

PS751 RS-232 command set

History

| No | Issue Date | Version | Description | Apply Firmware |
|----|------------|---------|---|----------------|
| 1 | 2013/09/10 | 1.0 | First version. | TBD |
| 2 | 2013/12/31 | 1.1 | Add command to set and call Audio Microphone/ Audio Out Volume | PVT110 |
| 3 | 2014/08/19 | 1.2 | 1. Revise the command: Brightness Control 2. Revise the parameters: 2.1 Focus Direct 2.2 Call lamp Status 2.3 Call Focus Position 2.4 Call Brightness Position | PVT220 |
| 4 | 2015/03/24 | 1.3 | 1. Revise the parameters: 1.1 Brightness Control 1.2 Call Brightness Position 1.3 Call R/B Gain 1.4 LogoDelay | NA |
| | | | | |
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***Notice:**

1. The RS-232 command list is for PS751
2. The yellow highlight  means the latest update
3. The blue highlight  means the deleted item.

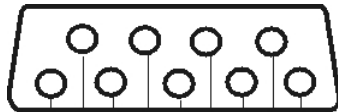
1. Communication Protocol

Transmit Method: Asynchronous Interface Half Duplex Serial Communication.

- Transmit Speed: 9600bps
- Start bit: 1Bit
- Parity Check: NA
- Data Bit: 8Bit
- Stop Bit: 1Bit

2. The wire diagram

The RS232 wire diagram between presenter and remote controller as below



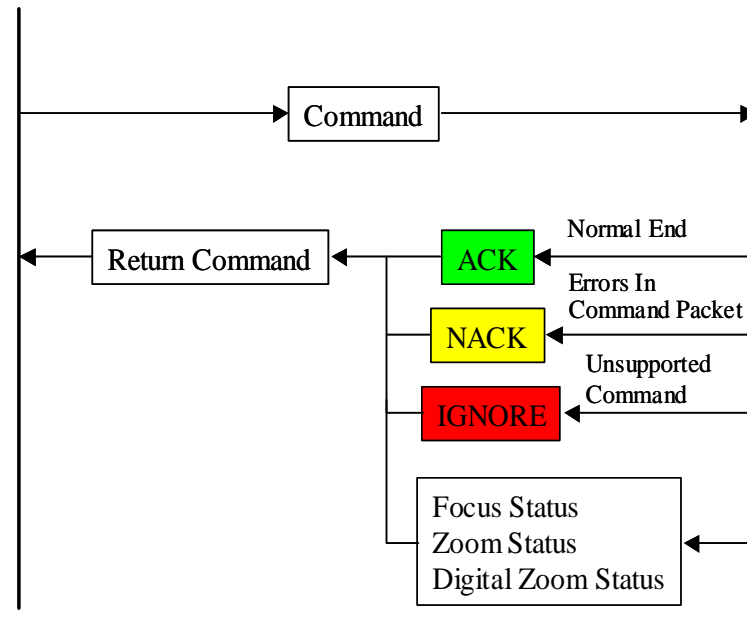
Female

| CONNECTIONS | | |
|-------------|--------|-------|
| DB 9F | COLOUR | DB 9F |
| 2 | - | 3 |
| 3 | - | 2 |
| 5 | - | 5 |
| SHELL | DRAIN | SHELL |

3. Communication Program

Host Controller

Camera Module



4. Command Format

4.1 Command Packet Format

| | | | |
|-------|------------|------------------|----------|
| 1Byte | STX | Start Of Command | : A0h |
| 2Byte | Command | Command | : 00~FFh |
| 3Byte | Parameter1 | Data | : 00~FFh |
| 4Byte | Parameter2 | Data | : 00~FFh |
| 5Byte | Parameter3 | Data | : 00~FFh |
| 6Byte | ETX | End Of Command | : AFh |

4.2 Return Packet Format

| | | | | |
|------------------------|------------------------|------------------|---|---|
| 1Byte | STX | Start Of Command | : A0h | |
| 2Byte | Command | Command | : 00~ FFh | |
| 3Byte | Parameter1 | Data | : 00~FFh | |
| 4Byte | Parameter2 | Data | : 00~FFh | |
| 5Byte | Status | <Bit> | <Contents> | |
| | | 7 | (0) | |
| | | 6 | Iris Moving Status (1)/(0)Stop Status | |
| | | 5 | Zoom Moving Status (1)/(0)Stop Status | |
| | | 4 | Focus Moving Status (1)/(0)Stop Status | |
| | | 3 | (0) | |
| | | 2 | (0) | |
| | | 1 | Communication Response 0=ACK/1=NAK/2=IGNORE/3=Not Used | |
| 0 | Communication Response | | | |
| 6Byte | ETX | End Of Command | : AFh | |
| Communication Response | | Bit1 | Bit0 | Status |
| ACK | | 0 | 0 | Capable Of Normal End Or Normal Operation |

| | | | |
|----------|---|---|---|
| NAK | 0 | 1 | Detecting Errors In Command Packet(STX, ETX Byte) |
| | | | Parity Error ,Framing Error, Overrun Error |
| | | | Data in out of specified range |
| IGNORE | 1 | 0 | Cannot execute the transmitted command for other operations |
| | | | Unsupported command |
| Not Used | 1 | 1 | |

5. Command Packet

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|----------------------|--------------------------------------|-----|-----|-----|-----|-----|--|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| 1 | Preset/Factory Reset | A0h | 03h | P1 | P2 | 00h | AFh | P1=0, P2=00/01:Preset Load/Save P1=1:Factory Reset |
| 2 | Slide show On/Off | A0h | 04h | P1 | 00h | 00h | AFh | P1=00/01:Off/On |
| 3 | Slide show Delay | A0h | 06h | P1 | 00h | 00h | AFh | P1=0~5:0.5sec/1sec/3sec/5sec/10sec/Manual |
| 4 | Image/Record Quality | A0h | 07h | P1 | 00h | 00h | AFh | P1=00/01/02:High/Medium/Low |
| 5 | Copy From Nand to SD | A0h | 08h | 00h | 00h | 00h | AFh | |
| 6 | Zoom Stop | A0h | 10h | 00h | 00h | 00h | AFh | |
| 7 | Zoom Start (No AF) | A0h | 11h | P1 | P2 | 00h | AFh | P1=00/01:Tele/Wide |
| 8 | Zoom Direct (No AF) | A0h | 11h | P1 | P2 | 00h | AFh | p1:low byte p2:high byte Value:0~855 Optical Zoom: XGA:805 SXGA:802 WXGA:802 1080P:795 NTSC:810 PAL:810 |
| 9 | Auto Erase | A0h | 14h | P1 | 00h | 00h | AFh | P1=00/01:Auto Erase off/on |
| 10 | Focus Stop | A0h | 19h | 00h | 00h | 00h | AFh | |
| 11 | Focus Start | A0h | 1Ah | P1 | P2 | 00h | AFh | P1=00/01:Near/Far P2=00~06:Speed |
| 12 | Focus Direct | A0h | 1Bh | P1 | P2 | P3 | AFh | P1(LowByte)P2(HighByte)=0~776(Dec), P3=00~06:Speed |
| 13 | Zoom Start (with AF) | A0h | 1Dh | P1 | P2 | 00h | AFh | P1=00/01:Tele/Wide |
| 14 | Zoom Direct(with AF) | A0h | 1Dh | P1 | P2 | 00h | AFh | p1:low byte p2:high byte Value:0~855 Optical Zoom: |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|---|--------------------------------------|-----|----|-----|-----|-----|--|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| | | | | | | | | XGA:805 SXGA:802 WXGA:802 1080P:795 NTSC:810 PAL:810 |
| 15 | White Balance (AWB, Auto Tune) | A0h | 22h | P1 | 00h | 00h | AFh | P1=00/01:Auto Tune/AWB |
| 16 | Set Pan Mode | A0h | 26h | P1 | 00h | 00h | AFh | P1=00/01 : off/on |
| 17 | Mask Mode | A0h | 27h | P1 | 00h | 00h | AFh | p1=0:Disable 1:Mask 2:Spotlight |
| 18 | Freeze | A0h | 2Ch | P1 | 00h | 00h | AFh | P1=00/01:Off/On |
| 19 | Brightness Control | A0h | 30h | P1 | P2 | 00h | AFh | P1=00/01:Auto/Manua P2: AE Auto:AE Level-->Range:00~20(dec) AE Manual: Brightness Step-->Range 00~147(dec) |
| 20 | LogoDelay | A0h | 34h | P1 | 00h | 00h | AFh | P1=0~26==>4~30 (sec) |
| 21 | Language Select | A0h | 38h | P1 | 00h | 00h | AFh | P1=0~18(Dec): English/ Traditional Chinese/ Simplified Chinese/ German/ French/ Spanish/ Russian/ Dutch/ Finnish/ Polish/ Italian/ Portuguese/ Swedish/ Danish/ Czech/ Arabic/ Japanese/ Korean/ Greek |
| 22 | Brightness Step | A0h | 39h | P1 | 00h | 00h | AFh | P1=00/01:-1/+1 |
| 23 | Source live/PC | A0h | 3Ah | P1 | 00h | 00h | AFh | 00 : Camera 01 : PC 02 : Source OFF |
| 24 | Disable Digital Zoom After Optical Zoom | A0h | 40h | P1 | 00h | 00h | AFh | P1=00/01:Disable/Enable |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|----------------------------------|--------------------------------------|-----|-----|-----|-----|-----|---|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| 25 | Call Master Version | A0h | 45h | 00h | 00h | 00h | AFh | Code version : P1 P2 P3(ASCII) |
| 26 | Call AE Status | A0h | 46h | 00h | 00h | 00h | AFh | P1=00/01:Off/On |
| 27 | Enable/Disable LOGO Image | A0h | 47h | P1 | 00h | 00h | AFh | p1=00/01:default logo/user logo |
| 28 | Playback Image Index Change Page | A0h | 4Ah | P1 | 00h | 00h | AFh | P1=00/01:Page Up/Page Down |
| 29 | All OSD On/Off | A0h | 4Bh | P1 | 00h | 00h | AFh | P1=00/01:Off/On |
| 30 | Call Slave Version | A0h | 4Dh | 00h | 00h | 00h | AFh | Code version : P1 P2 P3(ASCII) |
| 31 | Frame Average | A0h | 4Eh | P1 | 00h | 00h | AFh | P1=00/01:LCD/DLP |
| 32 | Call lamp Status | A0h | 50h | 00h | 00h | 00h | AFh | 00 : Lamp + Backlight OFF 01 : Lamp ON 02 : Backlight ON |
| 33 | Call Text/Photo Status | A0h | 51h | 00h | 00h | 00h | AFh | P1=00/01/02:Photo/Text/Gray |
| 34 | reg1 | A0h | 52h | P1 | P2 | 00h | AFh | P1=00/01:Read/Write P2=0x00~0xff |
| 34 | reg2 | A0h | 53h | P1 | P2 | 00h | AFh | |
| 36 | reg3 | A0h | 54h | P1 | P2 | 00h | AFh | |
| 37 | Error Code | A0h | 55h | P1 | 00h | 00h | AFh | p1=00/01:Show Error Code/Clear Error Code |
| 38 | AWB Correction | A0h | 56h | 00h | 00h | 00h | AFh | AWB Correction |
| 39 | Call AC 50/60 Hzpower state | A0h | 58h | 00h | 00h | 00h | AFh | Call AC 50/60 Hz power State. |
| 40 | Keypad Detect | A0h | 59h | P1 | 00h | 00h | AFh | p1:00/01 :Kypad Detect Stop/Start. (Enable the Debug message at this time, the detection message will be sent via RS232.) |
| 41 | Call Zoom Position | A0h | 60h | 00h | 00h | 00h | AFh | p1:low byte p2:high byte XGA:805 SXGA:802 WXGA:802 |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|----------------------------|--------------------------------------|-----|-----|-----|-----|-----|---|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| | | | | | | | | 1080P:795 NTSC:810 PAL:810 |
| 42 | Call Digital Zoom Position | A0h | 62h | 00h | 00h | 00h | AFh | p1:low byte p2:high byte XGA:50 SXGA:53 WXGA:53 1080P:60 NTSC:45 PAL:45 |
| 43 | Call Focus Position | A0h | 64h | 00h | 00h | 00h | AFh | P1(LowByte)P2(HighByte)=0~776(Dec) |
| 44 | Call Freeze Status | A0h | 78h | 00h | 00h | 00h | AFh | P1=00/01:Off/On |
| 45 | Call Brightness Position | A0h | 89h | 00h | 00h | 00h | AFh | P1: AE Auto:AE Level-->Range:00~20(dec) AE Manual: Brightness Step-->Range 00~147(dec) |
| 46 | Call Mix Zoom Position | A0h | 8Ah | 00h | 00h | 00h | AFh | p1:low byte p2:high byte 0~855 Optical Zoom: XGA:805 SXGA:802 WXGA:802 1080P:795 NTSC:810 PAL:810 |
| 47 | Call Menu Status | A0h | 8Bh | 00h | 00h | 00h | AFh | P1=00/01:Off/On |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|---------------------|--------------------------------------|-----|-----|-----|-----|-----|---|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| 48 | Capture Action | A0h | 96h | P1 | 00h | 00h | AFh | 00 : Single Capture 01 : Time Lapse 02 : Record 03 : Disabled |
| 49 | Capture time | A0h | 97h | P1 | 00h | 00h | AFh | P1=00/01/02/03/04/05/06:1hr/ 2hr/ 4hr/ 8hr/ 24hr/48hr/72hr |
| 50 | Capture interval | A0h | 98h | P1 | 00h | 00h | AFh | 00 : 3 sec. 01 : 5 sec. 02 : 10 sec. 03 : 30 sec. 04 : 1 min. 05 : 2 min. 06 : 5 min. |
| 51 | Key Function | A0h | A0h | P1 | 00h | 00h | AFh | P1=01/02/03/04/05/06=Enter/Up/Down/Left/Right/Menu |
| 52 | Set R/B Gain | A0h | A1h | P1 | P2 | P3 | AFh | P1=01/02:Red Gain/Blue Gain P2(LowByte)P3(HighByte)=0x100~0xFFFF(hex):Gain |
| 53 | Call R/B Gain | A0h | A2h | P1 | 00h | 00h | AFh | Send : P1=01/02:Red Gain/Blue Gain Return : P1:01(Red Gain)/02(Blue Gain) P2(LowByte)P3(HighByte)=0x100~0xFFFF(Dec):Gain |
| 54 | AF One Push Trigger | A0h | A3h | 01h | 00h | 00h | AFh | |
| 55 | Set Gamma Mode | A0h | A7h | P1 | 00h | 00h | AFh | P1=00/01/02:Photo/Text/Gray |
| 56 | Set Image Mode | A0h | A9h | P1 | 00h | 00h | AFh | P1=00/01/02/03:Normal/Slide/Film/Microscope |
| 57 | System ON/OFF | A0h | B0h | P1 | 00h | 00h | AFh | P1=00/01:Off/On |
| 58 | Power | A0h | B1h | P1 | 00h | 00h | AFh | P1=00/01:Off/On |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|----------------------------|--------------------------------------|-----|-----|-----|-----|-----|--|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| 59 | Capture | A0h | B2h | P1 | 00h | 00h | AFh | P1=00/01:Capture/Record |
| 60 | Playback thumbnail | A0h | B3h | P1 | 00h | 00h | AFh | P1=00:Thumbnail |
| 61 | Preview rotation | A0h | B4h | P1 | 00h | 00h | AFh | P1=00/01/02/03:Rotate 0/180/Flip/Mirror |
| 62 | Delete | A0h | B6h | P1 | 00h | 00h | AFh | P1=00/01/02: Delete one/Delete all/Format |
| 63 | call system status | A0h | B7h | 00h | 00h | 00h | AFh | P1(system status)=00/01: not ready/ Read to receive the command P2(Power Status)=00/01:Off/On |
| 64 | Lamp On/Off | A0h | C1h | P1 | 00h | 00h | AFh | 00 : Lamp + Backlight OFF 01 : Lamp ON 02 : Backlight ON |
| 65 | Firmware Upgrade | A0h | CBh | P1 | 00h | 00h | AFh | P1=00/01:osd/no osd |
| 66 | Set Audio Volume | A0h | D6h | P1 | 00h | 00h | AFh | P1=0~31(Dec):Volume |
| 67 | Call Audio Volume | A0h | D7h | 00h | 00h | 00h | AFh | P1=0~31(Dec):Volume |
| 68 | PE Storage Test Data(Save) | A0h | E8h | P1 | P2 | P3 | AFh | P1=1~7:Address P2=0x00~0xff:DATA |
| 69 | PE Storage Test Data(Load) | A0h | E9h | P1 | P2 | P3 | AFh | P1=1~7:Address P2=0x00~0xff:DATA |

6. Return Packet

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|----------------------|--------------------------------------|-----|-----|-----|-----|-----|--|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| 1 | Preset/Factory Reset | A0h | 03h | P1 | P2 | St. | AFh | P1=0, P2=00/01:Preset Load/Save P1=1:Factory Reset |
| 2 | Slide show On/Off | A0h | 04h | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 3 | Slide show Delay | A0h | 06h | P1 | 00h | St. | AFh | P1=0~5:0.5sec/1sec/3sec/5sec/10sec/Manual |
| 4 | Image/Record Quality | A0h | 07h | P1 | 00h | St. | AFh | P1=00/01/02:High/Medium/Low |
| 5 | Copy From Nand to SD | A0h | 08h | 00h | 00h | St. | AFh | |
| 6 | Zoom Stop | A0h | 10h | 00h | 00h | St. | AFh | |
| 7 | Zoom Start (No AF) | A0h | 11h | P1 | P2 | St. | AFh | P1=00/01:Tele/Wide |
| 8 | Zoom Direct (No AF) | A0h | 11h | P1 | P2 | St. | AFh | p1:low byte p2:high byte Value:0~855 Optical Zoom: XGA:805 SXGA:802 WXGA:802 1080P:795 NTSC:810 PAL:810 |
| 9 | Auto Erase | A0h | 13h | P1 | 00h | St. | AFh | P1=00/01:Auto Erase off/on |
| 10 | Focus Stop | A0h | 19h | 00h | 00h | St. | AFh | |
| 11 | Focus Start | A0h | 1Ah | P1 | P2 | St. | AFh | P1=00/01:Near/Far P2=00~06:Speed |
| 12 | Focus Direct | A0h | 1Bh | P1 | P2 | St. | AFh | P1(LowByte)P2(HighByte)=0~776(Dec), P3=00~06:Speed |
| 13 | Zoom Start (with AF) | A0h | 1Dh | P1 | P2 | St. | AFh | P1=00/01:Tele/Wide |
| 14 | Zoom Direct(with AF) | A0h | 1Dh | P1 | P2 | St. | AFh | p1:low byte p2:high byte Value:0~855 Optical Zoom: XGA:805 |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|---|--------------------------------------|-----|----|-----|-----|-----|--|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| | | | | | | | | SXGA:802 WXGA:802 1080P:795 NTSC:810 PAL:810 |
| 15 | White Balance (AWB, Auto Tune) | A0h | 22h | P1 | 00h | St. | AFh | P1=00/01:Auto Tune/AWB |
| 16 | Set Pan Mode | A0h | 26h | P1 | 00h | St. | AFh | P1=00/01 : off/on |
| 17 | Mask Mode | A0h | 27h | P1 | 00h | St. | AFh | p1=0:Disable 1:Mask 2:Spotlight |
| 18 | Freeze | A0h | 2Ch | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 19 | Brightness Control | A0h | 30h | P1 | P2 | St. | AFh | P1=00/01:Auto/Manua P2: AE Auto:AE Level-->Range:00~20(dec) AE Manual: Brightness Step-->Range 00~147(dec) |
| 20 | LogoDelay | A0h | 32h | P1 | 00h | St. | AFh | P1=0~26==>4~30 (sec) |
| 21 | Language Select | A0h | 38h | P1 | 00h | St. | AFh | P1=0~18(Dec): English/ Traditional Chinese/ Simplified Chinese/ German/ French/ Spanish/ Russian/ Dutch/ Finnish/ Polish/ Italian/ Portuguese/ Swedish/ Danish/ Czech/ Arabic/ Japanese/ Korean/ Greek |
| 22 | Brightness Step | A0h | 39h | P1 | 00h | St. | AFh | P1=00/01:-1/+1 |
| 23 | Source live/PC | A0h | 3Ah | P1 | 00h | St. | AFh | 00 : Camera 01 : PC 02 : Source OFF |
| 24 | Disable Digital Zoom After Optical Zoom | A0h | 40h | P1 | 00h | St. | AFh | P1=00/01:Disable/Enable |
| 25 | Call Master Version | A0h | 45h | P1 | P2 | P3 | AFh | Code version : P1 P2 P3(ASCII) |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|----------------------------------|--------------------------------------|-----|-----|-----|-----|-----|---|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| 26 | Call AE Status | A0h | 46h | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 27 | Enable/Disable LOGO Image | A0h | 47h | P1 | 00h | St. | AFh | p1=00/01:default logo/user logo |
| 28 | Playback Image Index Change Page | A0h | 4Ah | P1 | 00h | St. | AFh | P1=00/01:Page Up/Page Down |
| 29 | All OSD On/Off | A0h | 4Bh | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 30 | Call Slave Version | A0h | 4Dh | P1 | P2 | P3 | AFh | Code version : P1 P2 P3(ASCII) |
| 31 | Frame Average | A0h | 4Eh | P1 | 00h | St. | AFh | P1=00/01:LCD/DLP |
| 32 | Call lamp Status | A0h | 50h | P1 | 00h | St. | AFh | 00 : Lamp + Backlight OFF 01 : Lamp ON 02 : Backlight ON |
| 33 | Call Text/Photo Status | A0h | 51h | P1 | 00h | St. | AFh | P1=00/01/02:Photo/Text/Gray |
| 34 | reg1 | A0h | 52h | P1 | P2 | St. | AFh | P1=00/01:Read/Write P2=0x00~0xff |
| 34 | reg2 | A0h | 53h | P1 | P2 | St. | AFh | |
| 36 | reg3 | A0h | 54h | P1 | P2 | St. | AFh | |
| 37 | Error Code | A0h | 55h | 00h | 00h | St. | AFh | p1=00/01:Show Error Code/Clear Error Code |
| 38 | AWB Correction | A0h | 56h | 00h | 00h | St. | AFh | AWB Correction |
| 39 | Call AC 50/60 Hzpower state | A0h | 58h | 00h | 00h | St. | AFh | Call AC 50/60 Hz power State. |
| 40 | Keypad Detect | A0h | 59h | 00h | 00h | St. | AFh | p1:00/01 :Kypad Detect Stop/Start. (Enable the Debug message at this time, the detection message will be sent via RS232.) |
| 41 | Call Zoom Position | A0h | 60h | P1 | P2 | St. | AFh | p1:low byte p2:high byte XGA:805 SXGA:802 WXGA:802 1080P:795 |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|----------------------------|--------------------------------------|-----|----|-----|-----|-----|---|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| | | | | | | | | NTSC:810 PAL:810 |
| 42 | Call Digital Zoom Position | A0h | 62h | P1 | 00h | St. | AFh | p1:low byte p2:high byte XGA:50 SXGA:53 WXGA:53 1080P:60 NTSC:45 PAL:45 |
| 43 | Call Focus Position | A0h | 64h | P1 | P2 | St. | AFh | P1(LowByte)P2(HighByte)=0~776(Dec) |
| 44 | Call Freeze Status | A0h | 78h | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 45 | Call Brightness Position | A0h | 89h | P1 | 00h | St. | AFh | P1: AE Auto:AE Level-->Range:00~20(dec) AE Manual: Brightness Step-->Range 00~147(dec) |
| 46 | Call Mix Zoom Position | A0h | 8Ah | P1 | P2 | St. | AFh | p1:low byte p2:high byte 0~855 Optical Zoom: XGA:805 SXGA:802 WXGA:802 1080P:795 NTSC:810 PAL:810 |
| 47 | Call Menu Status | A0h | 8Bh | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 48 | Capture Action | A0h | 96h | P1 | 00h | St. | AFh | 00 : Single Capture 01 : Time Lapse |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|---------------------|--------------------------------------|-----|-----|-----|-----|-----|---|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| | | | | | | | | 02 : Record 03 : Disabled |
| 49 | Capture time | A0h | 97h | P1 | 00h | St. | AFh | P1=00/01/02/03/04/05/06:1hr/ 2hr/ 4hr/ 8hr/ 24hr/48hr/72hr |
| 50 | Capture interval | A0h | 98h | P1 | 00h | St. | AFh | 00 : 3 sec. 01 : 5 sec. 02 : 10 sec. 03 : 30 sec. 04 : 1 min. 05 : 2 min. 06 : 5 min. |
| 51 | Key Function | A0h | A0h | P1 | 00h | St. | AFh | P1=01/02/03/04/05/06=Enter/Up/Down/Left/Right/Menu |
| 52 | Set R/B Gain | A0h | A1h | P1 | P2 | St. | AFh | P1=01/02:Red Gain/Blue Gain P2(LowByte)P3(HighByte)=0x100~0xFFFF(hex):Gain |
| 53 | Call R/B Gain | A0h | A2h | P1 | P2 | P3 | AFh | Send : P1=01/02:Red Gain/Blue Gain Return : P1:01(Red Gain)/02(Blue Gain) P2(LowByte)P3(HighByte)=0x100~0xFFFF(Dec):Gain |
| 54 | AF One Push Trigger | A0h | A3h | 01h | 00h | St. | AFh | |
| 55 | Set Gamma Mode | A0h | A7h | P1 | 00h | St. | AFh | P1=00/01/02:Photo/Text/Gray |
| 56 | Set Image Mode | A0h | A9h | P1 | 00h | St. | AFh | P1=00/01/02/03:Normal/Slide/Film/Microscope |
| 57 | System ON/OFF | A0h | B0h | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 58 | Power | A0h | B1h | P1 | 00h | St. | AFh | P1=00/01:Off/On |
| 59 | Capture | A0h | B2h | P1 | 00h | St. | AFh | P1=00/01:Capture/Record |
| 60 | Playback thumbnail | A0h | B3h | P1 | 00h | St. | AFh | P1=00:Thumbnail |

| Item | Function | PC AP to PS751 Master command format | | | | | | Comment |
|------|------------------------------|--------------------------------------|-----|-----|-----|-----|-----|--|
| | | 1B | 2B | 3B | 4B | 5B | 6B | |
| 61 | Preview rotation | A0h | B4h | P1 | 00h | St. | AFh | P1=00/01/02/03:Rotate 0/180/Flip/Mirror |
| 62 | Delete | A0h | B6h | P1 | 00h | St. | AFh | P1=00/01/02: Delete one/Delete all/Format |
| 63 | call system status | A0h | B7h | P1 | P2 | St. | AFh | P1(system status)=00/01: not ready/ Read to receive the command P2(Power Status)=00/01:Off/On |
| 64 | Lamp On/Off | A0h | C1h | P1 | 00h | St. | AFh | 00 : Lamp + Backlight OFF 01 : Lamp ON 02 : Backlight ON |
| 65 | Firmware Upgrade | A0h | CBh | P1 | 00h | St. | AFh | P1=00/01:osd/no osd |
| 66 | Set Audio Microphone Volume | A0h | D4h | P1 | 00h | 00h | AFh | P1=0~16(Dec):Volume |
| 67 | Call Audio Microphone Volume | A0h | D5h | 00h | 00h | 00h | AFh | P1=0~16(Dec):Volume |
| 68 | Set Audio Out Volume | A0h | D6h | P1 | 00h | 00h | AFh | P1=0~31(Dec):Volume |
| 69 | Call Audio Out Volume | A0h | D7h | 00h | 00h | 00h | AFh | P1=0~31(Dec):Volume |
| 70 | PE Storage Test Data(Save) | A0h | E8h | P1 | P2 | P3 | AFh | P1=1~7:Address P2=0x00~0xff:DATA |
| 71 | PE Storage Test Data(Load) | A0h | E9h | P1 | P2 | P3 | AFh | P1=1~7:Address P2=0x00~0xff:DATA |

** St : 0 =Action Succeed, 1= NAK (No Action), 2 = Ignore (Command is not in the command list.)