

iSwitch 2000/ 265

Control Command Protocol

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iSwitch 2000C/ 265C Advanced Control Module Help

FW Version: 1.00.53

Note: Parameters In Brackets [] Are Optional

===== System Information Commands

? : Print Help Information

HELP : Print Help Information

STATUS : Print System Status And Device Status

===== System Control Commands

RSB x : Set RS232 Baud Rate to X bps

x=[0:115200 1:57600, 2:38400, 3:19200, 4:9600]

RESET : Reset System To Default Settings, Excluding Network Settings

RESET NB : Reset Network To Default Settings

RESET ALL : Reset System And Network To Default Settings

Note: Should Type "Yes" To Confirm Reset, "No" To Cancel

===== Input And Output Device Control Commands

OUT ooo ID id : Set Output ooo To ID id, If New ID Exists Then Swap Them,

Note: Device Must Be Online

OUT ooo FR yyy : Set Output ooo From Input yyy

OUT ooo VFR yyy : Fix Video Output ooo From Input yyy

OUT ooo AFR yyy : Fix Audio Output ooo From Input yyy

OUT ooo RFR yyy : Fix IR Output ooo From Input yyy

OUT ooo SFR yyy : Fix RS232 Output ooo From Input yyy

OUT ooo UFR yyy : Fix USB Output ooo From Input yyy

OUT ooo CFR yyy : Fix CEC Output ooo From Input yyy

OUT ooo HDR ON/OFF : Set Output ooo HDR On Or Off

OUT ooo CEC ON/OFF : Set Output ooo CEC On Or Off

OUT ooo CEC SEND xx xx : Send CEC data to Output ooo, xx is hex data

OUT ooo IR SEND xxxx xxxx : Send IR data to Output ooo, xxxx is hex data

OUT ooo OSD ON : Set Output ooo Show ID OSD

OUT ooo OSD OFF : Set Output ooo Hide ID OSD

OUT ooo FLS ON : Set Output ooo Flash Power LED
OUT ooo FLS ON time : Set Output ooo Flash Power LED for time Seconds
OUT ooo FLS OFF : Set Output ooo Disable Flash Power LED
OUT ooo DEL : Delete Output ooo From Current Project Config
OUT ooo RES rr : Set Output ooo Resolution To rr
OUT ooo ROTATE tt : Set Output ooo Rotation To tt
OUT ooo NAME name : Set Output ooo Device Name To name
OUT ooo MODE MX/VW : Set Output ooo To Matrix Or Video Wall Mode
OUT ooo SG [ON/OFF] [BR br] [BIT bit] : Set Output ooo Serial Guest Mode Config
OUT ooo GUEST: Start Serial Guest Mode To Output ooo

Note: To Close Guest Mode Use Command CLOSEGUEST

OUT [ooo] STATUS : Show Output ooo Detailed Status
OUT PRESET IM mm : Set Output Preset IP Mode
OUT PRESET IP S xxx.xxx.xxx.xxx : Set Output Preset IP Start Address
OUT PRESET IP E xxx.xxx.xxx.xxx : Set Output Preset IP End Address
OUT PRESET SM xxx.xxx.xxx.xxx : Set Output Preset Subnet Mask Address
OUT PRESET GW xxx.xxx.xxx.xxx : Set Output Preset Gateway Address
OUT PRESET APPLY : Output Preset Apply New Config
OUT ooo IM mm : Set Output ooo IP Mode
OUT ooo IP xxx.xxx.xxx.xxx : Set Output ooo IP Address
OUT ooo GW xxx.xxx.xxx.xxx : Set Output ooo Gateway Address
OUT ooo SM xxx.xxx.xxx.xxx : Set Output ooo Subnet Mask Address
OUT ooo RB : Reboot Output ooo And Apply New Config
OUT ooo RESET : Reset Output ooo To Factory Default Setting
ooo=000: Select All Output Device
ooo=[001...767]: Select One Output Device
id=[001...767]: ID value
yyy=[001...767]: Select One Input Device
yyy=AUTO: V/A/R/S/U/C/P follow "OUT ooo FR yyy" command
rr=[0:Bypass 1:1080p@50 2:1080p@60 3:720p@60 4:720p@50]
[5:1280x1024@60 6:1024x768@60 7:1360x768@60]
[8:1440x900@60 9:1680x1050@60 10:2160p@30]
[11:2160p@24 12:1080i@50 13:1080i@60]
tt=[0:Bypass 1:90 2:180 3:270]
mm=[0:AUTOIP 1:DHCP 2:STATIC]
br=[0:300 1:600 2:1200 3:2400 4:4800 5:9600]
[6:19200 7:38400 8:57600 9:115200]
bit=Data Bits + Parity + Stop Bits, example: 8n1
Data Bits=[5..8], Parity=[n o e], Stop Bits=[1..2]
name: Max 16 Characters
IN iii ID id : Set Input iii To ID id, If New ID Exists Then Swap Them,
Note: Device Must Be Online
IN iii DEL : Delete Input iii From Current Project Config
IN PRESET IM mm : Set Input Preset IP Mode

IN PRESET IP S xxx.xxx.xxx.xxx : Set Input Preset IP Start Address
IN PRESET IP E xxx.xxx.xxx.xxx : Set Input Preset IP End Address
IN PRESET SM xxx.xxx.xxx.xxx : Set Input Preset Subnet Mask Address
IN PRESET GW xxx.xxx.xxx.xxx : Set Input Preset Gateway Address
IN PRESET APPLY : Input Preset Apply New Config
IN iii IM mm : Set Input iii IP Mode
IN iii IP xxx.xxx.xxx.xxx : Set Input iii IP Address
IN iii GW xxx.xxx.xxx.xxx : Set Input iii Gateway Address
IN iii SM xxx.xxx.xxx.xxx : Set Input iii Subnet Mask Address
IN iii RB : Reboot Input iii And Apply New Config
IN iii RESET : Reset Input iii To Factory Default Setting
IN iii AUD HDMI : Set Input iii Audio To HDMI
IN iii AUD ANA : Set Input iii Audio To Embedded Analogue L/R
IN iii NAME name : Set Input iii Device Name To name
IN iii CEC ON/OFF : Set Input iii CEC On Or Off
IN iii CEC SEND xx xx : Send CEC data to Input iii, xx is hex data
IN iii IR SEND xxxx xxxx : Send IR data to Input iii, xxxx is hex data
IN iii FLS ON : Set Input iii Flash Power LED
IN iii FLS ON time : Set Input iii Flash Power LED for time Seconds
IN iii FLS OFF : Set Input iii Disable Flash Power LED
IN iii SG [ON/OFF] [BR br] [BIT bit] : Set Input iii Serial Guest Mode Config
IN iii GUEST: Start Serial Guest Mode To Input iii
 Note: To Close Guest Mode Use Command CLOSEGUEST
IN [iii] STATUS : Show Input iii Detailed Status
 iii=000: Select All Input Device
 iii=[001...767]: Select One Input Device
 id=[001...767]: ID value
 mm=[0:AUTOIP 1:DHCP 2:STATIC]
 name: Max 16 Characters

===== Secondary Stream (SS) Commands

IN [iii] SS STATUS : Show Input iii SS Detailed Information
IN iii SS MSURL : Show Input iii SS Main Stream URL
IN iii SS SSURL : Show Input iii SS Sub Stream URL
IN iii SS RB : Reboot Input iii SS
IN iii SS RESET : Reset Input iii SS To Factory Default Setting
IN iii SS MAINENCATTR enctype mainres fps rcmode mainbitrate gop profile : Set Input iii SS Main Stream Attributes
IN iii SS SUBENCATTR enctype subres fps rcmode subbitrate gop profile : Set Input iii SS Sub Stream Attributes
IN iii SS WORKMODE workmode : Set Input iii SS WorkMode
IN iii SS NETWORK ip netmask gateway : Set Input iii SS Network, Can only be used in manual mode
IN iii SS VLTAG ON tagid : Set Input iii SS VLAN tag id

IN iii SS VLTAG OFF : Set Input iii SS VLAN tag disable
 iii=[000 ~ 767]: Encoder ID, 000 for all Encoders
 enctype=['h264','h265']
 mainres: width range:960~1920,height range:540~1080,and value must be even,Example resolution 640x480,parameter format is 640_480
 subres: width range:320~960,height range:180~540,and value must be even,Example resolution 640x480,parameter format is 640_480
 fps=[4 ~ 30]: frame rate
 rcmode=['CBR','VBR']
 mainbitrate=[0 ~ 8]: (0:1*1024, 1:2*1024, 2:4*1024, 3:6*1024, 4:8*1024, 5:10*1024, 6:12*1024, 7:16*1024, 8:20*1024, Unit kb)
 subbitrate=[0 ~ 4]: (0:128, 1:256, 2:512, 3:1024, 4:2048, Unit kb)
 gop=[1 ~ 60]
 profile=['baseline','main','high']: only main for enctype = h265
 workmode=['AUTO','MANUAL']
 ip: SS ip (xxx.xxx.xxx.xxx)
 netmask: SS netmask (xxx.xxx.xxx.xxx)
 gateway: SS gateway (xxx.xxx.xxx.xxx)
 tagid=[1 ~ 4094]

IN 1 SS WORKMODE STATIC

IN 1 SS NETWORK 192.168.1.155 255.255.255.0 192.168.1.1 (Revise the iSwitch 265 stream IP address)

EDID iii CP ooo : Set Input iii EDID Copy From Output ooo

EDID iii DF zz : Set Input iii EDID To zz

 zz=01: HDMI 1080p

 zz=02: HDMI 4K@30Hz

 zz=03: HDMI 4K@60Hz 4:2:0

 zz=04: HDMI 4K@60Hz 4:4:4 SDR

 zz=05: HDMI 4K@60Hz 4:4:4 HDR

CLOSEGUEST : Close Input Or Output Guest Mode

===== Video Wall Control Commands

VW idx CREATE ccXrr [name] : Create Video Wall idx Of size Column cc X Row rr

VW idx NAME name : Set Video Wall idx Name To name

VW idx DEL: Delete Video Wall idx

VW idx OUT ooo HhhVw : Video Wall idx Assign Receiver ooo To Position Horizontal hh
 And Vertical vw

VW idx C cidx CREATE [name] : Create Video Wall idx Config cidx

VW idx C cidx NAME name : Set Video Wall idx Config cidx Name To name

VW idx C cidx APPLY : Apply Video Wall idx Config cidx

VW idx C cidx DEL : Delete Video Wall idx Config cidx



VW idx C cidx G gidx HhhVvw : Set Video Wall idx Config cidx Position hh,vv To Class gidx
VW idx C cidx G gidx FR iii : Set Video Wall idx Config cidx Class gidx From Input iii
VW idx C cidx S HhhVvw : Set Video Wall idx Config cidx Position hh,vv To Single Mode
VW idx HhhVvw OWaa VWww : Set Video Wall idx Position hh,vv Outer Width aa And View
Width ww
VW idx HhhVvw OHaa VHww : Set Video Wall idx Position hh,vv Outer Height aa And View
Height ww

VW [idx] STATUS : Print Video Wall Status

idx=[01...09]: Select Video Wall Index
cidx=[01...07]: Select Config Index
gidx=[A...G]: Select Class Index
cc=[01...09]: Number Of Columns In Video Wall
rr=[01...09]: Number Of Rows In Video Wall
hh=[01...09]: Horizontal Position In Video Wall
vv=[01...09]: Vertical Position In Video Wall
ooo=000: Remove Receiver From hhvv Position
ooo=[001...n]: Select One Output Device
iii=[001...n]: Select One Input Device
name: Max 16 Characters
aa=[100...1000]: Screen Outer Width/Height
ww=[100...1000]: Screen View Width/Height

===== Project Control Commands

SCAN : Scan Network For All Input And Output Devices

SCAN STATUS : Print Scan Results

SCAN RESET : Reset Scan Results

ASSIGN RESET : Reset All Input/Output/Videowall/Scan Configurations

ASSIGN INDEX ddd IN iii : Assign New Device At Index ddd To Input iii

ASSIGN INDEX ddd IN iii REPLACE : Assign New Device At Index ddd To Replace Input iii

ASSIGN INDEX ddd OUT ooo : Assign New Device At Index ddd To Output ooo

ASSIGN INDEX ddd OUT ooo REPLACE : Assign New Device At Index ddd To Replace Output
ooo

ASSIGN MAC mm:mm:mm:mm:mm IP xxx.xxx.xxx.xxx: Assign New IP to Device

ASSIGN AUTO : Auto Assign All New Scanned Devices To Current Project

ASSIGN AUTO IN : Auto Assign All New Scanned Input Devices To Current Project

ASSIGN AUTO OUT : Auto Assign All New Scanned Output Devices To Current Project

ddd=[01...n]: Scan List Index value

iii=[001...n]: Select One Input Device

ooo=[001...n]: Select One Output Device

===== General Purpose Input/Output Port Commands

GPIO gg DIR IN/OUT : Set IO Port gg As Input Or Output Port

GPIO gg SET 0/1 : Set IO Output gg To Low(0)/High(1) Level

GPIO gg GET : Get IO Port gg Real Input Level

GPIO [gg] STATUS : Print IO Port gg Status

gg=00: Select All IO Ports

gg=[01...04]: Select One IO Port

===== Network Control Commands

NET LAN1 DHCP ON/OFF : Set LAN1 (Video LAN) DHCP To On Or Off

NET LAN2 DHCP ON/OFF : Set LAN2 (Control LAN) DHCP To On Or Off

NET aaaa IP xxx.xxx.xxx.xxx : Set IP Address To xxx.xxx.xxx.xxx

NET aaaa GW xxx.xxx.xxx.xxx : Set Gateway Address To xxx.xxx.xxx.xxx

NET aaaa SM xxx.xxx.xxx.xxx : Set Subnet Mask Address To xxx.xxx.xxx.xxx

aaaa=LAN1: Set Video LAN(POE) Config

aaaa=LAN2: Set Control LAN(Web GUI) Config

NET RB : Reboot Network And Apply New Config

Call This Command After LAN Config Is Changed To Reboot Network

NET TN xxxx : Set Telnet Port To xxxx

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