



VISCA Camera Control Unit & Software

CSS-USB

OPERATION GUIDE

**CAUTION:**

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.

**CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**WARNING**

This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.

**PRECAUTION**

This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

1. Be sure to use only the standard cable that is specified in the specification sheet. Using any other cable or pin could cause fire, electrical shock, or damage to the product.
2. Incorrectly connecting the cable or opening the housing may cause excessive fire, electric shock, or damage to the product.
3. Do not connect external power source to the product.
4. When connecting VISCA cable, fasten it securely and firmly. A falling unit may cause personal injury.
5. Do not place conductive objects (e.g. screw drivers, coins, metal items, etc.) or containers filled with water on top of the device. Doing so may cause personal injury due to fire, electric shock, or falling objects.

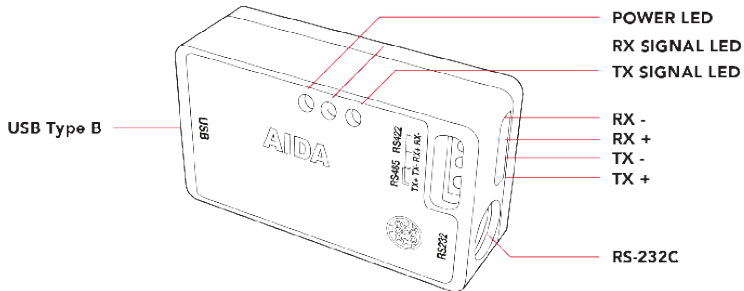
Warning continues

6. Do not install the device in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
7. If any unusual smells or smoke come from the unit, stop using the product. Immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
8. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way.
9. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

Precaution

Please read this Operation Guide before installing and using the camera & retain this copy for your reference.

1. Always follow the instructions in the operation guide when applying power. Fire and equipment damage can occur if power is applied incorrectly. For the correct power supply, refer to the specifications page.
2. Do not use the device if fumes, smoke or a strange odor is emitted from the device, or if it seems not functional correctly. Disconnect the power source immediately and consult with your supplier.
3. Do not use the device in extreme environments where high temperatures or high humidity exists. Use the device under conditions where temperatures are between 32° F - 104° F, and humidity is below 90%.
4. To prevent damage, do not drop the converter or subject it to strong shock or vibration.



USB CABLE



USB Type A

USB Type B

RS-232C Mini Din to RJ45 Gender Changer

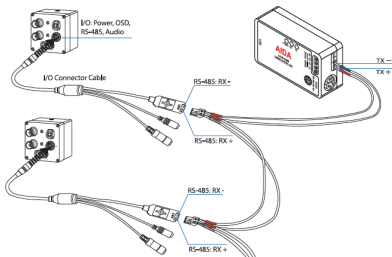


Mini Din

RJ45

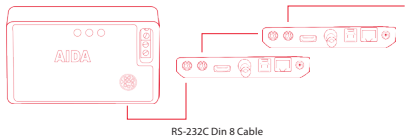
- SONY VISCA Compatible and works with a majority of VISCA protocol products.
- Supports PELCO Pan / Tilt / Zoom / Focus protocol.
- Control up to 7 VISCA control cameras and 255 third party control cameras.
- User friendly software interface.
- Support RS-232, RS-485, RS-422.
- USB interface for easy installation.
- Windows and MAC OS X compatible.
- Compact and rugged design.

Connection: Using RS-485



When connecting through RS-485 connection.

1. Connect TX+ of CCS-USB to RX+ of GEN3G-200 and TX- of CCS-USB to RX- of GEN3G-200.
2. Connect another pair of 485 cable to the same connector when connecting multiple cameras.



When connecting through RS-232 connection.

1. Use VISCA 8-pin Din cable to connect CCS-USB to 232 Input.
2. Use VISCA RS-232C out on the camera to connect to RS-232C in on the next camera. Daisy-chaining is up to 7 cameras.
3. When using third party cameras, make sure the pin layout before running the RS-232C cable

VISCA IN/OUT



1. DTR	1. DTR
2. DSR	2. DSR
3. TXD	3. TXD
4. GND	4. GND
5. RAD	5. RAD
6. GND	6. GND
7. NOT USED	7. NOT USED
8. NOT USED	8. NOT USED

RS-232C DIN 8 cable Pin Assignment

1. If you are using PTZ3-X20L, follow the cable pin assign shown in the table.
2. If you are using another cameras with RS-232, be sure to check the pin assignment. You may need to customize the cable.

Continue on Next Page

RS-232C Mini Din to RJ45 Gender Changer Pin Assignment

- CCS-USB comes with 8 pin mini Din connector to RJ45 gender changer.
If you need to customize cable pin assignment, use CAT5/6 cable to change the cable layout.



Mini Din to RJ45 Gender Changer

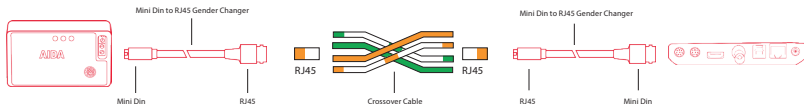


Mini Din



RJ45

- When using the gender changer in pairs, make sure to use crossover cable.



1. Download Software

Mac Version of AIDA CCS is available on AIDA website.

Download software from www.aidaimaging.com under support page.

2. Driver Installation

Most of the recent Mac has built-in driver fro CCS-USB.

If your Mac does not recognize CCS-USB, download the driver file from www.aidaimaging.com under support page.

When driver is properly installed, CCS-USB will appear as follow.

MacBook Air

Hardware

- ATA
- Audio
- Bluetooth
- Camera
- Card Reader
- Diagnostics
- Disk Burning
- Ethernet Cards
- Fibre Channel
- FileWire
- Graphics/Displays
- Hardware RAID
- Memory
- NVMeExpress
- PCI
- Parallel SCSI
- Power
- Printers
- SAS
- SATA/SATA Express
- SPI
- Storage
- Thunderbolt
- USB**

USB Device Tree

- USB 2.0 Bus
 - Hub
 - FT232R USB UART
 - USB 2.0 Bus
 - FaceTime Camera (Built-in)
 - Hub
 - Apple Internal Keyboard / Trackpad
 - BRCM20702 Hub
 - Bluetooth USB Host Controller

Host Controller Driver: AppleUSB4HCI/PCI
 PCI Device ID: 0x7c29
 PCI Revision ID: 0x0005
 PCI Vendor ID: 0x5066

Hub:

Product ID: 0x2013
 Vendor ID: 0x0c24 (SMSC)
 Version: 0.03
 Speed: Up to 480 Mb/sec
 Location ID: 0x010000 / 1
 Current Available (mA): 5000
 Current Required (mA): 2
 Extra Operating Current (mA): 0
 Built-in: Yes

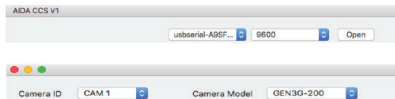
FT232R USB UART:

Product ID: 0x8001
 Vendor ID: 0x3443 (Future Technology Devices International Limited)
 Version: 6.00
 Serial Number: A6577TPL
 Speed: Up to 12 Mb/sec
 Manufacturer: FTDI
 Location ID: 0x0110000 / 2
 Current Available (mA): 1000
 Current Required (mA): 90
 Extra Operating Current (mA): 0

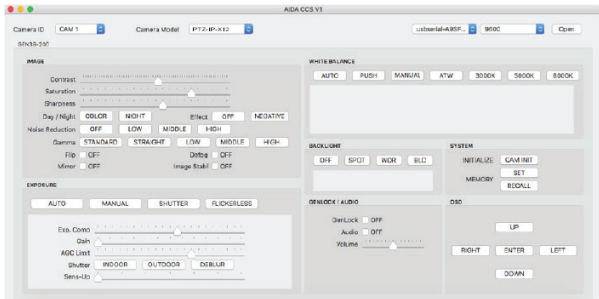
USB 2.0 Bus FT232R USB UART

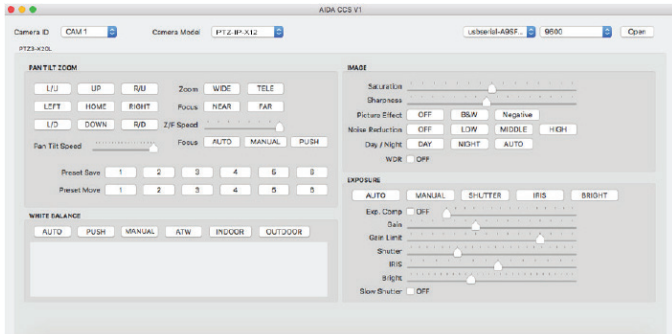
Continue on Next Page

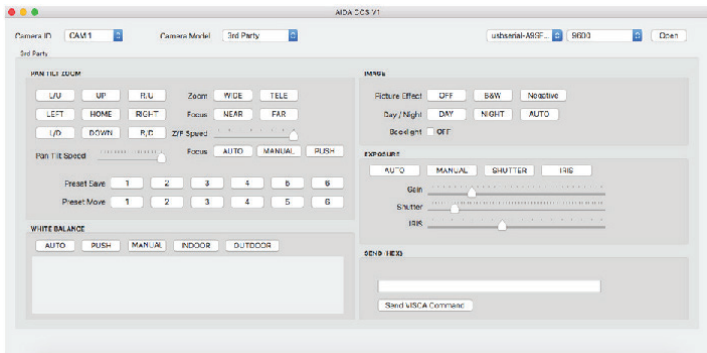
3. Launch AIDA CCS-USB software.
4. Select CCS-USB device which appears from System Report.
5. Select Baudrate.
- Make sure the selected baudrate matches the baudrate set from the camera.
6. Click Open button to initiate communication.
7. Select Camera ID and choose Camera Model.



PTZ-IP-X12 INTERFACE







1. Download Software

Mac Version of AIDA CCS is available on AIDA website.

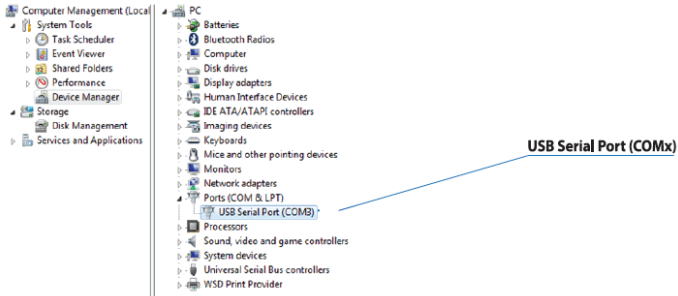
Download software from www.aidaimaging.com under support page.

2. Driver Installation

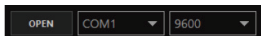
Most of the recent Windows has built-in driver fro CCS-USB.

If your PC does not recognize CCS-USB, download the driver file from www.aidaimaging.com under support page.

When driver is properly installed, CCS-USB will appear as follow.



Continue on Next Page



3. Launch AIDA CCS-USB software.
4. Select CCS-USB device which appears from System Report.
5. Select Baudrate.

Make sure the selected baudrate matches the baudrate set from the camera.

6. Click Open button to initiate communication.
7. Click on camera model name to choose between different camera models.
8. Once the drop-down menu is open, camera model can be assigned from CAM 1 through CAM 7.

GEN3G-200: INTERFACE

AIDA - [] [X]
CCS Version 2.1.3

CAM1 CAM2 CAM3 CAM4 CAM5 CAM6 CAM7 OTHER COLOR
PTZ-IP-X12 HD-100 UHD6G-X1 UHD-100 UHD-200 PTZ-IP-X20 3rd Party CAM16 Blue OFFN COM1 5600

PAN TILT ZOOM

Joystick Key

Zoom: WIDE TELE
Focus: NEAR FAR
Z/F Speed: [Slider]
Focus Mode: AUTO MANUAL PUSH

PRESET

Preset No. Nick Name
Preset1 [Text]
SAVE MOVE

WHITE BALANCE

AUTO Manual OnePush Outdoor ATW Sodium Fluorescent Indoor
One Push Trigger One Push Trigger

IMAGE

Noise Reduction 2D Off 3D [Slider]
Sharpness [Slider]
Contrast [Slider] Mirror off [Slider]
Saturation [Slider] Flip off [Slider]
Bright [Slider]
D-WDR [Slider]
Day / Night DAY NIGHT
Gain Limit [Slider]

EXPOSURE

AUTO Bright Manual IRIS Shutter

Shutter [Slider]
IRIS [Slider]
Gain [Slider]
Bright [Slider]
Backlight Off [Slider]
Gamma [Slider]

The screenshot displays the AIDA software interface for a third-party camera. The top navigation bar includes tabs for CAM1 through CAM7, OTHER, and COLOR. The current camera is identified as '3rd Party' under CAM7. The interface is divided into several functional panels:

- IMAGE:** Contains sliders for Contrast, Brightness, Saturation, HUE, Edge Enhance, Gamma, and Noise Reduction. It also features 'Day / Night' buttons (COLOR, NIGHT) and a DEFOG control.
- EXPOSURE:** Includes tabs for AUTO, MANUAL, SHUTTER, and AGC. Sliders are provided for AGC Limit, Sens-Up, and AE Bright. Flickerless control is set to OFF.
- WHITE BALANCE:** Offers modes: AIW, OUTDOOR, ONE-PUSH, MANUAL, and INDOOR.
- SYSTEM:** Features buttons for INITIAL OFF, CAM INIT, Reset, Memory, NPT, and RECALL.
- AUDIO:** Includes an Audio toggle (OFF, MIC, LINE), a Volume slider, and a SampleRate selector (16bits, 20bits, 24bits, 32bits).
- OSD:** A directional pad with a central 'PNTFR' button.

Additional interface elements include a top status bar with 'CCS Version 2.1.3', an 'OPEN' button, and dropdown menus for 'COM1' and '9600'.

1. CCS-USB does not control my camera.
 - Make sure driver is installed properly.
 - Check Camera ID and Baudrate.
 - Check if the connected camera supports VISCA protocol.
 - Check if Power LED is on.
 - Check cable connections and pin assignments.
2. Does CCS-USB require power adapter?
 - CCS-USB acquires power through USB cable. Additional power is not required.
3. How do I control multiple Adapter?
 - Daisy chain connection is required to control multiple cameras. Make sure that camera support daisy chain connection.
 - CCS-USB allows up to 7 VISCA devices.
4. Can I use AIDA software with other control devices?
 - AIDA software requires CCS-USB to function properly.
5. What is the maximum cable distance?
 - S-232 standard is limited up to 15 m(50 ft). If the cable is longer than the limit, then CCS-USB may not respond properly.
 - RS-485 standard is limited up to 1,200m(4,000 ft).
6. Does CCS-USB work with any VISCA compatible products?
 - Most of VISCA compatible products will work with CCS-USB.

QUESTIONS

Visit us:

www.aidaimaging.com/support

E-mail us:

support@aidaimaging.com

Give us a Call:

Toll Free: 844.631.8367 | Tel: 909.333.7421

Operating Hours: Mon-Fri | 8:00am – 5:00pm PST

AIDA

IMAGING



기자재 명칭(모델명) : Signal Converter
인증번호 : R-R-10-TGEN-6P
인증 받은 자의 상호 : (주)에이치올러스텍
제조년월 :
제조자/제조국가 : (주)에이치올러스텍 / 한국



Disposal of Old Appliances

1. When this crossed-out wheel bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream in accordance to laws designated by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

