

# **STB7500C Management Software**

## **User's Guide**

version 3.20

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## Revision Table

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# 1 Introduction

STB7500C management software StbMonitor is a command line program, it sends command to STB for operation of upgrade, setting operational parameter of STB, etc.

## 2 Running of the program

StbMonitor has 3 operation modes:

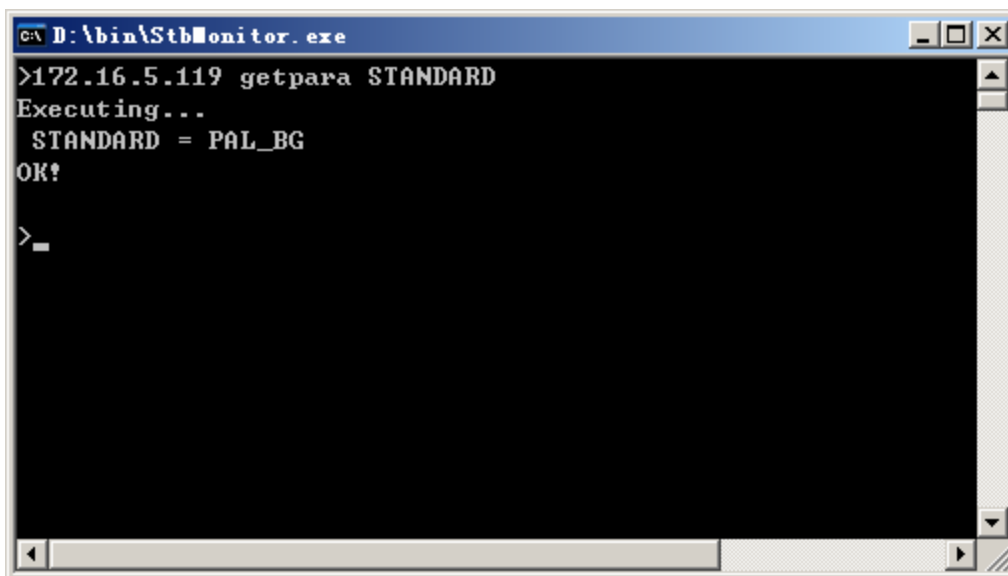
### 1. Running StbMonitor with no parameter.

After starting the program, ">" will be displayed on screen, command can be input after ">"

Command format: [xxx.xxx.xxx.xxx] cmd para

The IP address '[xxx.xxx.xxx.xxx]' in the command is IP address of STB to receive the command transmitted by unicast, (e.g. 172.16.5.201 GETPARA NETMODE), and receive the response from STB, the default setting is to send multicast command, with no acceptance of response from STB.

Figure 1.1 Picture of running StbMonitor.exe with no parameter



```
D:\bin\StbMonitor.exe
>172.16.5.119 getpara STANDARD
Executing...
STANDARD = PAL_BG
OK?
>
```

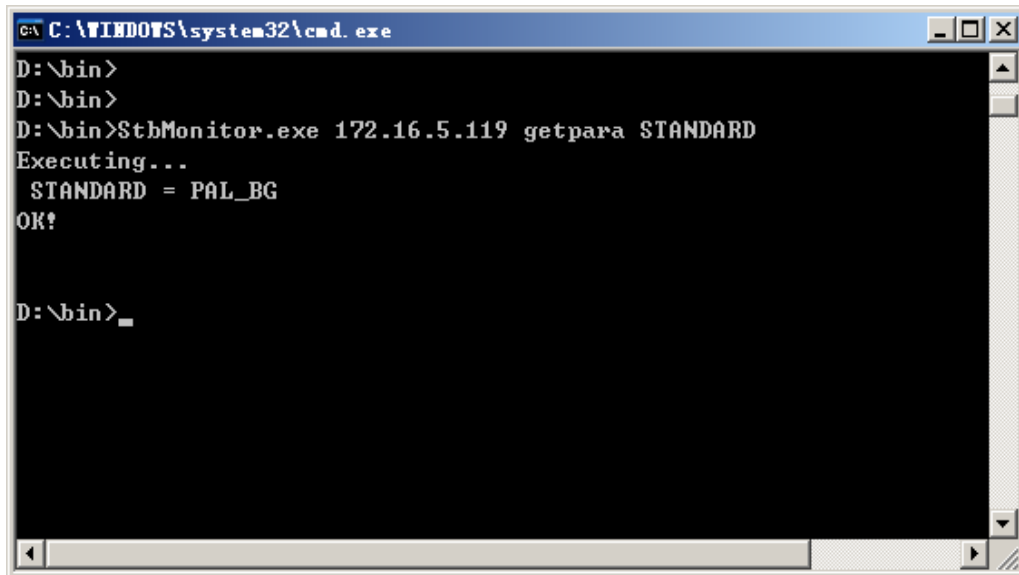
### 2. Running StbMonitor with parameter

Command format StbMonitor [xxx.xxx.xxx.xxx] cmd para

The IP address in the command is IP address of STB to receive the command transmitted

by unicast, (e.g. StbMonitor 172.16.5.201 GETPARA NETMODE), and receive the response from STB, the default setting is to send multicast command, with no acceptance of response from STB.

**Figure 1.2 Picture of running StbMonitor.exe with parameter**



```
C:\WINDOWS\system32\cmd.exe
D:\bin>
D:\bin>
D:\bin>StbMonitor.exe 172.16.5.119 getpara STANDARD
Executing...
STANDARD = PAL_BG
OK!

D:\bin>_
```

### **3. Edit all commands into batch file**

e.g. creating: cmd.bat, which includes:

```
StbMonitor 172.16.5.201 SETPARA DHCP 1
```

```
StbMonitor 172.16.5.201 UPGRADEAPP app.ip
```

Running cmd.bat will execute all the commands in the file.

## **3 Basic Operations**

### **3.1 Set up compound video output**

```
> 192.168.0.62 setpara standard PAL_BG /s
```

The most common standard of which are: “NTSC\_M”, “PAL\_60”, “PAL\_M” etc.

About the detail of standard, please check out Appendix A.

### **3.2 Set up HDMI output**

```
> 192.168.0.62 setpara standard HDMI_1080i60 /s
```

The most common standard of which are: “HDMI\_720p60” etc.

About the detail of standard, please check out Appendix A.

### 3.3 Upgrade APP

```
> 192.168.0.62 upgradeapp app.ip
```

### 3.4 Upgrade parameter documents

```
> 192.168.0.62 upgradepara para.ip
```

### 3.5 Set up play-list

```
> 192.168.0.62 setplaylist 1 rtsp://192.168.1.1/ch1 /s
```

```
> 192.168.0.62 setplaylist 2 igmp://225.2.2.2:1002 /s
```

Playlist is manipulation as parameters. And channel number is a number ( 0~999 ).

## 4 StbMonitor commands

### 4.1 Parameter setting commands

#### 4.1.1 Parameters

**param\_version:** parameter version, read only

**hardware\_version:** hardware version, read only

**loader\_version:** loader version, read only

**boot\_version:** kernel version, read only

**app\_version:** app version, read only

**font\_version:** font version, read only

**brightness:** brightness value

**saturation:** saturation value

**contrast:** contrast value

**standard:** video format

**dhcp:** network access mode, 0: static IP; 1: parameters get from DHCP server

**home\_page :** default homepage

**help\_page :** default help page

**setting\_page :** default setting page

**menu\_page :** default menu page

**lan\_dns :** DNS address in LAN

**lan\_gateway :** gateway address in LAN

**lan\_ip :** STB IP address in LAN

**lan\_mask :** subnet mask address in LAN

**maxvol :** maximal volume

**minvol :** minimal volume

**volume :** current volume

**ntpserver :** NTP server address

**domain :** domain name

**pppoe\_dns :** DNS address

**pppoe\_gateway :** gateway address

**pppoe\_ip :** STB IP address

**pppoe\_mask :** subnet mask address

**pppoe\_pswd :** user password

**pppoe\_user :** user name

**timezone :** time zone

**tll :** parameter about network, which determine how long the life of data packet. Default is 128.

**upgrade\_url :** the url of unicast upgrading

**mac :** mac address.

**serial :** serial number, exclusive identifier

**browser\_region :** the region of browser. format: left,top,width,height. eg: 0,0,640,480.

**filesverip:** ip address of FTP server.

**filesverport:** port of FTP server.

**fileserveruser:** user name of FTP server.

**fileserverpasswd:** user password of FTP server.

**osd\_width:** OSD's width.

**osd\_height:** OSD's height.

**aspect:** the ratio of screen width to height.[ 4:3 or 16:9 ]

## 4.1.2 SETPARA

**Format:** ip setpara paraname paravalue

**Function:** setting a parameter

**Parameter:** paraname : parameter name

paravalue : parameter value

Setting can be save later use command of SAVEPARA.

Some of the parameters are read only, the system will indicate these parameters are not configurable, e.g.:

**Example:** >172.168.10.201 SETPARA app\_version xxx

## 4.1.3 GETPARA

**Format:** ip getpara [paraname]

**Function:** getting a parameter of a STB, transmitted by unicast

**Parameter:** paraname: name of parameter, default getting all parameter

**Example:** >172.168.10.201 GETPARA

C:\StbMonitor 172.168.10.201 GETPARA

## 4.1.4 SAVEPARA

**Format:** ip savepara

**Function:** save parameter setting, to be executed after SETPARA command

**Parameter:** none

**Example:** >172.168.10.201 SAVEPARA

C:\StbMonitor 172.168.10.201 SAVEPARA

## 4.1.5 UPGRADEPARA

**Format:** ip upgradepara file

**Function:** transmit edited parameter file (file format referencing attachment 1) from local PC to STB

**Parameter:** file: The parameter file on local PC

**Example:** >172.168.10.201 UPGRADEPARA d:\config para

C:\StbMonitor 172.168.10.201 UPGRADEPARA d:\config para

## 4.2 Upgrade commands

### 4.2.1 UPGRADELOADER

**Format:**

ip upgradeapp loaderfile

**Function:** Upgrade STB's loader by unicast.

**Parameter:**

loaderfile file on local PC

**Examples:** > 172.168.10.201 upgradeloader loader.bin.

C:\StbMonitor 172.168.10.201 upgradeloader loader.bin.

### 4.2.2 UPGRADEAPP

**Format:**

ip upgradeapp appfile [/f]

**Function:** transmit upgrade application files to STB, by unicast

**Parameter:**

srcfile file on local PC, app.ip

/f means enforce upgrade, without referencing the application version of STB

**Example:**>172.168.10.201 UPGRADEAPP app.ip

C:\StbMonitor 172.168.10.201 UPGRADEAPP app.ip

### 4.2.3 UPGRADEBOOT

**Format:**

ip upgradeboot bootfile

**Function:** transmit boot upgrade file to STB, by unicast

**Parameter:**

Bootfile file on local PC, boot.bin

**Example:**>172.168.10.201 UPGRADEBOOT boot.bin

C:\StbMonitor 172.168.10.201 UPGRADEBOOT boot.bin

### 4.2.4 UPGRADELOGO

**Format:**

ip upgradeapp logfile

**Function:** Upgrade STB's logo by unicast

**Parameter:**

Logofile logfile on local PC

**Example:**>172.168.10.201 upgradelogo logo.bin

C:\StbMonitor 172.168.10.201 upgradelogo logo.bin

### 4.2.5 UPGRADEFONT

**Format:**

ip upgradefont fontfile

**Function:** Upgrade STB's font by unicast

**Parameter:**

fontfile fontfile on local PC

**Example** :>172.168.10.201 upgradefont font.lib

C:\StbMonitor 172.168.10.201 upgradefont font.lib

## 4.3 Other commands

### 4.3.1 SHOWMSG

**Format:**

ip showmsg message time

**Function:** show message on the TV for specify seconds.

**Parameter:**

message test wanted to show.

time continuance time to show, seconds

**Example:**>172.168.10.201 showmsg hello 50

C:\StbMonitor 172.168.10.201 showmsg hello 50

### 4.3.2 STATUS

**Format:**

ip status

**Function:** getting STB operation statue

**Parameter:** none

**Example:** >172.168.10.201 STATUS

C:\StbMonitor 172.168.10.201 STATUS

### 4.3.3 REBOOT

**Format:**

ip reboot

**Function:** reboot STB

**Parameter:** none

**Respond :** none

**Example:** >172.168.10.201 reboot

C:\StbMonitor 172.168.10.201 reboot

## 4.3.4 OPENURL

**Format:**

ip openurl url

**Function:** open a url

**Parameter:** the string of url

**Example:**> 172.168.10.201 openurl http://www.google.com

C:\StbMonitor 172.168.10.201 openurl http://www.google.com

## 4.3.5 VER

**Format:** ver

**Function:** show version number of StbMonitor

**Parameter:** None

**Example:**> VER

C:\StbMonitor VER

## 4.3.6 CLEAR

**Format:**

clear

**Function:** clear command display

**Parameter:** none

**Example:** > CLEAR

C:\StbMonitor CLEAR

## 4.3.7 HELP

**Format:**

help [cmd]

**Function:** show the information about help

**Parameter:**

cmd      key word of command, default: show all commands

**Example:** > help setpara

## Appendix A. Possible TV standards

"CVT\_640x480x50",  
"CVT\_640x480x60",  
"CVT\_640x480x75",  
"CVT\_640x480x85",  
"CVT\_800x600x50",  
"CVT\_800x600x60",  
"CVT\_800x600x75",  
"CVT\_800x600x85",  
"CVT\_1024x768x50",  
"CVT\_1024x768x60",  
"CVT\_1024x768x75",  
"CVT\_1024x768x85",  
"CVT\_1152x864x50",  
"CVT\_1152x864x60",  
"CVT\_1152x864x75",  
"CVT\_1152x864x85",  
"CVT\_1280x960x50",  
"CVT\_1280x960x60",  
"CVT\_1280x960x75",  
"CVT\_1280x960x85",  
"CVT\_1280x1024x50",  
"CVT\_1280x1024x60",  
"CVT\_1280x1024x75",  
"CVT\_1280x1024x85",  
"CVT\_1600x1200x50",  
"CVT\_1600x1200x60",

"HDMI\_640x480p59",  
"HDMI\_640x480p60",  
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"HDMI\_480p60",  
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"720p59",  
"720p50",  
"720p30",  
"720p29",  
"720p25",  
"720p24",  
"720p23",  
"ITU\_Bt656\_525",  
"NTSC\_M\_Japan",  
"NTSC\_M",  
"PAL\_60",  
"PAL\_M",  
"480p59",  
"NTSC\_M\_Japan\_714",  
"NTSC\_M\_714",  
"PAL\_60\_714",  
"PAL\_M\_714",  
"480p59\_714",  
"ITU\_Bt656\_625",  
"PAL\_BG",  
"576p50",  
"PAL\_BG\_702",  
"576p50\_702",  
"VESA\_640x350x85",

"VESA\_640x400x85",  
"VESA\_720x400x85",  
"VESA\_640x480x60",  
"VESA\_640x480x72",  
"VESA\_640x480x75",  
"VESA\_640x480x85",  
"VESA\_848x480x60",  
"VESA\_800x600x56",  
"VESA\_800x600x60",  
"VESA\_800x600x72",  
"VESA\_800x600x75",  
"VESA\_800x600x85",  
"VESA\_1024x768x43",  
"VESA\_1024x768x60",  
"VESA\_1024x768x70",  
"VESA\_1024x768x75",  
"VESA\_1024x768x85",  
"VESA\_1152x864x75",  
"VESA\_1280x768x60RB",  
"VESA\_1280x768x60",  
"VESA\_1280x768x75",  
"VESA\_1280x768x85",  
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"VESA\_1280x1024x85",  
"VESA\_1360x768x60",  
"VESA\_1400x1050x60RB",  
"VESA\_1400x1050x60",  
"VESA\_1400x1050x75",  
"VESA\_1400x1050x85",

"VESA\_1600x1200x60",  
"VESA\_1920x1200x60RB",  
"VESA\_1920x1200x60",  
"VESA\_640x480i30",  
"VESA\_640x480i60",