Section D - Commands

The Peak series of matrices have a number of commands for control and query to allow full control. Each command is listed in this section with a description and example to help understand the commands.

The following commands are available:

Audio Routing and Status

MXxxAiioo	audio input to output	A4
MXxxAiio1,o2,o3,o4,o5,o6,o7,o8	audio input to multiple outputs	A4
MXxxAAii	audio input to all outputs	A4
MXxxABooyy	balance	A4
MXxxABAyy	balance for all outputs	A4
MXxxAFoo	audio output off	A5
MXxxAMoo	audio mute (on, off, toggle)	A5
MXxxAPiiyy	Sensitivity	A5
MXxxAPAyy	all inputs to sensitivity yy	A5
MXxxAUooyy	Volume to a paricular	A5
MXxxAUAyy	all outputs to volume level yy	A6
MXxxAYoo	Volume step up	A6
MXxxAZoo	Volume step down	A6
MXxxSA(oo)	status of audio route (s)	A6
MXxxSAA	status of all audio items	
MXxxSAB(oo)	status of audio balance(s)	
MXxxSAM(oo)	status of of audio mute(s)	
MXxxSAP(ii)	status of sensitivity level(s)	
MXxxSAU(oo)	status of volume level(s)	
MXxxZ50ooyy	set maximum volume for output	
MXxxZ51	read all maximum volume settings	
MXxxZ57y	set volume enable	
MXxxZ58	read volume enable	
MXxxZ59y	set sensitivity enable	
MXxxZ60	read sensitivity enable	

Video Routing and Status

MXxxViioo	Video input to output
MXxxViio1,o2,o3,o4,o5,o6,o7,o8	video input to multiple outputs
MXxxVFoo	video output off
MXxxVAii	route video input to all outputs
MXxxSV(oo)	status of video route(s)

Digital Audio Routing and Status

MXxxDiioo	Digital input to output
MXxxDiio1,o2,o3,o4,o5,o6,o7,o8	input to multiple outputs
MXxxDAii	send Digital input to all
MXxxDFoo	Digital output off
MXxxSD(oo)	status of digital route(s)

Audio/Video/Digital Routing and Status

MXxxBiioo	A/D/V input to output
MXxxBiio1,o2,o3,o4,o5,o6,o7,o8	input to multiple outputs
MXxxBAii	send A/D/V input to all
MXxxBFoo	A/D/V output off
MXxxBS	A/D/V straight through
MXxxSB(oo)	status of A/D/V route(s)

General Status

MXxxS ..... all status returned

Configuration Commands

MXxxZ01 ..... read audio inputs
MXxxZ02 ..... read video inputs
MXxxZ03 ..... read audeo outputs
MXxxZ04 ..... read video outputs
MXxxZ05 ..... read option flags
MXxxZ06 ..... read hardware type (model number)
MXxxZ07 ..... read hardware code
MXxxZ08 ..... read hardware revision
MXxxZ09 ..... read software revision
MXxxZ10 ..... read serial number
MXxxZ11 ..... read mfg date
MXxxZ13 ..... set/read enable/disable front panel control
MXxxZ17 ..... set/read volume mode
MXxxZ18 ..... set/read mute release mode
MXxxZ21 ..... set/read response mode
MXxxZ53 ..... Set/Read select digital with analog
MXxxZ54 ..... Set/Read select digital with video

IR Teaching Commands

MXxxZ52 ..... Teach IR code
MXxxZ56vv..... Set/read number of times to repeat on IR teaching

Preset Commands

MXxxZ23yy..... set preset name
MXxxZ24yy..... read preset name
MXxxZ25yy..... clear preset name
MXxxZ26xxyyiioo ..... set audio preset
MXxxZ27xxyy ..... read audio preset
MXxxZ28xxyy ..... clear audio preset
MXxxZ29xxyyiioo ..... set digital preset
MXxxZ30xxyy ..... read digital preset
MXxxZ31xxyy ..... clear digital preset
MXxxZ32xxyyiioo ..... set video preset
MXxxZ33xxyy ..... read video preset
MXxxZ34xxyy ..... clear video preset
MXxxZ35xxyyiioo ..... set A/D/V preset
MXxxZ36xxyy ..... read A/D/V preset
MXxxZ37xxyy ..... clear A/D/V preset
MXxxZ38xxyyiioo ..... set volume Preset
MXxxZ39iioo..... read volume Preset
MXxxZ40ooyy..... clear volume Preset
MXxxZ41xxyyiioo ..... set balance Preset
MXxxZ42iioo..... read balance Preset
MXxxZ43ooyy..... clear balance Preset
MXxxZ44xxyyiioo ..... set Sensitivity Preset
MXxxZ45ooyy..... read Sensitivity Preset
MXxxZ46ooyy..... clear Sensitivity Preset
MXxxZ47pp ..... Save current setup as preset no. pp
MXxxZ48xx..... read complete preset
MXxxZ49xx..... run preset number xx

MXxxZ98 ..... reset unit
MXxxZ99 ..... search for unit

Legend:

xx = unit ID number 00 to 15
ii = input number 00 to 64
oo = output number 01 to 64
yy = value to set

Audio Routing Commands

MXxxAiioo<CR>	
Route an audio input to an audio output	MX00A0103<CR>
	Routes audio input 1 to output 3
Response: MXxx-Audio=ii to oo<CR>	

MXxxAiio1,o2,o3,o4,o5,o6,o7,o8<CR>	
Route an audio input to as many as 10 outputs	MX00A0101,02,03,04,05,06,07,08,09,10<CR>
	Routes audio input 1 to outputs 1 to 8
	MX00A0101,02,03,04<CR>
	Routes audio input 1 to outputs 1 to 4
Response: MXxx-Audio=ii to oo<CR> (for each route made)	

MXxxAAii<CR>	
Routes an audio input to all outputs	MX00AA02<CR>
	Routes audio input 2 to all audio outputs
Response: MXxx-Audio=ii to oo<CR> (for each route made)	

MXxxABooyy<CR	
Sets a balance level for an output	MX00AB0249<CR>
yy=00 for full left yy=49 for center yy=99 full right	Output 2 is set for equal balance between left and right channels.
Response: MXxx-Balance oo set to yy<CR>	

MXxxAFoo<CR>	
Turn an audio output off	MX00AF03<CR>
	Turn off audio output number 3
Response: MXxx-Audio=00 to oo<CR>	

MXxxAMoo(y)<CR>	
Mute an audio output	MX00AM03<CR>
absence of (y) will result in a toggle of the mute adding (y) is optional for setting a mute directly y = 0 turns off the mute for the output y = 1 turn on the mute for the output	Toggle the mute of output 3
	MX00AM021<CR>
	Enables the mute for output 2
Response: MXxx-Audio=00 to oo<CR> (for each route made)	

MXxxAPiiyy<CR>	
Set the level adjustment for an audio input	MX00AP0132<CR>
yy = 00 to 48 yy = 32 for 0dB pass yy adjusts in 0.5dB steps	Sets audio input 1 to 0dB pass
Response: MXxx-Sensitivity ii set to yy<CR>	

MXxxAPAyy<CR>	
Set the level adjustment for all audio inputs	MX00APA32<CR>
yy = 00 to 48 yy = 32 for 0dB pass yy adjusts in 0.5dB steps	Sets all audio inputs to 0dB pass
Response: MXxx-Sensitivity ii set to yy<CR> (for each input changed)	

MXxxAUooyy<CR>	
Sets an audio output volume level	MX00AU0132<CR>
yy = 00 (-64dB Minimum) yy = 32 (0dB Pass Through) yy = 48 (+32dB Maximum)	Sets audio output 1 to 0dB pass
Response: MXxx-Volume oo to yy<CR>	

MXxxAUAyy<CR>	
Sets all audio outputs to a volume level	MX00AUA32<CR>
yy = 00 (-64dB Minimum) yy = 32 (0dB Pass Through) yy = 48 (+32dB Maximum)	Sets all audio outputs 1 to 0dB pass
Response: MXxx-Volume oo to yy<CR> (for each output changed)	

MXxxAYoo<CR>	
Step an audio output volume up one level	MX00AY03<CR>
	Step up audio output number 3 up one step
Response: MXxx-Volume oo to yy<CR>	

MXxxAZoo<CR>	
Step an audio output volume down one level	MX00AY03<CR>
	Step down audio output number 3 up one step
Response: MXxx-Volume oo to yy<CR>	

MXxxSA(oo)<CR>	
Query for the status of an audio route.	MX00SA<CR>
	Returns the status of all the audio routes
	MX00SA04<CR>
	Returns the routing status of audio output number 4
Response: MXxx-Audio=ii to oo<CR> (each output will be sent if output number not specified)	

MXxxSAB(oo)<CR>	
Query for the status of an audio output balance	MX00SAB<CR>
	Returns the balance status of all the audio outputs
	MX00SAB04<CR>
	Returns the balance status of audio output number 4
Response: MXxx-Balance oo set to yy<CR> (each output will be sent if output number not specified)	

MXxxSAM(oo)<CR>	
Query for the mute status of an audio output	MX00SAM<CR>
	Returns the mute status of all the audio outputs
	MX00SAM04<CR>
	Returns the mute status of audio output number 4
Response: MX00-Output 01 is Muted<CR> (each output will be sent if output number not specified)	

MXxxSAP(oo)<CR>	
Query for the status of an audio input level	MX00SAP<CR>
	Returns the level of all the audio inputs
	MX00SAP04<CR>
	Returns the level of audio input number 4
Response: MXxx-Sensitivity ii set to yy<CR> (each input will be sent if input number not specified)	

MXxxSAU(oo)<CR>	
Query for the status of an audio output volume	MX00SAP<CR>
	Returns the volume of all the audio outputs
	MX00SAP04<CR>
	Returns the volume of audio output number 4
Response: MXxx-Volume oo to yy<CR> (each output will be sent if output number not specified)	

MXxxZ50ooyy<CR>	
Set the maximum volume level for an output	MX00Z500432<CR>
yy=00 to 48	Set the maximum volume for output 4 to 32
Response: MXxx-Max Out Level for oo = yy<CR>	

MXxxZ51<CR>	
Read the maximum volume level for all outputs	MX00Z51<CR>
	Read all output maximum volume levels
Response: MXxx-Max Out Level for oo = yy<CR> (each output will be sent)	

MXxxZ57y<CR>	
Enable/Disable volume control	MX00Z570<CR>
y=0 to disable volume control	Disable volume control in the matrix
y=1 to enable volume control	
	MX00Z571<CR>
	Enable volume control in the matrix
Response: MXxx-Volume control enabled<CR> **Response: MXxx-Volume control disabled<CR>**	

MXxxZ58<CR>	
Read volume control enable/disable status	MX00Z58<CR>
	Get the status of volume control ability
Response: MXxx-Volume control enabled<CR> **Response: MXxx-Volume control disabled<CR>**	

MXxxZ59y<CR>	
Enable/Disable sensitivty control	MX00Z590<CR>
y=0 to disable sensitivty control	Disable sensitivty control in the matrix
y=1 to enable sensitivty control	
	MX00Z591<CR>
	Enable sensitivty control in the matrix
Response: MXxx-Sensitivity control enabled<CR> **Response: MXxx-Sensitivity control disabled<CR>**	

MXxxZ60<CR>	
Read sensitivty control enable/disable status	MX00Z60<CR>
	Get the status of sensitivty control ability
Response: MXxx-Sensitivity control enabled<CR> **Response: MXxx-Sensitivity control disabled<CR>**	

Video Routing Commands

MXxxViioo<CR>	
Route a video input to an video output	MX00V0103<CR>
	Routes video input 1 to output 3
Response: MXxx-Video=ii to oo<CR>	

MXxxViio1,o2,o3,o4,o5,o6,o7,o8,o9,o10<CR>	
Route an video input to as many as 10 outputs	MX00V0101,02,03,04,05,06,07,08,09,10<CR>
	Routes video input 1 to outputs 1 to 10
	MX00V0101,02,03,04<CR>
	Routes video input 1 to outputs 1 to 4
Response: MXxx-Video=ii to oo<CR> (for each route made)	

MXxxVAii<CR>	
Routes a video input to all outputs	MX00VA02<CR>
	Routes video input 2 to all video outputs
Response: MXxx-Video=ii to oo<CR> (for each route made)	

MXxxVFoo<CR>	
Turn a video output off	MX00VF03<CR>
	Turn off video output number 3
Response: MXxx-Video=00 to oo<CR>	

MXxxSV(oo)<CR>	
Query for the status of a video route.	MX00SV<CR>
	Returns the status of all the video routes
	MX00SV04<CR>
	Returns the routing status of video output number 4
Response: MXxx-Video=ii to oo<CR> (each output will be sent if output number not specified)	

Digital Routing Commands

MXxxDiioo<CR>	
Route an digital input to an a/v output	MX00D0103<CR>
	Routes digital input 1 to output 3
Response: MXxx-Digital=ii to oo<CR>	

MXxxDiio1,o2,o3,o4,o5,o6,o7,o8,o9,o10<CR>	
Route an digital input to as many as 10 outputs	MX00D0101,02,03,04,05,06,07,08,09,10<CR>
	Routes digital input 1 to outputs 1 to 10
	MX00D0101,02,03,04<CR>
	Routes digital input 1 to outputs 1 to 4
Response: MXxx-Digital=ii to oo<CR> (for each route made)	

MXxxDAii<CR>	
Routes an a/v input to all outputs	MX00DA02<CR>
	Routes digital input 2 to all digital outputs
Response: MXxx-Digital=ii to oo<CR> (for each route made)	

MXxxDFoo<CR>	
Turn an digital output off	MX00DF03<CR>
	Turn off digital output number 3
Response: MXxx-Digital=00 to oo<CR>	

MXxxSD(oo)<CR>	
Query for the status of an digital route.	MX00SD<CR>
	Returns the status of all the digital routes
	MX00SD04<CR>
	Returns the routing status of digital output number 4
Response: MXxx-Digital=ii to oo<CR> (each output will be sent if output number not specified)	

MXxxZ53(y)<CR>	
Set/Read select digital with analog	MX00Z530<CR>
y = 0 digital will not switch with analog audio	Disconnect digital from routing with analog audio
y = 1 digital will switch with analog audio	
if y is not used the current setting will be returned	
Response: MXxx-Digital will not switch with audio<CR>	

MXxxZ54(y)<CR>	
Set/Read select digital with video	MX00Z541<CR>
y = 0 digital will not switch with video	Disconnect digital from routing with video
y = 1 digital will switch with video	
if y is not used the current setting will be returned	
Response: MXxx-Digital will switch with video<CR>	

A/V Routing Commands

MXxxBiioo<CR>	
Route an a/v input to an a/v output	MX00B0103<CR>
	Routes a/v input 1 to output 3
Response: MXxx-A/V=ii to oo<CR>	

MXxxBiio1,o2,o3,o4,o5,o6,o7,o8,o9,o10<CR>	
Route an a/vinput to as many as 10 outputs	MX00B0101,02,03,04,05,06,07,08,09,10<CR>
	Routes a/v input 1 to outputs 1 to 10
	MX00B0101,02,03,04<CR>
	Routes a/v input 1 to outputs 1 to 4
Response: MXxx-A/V=ii to oo<CR> (for each route made)	

MXxxBAii<CR>	
Routes an a/v input to all outputs	MX00BA02<CR>
	Routes a/v input 2 to all video outputs
Response: MXxx-A/V=ii to oo<CR> (for each route made)	

MXxxBFoo<CR>	
Turn an a/v output off	MX00BF03<CR>
	Turn off a/v output number 3
Response: MXxx-A/V=00 to oo<CR>	

MXxxSB(oo)<CR>	
Query for the status of an a/v route.	MX00SB<CR>
	Returns the status of all the a/v routes
	MX00SB04<CR>
	Returns the routing status of a/v output number 4
Response: MXxx-A/V=ii to oo<CR> (each output will be sent if output number not specified)	

Configuration Commands

MXxxZ01<CR>	
Query how many audio inputs installed	MX00Z01<CR>
	Query how many audio inputs are installed
Response: MXxx-Audio inputs = yy<CR>	

MXxxZ02<CR>	
Query how many video inputs installed	MX00Z02<CR>
	Query how many video inputs are installed
Response: MXxx-Video inputs = yy<CR>	

MXxxZ03<CR>	
Query how many audio outputs installed	MX00Z03<CR>
	Query how many audio outputs are installed
Response: MXxx-Audio outputs = yy<CR>	

MXxxZ04<CR>	
Query how many video outputs installed	MX00Z04<CR>
	Query how many video outputs are installed
Response: MXxx-Video outputs = yy<CR>	

MXxxZ06<CR>	
Query matrix model number	MX00Z06<CR>
	Query for the model number of the matrix
Response: MXxx-Model No. = MX-0808NAD/R<CR>	

MXxxZ07<CR>	
Query for the matrix hardware level	MX00Z07<CR>
	Query for the hardware level in the matrix
Response: MXxx-Hardware Code = MTX-1616-B<CR>	

MXxxZ08<CR>	
Query matrix hardware revision level	MX00Z08<CR>
	Query how many video outputs are installed
Response: MXxx-Hardware revision = 1.000<CR>	

MXxxZ09<CR>	
Query for the matrix software revision level	MX00Z09<CR>
	Query for the software level in the matrix
Response: MXxx-Software revision = 1.000<CR>	

MXxxZ10<CR>	
Query for the matrix serial number	MX00Z10<CR>
	Query for the serial number of the matrix
Response: MXxx-Serial No. = MTX09B1000<CR>	

MXxxZ13y<CR>	
Enable/Disable front panel controls	MX00Z131<CR>
y = 0 for disable	Enables front panel controls (default mode)
y = 1 for enable	
Response: MXxx-Front Panel is (locked/unlocked)<CR>	

MXxxZ17y<CR>	
Set volume mode to linear or logarithmic	MX00Z251<CR>
y = 0 for linear	Sets volume to logarithmic mode (default mode)
y = 1 for logarithmic	
Response: MXxx-Volume is Logarithmic<CR>	

MXxxZ18y<CR>	
Set mute release on volume change	MX00Z251<CR>
y = 0 to keep mute on when volume is changed	Sets mute release to on (default mode)
y = 1 to turn mute off when volume is changed	
Response: MXxx-Mute Release is (Enabled/Disabled)<CR>	