz DVD-AUDIO 98KHz DVD-AUDIO 98KHz STEREO DVD-AUDIO 96KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 195KHz + EX DVD-AUDIO 195KHz + EX DVD-AUDIO 195KHz WMA 9 PRO + EX	STEREO STANDARD	
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307 322 324 330 331 332 333 334 340 342 351 351 352 356 360 366 366 367 368 371 372 373 373 374 380 382 384 385 384	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 96 + EX PCM PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 96KH2 DVD-AUDIO 96KH2 DVD-AUDIO STEREO DVD-AUDIO STEREO DVD-AUDIO 95 EX STEREO DVD-AUDIO 96KH2 STEREO DVD-AUDIO 96KH2 STEREO DVD-AUDIO 192KH2 STEREO DVD-AUDIO 192KH2 STEREO DVD-AUDIO 195KH2 + EX DVD-AUDIO 195KH2 + EX DVD-AUDIO 195KH2 WMA 9 PRO + PRO LOGIC □ x MOVIE WMA 9 PRO + PRO LOGIC □ x MOVIE WMA 9 PRO + PRO LOGIC □ x MOVIE DTS + Neo:6 + THX MUSIC	STEREO STANDARD	
307 322 324 330 331 331 332 333 334 340 342 344 350 351 352 366 362 363 363 363 363 363 363 363 36	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 88.2 + EX PCM 96 + EX PCM 9 + PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO 98KHz DVD-AUDIO 198KHz STEREO DVD-AUDIO 98KHz STEREO DVD-AUDIO 198KHz + EX DTS 96/24 ES MATRIX DVD-AUDIO 176KHz DVD-AUDIO 176KHz DVD-AUDIO 178KHZ DVD-AUDIO 179KHZ WMA 9 PRO + PRO LOGIC □ x MOVIE WMA 9 PRO + PRO LOGIC □ x MUSIC DTS + Neo:6 + THX GAMES DTS-ES MATRIX6.1 + THX MUSIC	STEREO STANDARD STEREO STEREO STEREO STEREO STEREO STANDARD THX	
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307 322 324 330 331 332 333 340 342 344 350 351 352 356 360 363 366 363 367 368 371 372 373 374 380 382 384 385 385 387 397 398 399 391 393 394 395 396	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 96 + EX PCM 96 + EX PCM PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD + EX DVD-AUDIO DVD-AUDIO 88.2 KHz DVD-AUDIO 96 KHz DVD-AUDIO 96 KHz DVD-AUDIO 96 KHz DVD-AUDIO 98 X KHz STEREO DVD-AUDIO 98 X KHz STEREO DVD-AUDIO 192 KHz STEREO DVD-AUDIO 192 KHz STEREO DVD-AUDIO 192 KHz STEREO DVD-AUDIO 196 KHz STEREO DVD-AUDIO 197 KHZ STEREO DVD-AUDIO	STEREO STANDARD STAND	
307 322 324 330 331 332 333 334 340 342 350 351 351 352 356 366 362 363 366 367 368 371 373 374 373 374 382 383 384 385 385 386 387	DTS 96/24 STEREO DTS + Neo:6 PCM + EX PCM 88.2 + EX PCM 88.2 + EX PCM 96.4 EX PCM 97 PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD STEREO DVD-AUDIO 98.4 EX DTS 96/24 ES MATRIX DVD-AUDIO 176.4 EX WMA 9 PRO + PRO LOGIC □ x MUSIC DTS + Neo:6 + THX GAMES DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX MUSIC DTS-ES BISCRETE6.1 + THX MUSIC DTS-ES DISCRETE6.1 + THX MUSIC DTS-ES DISCRETE6.1 + THX MUSIC DTS-(HD)ES 8ch Discrete + THX GAMES	STEREO STANDARD STAND	
307 322 324 330 331 332 333 334 340 342 344 350 351 356 363 366 362 363 366 367 368 371 372 374 380 382 384 384 384 385 386 387 391 392 393 394	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX PCM 88.2 +EX PCM 96 +EX PCM 96 +EX PCM + PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD STEREO SACD STEREO SACD STEREO SACD STEREO DVD-AUDIO 98KHz DVD-AUDIO 98KHz DVD-AUDIO 98KHz DVD-AUDIO 98KHz DVD-AUDIO 98KHz DVD-AUDIO 176KHz STEREO DVD-AUDIO 176KHz STEREO DVD-AUDIO 192KHz NOVIE DVD-AUDIO 192KHz DVD-AUDIO 176KHz DVD-	STEREO STANDARD STAND	
307 322 324 330 331 332 333 334 340 342 351 351 352 356 366 363 366 363 366 367 368 371 372 373 373 374 380 382 385 380 382 393 394 395 396 397 398 399	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX PCM 88.2 +EX PCM 98.2 +EX PCM 9 + PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD SACD STEREO SACD STEREO SACD +EX DVD-AUDIO 80 ,	STEREO STANDARD STAND	
307 322 324 330 331 332 333 334 340 342 350 351 352 356 366 362 363 363 366 367 368 371 372 373 374 380 382 393 391 392 393 394 396 397 398 399 400 401 401	DTS 96/24 STEREO DTS + Neo:6 PCM +EX PCM 88.2 +EX PCM 88.2 +EX PCM 96 +EX PCM 97 + PRO LOGIC □ x MOVIE (for multichannel) PCM + PRO LOGIC □ x MUSIC (for multichannel) SACD SACD STEREO SACD STEREO SACD STEREO SACD STEREO DVD-AUDIO 98KHz STEREO DVD-AUDIO 198KHz STEREO DVD-AUDIO 198KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 98KHz STEREO DVD-AUDIO 98 SZHZ +EX DVD-AUDIO 98KHZ STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz STEREO DVD-AUDIO 192KHz +EX DTS 96/24 ES MATRIX DVD-AUDIO 192KHZ WMA 9 PRO + PRO LOGIC □ x MOVIE WMA 9 PRO + PRO LOGIC □ x MUSIC DTS + Neo:6 + THX MUSIC DTS + Neo:6 + THX MUSIC DTS + SES MATRIX6.1 + THX GAMES DTS-ES DISCRETEG.1 + THX MUSIC DTS-(HD)ES 8ch Discrete +THX GAMES DTS-(HD)ES Matrix +THX MUSIC DTS-(HD)ES Matrix +THX MUSIC DTS-(HD)ES Matrix +THX GAMES MPEG-2 AAC + PRO LOGIC □ x MUSIC + THX MUSIC DTS-(HD)ES Matrix +THX GAMES MPEG-2 AAC + PRO LOGIC □ x MUSIC + THX MUSIC	STEREO STANDARD STAND	
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