

Specifications:

Agency Listings:

- UL Listed for Commercial CCTV Equipment (UL 2044).
- cUL Listed - CSA Standard C22.2 No.1-04, Audio, Video and Similar Equipment.

Data:

- Data/PTZ RS422/RS485 output.

Video:

- 75 Ohm video input.

Visual Indicators:

- Power LED indicator.

Installation Instructions:

1. Plug the RJ45 connector at one end of the structured cable into the RJ45 jack marked [Channel 1] of the HubWay, HubWayLD, or HubSat Series (*Please refer to respective Installation Guides*). Plug the RJ45 connector at the opposite end of the structured cable into the RJ45 jack of the Video Balun/Combiner installed at camera 1.

- For 24VAC Cameras use Altronix model HubWayAv (*Figs. 1a, 1b, pg. 1*).
- For 12VDC Cameras use Altronix model HubWayDv/Dvi (*Figs. 1c, 1d, pg. 1*).

Repeat this step for cameras 2-8.

Note: When an installation exceeds the maximum distance for power transmission, a local external power source is required. Optionally, an Altronix HubSat4D Passive UTP Transceiver Hub with Integral Power may be utilized (*Fig. 2, pgs. 2-3*). The combined total cable distance between the HubWay or HubWayLD Series and each camera routed through the HubSat4D must not exceed 3000 ft.

2. Measure the output voltage at each Video Balun/Combiner before connecting camera power (*Figs. 1a-1d, pg. 1*). This helps avoiding potential damage.
 - HubWayAv - Terminals marked [AC POWER] (*Figs. 1a, 1b, pg. 1*).
 - HubWayDv/Dvi - Terminals marked [- 12VDC +] (*Figs. 1c, 1d, pg. 1*).
3. Connect the power outputs of the HubWayAv or HubWayDv Video Balun/Combiners to the power input terminals of the cameras (*Figs. 1a-1d, pg. 1*).
4. Connect the terminals marked [+ DATA -] of the HubWayAv or HubWayDv Video Balun/Combiners to the data terminals of the cameras for PTZ control (*Figs. 1a-1d, pg. 1*). Polarity must be observed. When using fixed cameras disregard this step (*Figs. 2, pgs. 2-3*).
5. Connect the BNC connector of the HubWayAv, HubWayDv or HubWayDvi Video Balun/Combiners to the BNC video outputs of the cameras (*Figs. 1a-1d, pg. 1*).



HubWayAv, HubWayDv, HubWayDvi

Video Balun/Combiners



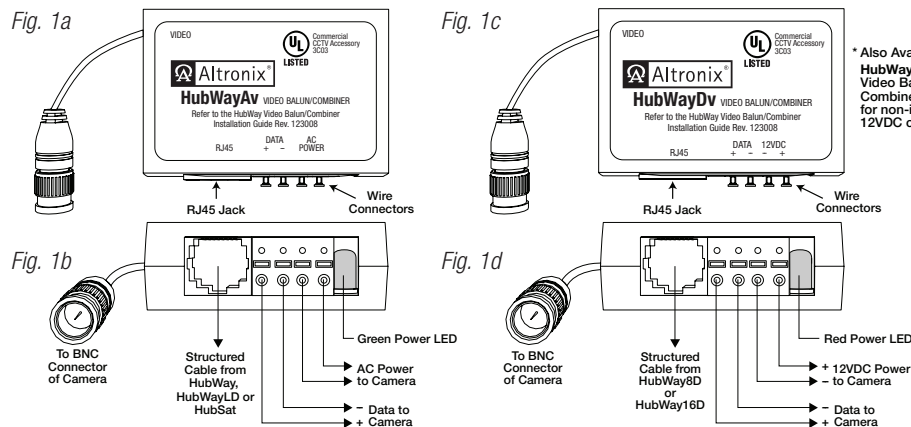
Installation Guide

Overview:

HubWayAv, HubWayDv and HubWayDvi Video Balun/Combiners are UL/cUL Listed accessories that interface with HubWay and HubSat UTP Transceiver Hubs to transmit video, data, and power to fixed or PTZ indoor or outdoor cameras.

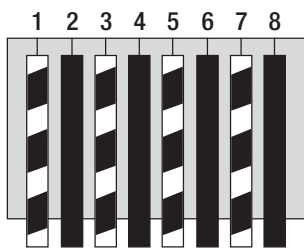
Note: Refer to HubWay series Rev. 032108, HubWayLD series Rev. 030408 or HubSat series Rev. 112408 Installation Guides.

Fig. 1



* Also Available as:
HubWayDvi Video Balun/Combiner for non-isolated 12VDC cameras

Fig. 3 - CAT-5 Structured Cable Wiring Color Codes



- 1 - White/Orange [VIDEO +]
- 2 - Orange [VIDEO -]
- 3 - White/Green [DATA +]
- 4 - Blue [AC 1]
- 5 - White/Blue [AC 2]
- 6 - Green [DATA -]
- 7 - White/Brown [AC 2]
- 8 - Brown [AC 1]

HubWayAv passes AC voltage from pins 4, 5, 7, 8 to terminals marked [AC Power] (*Fig. 1, pg. 1*).

HubWayDv/Dvi converts AC voltage to DC voltage from pins 4, 5, 7, 8 to terminals marked [- 12VDC +] (*Fig. 1, pg. 1*).

Video Balun/Combiner Reference Chart:

Altronix Model Number	Input Voltage from HubWay unit	Output Voltage to camera	Output Ratings (max.)	Camera Type	Power LED
HubWayAv	*24VAC/28VAC	*24VAC/28VAC	1A	24VAC cameras	Green
HubWayDv	*24VAC/28VAC	12VDC	1A	12VDC cameras	Red
HubWayDvi	*24VAC/28VAC	12VDC electronically isolated	0.5A	12VDC cameras without isolation	Red

*Based on camera load and structured cable length.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture. This installation should be made by qualified service personnel and should conform to all local codes.

Altronix is not responsible for any typographical errors.

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 III-HubWay Video Balun/Combiners Rev. 123008 K19U



HubWayAv/Dv/Dvi

Fig. 2

Typical Application Drawings:

