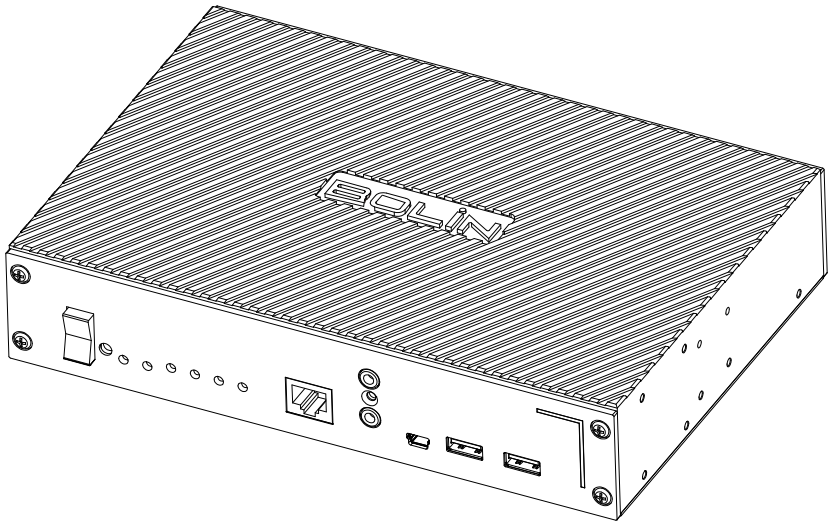
BOLIN TECHNOLOGY

Dante AV™ | Encoder / Decoder



Quick Start Guide

Version 2.0

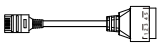
This quick start guide applies to D20H, D20S

Items included in the encoder / decoder box

D20H/D20S
Dante AV Encoder/Decoder

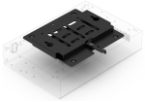
VCC-P12-4
Power Adaptor x 1

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

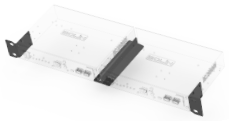
HDMI Cable Mount x 1

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

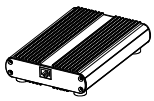
Optional Accessories

B-DR10
DIN Rail Mounting Kit-
For Encoder / Decoder

B-RM10
Single Rack Mounting Kit-
For Encoder / Decoder



B-RM11
Dual Rack Mounting Kit-
For Encoder / Decoder



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

Dante AV Video Output Setup

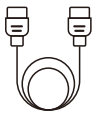
1. Item List

Dante AV Encoder x1
Dante AV Decoder x1

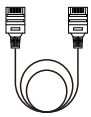
POE++ 1Gbps Network Switch
(Not included)

Computer
Dante Controller x 1
(Not included)

Display Output Device x 1
(Supports 4K60)
(Not included)



HDMI 2.0 Cable x1
(Not Included)



Cat6 Network Cable x3
(Not Included)

2. Install Dante Controller Software

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

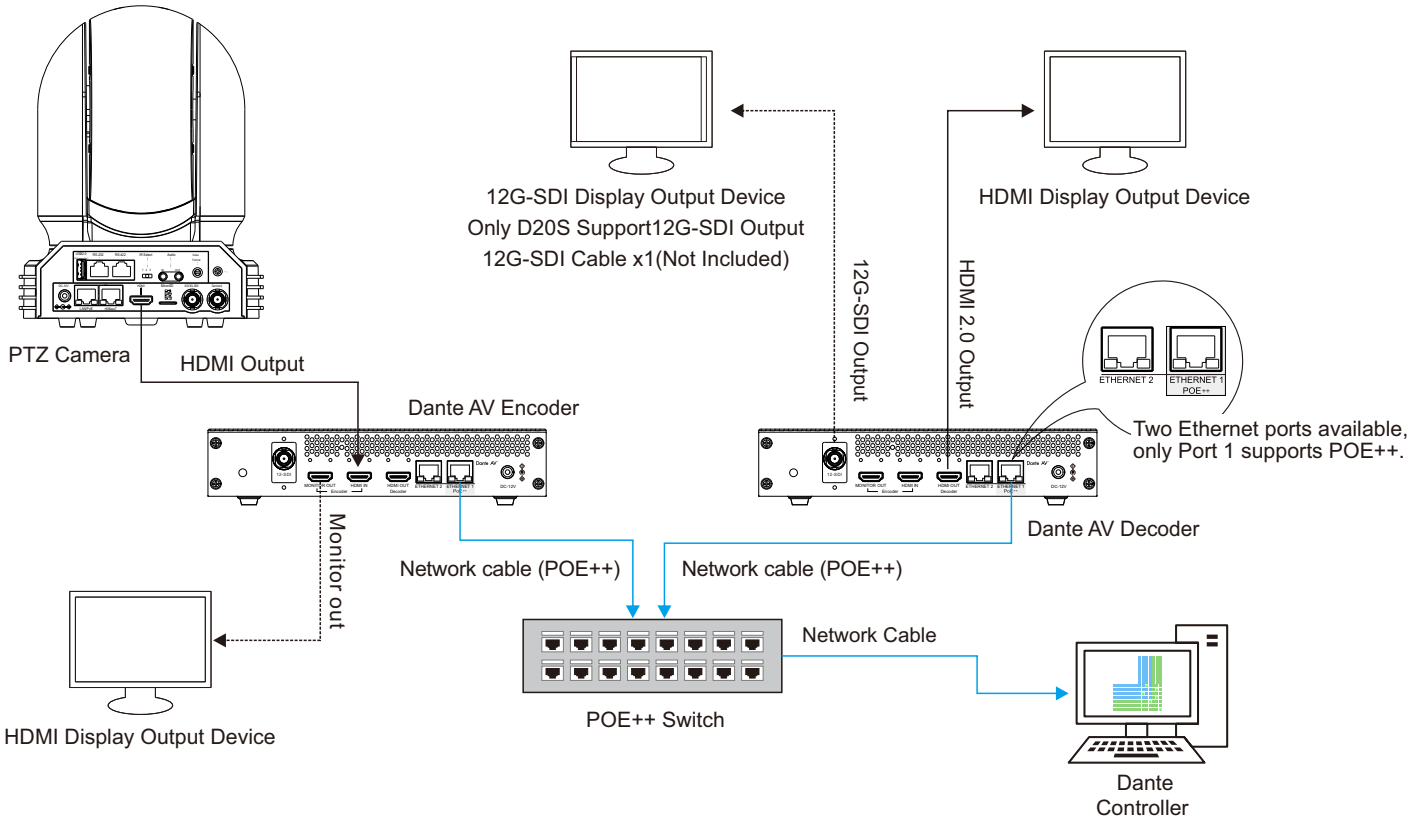
Dante Controller Hardware Requirements:

- 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:

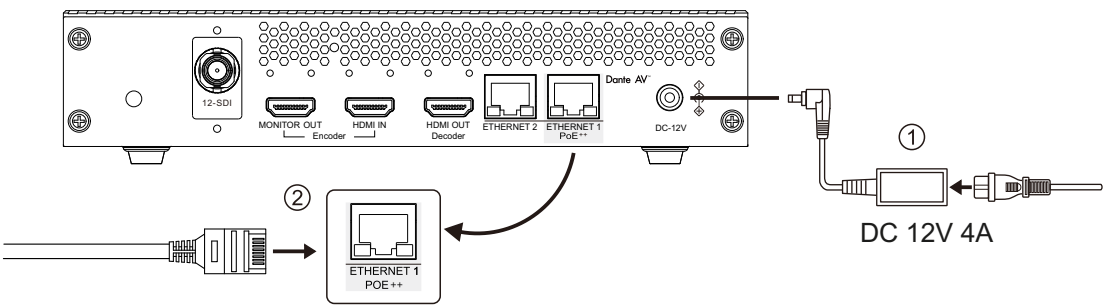
- Nonblocking Layer 2
- Green Ethernet must be OFF (Recommend not using Green Ethernet capable switches)
- Use reputable "Managed" switches
- Support QoS with strict priority and 4 queues
- IGMP Snooping ON
- Please refer to product manual at www.bolintechnology.com for IP configuration instructions

4. Power on the Decoder

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

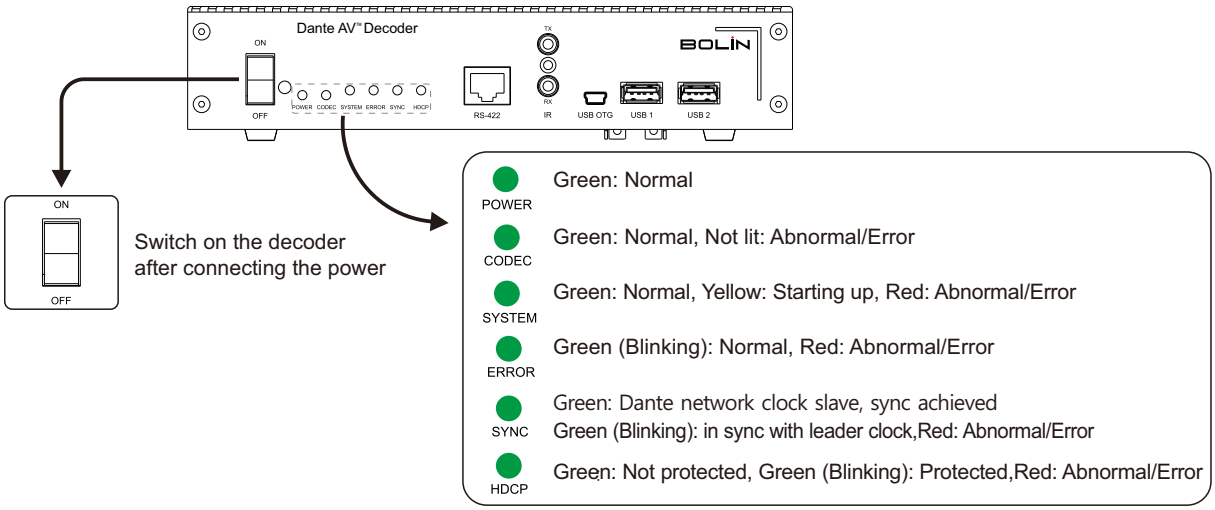
①. Power Adaptor (DC 12V 4A) to power the decoder.

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



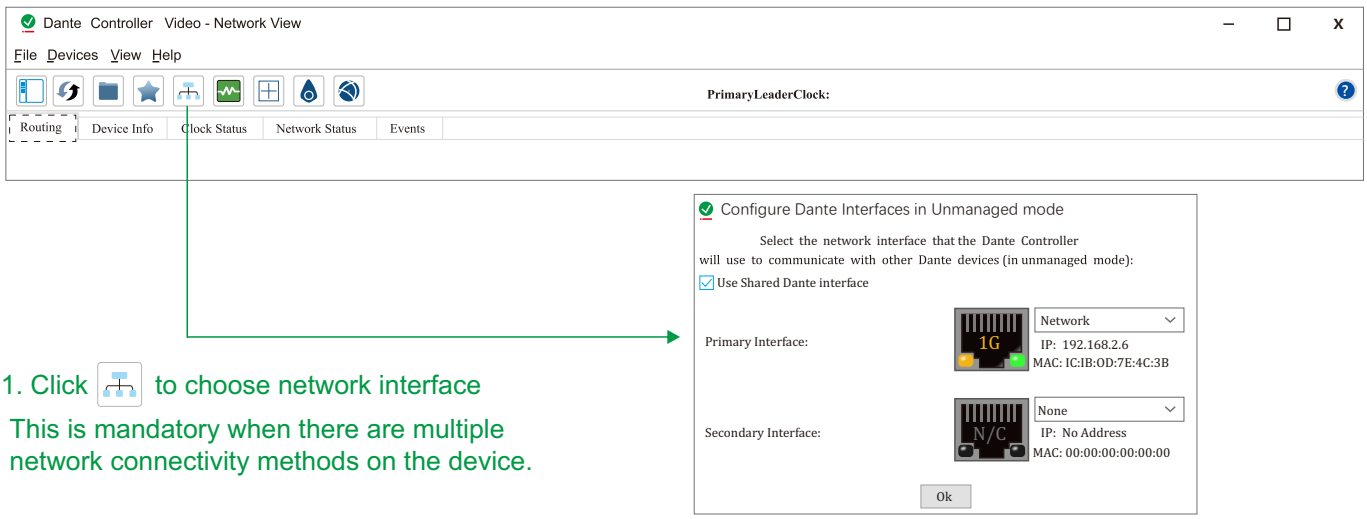
Note: For Dante AV camera startup tips, please refer to its respective diagram.

5. Dante AV Decoder Startup



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

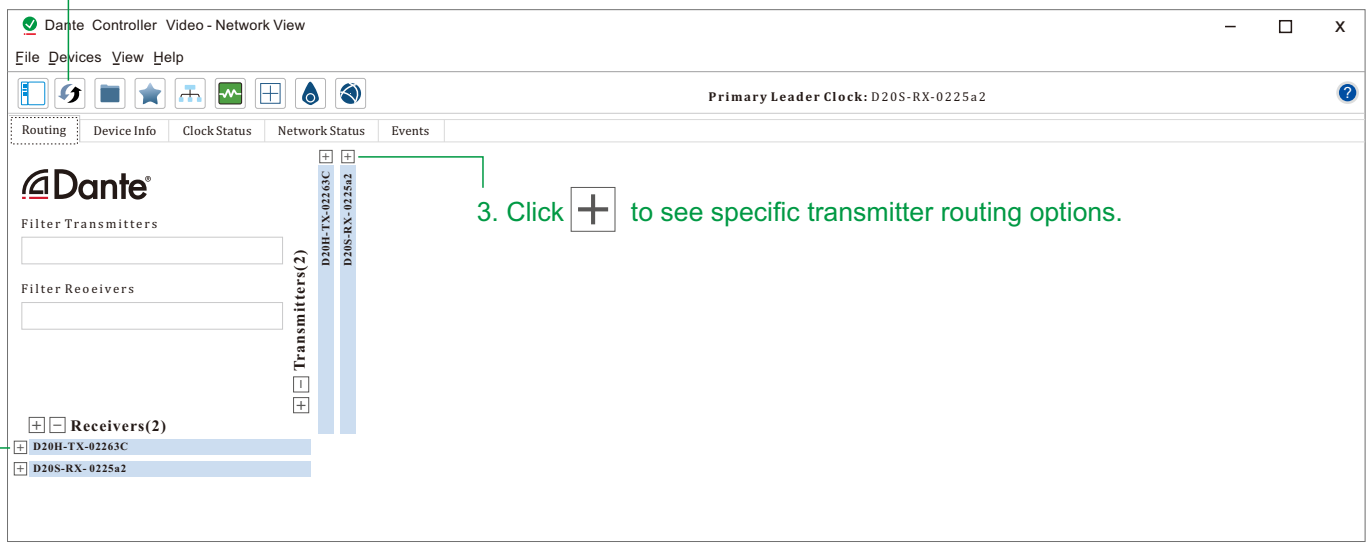
6. Display Camera Video via Decoder



1. Click to choose network interface

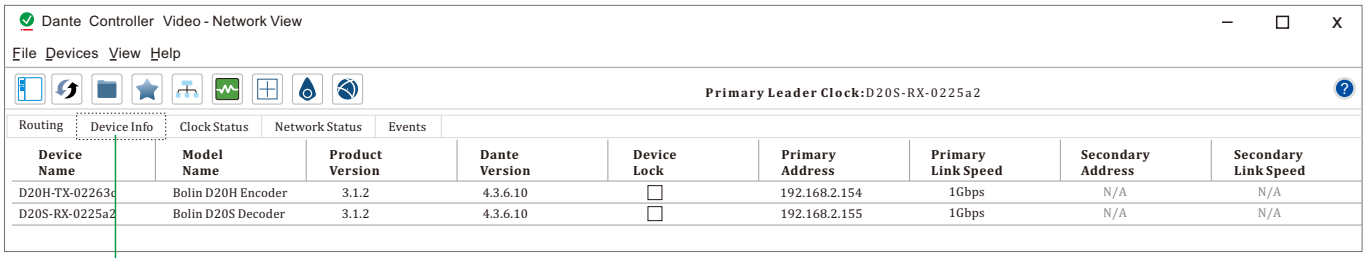
This is mandatory when there are multiple network connectivity methods on the device.

2. Click to see all connected Dante devices.

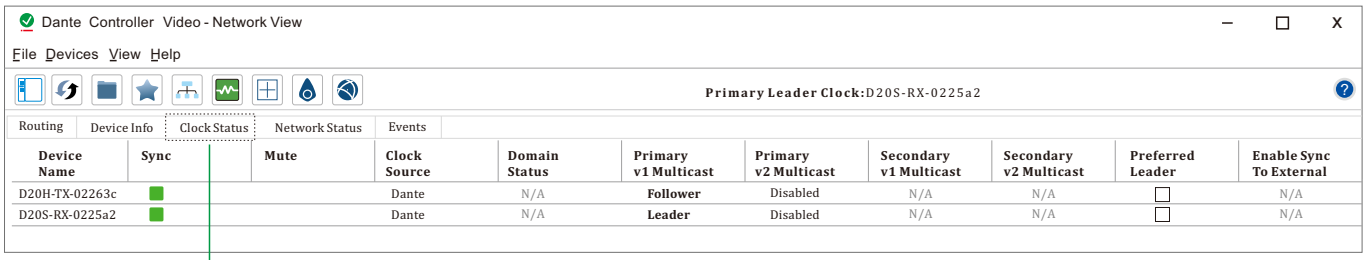


3. Click to see specific transmitter routing options.

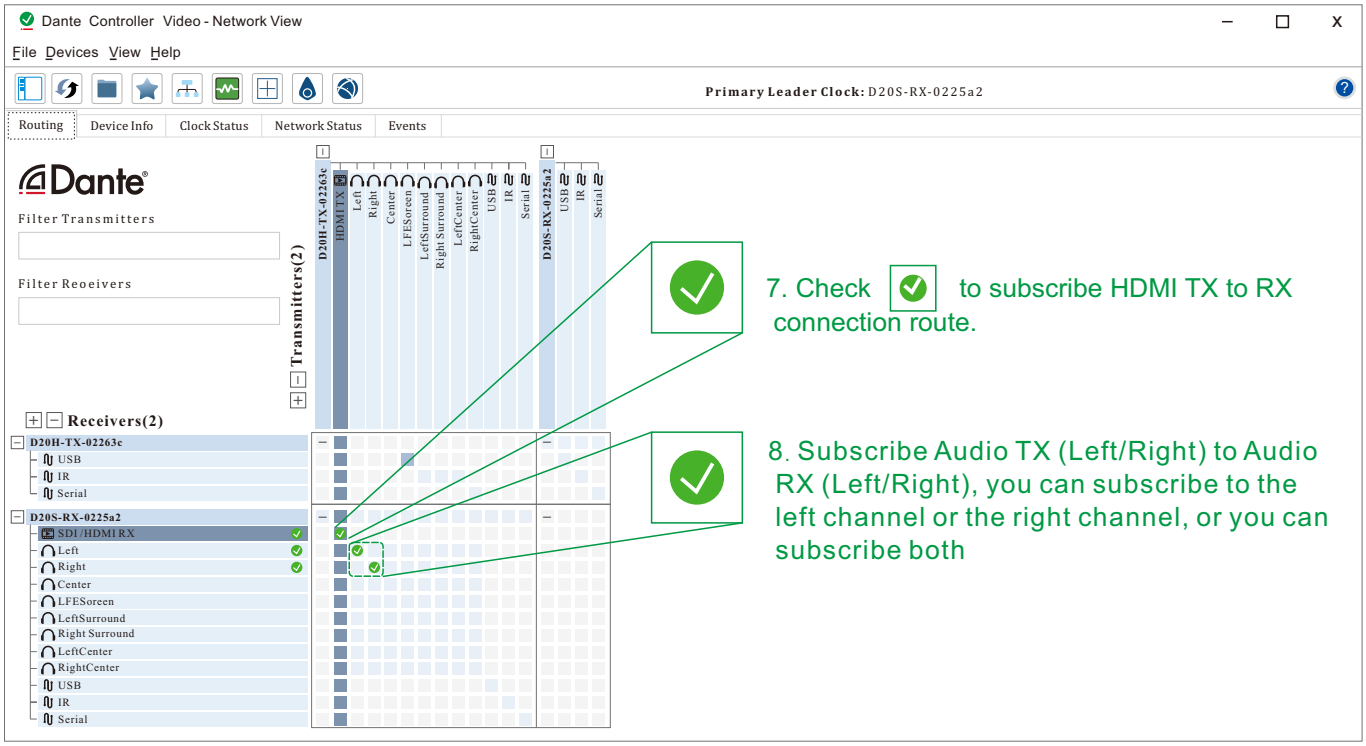
4. Click to see specific receiver routing options.



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



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

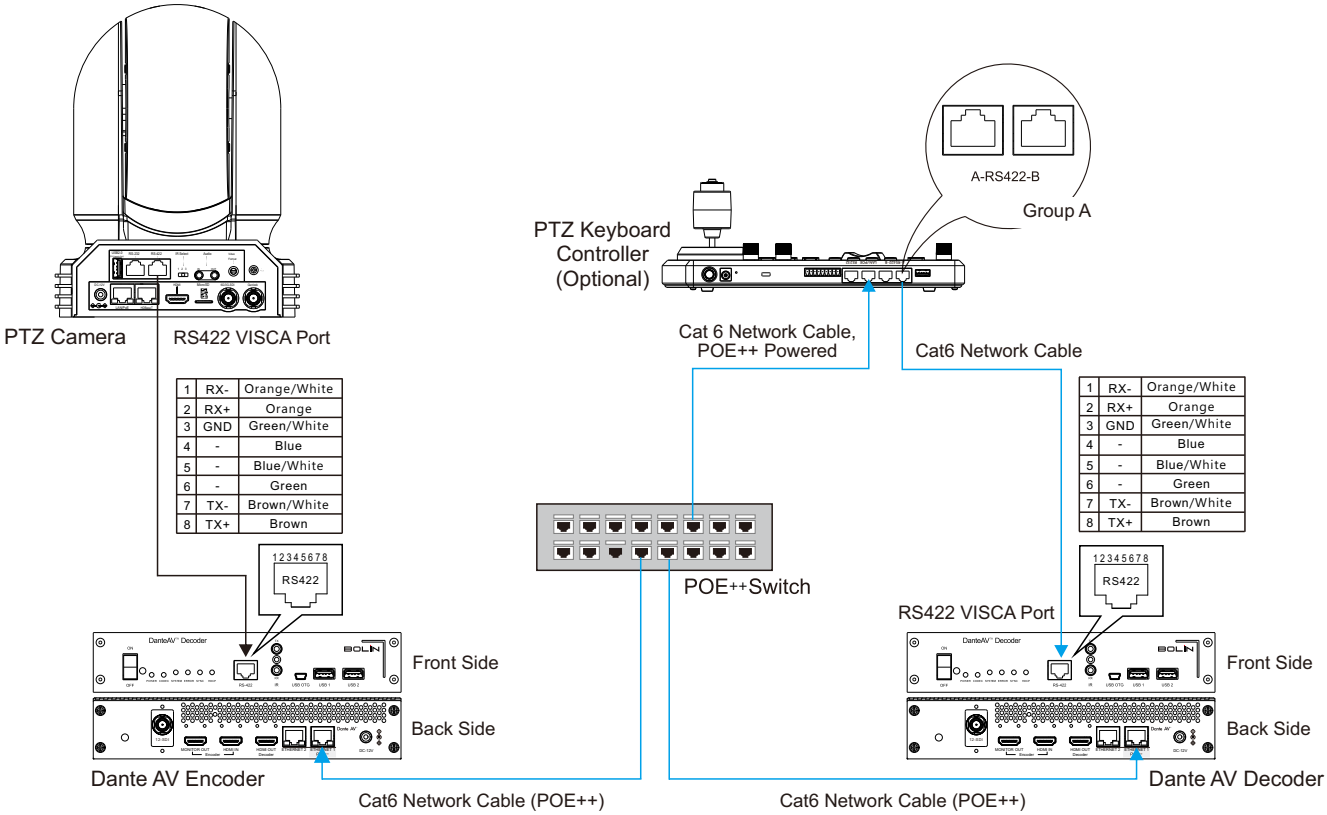


7. Check to subscribe HDMI TX to RX connection route.

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

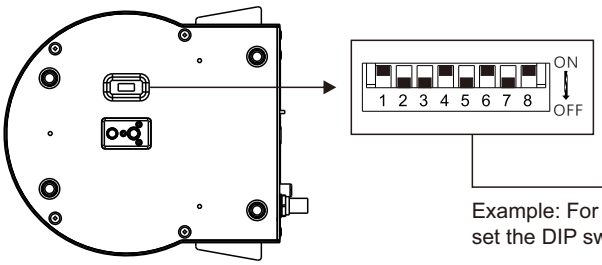
① Connection Diagram



1	RX-	Orange/White
2	RX+	Orange
3	GND	Green/White
4	-	Blue
5	-	Blue/White
6	-	Green
7	TX-	Brown/White
8	TX+	Brown

1	RX-	Orange/White
2	RX+	Orange
3	GND	Green/White
4	-	Blue
5	-	Blue/White
6	-	Green
7	TX-	Brown/White
8	TX+	Brown

② Camera VISCA Address, Communication Protocol, and Baud Rate Settings（Take BC-7 as an example）



VISCA Address:

ADD	1	2	3	ADD	1	2	3	ADD	1	2	3	ADD	1	2	3
0	OFF	OFF	OFF	1	ON	OFF	OFF	2	OFF	ON	OFF	3	ON	ON	OFF
4	OFF	OFF	ON	5	ON	OFF	ON	6	OFF	ON	ON	7	ON	ON	ON

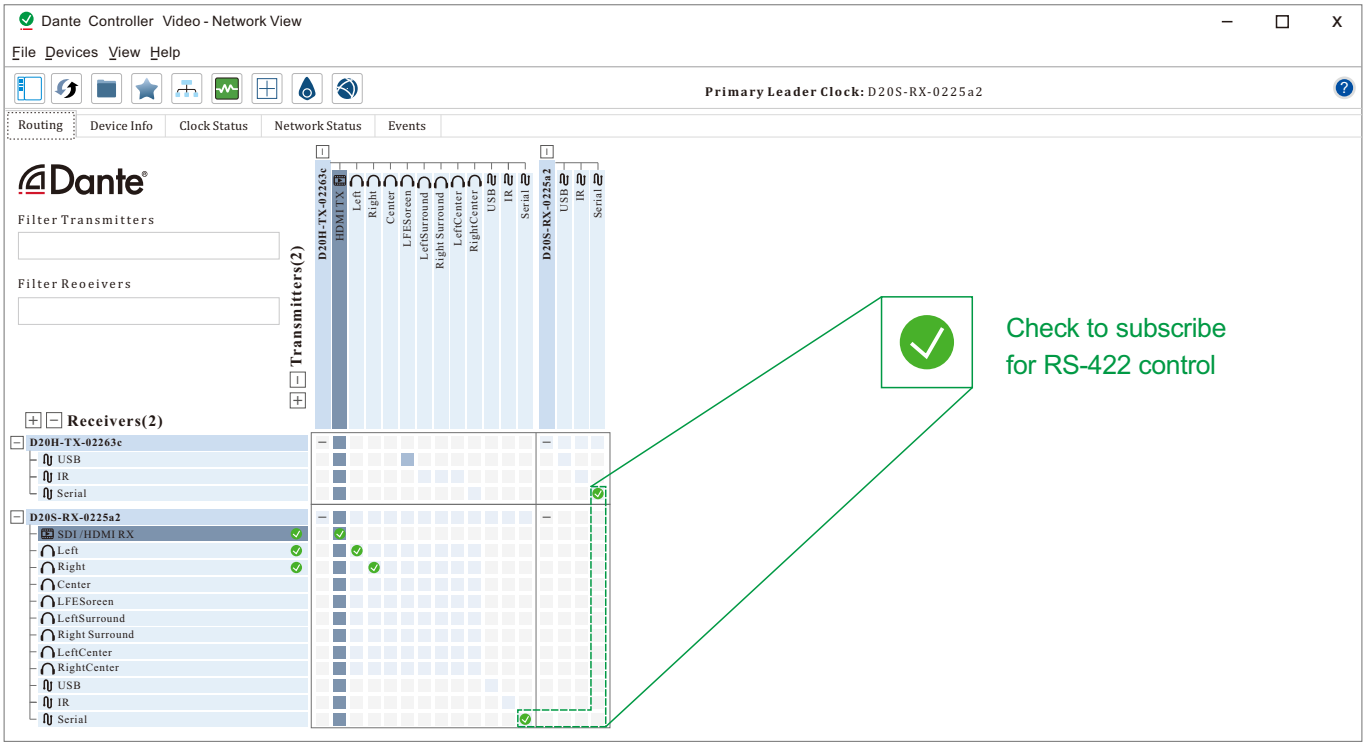
DIP SWITCH

1-3: VISCA Address	4.RGB ON YUV OFF		5: Reserved		6: RS-232	OFF	7-8:	2400 bps	OFF	OFF	9600 bps	OFF	ON
					RS-422	ON		4800 bps	ON	OFF	38400 bps	ON	ON

Example: For VISCA ID 1 with RS422 Protocol and 9600 baud rate then set the DIP switch (1-8) to ON, OFF, OFF, ON, OFF, ON, OFF, ON position.

Note: The camera should be powered off prior to changing the DIP switch setting. When there are multiple PTZ 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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