A/V Receiver Control Commands List

About Response iPod meta data

Response Command	Function	Parameter
GBI(data1) <CR+LF>	Maximum number of list	(data1): Maximum number of list (2byte) 00~99

GCI(data2)
(data3)
(data4)
(data5)
(data6)
(data7)
(data8)
(data9)
(data10)
(data11)
(data12)
(data13)
(data14)
(data15)
(data16)
(data17)
(data18)
<CR+LF>
	Screen Information	(data2): Screen type (2byte)
		  00:Massage
		  01:List
		  02:Playing(Play)
		  03:Playing(Pause)
		  04:Playing(Fwd)
		  05:Playing(Rev)
		  06:Playing(Stop)
		  07:Waiting
		  99:Drawing invalid
		(data3): Hierarchical list update flag (1byte)
		  0:Same hierarchy
		  1:Updated hierarchy (Next or Previous list)
		(data4): Top Menu Key Information
		  0:Invalidity
		  1:Effectiveness
		(data5): iPod Control Key Information
		  0:Invalidity
		  1:Effectiveness
		(data6): Return Key Information
		  0:Invalidity
		  1:Effectiveness
		(data7): Reserved
		  0:always
		(data8): Shuffle type (1byte)
		  0:Shuffle OFF
		  1:Shuffle ON
		(data9): Repeat type (1byte)
		  0:Repeat OFF
		  1:Repeat ONE
		  2:Repeat ALL
		(data10): Search Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data11): Sort Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data12): Scan Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data13): Seek Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data14): Sort type (1byte)
		  0:None
		  1:TrackNumber
		  2:Title
		(data15): Display Key Information(1byte)
		  0:Stop
		  1:Pause
		  2:Play
		  (In case of iOS device, even if it is in pause,
		  data15 will be returned as 2:Play.)
		(data16): Reserved (for future use)
		  0:always
		(data17): Reserved (for future use)
		  0:always
		(data18): Screen name
		  "(UTF-8 code character max 128byte)"

GDI(data19)
(data20)
(data21)
<CR+LF>
	List & Line Information	(data19): Item number of line 1(5byte)
		  00001-99999
		(data20): Item number of last line(5byte)
		  00001-99999
		(data21): Total number of items List(5byte)
		  00001-99999

GEI
(data22)
(data23)
(data24)
(data25)
<CR+LF>
	Display Information
	(GES Command responsed
	the number of Line.)
		(data22): Line number (2byte)
		  00~(data1)
		(data23): Focus information (1byte)
		  0:No
		  1:YES
		  9:GUI Gray Out
		(data24): Line data type or Playing data Type
		  00:Normal(no mark type)
		  01:Directory
		  02:Music
		  03:Photo
		  04:Video
		  05:Now Playing
		  20:Track
		  21:Artist
		  22:Album
		  23:Time
		  24:Genre
		  25:Chapter number
		  26:Format
		  27:Bit Per Sample
		  28:Sampling Rate
		  29:Bitrate
		  31:Buffer
		  32:Channel
		  33:Station
		  34:Total Time
		(data25): Display line information
		  "(UTF-8 code character max 128byte)"

GHH(data1) <CR+LF>	Source Information	See next "About Response NETWORK meta data.

About Response NETWORK meta data

Response Command	Function	Parameter
GBH(data1) <CR+LF>	Maximum number of list	(data1): Maximum number of list (2byte) 00~99

GCH(data2)
(data3)
(data4)
(data5)
(data6)
(data7)
(data8)
(data9)
(data10)
(data11)
(data12)
(data13)
(data14)
(data15)
(data16)
(data17)
(data18)
<CR+LF>
	Screen Information	(data2): Screen type (2byte)
		  00:Massage
		  01:List
		  02:Playing(Play)
		  03:Playing(Pause)
		  04:Playing(Fwd)
		  05:Playing(Rev)
		  06:Playing(Stop)
		  07:Waiting
		  99:Drawing invalid
		(data3): Hierarchical list update flag (1byte)
		  0:Same hierarchy
		  1:Updated hierarchy (Next or Previous list)
		(data4): Top Menu Key Information
		  0:Invalidity
		  1:Effectiveness
		(data5): Tools (Menu,Edit,etc) Key Information
		  0:Invalidity
		  1:Effectiveness
		(data6): Return Key Information
		  0:Invalidity
		  1:Effectiveness
		(data7): Reserved
		  0:always
		(data8): Shuffle type (1byte)
		  0:Shuffle OFF
		  1:Shuffle ON
		(data9): Repeat type (1byte)
		  0:Repeat OFF
		  1:Repeat ONE
		  2:Repeat ALL
		(data10): Search Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data11): Sort Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data12): Scan Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data13): Seek Key Information(1byte)
		  0:Invalidity
		  1:Effectiveness
		(data14): Sort type (1byte)
		  0:None
		  1:TrackNumber
		  2:Title
		(data15): Display Key Information(1byte)
		  0:Stop
		  1:Pause
		  2:Play
		(data16): Reserved (for future use)
		  0:always
		(data17): Reserved (for future use)
		  0:always
		(data18): Screen name
		  "(UTF-8 code character max 128byte)"

GDH(data19)
(data20)
(data21)
<CR+LF>
	List & Line Information	(data19): Item number of line 1(5byte)
		  00001-99999
		(data20): Item number of last line(5byte)
		  00001-99999
		(data21): Total number of items List(5byte)
		  00001-99999

GEH
(data22)
(data23)
(data24)
(data25)
<CR+LF>
	Display Information
	(GES Command responsed
	the number of Line.)
		(data22): Line number (2byte)
		  00~(data1)
		(data23): Focus information (1byte)
		  0:No
		  1:Yes
		  9:GUI Gray Out
		(data24): Line data type or Playing data Type
		  00:Normal(no mark type)
		  01:Directory
		  02:Music
		  03:Photo
		  04:Video
		  05:Now Playing
		  20:Track
		  21:Artist
		  22:Album
		  23:Time
		  24:Genre
		  25:Chapter number
		  26:Format
		  27:Bit Per Sample
		  28:Sampling Rate
		  29:Bitrate
		  31:Buffer
		  32:Channel
		  33:Station
		  34:Total Time
		(data25): Display line information
		  "(UTF-8 code character max 128byte)"

GHH(data1)
<CR+LF>
	Source Information	(data1): Source Information (2byte)
		  00:Internet Radio
		  01:MEDIA SERVER
		  02:iPod
		  03:USB
		  04:(Reserved)
		  05:BT AUDIO
		  07:PANDORA
		  08:Spotify
		  09:Spotify Remote
		  10:AirPlay
		  11:Digital Media Renderer(DMR)
		  99:(Indeterminate)