

# AVER VISCA

## Specification

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    Baud rate: 2400, 4800, 9600 (default), 115200 bps..... 3

    Date bits: 8..... 3

    Start bit: 1..... 3

    Stop bit: 1..... 3

    Parity: None ..... 3

    Flow control: None. .... 3

3 VISCA message format ..... 3

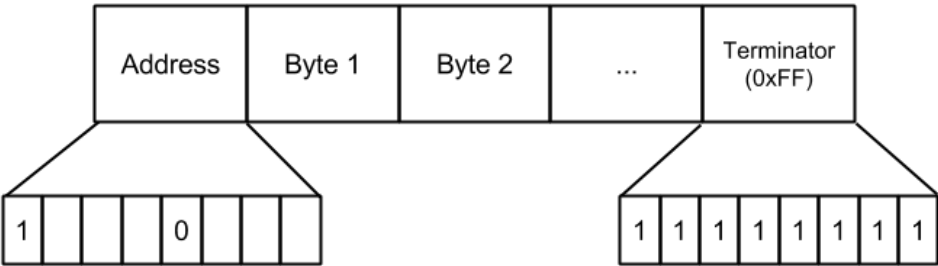
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## 1 Introduction

AVER VISCA protocol provides an interface through RS232 for remote devices to communicate with the conference camera. This document contains information about the use of AVER VISCA protocol, and is intended for system integrators.

## 2 RS232

- Baud rate: 2400, 4800, 9600 (default), 115200 bps.
- Data bits: 8
- Start bit: 1
- Stop bit: 1
- Parity: None
- Flow control: None.

## 3 VISCA message format

### 3.1 Commands and responses format

The minimum length of any command or response is 3 bytes:

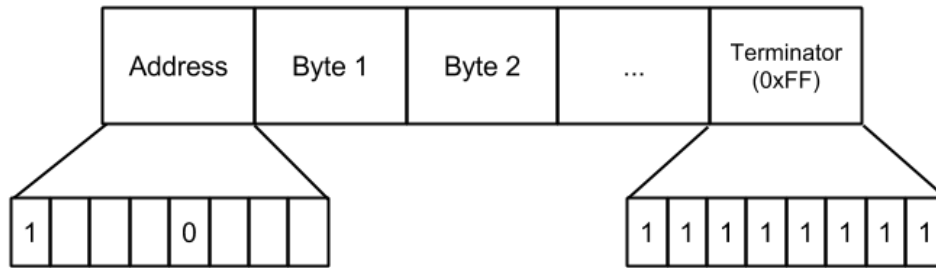
- Address byte (1)
  - Command:

The most significant 4 bits are sender address, and the least significant 4 bits are receiver address. We only support one host; the sender address must always be 0x8X. 7 receiver address supported, start from 1. (I.e. address 1: 0x81, address 2: 0x82 ...). Command address presents as 8x (see bellow command table).
  - Reply:

Only most significant 4 bits are used as reply address. (I.e. address 1: 0x90, address 2: 0xa0, ...). Reply address presents as y0 (see bellow command table).
- Message bytes (1..14)

You may get more information from bellow command table.
- Terminator byte (1)

All message must be terminated with 0xFF.



## 3.2 Command

### 3.2.1 VISCA

| Command             | Packet                                       | Reply Message  | Comments                                                |
|---------------------|----------------------------------------------|----------------|---------------------------------------------------------|
| Address_Set         | 88 30 01 FF                                  | 88 30 02 FF    | Always broadcasted.                                     |
| IF_Clear            | 8x 01 00 01 FF                               | y0 50 FF       | x = Cam address                                         |
| IF_Clear(broadcast) | 88 01 00 01 FF                               | 88 01 00 01 FF | The same command is returned.                           |
| Power_On            | 8x 01 04 00 02 FF                            |                |                                                         |
| Power_Off           | 8x 01 04 00 03 FF                            |                |                                                         |
| Power_Reset         | 8x 01 04 00 00 FF                            |                | device reboot                                           |
| PT_Stop             | 8x 01 06 01 00 00 03 03 FF                   | y0 50 FF       |                                                         |
| PT_Up               | 8x 01 06 01 0P 0T 03 01 FF                   |                | P = Pan speed(0~0x0F)                                   |
| PT_Down             | 8x 01 06 01 0P 0T 03 02 FF                   |                | T = Tilt speed(0~0x0F)                                  |
| PT_Left             | 8x 01 06 01 0P 0T 01 03 FF                   |                |                                                         |
| PT_Right            | 8x 01 06 01 0P 0T 02 03 FF                   |                |                                                         |
| PT_UpLeft           | 8x 01 06 01 0P 0T 01 01 FF                   |                |                                                         |
| PT_UpRight          | 8x 01 06 01 0P 0T 02 01 FF                   |                |                                                         |
| PT_DownLeft         | 8x 01 06 01 0P 0T 01 02 FF                   |                |                                                         |
| PT_DownRight        | 8x 01 06 01 0P 0T 02 02 FF                   |                |                                                         |
| PT_Calibration      | 8x 01 06 05 FF                               |                |                                                         |
| PT_Direct           | 8x 01 06 02 00 00 0Y 0Y 0Y 0Y 0V 0V 0V 0V FF |                | 0Y 0Y 0Y 0Y:Pan position1<br>0V 0V 0V 0V:Tilt position1 |
| Zoom_Stop           | 8x 01 04 07 00 FF                            |                |                                                         |
| Zoom_Tele           | 8x 01 04 07 2y FF                            |                | y = not support(zoom speed)                             |
| Zoom_Wide           | 8x 01 04 07 3y FF                            |                |                                                         |

|                       |                            |  |                                                                                    |
|-----------------------|----------------------------|--|------------------------------------------------------------------------------------|
| Zoom_Direct           | 8x 01 04 47 0Y 0Y 0Y 0Y FF |  | 0Y 0Y 0Y 0Y:Zoom position1                                                         |
| Focus_Stop            | 8x 01 04 08 00 FF          |  |                                                                                    |
| Focus_Far             | 8x 01 04 08 20 FF          |  |                                                                                    |
| Focus_Near            | 8x 01 04 08 30 FF          |  |                                                                                    |
| Focus_Auto_Mode       | 8x 01 04 38 02 FF          |  |                                                                                    |
| Focus_Manual_Mode     | 8x 01 04 38 03 FF          |  |                                                                                    |
| Focus_OnePush_Trigger | 8x 01 04 18 01 FF          |  | Trigger once                                                                       |
| WB_Auto_Mode          | 8x 01 04 35 00 FF          |  |                                                                                    |
| WB_One_Push_Mode      | 8x 01 04 35 03 FF          |  |                                                                                    |
| WB_Manual_Mode        | 8x 01 04 35 05 FF          |  |                                                                                    |
| WB_One_Push_Trigger   | 8x 01 04 10 05 FF          |  | Trigger once                                                                       |
| WB_Rgain_Up           | 8x 01 04 03 02 FF          |  | WB temperature up                                                                  |
| WB_Rgain_Down         | 8x 01 04 03 03 FF          |  | WB temperature down                                                                |
| WB_Bgain_Up           | 8x 01 04 04 02 FF          |  | WB temperature down                                                                |
| WB_Bgain_Down         | 8x 01 04 04 03 FF          |  | WB temperature up                                                                  |
| AE_Auto_Mode          | 8x 01 04 39 00 FF          |  |                                                                                    |
| AE_Gain_Up            | 8x 01 04 0C 02 FF          |  |                                                                                    |
| AE_Gain_Down          | 8x 01 04 0C 03 FF          |  |                                                                                    |
| ExpComp_Up            | 8x 01 04 0E 02 FF          |  |                                                                                    |
| ExpComp_Down          | 8x 01 04 0E 03 FF          |  |                                                                                    |
| Color_Gain            | 8x 01 04 49 00 00 00 0p FF |  | p = gain val                                                                       |
| Color_Hue             | 8x 01 04 4F 00 00 00 0p FF |  | p = hue val                                                                        |
| Backlight_On          | 8x 01 04 33 02 FF          |  | if not supported Backlight, change to control WDR                                  |
| Backlight_Off         | 8x 01 04 33 03 FF          |  |                                                                                    |
| WDR_On                | 8x 01 04 33 02 FF          |  | if not supported WDR, change to control Backlight                                  |
| WDR_Off               | 8x 01 04 33 03 FF          |  |                                                                                    |
| CAM_set               | 8x 01 04 3F 01 YY FF       |  | YY = preset num(0~0x7F)                                                            |
| CAM_recall            | 8x 01 04 3F 02 YY FF       |  |                                                                                    |
| CAM_Profile_Read      | 8x 01 04 40 01 YY FF       |  | YY = profile num(0x00~0x05)                                                        |
| CAM_Profile_Save      | 8x 01 04 40 02 YY FF       |  | only for CAM520                                                                    |
| CAM_PIP_Set           | 8x 01 04 7F 01 YY FF       |  | YY = pip num(0x00~0x04)<br><b>*Support : CAM550</b>                                |
| CAM_Track_Trigger     | 8x 01 04 7D 00 00 FF       |  | Framing Trigger Once<br><b>*Support : VB342+, VB342Pro, VB350, CAM540, CAM550,</b> |

|                              |                      |  |                                                                                                                                                                                                                                                                                                |
|------------------------------|----------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |                      |  | CAM520Pro/Pro2, VC520Pro/Pro2                                                                                                                                                                                                                                                                  |
| CAM_Track_Disable            | 8x 01 04 7D 01 00 FF |  | AI Off<br>*Support : VB342+, VB342Pro, VB350, CAM540, CAM550, CAM520Pro/Pro2, VC520Pro/Pro2                                                                                                                                                                                                    |
| CAM_Track_Auto               | 8x 01 04 7D 02 00 FF |  | Auto Framing Mode<br>*Support : VB342+, VB342Pro, VB350, CAM540, CAM550, CAM520Pro/Pro2, VC520Pro/Pro2                                                                                                                                                                                         |
| CAM_Track_Manual             | 8x 01 04 7D 03 00 FF |  | Manual Framing Mode<br>*Support : VB342+, VB342Pro, VB350, CAM540, CAM550, CAM520Pro/Pro2, VC520Pro/Pro2                                                                                                                                                                                       |
| CAM_Track_Audio_Tracking     | 8x 01 04 7D 04 00 FF |  | Audio Tracking<br>*Support : VB342+, VB342Pro, VB350                                                                                                                                                                                                                                           |
| CAM_Track_Audio_Frame        | 8x 01 04 7D 05 00 FF |  | Audio Frame<br>*Support : VB342+, VB350                                                                                                                                                                                                                                                        |
| CAM_Track_Audio_Preset       | 8x 01 04 7D 06 00 FF |  | Audio Preset tracking<br>*Support : VB342+                                                                                                                                                                                                                                                     |
| CAM_Track_Presentation       | 8x 01 04 7D 07 00 FF |  | Presentation Mode<br>*Support : VB342Pro, VB350                                                                                                                                                                                                                                                |
| CAM_Track_Set_Start_Position | 8x 01 04 7D 10 YY FF |  | Choose a preset point so that camera can detect participants from the wide view of the assigned preset area direction.<br><br>YY= <b>preset point</b><br>0x00~0x09 : preset 0~9<br>0x0A : Center of the screen image<br><br>*Support : VB342+, VB342Pro, CAM540, CAM520Pro/Pro2, VC520Pro/Pro2 |
| CAM_Track_Source             | 8x 01 04 7D 11 YY FF |  | YY= <b>AI detection source</b><br>01 : 2nd AI lens<br>02 : PTZ lens<br><br>*Support : CAM550                                                                                                                                                                                                   |
| CAM_Track_Gesture            | 8x 01 04 7D 20 02 FF |  | *Support : CAM550, VB342Pro,                                                                                                                                                                                                                                                                   |

|                       |                      |  |                                    |
|-----------------------|----------------------|--|------------------------------------|
| On                    |                      |  | VB350                              |
| CAM_Track_Gusture_Off | 8x 01 04 7D 20 03 FF |  | *Support : CAM550, VB342Pro, VB350 |

|                 |                   |  |                                    |
|-----------------|-------------------|--|------------------------------------|
| ADO_Mute_Tigger | 8x 01 08 00 00 FF |  | *Support : VB342+, VB342Pro, VB350 |
| ADO_Mute_On     | 8x 01 08 00 01 FF |  | *Support : VB342+, VB342Pro, VB350 |
| ADO_Mute_Off    | 8x 01 08 00 02 FF |  | *Support : VB342+, VB342Pro, VB350 |
| ADO_Volume_Up   | 8x 01 08 01 01 FF |  | *Support : VB342+, VB342Pro, VB350 |
| ADO_Volume_Down | 8x 01 08 01 02 FF |  | *Support : VB342+, VB342Pro, VB350 |

|                  |                |                                  |                                                                                                                                                                                                                                                                         |
|------------------|----------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version_Inq      | 8x 09 00 02 FF | y0 50 GG GG HH HH JJ JJ KK FF    | GGGG = Vender ID<br>HHHH = Model ID<br>JJJJ = Version<br>KK = Maximum socket #                                                                                                                                                                                          |
| PT_Pos_Inq       | 8x 09 06 12 FF | y0 50 0Y 0Y 0Y 0Y 0V 0V 0V 0V FF | 0Y 0Y 0Y 0Y:<br>Pan position<br>0V 0V 0V 0V:<br>Tilt position                                                                                                                                                                                                           |
| Zoom_Pos_Inq     | 8x 09 04 47 FF | y0 50 0Y 0Y 0Y 0Y FF             | 0Y 0Y 0Y 0Y:<br>Zoom position                                                                                                                                                                                                                                           |
| Track_Status_Inq | 8x 09 04 7D FF | y0 50 00 00 YY 00 FF             | YY = tracking mode<br>01 : AI off<br>02 : Auto Framing<br>03 : Manual Framing<br>04 : Audio Tracking<br>05 : Audio Frame<br>06 : Audio Preset<br>07 : Presentation<br><br>*Support : VB342+,<br>VB342Pro, VB350, CAM540,<br>CAM550,<br>CAM520Pro/Pro2,<br>VC520Pro/Pro2 |

### 3.2.2 PELCO P

**PAN AND TILT  
COMMANDS**

P/T bit(byte4.0)  
= 0

|      | byte 1 | byte 2 | byte 3 | byte 4 | byte 5    | byte 6     | byte 7 | byte 8   |
|------|--------|--------|--------|--------|-----------|------------|--------|----------|
| func | STX    | ADDR   | data1  | data2  | data3     | data4      | ETX    | checksum |
| data | 0xA0   | 0~7F   | cmd 1  | cmd 2  | Pan speed | Tilt speed | 0xAF   | 1~7 XOR  |

note : speed = 0x00~0x30

byte3 : command 1

| bit 7 | bit 6  | bit 5 | bit 4      | bit 3 | bit 2 | bit 1 | bit 0 |
|-------|--------|-------|------------|-------|-------|-------|-------|
| NA    | CAM ON | NA    | CAM ON/OFF | NA    | NA    | NA    | NA    |

note : power off : byte3.6 = 0 &amp; byte3.4 = 1

byte4 : command 2

| bit 7 | bit 6     | bit 5     | bit 4     | bit 3   | bit 2    | bit 1     | bit 0             |
|-------|-----------|-----------|-----------|---------|----------|-----------|-------------------|
| NA    | ZOOM Wide | ZOOM Tele | TILT Down | TILT Up | PAN Left | PAN Right | P/T bit 0(always) |

**EXTENDED COMMAND  
SET**

P/T bit(byte4.0)  
= 1

|                    | byte 1 | byte 2 | byte 3 | byte 4 | byte 5 | byte 6    | byte 7 | byte 8   |
|--------------------|--------|--------|--------|--------|--------|-----------|--------|----------|
| func               | STX    | ADDR   | data1  | data2  | data3  | data4     | ETX    | checksum |
| Set Preset XX      | 0xA0   | 0~7    | 0x00   | 0x03   | 0x00   | Preset #  | 0xAF   | 1~7 XOR  |
| Go To Preset XX    | 0xA0   | 0~7    | 0x00   | 0x07   | 0x00   | Preset #  | 0xAF   | 1~7 XOR  |
| Track ON           | 0xA0   | 0~7    | 0x00   | 0x65   | 0x00   | 0x00      | 0xAF   | 1~7 XOR  |
| Track OFF          | 0xA0   | 0~7    | 0x00   | 0x67   | 0x00   | 0x00      | 0xAF   | 1~7 XOR  |
| WOL ON             | 0xA0   | 0~7    | 0x00   | 0x69   | 0x00   | 0x00      | 0xAF   | 1~7 XOR  |
| WOL OFF            | 0xA0   | 0~7    | 0x00   | 0x6B   | 0x00   | 0x00      | 0xAF   | 1~7 XOR  |
| Read Profile XX    | 0xA0   | 0~7    | 0x00   | 0x6D   | 0x00   | Profile # | 0xAF   | 1~7 XOR  |
| Save To Profile XX | 0xA0   | 0~7    | 0x00   | 0x6F   | 0x00   | Profile # | 0xAF   | 1~7 XOR  |
| Track Trigger      | 0xA0   | 0~7    | 0x00   | 0x63   | 0x00   | 0x00      | 0xAF   | 1~7 XOR  |

note : Preset # : 0x01 ~ 0x7F  
Profile # : 0x01 ~ 0x05



### 3.2.3 PELCO D

#### PAN AND TILT COMMANDS

P/T bit(byte4.0) = 0

|      | byte 1 | byte 2 | byte 3 | byte 4 | byte 5    | byte 6     | byte 7   |
|------|--------|--------|--------|--------|-----------|------------|----------|
| func | SYNC   | ADDR   | cmd 1  | cmd 2  | data1     | data2      | checksum |
| data | 0xFF   | 1~80   | cmd 1  | cmd 2  | Pan speed | Tilt speed | 2~6 SUM  |

note : speed = 0x00~0x30

byte3 : command 1

| bit 7    | bit 6 | bit 5 | bit 4 | bit 3      | bit 2 | bit 1 | bit 0 |
|----------|-------|-------|-------|------------|-------|-------|-------|
| SENSE ON | NA    | NA    | NA    | CAM ON/OFF | NA    | NA    | NA    |

note : power off : byte3.7 = 0 &amp; byte3.3 = 1

byte4: command 2

| bit 7 | bit 6     | bit 5     | bit 4     | bit 3   | bit 2    | bit 1     | bit 0             |
|-------|-----------|-----------|-----------|---------|----------|-----------|-------------------|
| NA    | ZOOM Wide | ZOOM Tele | TILT Down | TILT Up | PAN Left | PAN Right | P/T bit 0(always) |

#### EXTENDED COMMAND SET

P/T bit(byte4.0) = 1

|                    | byte 1 | byte 2 | byte 3 | byte 4 | byte 5 | byte 6    | byte 7   |
|--------------------|--------|--------|--------|--------|--------|-----------|----------|
| func               | SYNC   | ADDR   | data1  | data2  | data3  | data4     | checksum |
| Set Preset XX      | 0xFF   | 1~8    | 0x00   | 0x03   | 0x00   | Preset #  | 2~6 SUM  |
| Go To Preset XX    | 0xFF   | 1~8    | 0x00   | 0x07   | 0x00   | Preset #  | 2~6 SUM  |
| Track ON           | 0xFF   | 1~8    | 0x00   | 0x65   | 0x00   | 0x00      | 2~6 SUM  |
| Track OFF          | 0xFF   | 1~8    | 0x00   | 0x67   | 0x00   | 0x00      | 2~6 SUM  |
| WOL ON             | 0xFF   | 1~8    | 0x00   | 0x69   | 0x00   | 0x00      | 2~6 SUM  |
| WOL OFF            | 0xFF   | 1~8    | 0x00   | 0x6B   | 0x00   | 0x00      | 2~6 SUM  |
| Read Profile XX    | 0xFF   | 1~8    | 0x00   | 0x6D   | 0x00   | Profile # | 2~6 SUM  |
| Save To Profile XX | 0xFF   | 1~8    | 0x00   | 0x6F   | 0x00   | Profile # | 2~6 SUM  |
| Track Trigger      | 0xFF   | 1~8    | 0x00   | 0x63   | 0x00   | 0x00      | 2~6 SUM  |

note : Preset # : 0x01 ~ 0x7F

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Profile # : 0x01 ~  
0x05

1. Position is separate into 0Y 0Y 0Y 0Y, user may assemble back as YYYY. (I.e. 0x1234 → 01 02 03 04)
2. We also support AVer CL01 control panel but not all the functions. What follows is the items we don't support on CL01.



: We don't support MENU function.



: We don't support Reset function.



: We don't support In Door, Out Door and ATW. As for R Gain and B Gain, they work as color temperature adjustment instead.



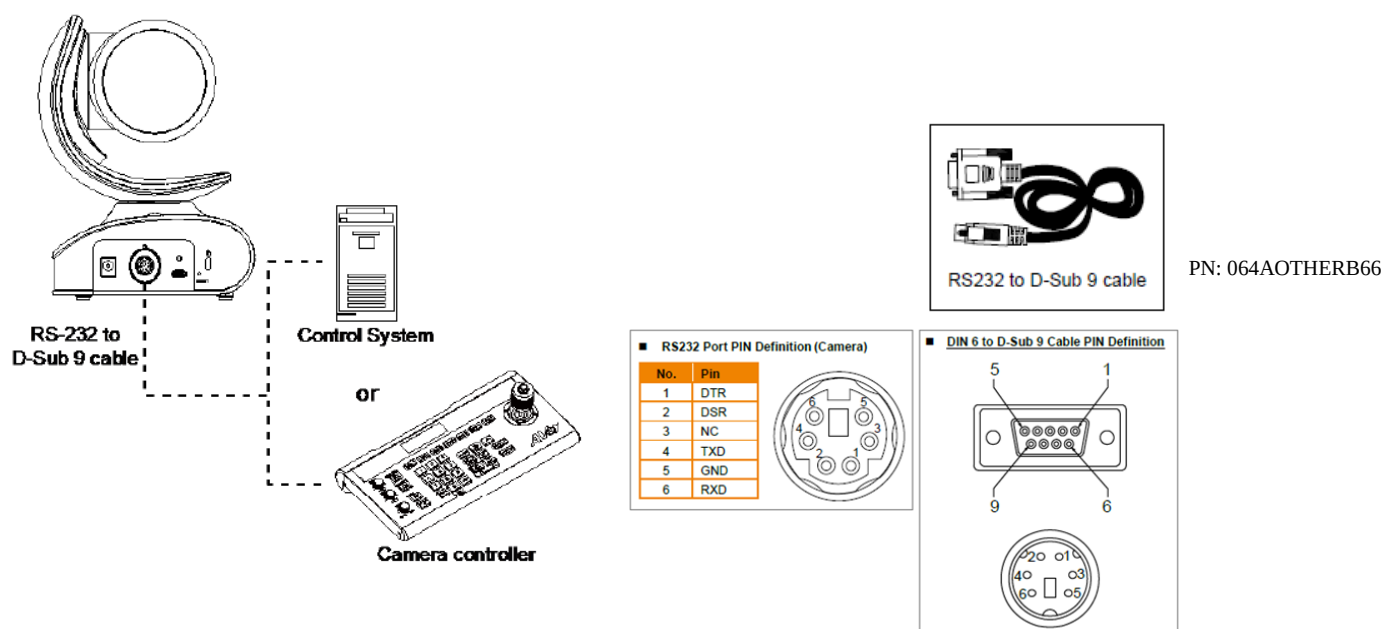
: We don't support Shutter Priority, Iris Priority and Bright.

## 4 Revision History

| Date       | Rev. | Author  | Content                                                                            |
|------------|------|---------|------------------------------------------------------------------------------------|
| 2015.07.31 | 1.0  | Drama   | Draft                                                                              |
| 2016.02.23 | 1.1  | Drama   | Modified. Zoom_Tele & Zoom_Wide.                                                   |
| 2018.09.25 | 1.2  | William | Add. CAM_Power_ON & CAM_Power_OFF                                                  |
| 2019.10.08 | 1.3  | William | Add. CAM_Track Command                                                             |
| 2019.12.24 | 1.4  | Drama   | Add. CAM520Pro/VC520 Pro                                                           |
| 2020.06.23 | 1.5  | William | Add. ADO_Mute & ADO_Volume                                                         |
| 2020.7.10  | 1.6  | Sarah   | Add CAM520Pro/VC520 Pro RS232 connection                                           |
| 2020.8.18  | 1.7  | Sarah   | Correction on CAM520Pro/VC520 Pro RS232 connection                                 |
| 2021.4.14  | 2.0  | William | Add more commands, including supporting external control panel, such as AVer CL01. |
| 2022.3.28  | 2.2  | Vanessa | Add VB342 Pro and CAM550                                                           |
| 2022.4.1   | 2.3  | Vanessa | Add VB342Pro, VB350, CAM550 command list                                           |

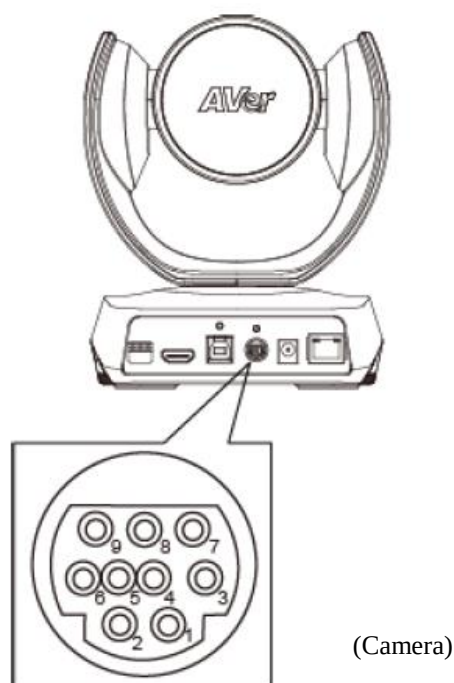
## 5 RS232 connection

Model: CAM520,VC520+, CAM540, VB342+, VB342 Pro, VB350



Model: CAM520 Pro/Pro2, VC520 Pro/Pro2, CAM550

### Camera RS232 Port Pin Definition

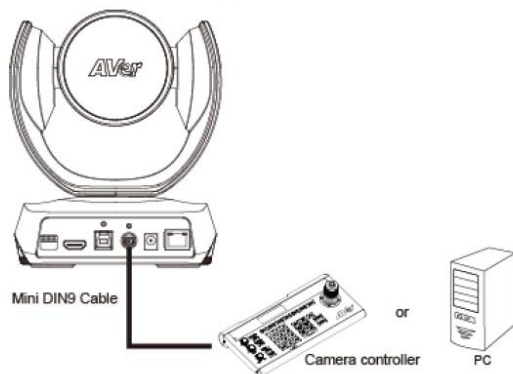


| Function  | Mini DIN9 PIN # | I/O Type | Signal | Description         |
|-----------|-----------------|----------|--------|---------------------|
| VISCA IN  | 1               | Output   | DTR    | Data Terminal Ready |
|           | 2               | Input    | DSR    | Data Set Ready      |
|           | 3               | Output   | TXD    | Transmit Data       |
|           | 6               | Input    | RXD    | Receiver Data       |
| VISCA OUT | 7               | Output   | DTR    | Data Terminal Ready |
|           | 4               | Input    | DSR    | Data Set Ready      |
|           | 8               | Output   | TXD    | Transmit Data       |
|           | 9               | Input    | RXD    | Receiver Data       |
|           | 5               | ---      | ---    | Not connect         |

## ■ Computer/Keyboard Controller and Camera Connection

### Direct Connection

If users don't buy AVer RS232 adaptor cable, please refer to the pin connection shown below.



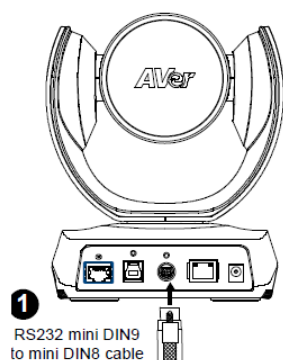
| Camera<br>(Mini DIN9) | Controller/PC<br>(DB9) |
|-----------------------|------------------------|
| 1. DTR(IN)            | 1. DCD                 |
| 2. DSR(IN)            | 2. RXD                 |
| 3. TXD(IN)            | 3. TXD                 |
| 6. RXD(IN)            | 4. DTR                 |
| 7. DTR(OUT)           | 5. GND                 |
| 4. DSR(OUT)           | 6. DSR                 |
| 8. TXD(OUT)           | 7. RTS                 |
| 9. RXD(OUT)           | 8. CTX                 |
|                       | 9. RI                  |

**Use the RS232 mini DIN9 to mini DIN8 cable** (included with CAM520 Pro(PoE) SKU, otherwise sold separately).

Users can purchase AVer RS232 min DIN9 to mini DIN8 adaptor cable\* to connect with Computer or keyboard/controller.

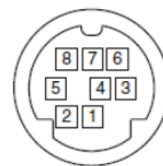
1. RS232 (mini DIN9 to mini DIN8) adaptor cable (PN: 064AOTHERCDC)

2. Users can also purchase a miniDIN8 to D-Sub9 cable to connect with camera controller.  
(PN: 064AOTHERBPK)



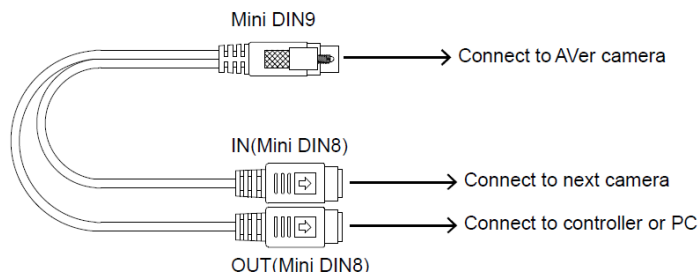
| Controller/PC<br>(DB9) | Camera<br>(Mini DIN8) |
|------------------------|-----------------------|
| 1. DCD                 | 1. DTR(IN)            |
| 2. RXD                 | 2. DSR(IN)            |
| 3. TXD                 | 3. TXD(IN)            |
| 4. DTR                 | 4. GND(IN)            |
| 5. GND                 | 5. RXD(IN)            |
| 6. DSR                 | 6. GND(IN)            |
| 7. RTS                 | 1. DTR(OUT)           |
| 8. CTX                 | 2. DSR(OUT)           |
| 9. RI                  | 3. TXD(OUT)           |
|                        | 4. GND(OUT)           |
|                        | 5. RXD(OUT)           |
|                        | 6. GND(OUT)           |

Mini DIN8 Pin Definition



| No. | Pin |
|-----|-----|
| 1   | DTR |
| 2   | DSR |
| 3   | TXD |
| 4   | GND |
| 5   | RXD |
| 6   | GND |
| 7   | NC  |
| 8   | NC  |

■ RS232 mini DIN9 to mini DIN8 Cable Pin Definition

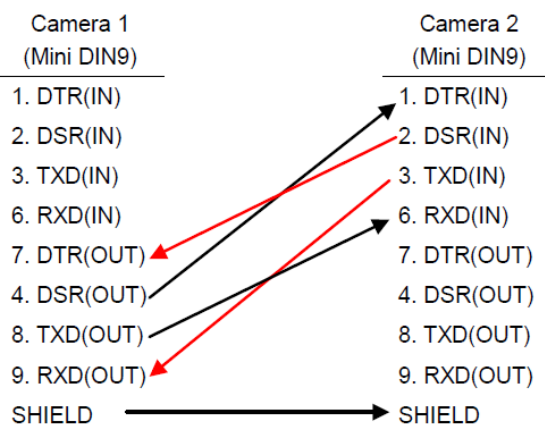
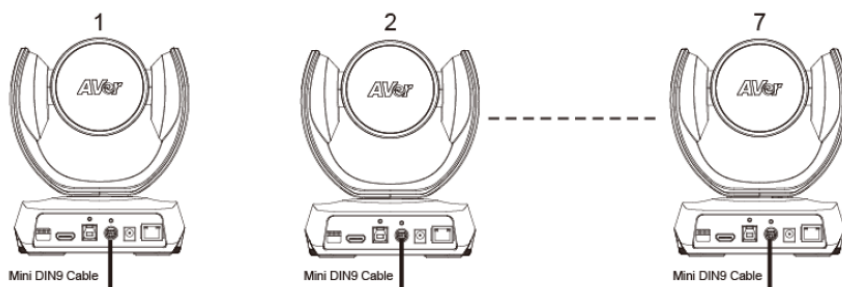


■ Camera Cascade Connection

Direct Connection

If users don't buy AVer RS232 adaptor cable, please refer to the pin connection shown below for cascading cameras.

Total can connect up to 7 cameras.



Use the RS232 mini DIN9 to mini DIN8 cable

Total can connect up to 7 cameras.

To facilitate the camera cascade, users can purchase AVer RS232 adaptor cable.

Connect camera with AVer mini DIN9 to mini DIN8 adaptor cable. Connect the mini DIN8 female side to male mini DIN8 Visca cable (Users have to buy it in the market) and then connect AVer mini DIN9 to mini DIN8 adaptor cable again to connect to next camera.

