



Video • Data

HubWayLDH Series

Active UTP Transceiver Hub

Models Include:

HubWayLDH8

- UL Listed Eight (8) Camera Channel Active UTP Transceiver Hub

HubWayLDH16

- UL Listed Sixteen (16) Camera Channel Active UTP Transceiver Hub

Installation Guide



Rev. 032108

More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix HubWayLDH8/16 Active UTP Transceiver Hub transmits UTP video and RS422/RS485 data over a single CAT-5 or higher structured cable. Unit provides 8 or 16 camera channels in a space saving 1U EIA 19" rack mount chassis which may be rack, wall or shelf mounted. Video transmission range is up to 3000 ft. max. per channel. Units are compatible with fixed or PTZ cameras. An optional HubSat4D Passive UTP Transceiver Hub with Integral Camera Power can be used as an accessory module to transmit video from up to 4 cameras over a single CAT-5 or higher structured cable back to the HubWayLDH8/LDH16. In addition, the HubSat4D provides power to these cameras locally to eliminate the possibility of voltage drop associated with long cable runs.

HubWayLDH Specifications:

HubWayLDH8

Input:

- 115VAC 60Hz, 1.5A or 230VAC 50/60Hz, 1A.

Video:

- Eight (8) channels of video over twisted pair up to a distance of 3,000 ft. per channel.
- Eight (8) 75 ohm video outputs.

HubWayLDH16

Input:

- 115VAC 60Hz, 3A or 230VAC 50/60Hz, 1.5A.

Video:

- Sixteen (16) channels of video over twisted pair up to a distance of 3,000 ft. per channel.
- Sixteen (16) 75 ohm video outputs.

Common 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.
- CE European Conformity.

Data:

- RS422/RS485 data inputs.

Visual Indicators:

- AC input power indicator.
- Video signal LED indicators.

Features:

- Picture and Gain control.
- Illuminated master power disconnect circuit breaker with manual reset.
- IEC 320 - 3-wire grounded line cord (detachable).
- Unit can be rack, wall or shelf mounted.
- 1U rack mount chassis for use in standard EIA 19" rack.

Accessories:

- Optional HubSat4D allows transmission of up to four (4) video signals over a single CAT-5 or higher structured cable.

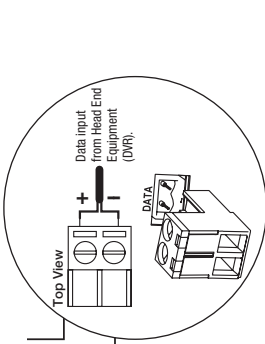
WARNING: To reduce the risk of fire or electric shock do not expose the unit to rain or moisture. This installation should be made by qualified service personnel and should conform to all local codes.

Installation Instructions:

1. Set the input voltage selector switch located on the left side of the HubWayLDH8/LDH16 unit (facing front panel) for 115VAC or 230VAC operation (*Fig. 1i, pg. 4*).
2. Attach mounting brackets to HubWayLDH unit for rack or wall mount installation (*Figs. 5-6, pg. 8*). Affix rubber pads to HubWayLDH for shelf installation (*Fig. 6, pg. 8*).
3. Secure the unit in a rack, mount unit to a wall or place unit on a shelf as desired (unit should be spaced at least 3" from any video monitors).
4. Set illuminated master power disconnect circuit breaker to the (OFF) position (*Fig. 4, pg. 7*).
5. Plug the grounded AC line cord (included) into the IEC 320 connector of the HubWayLDH8/HubWayLDH16 unit (*Fig. 1h, pg. 4*). Insert the plug end of the line cord into a grounded AC receptacle.
6. Connect the BNC video outputs for HubWayLDH8/LDH16 Channels 1 - 8 (Channels 1-16) to the corresponding video inputs on the head end equipment (DVR) (*Fig. 1d, pg. 4*).
7. Connect the RS422/RS485 output of the head end equipment (DVR) to the one (1) or both data input terminal blocks of the HubWayLDH8 or HubWayLDH16 unit (polarity must be observed) (*Fig. 1c, pg. 4*).
Note: The Data input terminals of the HubWayLDH8 or HubWayLDH16 must be wired in parallel for proper operation. When using fixed cameras disregard this step.
8. Connect Video Balun/Combiner at camera 1 to the HubWayLDH8 or HubWayLDH16 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] of the HubWayLDH8/LDH16 (*Fig. 1a, pg. 4*). Plug the RJ45 connector at the opposite end of the structured cable into the RJ45 jack of the Video Balun/Combiner located at camera 1. Repeat steps 6-9 for each additional camera (Channels 2-8 or Channels 2-16).
Note: An external power source is required to power the cameras (*Figs. 2-3, pgs. 5-6*). Optionally, an Altronix HubSat4D Passive UTP Transceiver Hub with Integral Camera Power may be utilized (*Fig. 2a, pg. 5*).
The combined total cable distance must not exceed 3000 ft. for video transmission between the HubWayLDH8/LDH16 and each camera routed through the HubSat4D.
9. Upon completion of the wiring set illuminated master power disconnect circuit breaker to the RESET (ON) position (*Fig. 4, pg. 7*).
10. The video signal indicator LEDs (Red) located on the rear of the HubWayLDH8/LDH16 will illuminate when video signal is present (*Fig. 1g, pg. 4*). If any of these LEDs are not illuminated, there is no video signal for that corresponding channel.
11. Optimize the picture quality for all camera channels by adjusting the corresponding potentiometers marked [Picture] (*Fig. 1e, pg. 4*).
12. Set gain for all camera channels by adjusting the corresponding potentiometers marked [Gain] (*Fig. 1f, pg. 4*).

Fig. 1

1c - Data:
Removable terminal blocks for RS422/RS485 input from head end equipment (DVR) for PTZ control.



1b - Channels 1-4, Channels 5-8, Channels 9-12 & Channels 13-16:
CAT-5 or higher structured cable from optional HubSat4D enables video transmission from up to four (4) cameras.

1a - Channels 1-8 (HubWayLD8) or Channels 1-16 (HubWayLD16):
CAT-5 or higher structured cable to Video/Balun Combiners at cameras 1-8 or 1-16. When using an optional HubSat4D any of the outputs can be utilized for the data transmission to PTZs.

Front



Rear



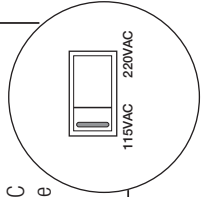
1d - BNC Connector:
Video outputs to head end equipment (DVR).

1e - Picture: Adjusts video quality.
1f - Gain: Regulates the output video and sync levels.

1g - LED(s) 1-16:
Video signal indicators.

1h - IEC 320 Connector:
115VAC 60Hz/230VAC
50/60Hz (grounded line cord included).

1i - Input Voltage Switch:
Selects 115VAC 60Hz/230VAC
50/60Hz (switch is located on the left side of the unit).



Typical Applications:

Fig. 2

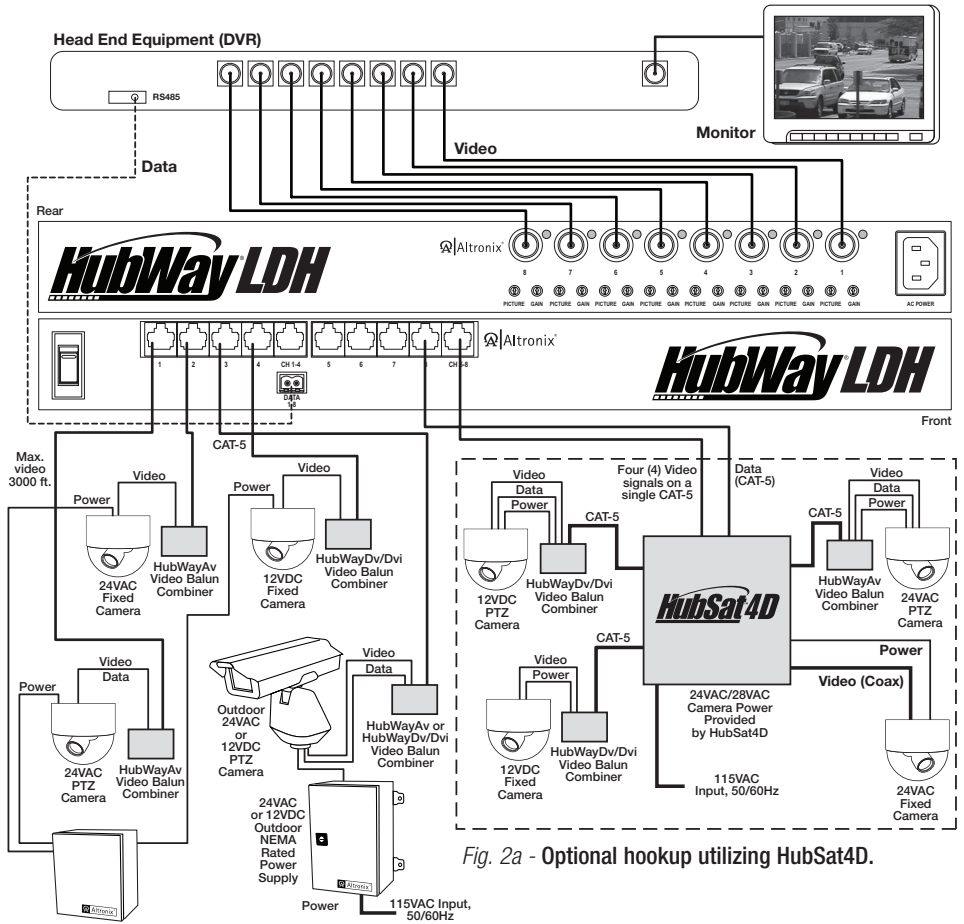
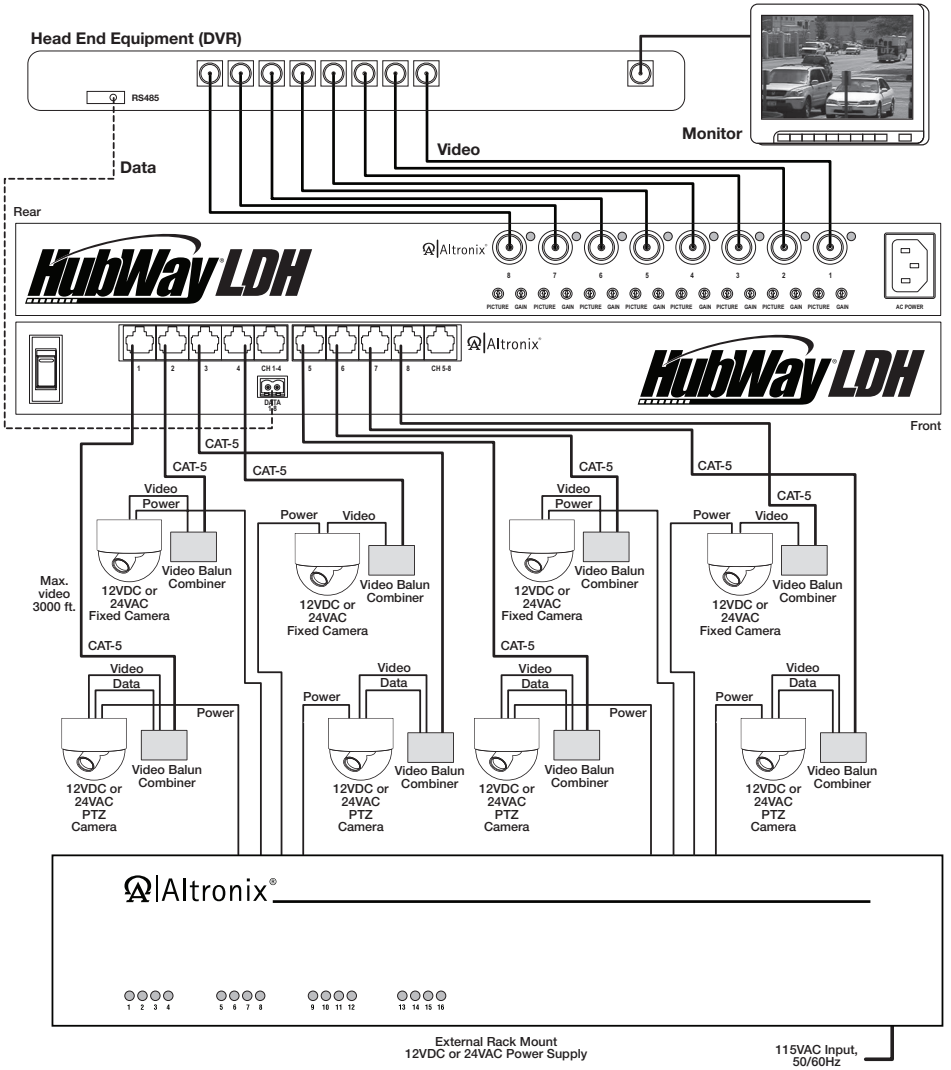


Fig. 2a - Optional hookup utilizing HubSat4D.

Typical Applications:

Fig. 3





The lightning flash with arrowhead 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.

1U EIA 19" Rack Mount Chassis Dimensions (H x W x D approximate):

1.625" x 19.125" x 8.5" (41.3mm x 486mm x 216mm)

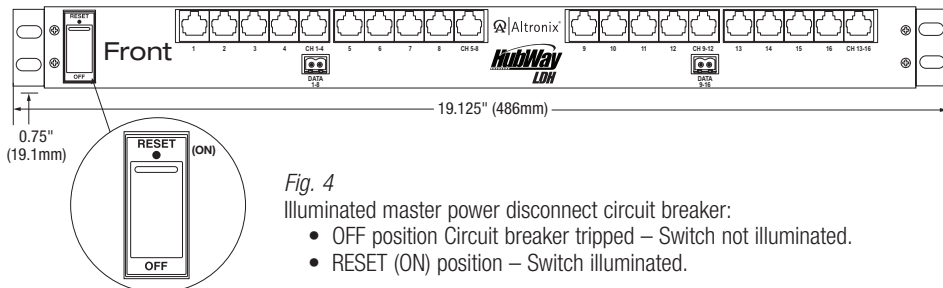
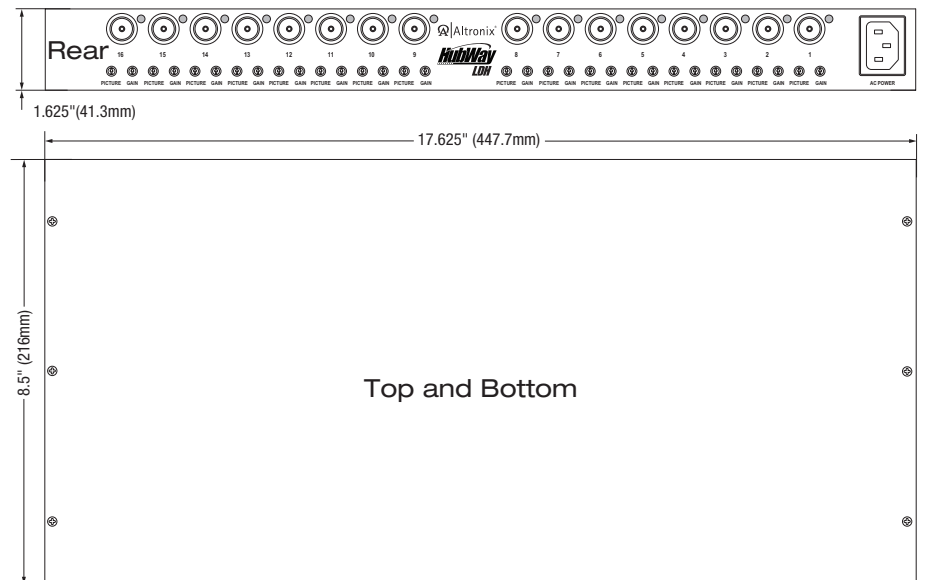


Fig. 4

Illuminated master power disconnect circuit breaker:

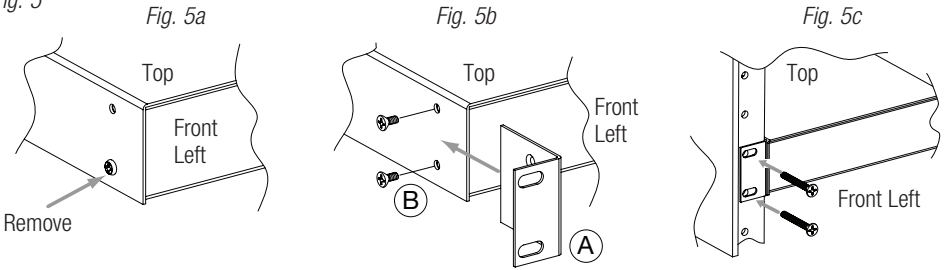
- OFF position Circuit breaker tripped – Switch not illuminated.
- RESET (ON) position – Switch illuminated.

Mounting Options:

Rack Mount Installation

1. Remove factory installed screws from both sides of the rack chassis (Fig. 5a).
2. Install mounting brackets (A) on the left and right side of rack chassis using the two (2) flat head screws (B) (included) (Fig. 5b).
3. Place unit into desired EIA 19" rack position and secure with mounting screws (not included) (Fig. 5c).

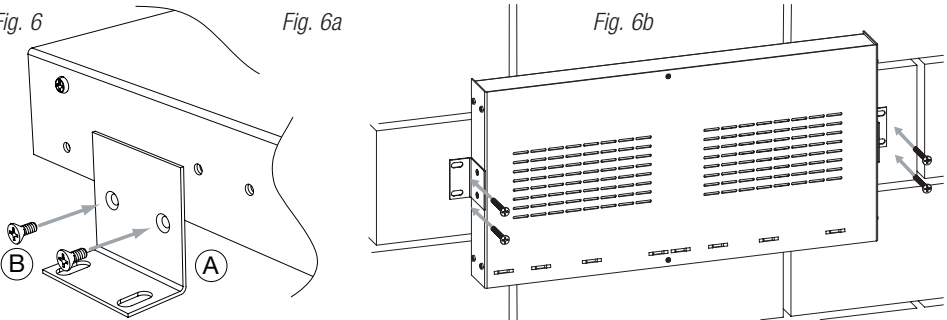
Fig. 5



Wall Mount Installation

1. Install mounting brackets (A) on the left and right side of rack chassis using two (2) flat head screws (B) (included) (Fig. 6a).
 2. Place unit at desired location and secure with mounting screws (not included) (Fig. 6b).
- Caution:** It is necessary to make sure mounting screws are securely fastened to a beam when installing.

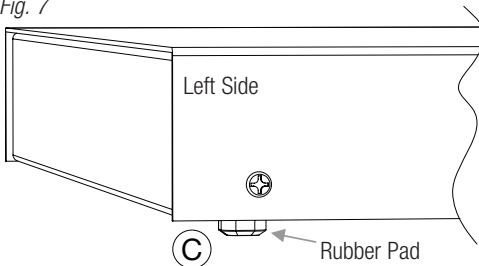
Fig. 6



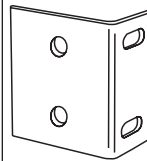
Shelf Installation

1. Position and affix rubber pads (C) (included) at each corner on the bottom of the unit (Fig. 7).
2. Place unit in desired location.

Fig. 7



Mounting Hardware (Included):



(A) Two (2) mounting brackets



(B) Six (6) flat head screws for mounting brackets.



(C) Four (4) rubber pads.

Altronix is not responsible for any typographical errors.

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