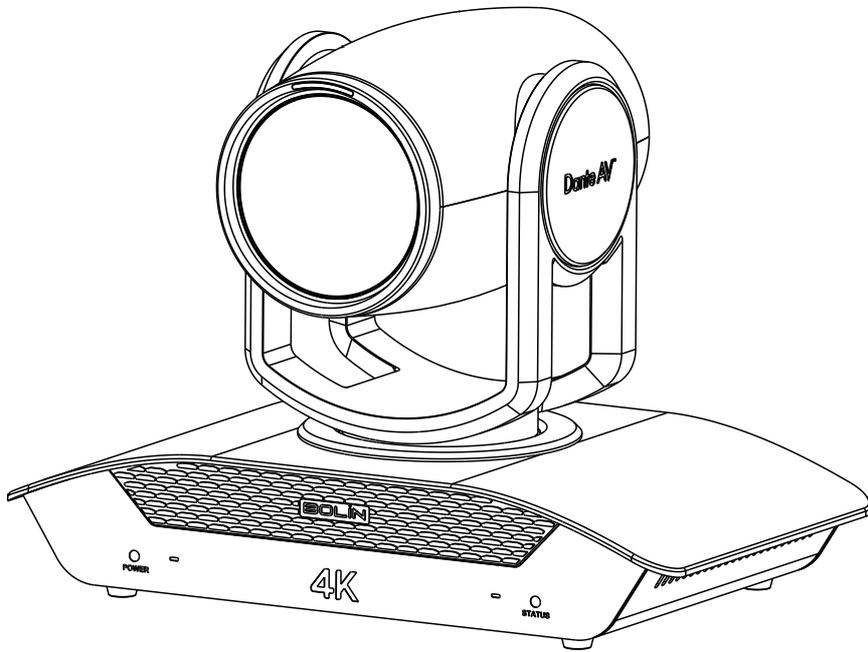
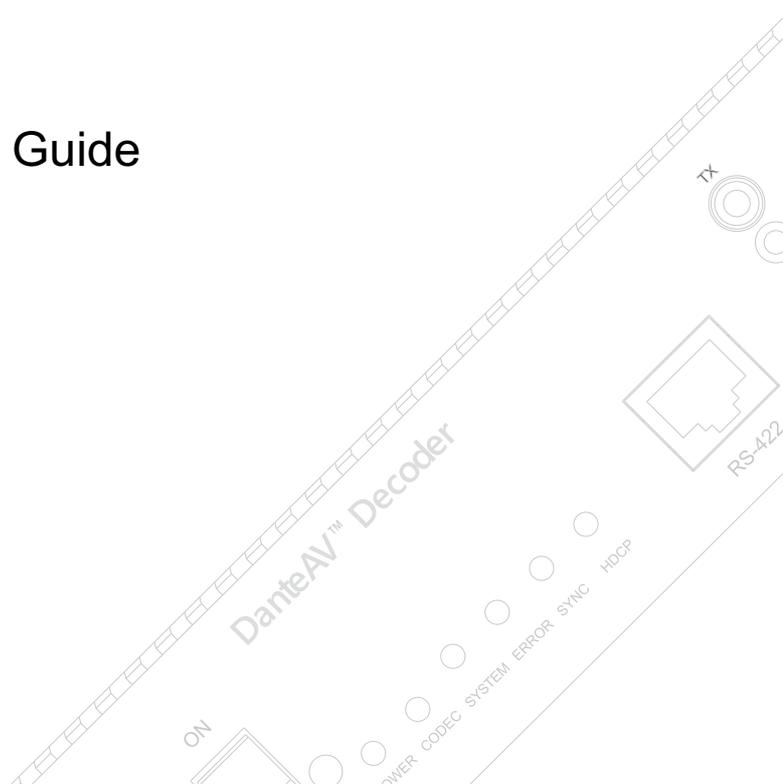


Dante AV™

PTZ Camera Decoder

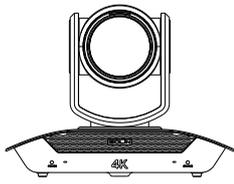


Quick Start Guide



This quick start guide applies to D412, D220, D10H

Items included in the camera box



D412/D220
Dante AV Camera x 1



VCC-P12-4
Power Adaptor x 1



Power Cord x 3
(Type: US, EU, UK)



VCC-RC-2
IR Controller x 1
Batteries not included)



VCC-CC45RS
RJ45 to RS232 Control cable x 1



VCC-CC45RS
RJ45 to RS422 Control cable x 1



Safety Hook x 1
Used to secure the camera to its
mounting solution



Thank You Card x 1



HDMI Cable Mount*1



M4-6PW Screw X3
For camera bracket mounting



M2.5-3C Screw x 2
For HDMI cable secure mounting

Items included in the decoder box



D10H
Dante AV Decoder x 1



VCC-P12-4
Power Adaptor x 1



Power Cord x 3
(Type: US, EU, UK)



VCC-CC45RS
RJ45 to RS422
Control cable x 1



B-BM10
Base Mount Kit x1



B-SM10
Surface Mount Kit x 1



M4-6PW Screw x 8
For Surface Mount Kit mounting



M2.5-3C Screw x 8
For HDMI cable secure mounting



M3-8K Screw x 4
For base mount kit mounting



M5-12P Screw x 4
For TV surface mounting



Mini Pole Bracket x 1



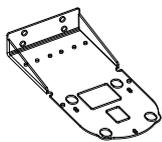
Cable Tie x 4



HDMI Cable Mount x 1

Note: The Dante AV Decoder is mandatory for Dante AV video output.

Optional Accessories



BL-WM-01
Wall mounting kit -
For Camera or Decoder



BL-CM-01
Ceiling mounting kit -
For camera



BL-PP97
Bolin 97W POE power supply -
For Camera and Decoder



B-DR10
DIN Rail Mounting Kit -
For Decoder



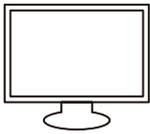
B-RM10
Single Rack Mounting Kit-
For Decoder



B-RM11
Dual Rack Mounting Kit-
For Decoder

Camera HDMI Output Setup

1. Item List



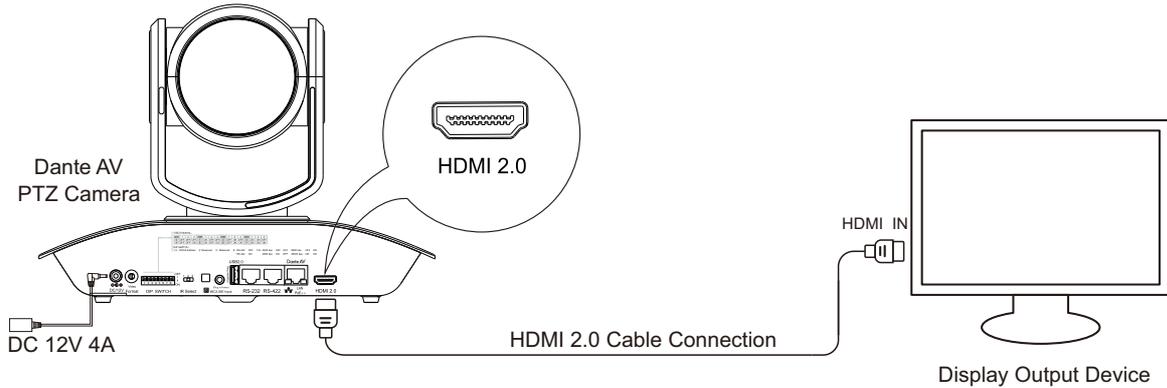
Supports HDMI 2.0
4K60,
RGB,
YUV (4:4:4/4:2:2/4:2:0),



Display Output Device x1 (Not included)

HDMI 2.0 Cable x1 (Not included)

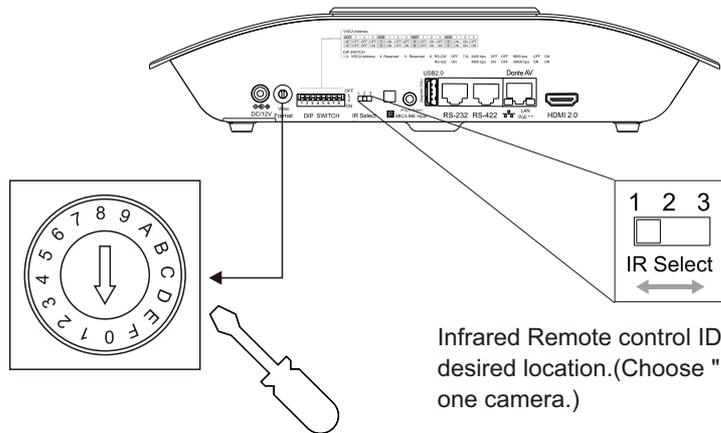
2. Connection Diagram



3. Resolution Configuration

Use a flat screwdriver to set the circular speed dial to the desired resolution. The table below indicates the video formats the camera supports. Choose 1,2,or 3 on the IR Select to control the camera.

NO	Video Format
0	720p50
1	720p60
2	1080p23.98
3	1080p25
4	1080p29.97
5	1080p30
6	1080p50
7	1080p59.94
8	1080p60
9	2160p23.98
A	2160p25
B	2160p29.97
C	2160p30
D	2160p50
E	2160p59.94
F	2160p60



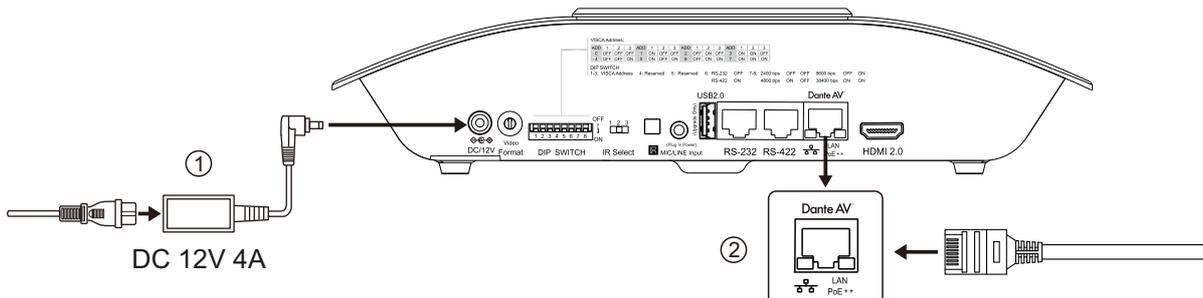
Infrared Remote control ID, please dial it to the desired location.(Choose "1" when there is only one camera.)

Note: Power off the camera prior to changing dial settings. Resolution can also be changed via OSD menu once the camera is powered on. Camera will follow the latest configured resolution. Refer to the camera manual for further detail.

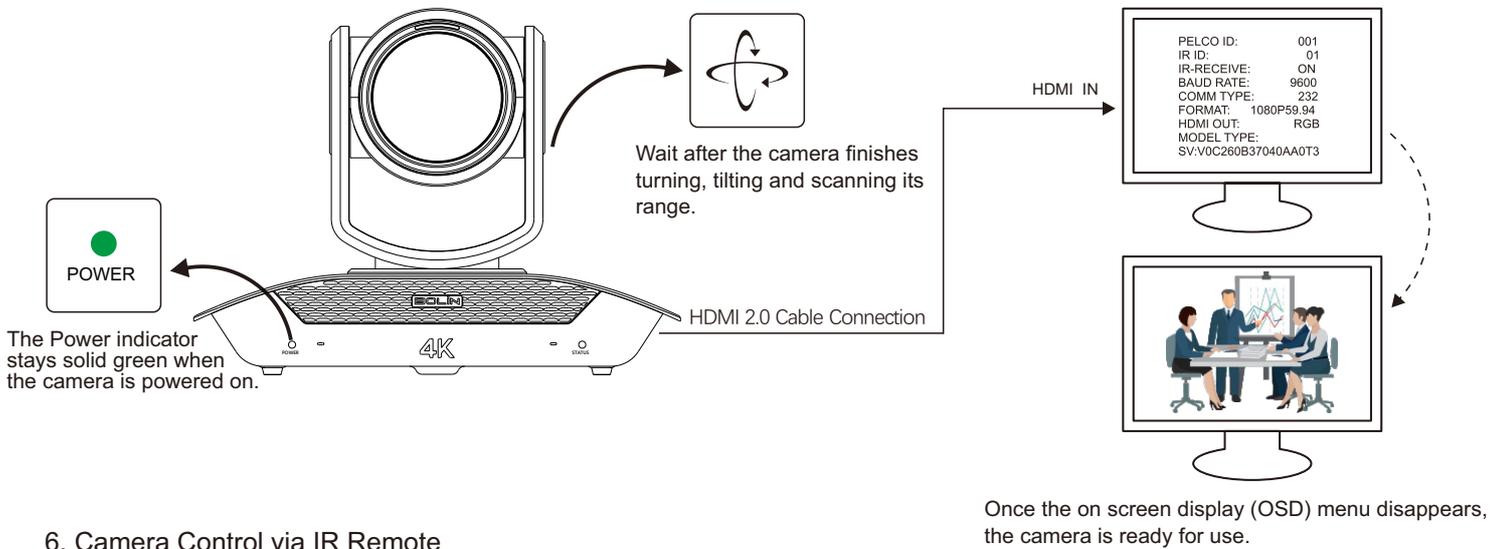
4. Power the Camera

When powering via both DC 12V and POE++, DC 12V takes precedence. Using only one powering method to power the camera is highly recommended.

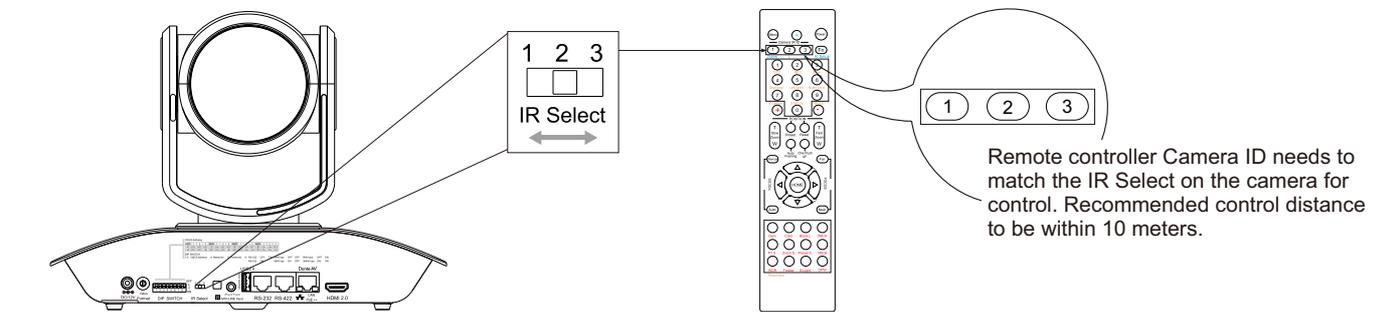
- ① Power Adaptor (DC 12V 4A) to power the camera.
- ② When using POE++, use IEEE802.3bt certified switch to power the camera.



5. Dante AV Camera Startup



6. Camera Control via IR Remote

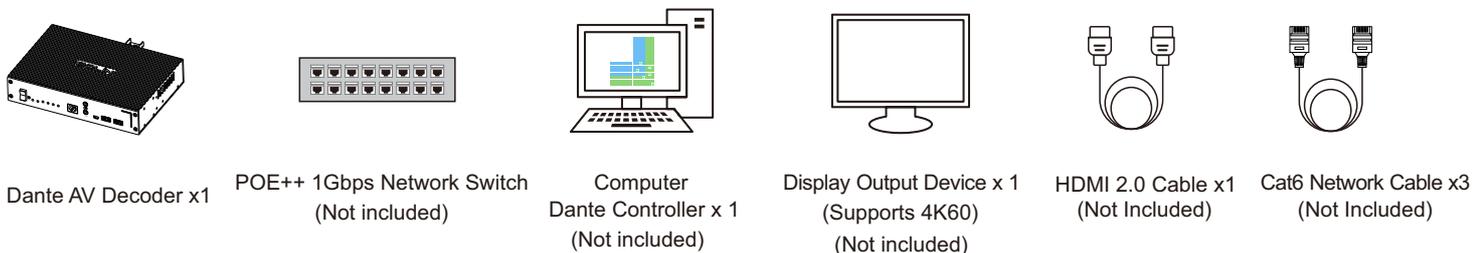


	Camera OSD menu		For slow zooming
	Direction control		For fast zooming

Note: For detailed IR remote operation instruction, please refer to camera product manual.

Dante AV Video Output Setup

1. Item List



2. Install Dante Controller Software

Dante Controller Download URL: <https://my.audinate.com/support/downloads/download-latest-dante-software?lang=zh-hans>

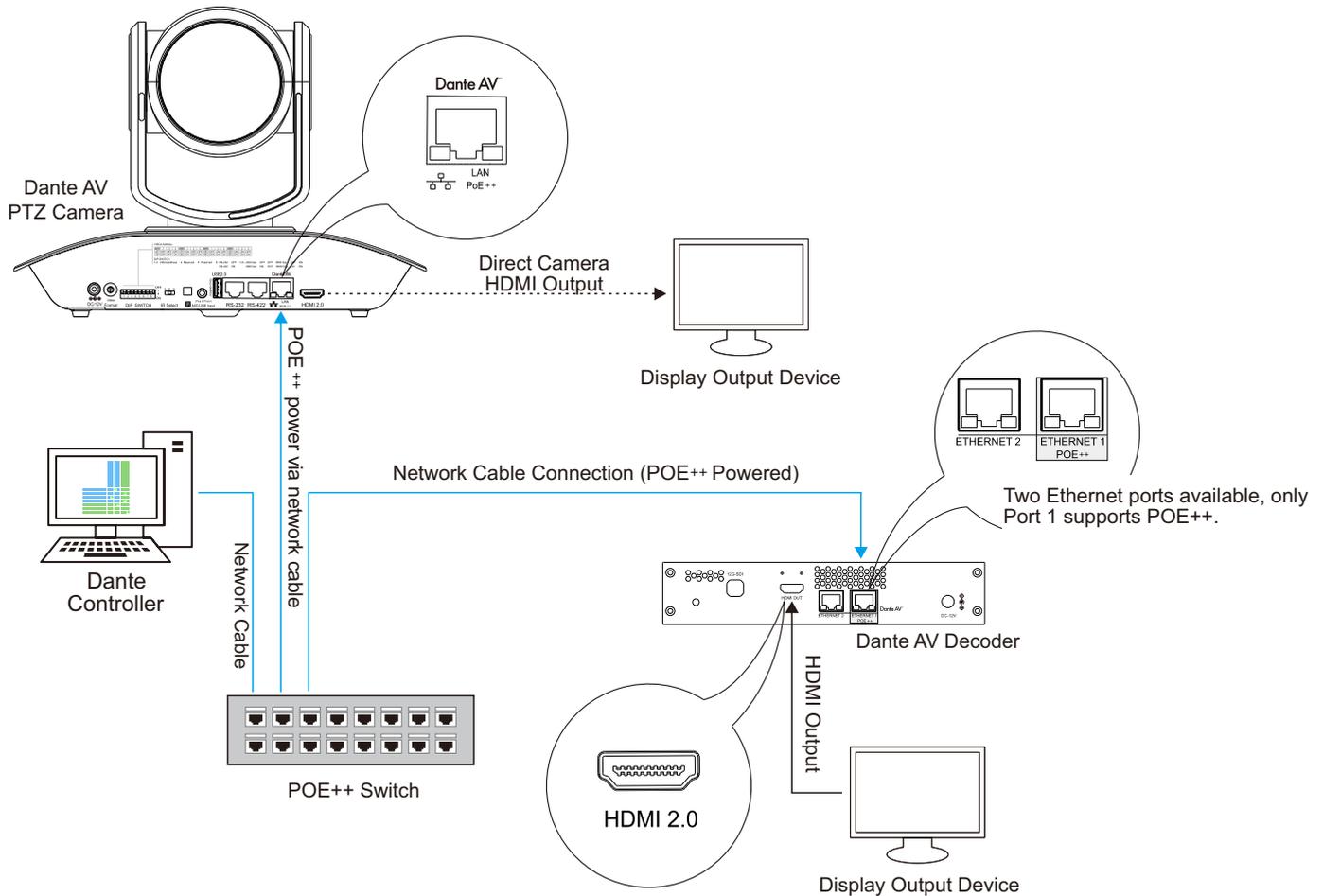
Dante Controller Hardware Requirements:

- CPU: Minimum of 1GHz processor
- Storage: At least 512MB
- Network Card: Ethernet connectivity port (1000 Mbps)

Dante Controller OS Requirements:

- Windows: Windows 7/8/10
- Mac OSX: 10.13.6 / 10.14.6 / 10.15 Note: Does not support PPC.

3. Connection Diagram



Note: ①. DHCP network configuration is recommended.

② If network does not support DHCP, please manually configure IP details on the camera and decoder to match the same gateway.

③ Switch Requirement:

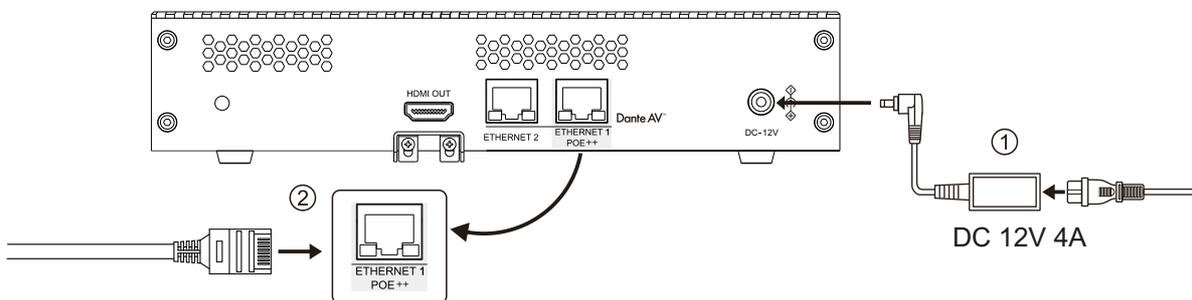
- Nonblocking Layer 2
- Green Ethernet must be OFF (Recommend not using Green Ethernet capable switches)
- Use reputable "Managed" switches
- Support QoS with strict priority and 4 queues
- IGMP Snooping ON
- Please refer to product manual at www.bolintech.com for IP configuration instructions

4. Power on the Decoder

Both DC12V and POE are workable, when powering the camera, DC 12V preferably.

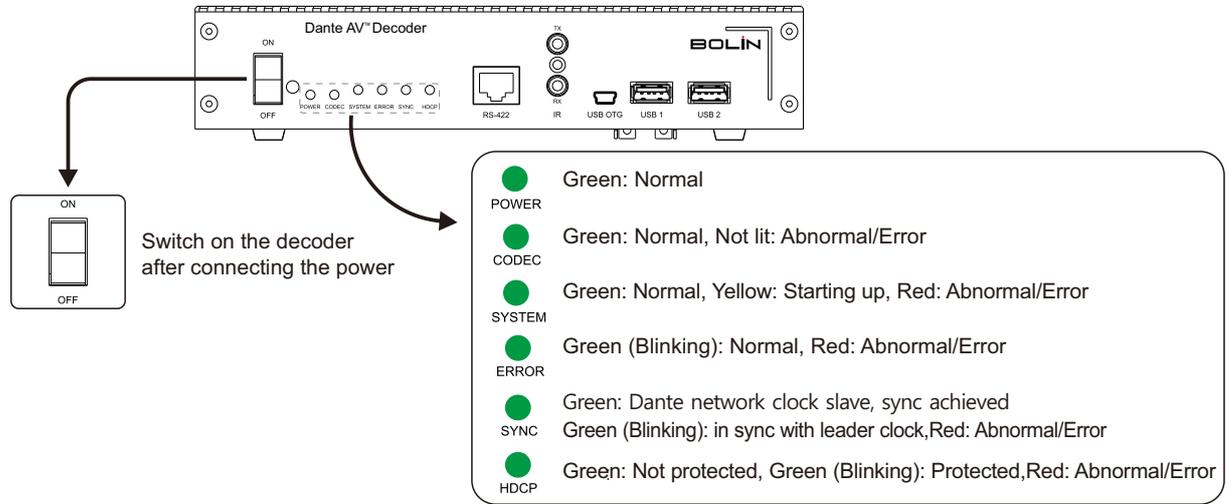
①. Power Adaptor (DC 12V 4A) to power the decoder.

②. When using POE ++ , use IEEE802.3bt certified switch to power this decoder



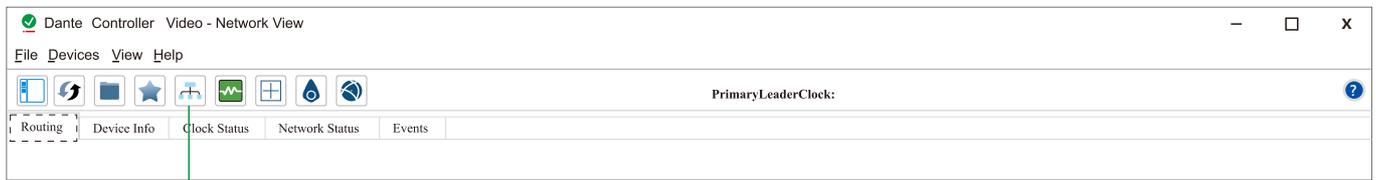
Note: For Dante AV camera startup tips, please refer to its respective diagram.

5. Dante AV Decoder Startup

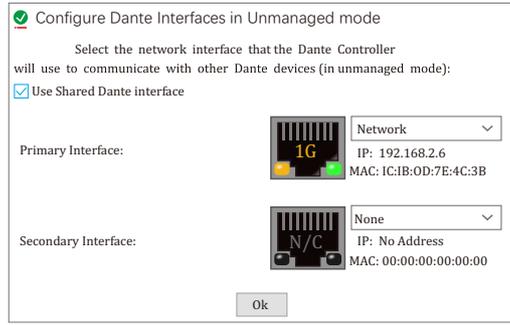


Note: For Dante AV camera startup tips, please refer to its respective diagram.

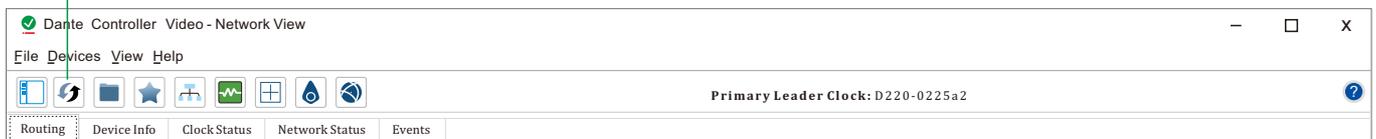
6. Display Camera Video via Decoder



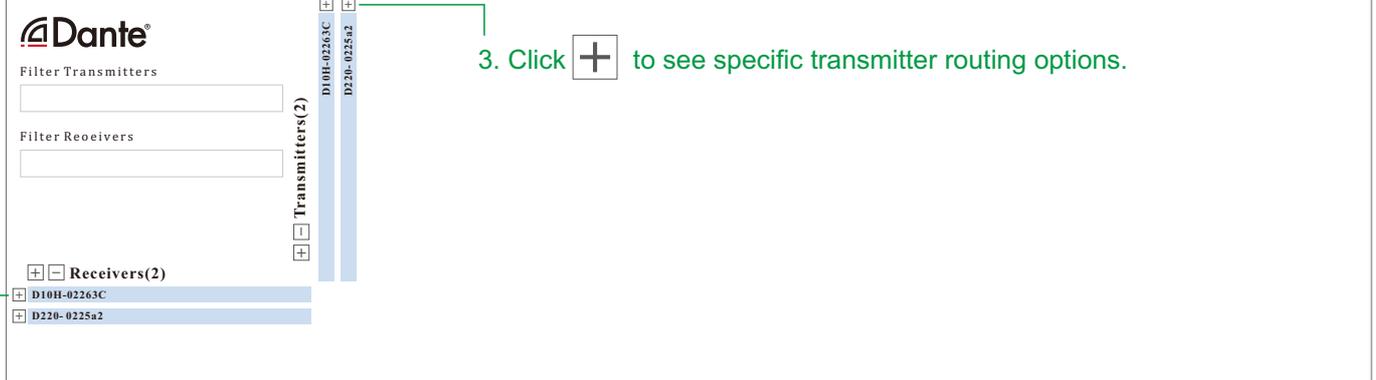
1. Click to choose network interface
This is mandatory when there are multiple network connectivity methods on the device.



2. Click to see all connected Dante devices.



3. Click to see specific transmitter routing options.



4. Click to see specific receiver routing options.

Dante Controller Video - Network View

File Devices View Help

Primary Leader Clock: D220-0225a2

Device Name	Model Name	Product Version	Dante Version	Device Lock	Primary Address	Primary Link Speed	Secondary Address	Secondary Link Speed
D10H-02263c	Bolin D10H	3.1.2	4.3.6.10	<input type="checkbox"/>	192.168.2.154	1Gbps	N/A	N/A
D220-0225a2	Bolin D220 Camera	3.1.2	4.3.6.10	<input type="checkbox"/>	192.168.2.155	1Gbps	N/A	N/A

5. In Device Info tab, all connected Dante devices are displayed, if the device is not listed please check its network connectivity.

Dante Controller Video - Network View

File Devices View Help

Primary Leader Clock: D220-0225a2

Device Name	Sync	Mute	Clock Source	Domain Status	Primary v1 Multicast	Primary v2 Multicast	Secondary v1 Multicast	Secondary v2 Multicast	Preferred Leader	Enable Sync To External
D10H-02263c	<input checked="" type="checkbox"/>		Dante	N/A	Follower	Disabled	N/A	N/A	<input type="checkbox"/>	N/A
D220-0225a2	<input checked="" type="checkbox"/>		Dante	N/A	Leader	Disabled	N/A	N/A	<input type="checkbox"/>	N/A

6. Select the Clock Status tab for clock leader. This is optional, Dante Controller software will automatically select a leader if left undefined.

Dante Controller Video - Network View

File Devices View Help

Primary Leader Clock: D220-0225a2

Routing Device Info Clock Status Network Status Events

Dante

Filter Transmitters

Filter Receivers

Receivers(2)

Receiver	D10H-02263c	D220-0225a2
HDMI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Center	<input type="checkbox"/>	<input type="checkbox"/>
LFE/Screen	<input type="checkbox"/>	<input type="checkbox"/>
Left Surround	<input type="checkbox"/>	<input type="checkbox"/>
Right Surround	<input type="checkbox"/>	<input type="checkbox"/>
Left Center	<input type="checkbox"/>	<input type="checkbox"/>
Right Center	<input type="checkbox"/>	<input type="checkbox"/>
USB	<input type="checkbox"/>	<input type="checkbox"/>
RS-422	<input type="checkbox"/>	<input type="checkbox"/>
IR	<input type="checkbox"/>	<input type="checkbox"/>

Transmitters(2)

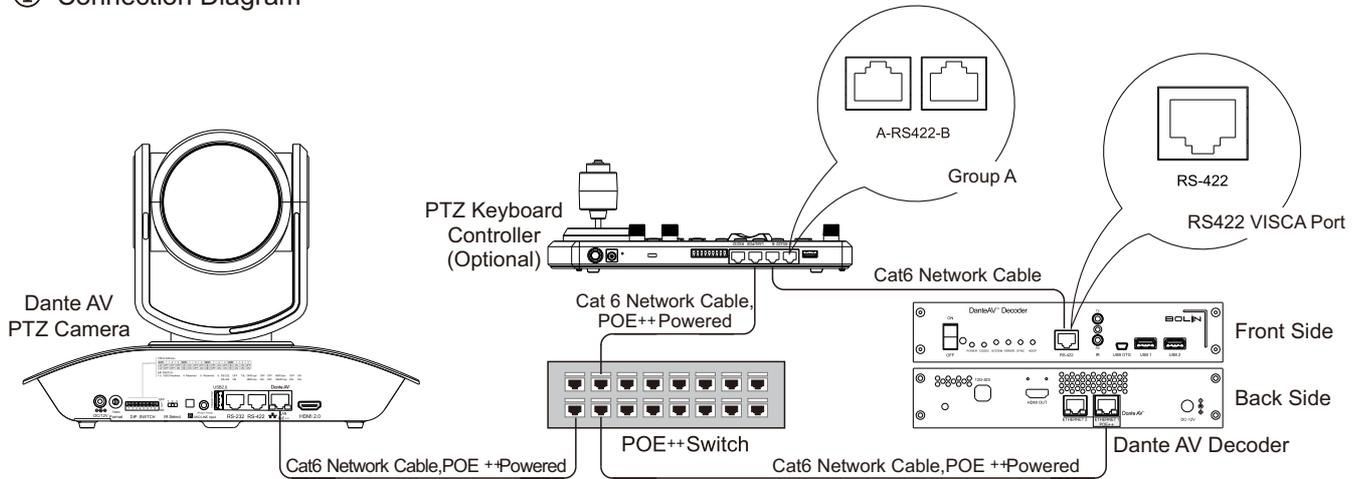
Transmitter	D10H-02263c	D220-0225a2
USB	<input type="checkbox"/>	<input type="checkbox"/>
IR	<input type="checkbox"/>	<input type="checkbox"/>
RS-422	<input type="checkbox"/>	<input type="checkbox"/>
HDMI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RS-422	<input type="checkbox"/>	<input type="checkbox"/>

7. Check to subscribe HDMI TX to RX connection route.

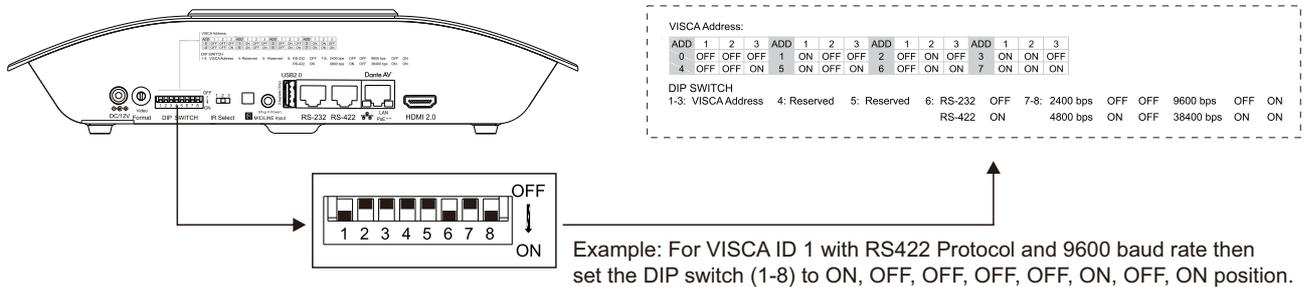
8. Subscribe Audio TX (Left/Right) to Audio RX (Left/Right), you can subscribe to the left channel or the right channel, or you can subscribe both

7. Camera Remote Control Setup

① Connection Diagram



② Camera VISCA Address, Communication Protocol, and Baud Rate Settings



Note: The camera should be powered off prior to changing the DIP switch setting. When there are multiple DanteAV cameras involved, refer to the table above for unique VISCA address to each camera. Up to seven unique address can be assigned to cameras at any given time.

③ Subscribe RS-422 Channel on Dante Controller

Note: Rs422 channel needs to be subscribed in the Dante controller for remote control. Please refer to the keyboard controller's product manual for detail. You can also use the infrared remote control to remotely control the camera through the DanteAV decoder. For detailed IR remote operation instruction, please refer to camera product manual.

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