

Video • Data



Passive UTP Transceiver Hub

Installation Guide

Models Include:

HubWayH16

- Sixteen (16) Camera Channels

Overview:

Altronix HubWayH16 Passive UTP Transceiver Hub transmits UTP video, RS422/RS485 data over a single CAT-5 or higher structured cable. Unit provides 16 camera channels in a space saving 1U EIA 19" rack mount chassis. Video transmission range is up to 750 ft. max. per channel. Units are compatible with fixed cameras or PTZs.

Specifications:

Video:

- Sixteen (16) channels of video over twisted pair up to a distance of 750 ft. per channel.
- Sixteen (16) 75 ohm video outputs.

Data:

- RS422/RS485 data inputs.

Features:

- 1U rack mount chassis for use in standard EIA 19" rack.

Accessories:

- **HubWayAv2** - Interfaces with all HubWay and HubSat UTP Transceiver Hubs for 24VAC/12VDC fixed cameras or PTZs (based on power supply rating).
- **HubWayAvP** - Interfaces with HubWayH16 Passive UTP Transceiver Hub for 24VAC/12VDC fixed cameras (based on power supply rating).

Installation Instructions:

1. Secure the unit in a rack (*Fig. 5, pg. 6*) (unit should be spaced at least 3" from any video monitors).
2. Connect the BNC video outputs for HubWayH16 Channels 1-16 to the corresponding video inputs on the head end equipment (DVR) (*Fig. 1d, pg. 3*).
3. Connect external power source (AC or DC power supply) to the individual channel terminals marked [Power] (*Fig. 1b, pg. 3*).

Connecting Fixed Cameras (*Fig. 3a, pg. 5*):

1. Set switch of the corresponding channel on the rear of HubWayH16 to [PWR] (*Fig. 1e, pg. 3*).
Warning: To avoid equipment damage do not connect PTZs to channels selected for POWER (PWR) only.
2. Connect HubWayAvP Video Balun/Combiner at camera to the HubWayH16 unit utilizing CAT-5 or higher structured cable. Plug the RJ45 connector at one end of the structured cable into the RJ45 jack marked [Channel 1-16] of the HubWayH16 (*Fig. 1c, pg. 3*). Plug the RJ45 connector at the opposite end of the structured cable into the RJ45 jack of the Video Balun/Combiner located at the camera (*Fig. 2a, pg. 4*).
Note: Repeat steps 1-2 for each additional fixed camera (Channels 2-16).

Connecting PTZ Cameras (*Fig. 3b, pg. 5*):

1. Connect the RS422/RS485 output of the head end equipment (DVR) to the individual terminals marked [+ DATA -] of the HubWayH16 unit (polarity must be observed) (*Fig. 1a, pg. 3*).
Note: The Data input terminals of the HubWayH16 must be wired in parallel for proper operation.
2. Set switch of the corresponding channel on the rear of HubWayH16 to [PWR/DATA] (*Fig. 1e, pg. 3*).
3. Connect HubWayAv2 Video Balun/Combiner at camera to the HubWayH16 unit utilizing CAT-5 or higher structured cable. Plug the RJ45 connector at one end of the structured cable into the RJ45 jack marked [Channel 1-16] of the HubWayH16 (*Fig. 1c, pg. 3*). Plug the RJ45 connector at the opposite end of the structured cable into the RJ45 jack of the Video Balun/Combiner located at the camera (*Fig. 2b, pg. 4*).
Note: Repeat steps 1-3 for each additional PTZ camera (Channels 2-16).

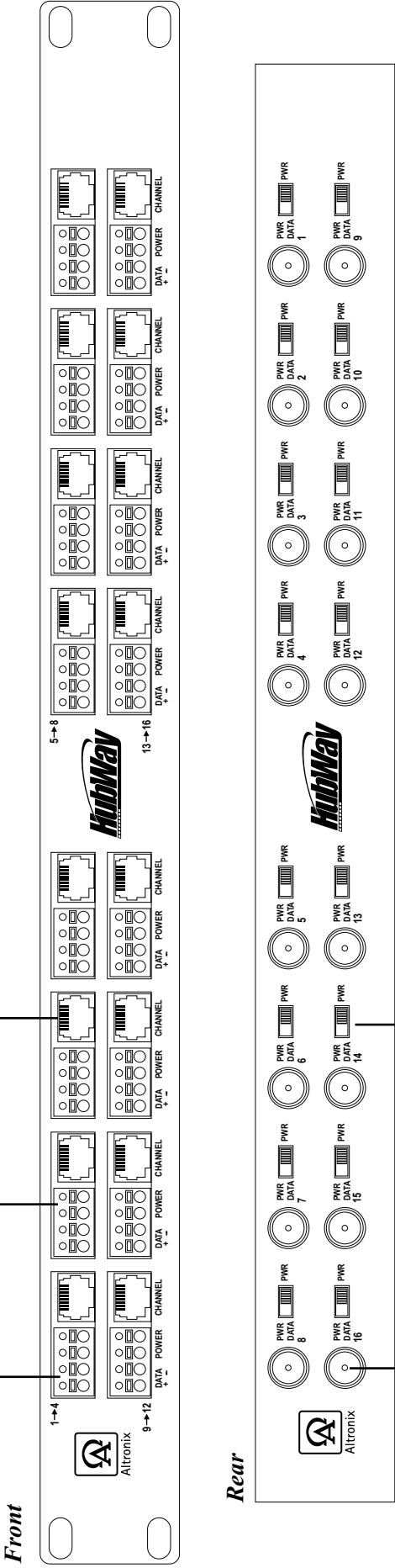
WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture. This installation should be made by qualified service personnel and should conform to all local codes.

Fig. 1

1a - Data Input: RS422/RS485 input from head end equipment (DVR) for PTZ control.

1b - Individual Power Input: External AC or DC power input.

1c - Channels 1-16: CAT-5 or higher structured cable to Video/Balun Combiners at cameras 1-16.



1e - Individual Power & Data or Power Switches: Video outputs to head end equipment (DVR).

1d - BNC Connector: Video outputs to head end equipment (DVR).

Video Balun/Combiners:

Fig. 2

Fig. 2a

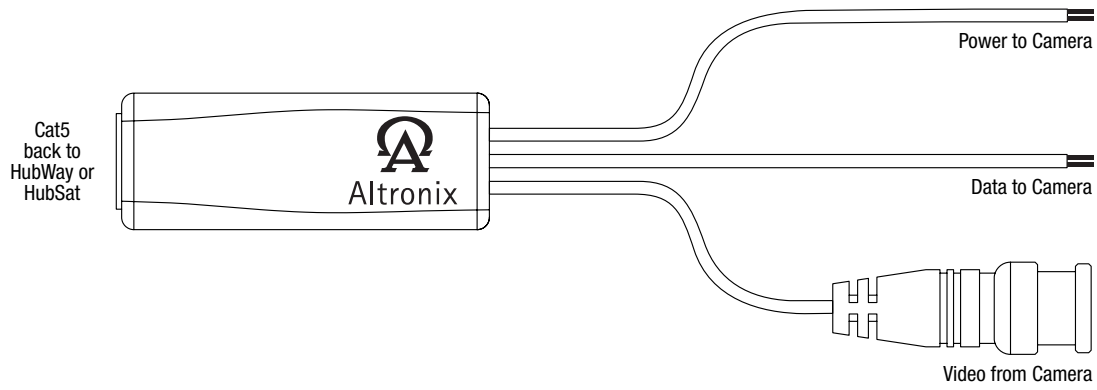


Fig. 2b

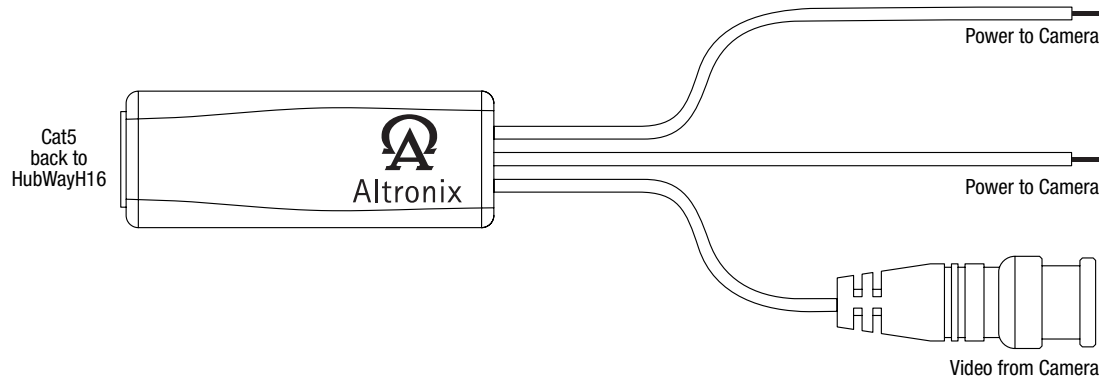
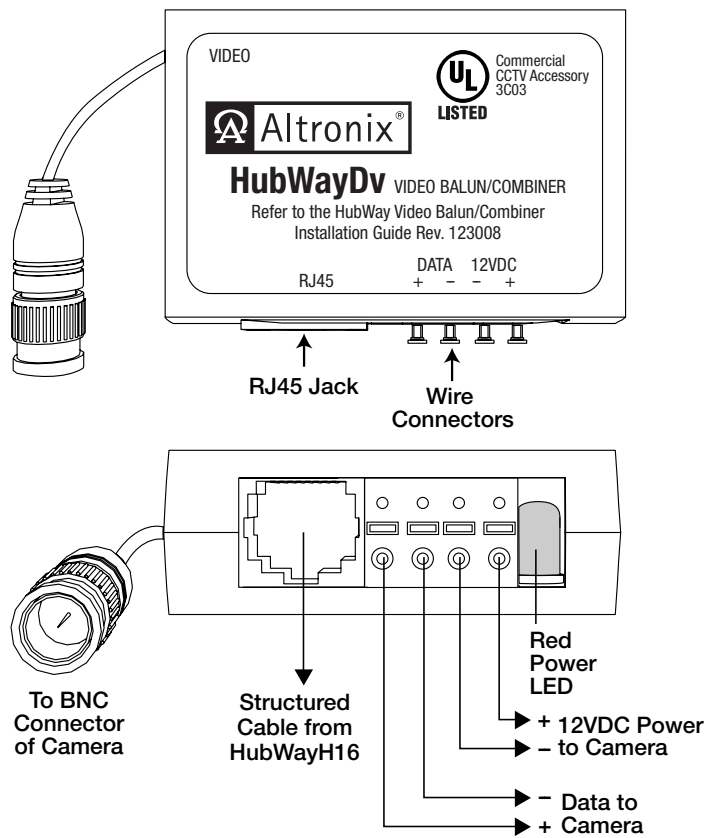


Fig. 2c



Typical Application:

Fig. 3

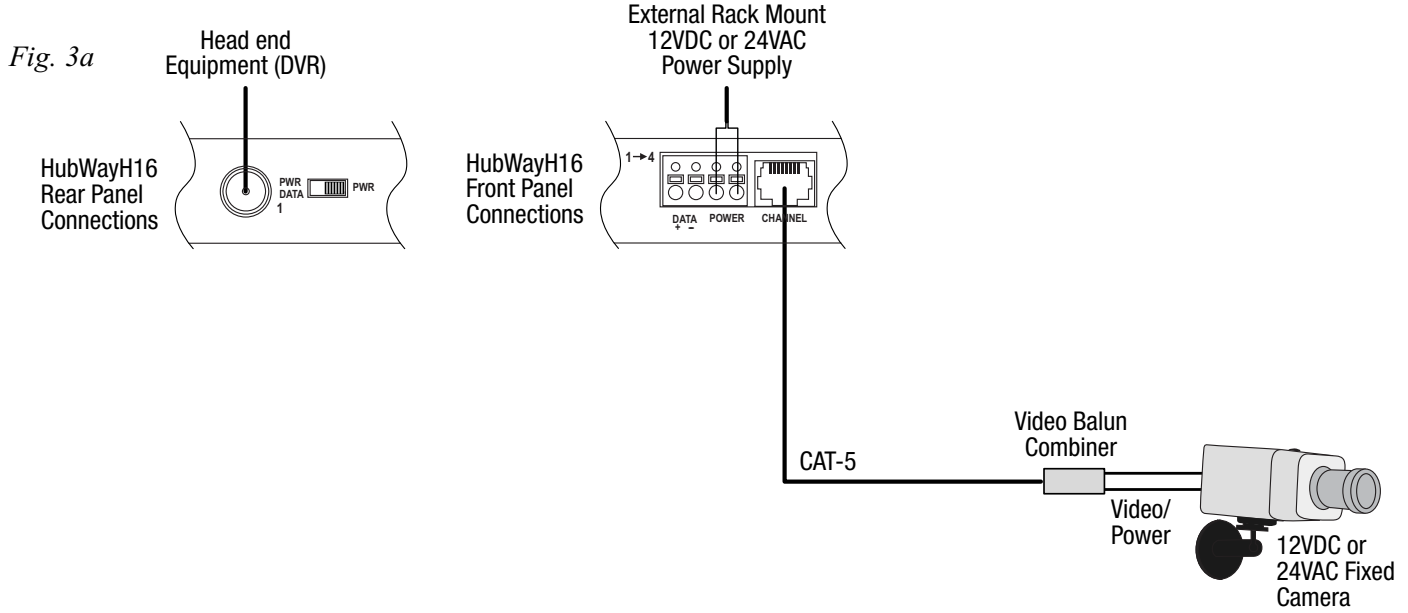
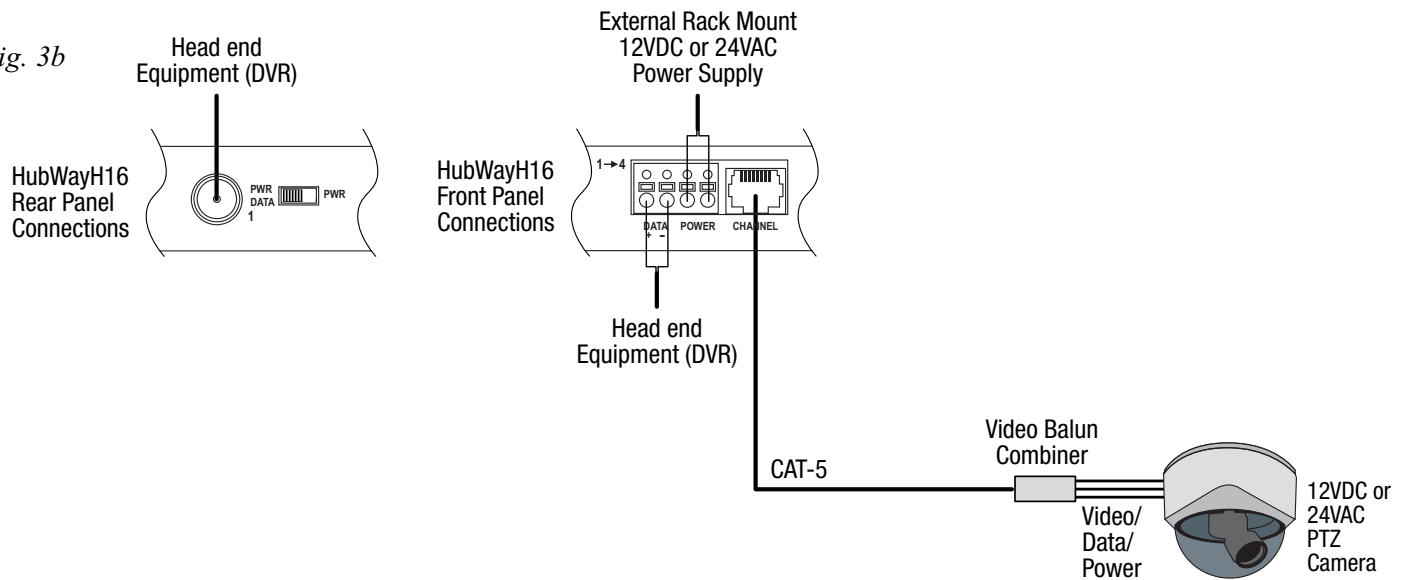
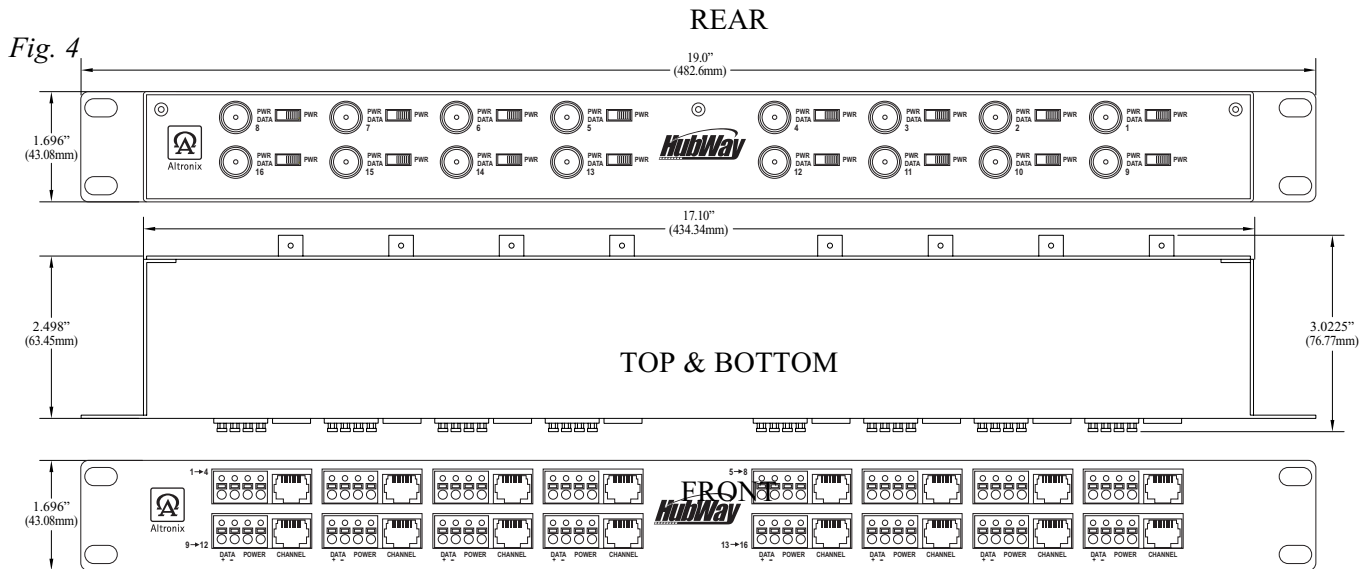


Fig. 3b



Rack Mount Chassis Mechanical Drawing & Dimensions (H x W x D approximate):

1.625" x 19.125" x 2.498" (41.3mm x 486mm x 63.5mm)



The lightning flash with arrow head symbol within an equilateral triangle is intended to alert the user to the presence of an insulated **DANGEROUS VOLTAGE** within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

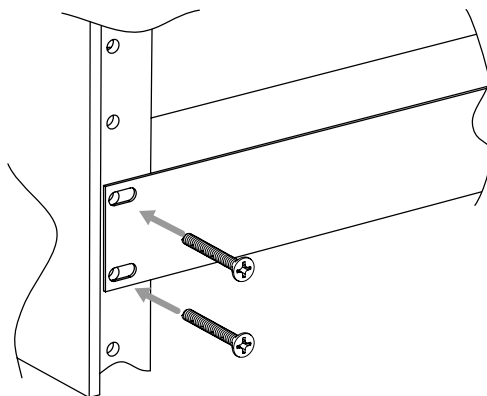


CAUTION: To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

Rack Mount Installation:

1- Place unit into desired EIA 19" rack position and secure with mounting screws (*not included*) (Fig. 5).

Fig. 5



Notes:

Notes:

Altronix is not responsible for any typographical errors.

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IIHubWayH16

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HubWayH Passive Hub Unit