

1 Year Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for 1 year from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided.

Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

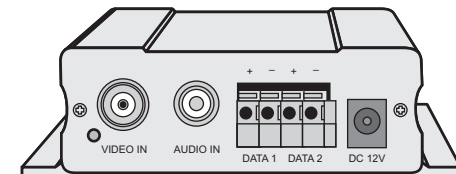
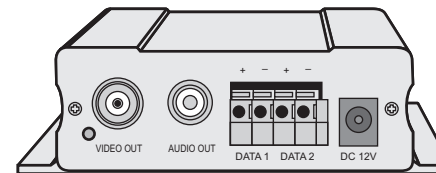
This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.

Channel Vision products are not intended for use in medical, lifesaving, life sustaining or critical environment applications. Channel Vision customers using or selling Channel Vision products for use in such applications do so at their own risk and agree to fully indemnify Channel Vision for any damages resulting from such improper use or sale.

Specifications:

Video In/Out:	BNC male connector; RJ-45
Video format:	RS170, NTSC, CCIR or SECAM
Surge Suppression:	6,000V
Operation freq. range:	0 to 6MHz
Common mode rejection:	60dB
Wire type:	4-pair, UTP Category 5, 5e or 6
Dimensions:	4.55" x 2.76" x 1.18" 103mm x 70mm x 30mm
Transmission distance:	Video Max. 7000 ft. Color; 9000 ft. B/W Audio Max. 6000 ft. PTZ Data Max. 9000 ft.

Specifications subject to change without notice.



B-321

Amplified Balun Kit: Video, Audio, & PTZ Control

Model B-321

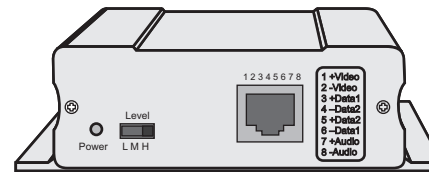
The **B-321** powered video/audio/data balun provides the necessary impedance transformation to transition from 75 ohm coax to twisted pair cabling. It is a great way to deliver video, audio, and data from a security camera at great distances when you only have a single CAT5 cable running to the camera location. The low cost, simplicity, and availability of CAT5 cable, makes the B-321 a convenient choice for both new construction and retro-fit applications.

Features:

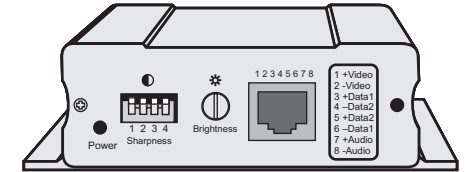
- Easy installation
- Sends video over 7,000 ft. of twisted pair (color) or 9000'(black & white)
- Sends PTZ data over 9000 ft. of twisted pair
- Sends line-level audio over 6000 ft. of twisted pair
- Compatible with Category 5, 5e, and 6 wiring
- Small size allows installation in crowded spaces

Pin-out Configuration For B-321T, B-321R

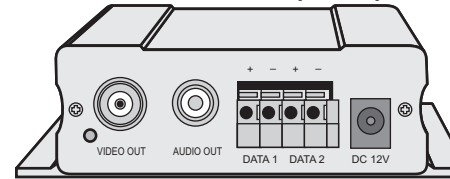
B-321T (Front)



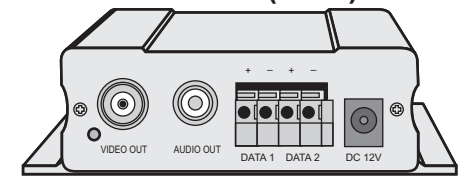
B-321R (Front)



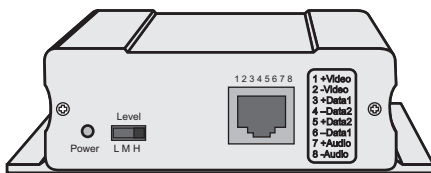
B-321T (Rear)



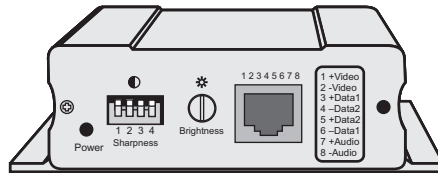
B-321R (Rear)



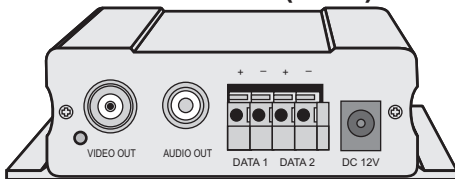
B-321T (Front)



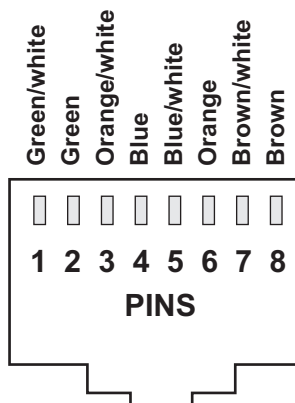
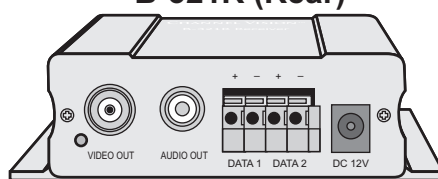
B-321R (Front)



B-321T (Rear)



B-321R (Rear)

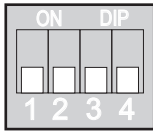


View into jack

TIA568A

Pins	Signal
1	Video +
2	Video -
3	Data 1 +
4	Data 2 -
5	Data 2 +
6	Data 1 -
7	Audio +
8	Audio -

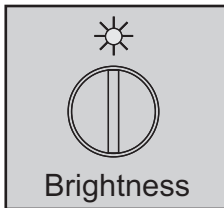
DIP Switch And Other Settings



Sharpness Settings...

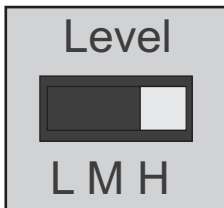
These switches will improve the video quality, depending on conditions such as distance or cable specifications. Each switch will adjust the sharpness.

Once brightness or level is adjusted, you will need to change the dip switches to maintain the highest quality image.



Brightness Settings:

This knob adjusts the brightness of the picture. This knob will need to be adjusted depending on factors such as cable length, cable type, etc.

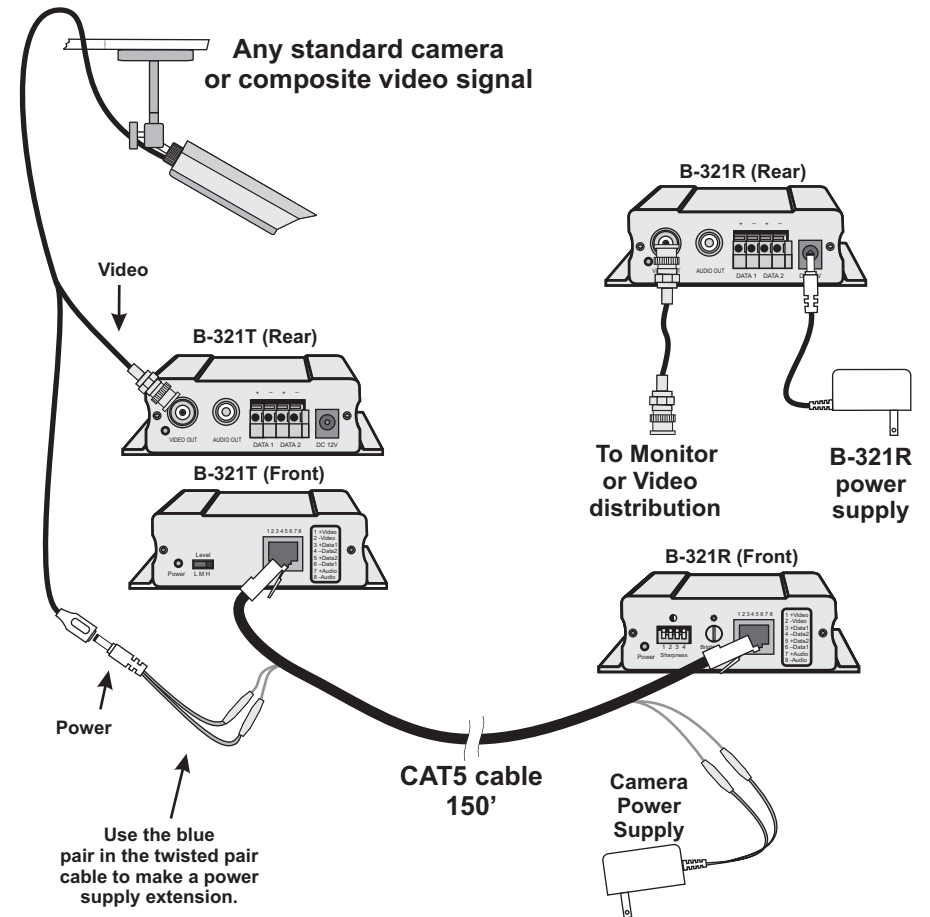


Video Level Settings:

This switch will adjust the video level. Results will vary, depending on factors such as cable length, cable type, etc.

L = Low
M = Medium
H = High

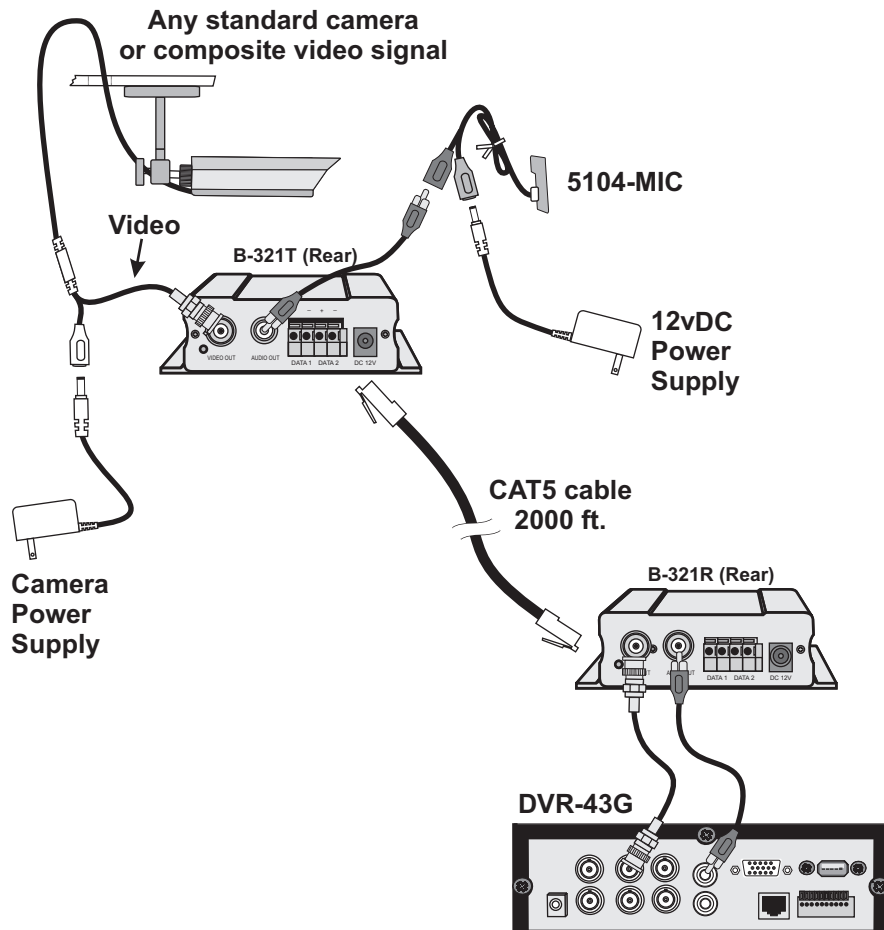
Installation Diagram For Short Distances



Installation Notes

- Connect video, audio, and PTZ/data cables to the connectors as required.
- If there is no power locally available for the camera, cut the wire in middle of the power supply cable and use the blue pair from your twisted pair cable to extend the power. Attach the RJ-45 connector (T568A standard, without the blue pair, pins 4,5) onto the CAT5 cable, and attach to the B-321R. For distances further than 200 ft. or AC powered cameras, powering the camera locally is required.

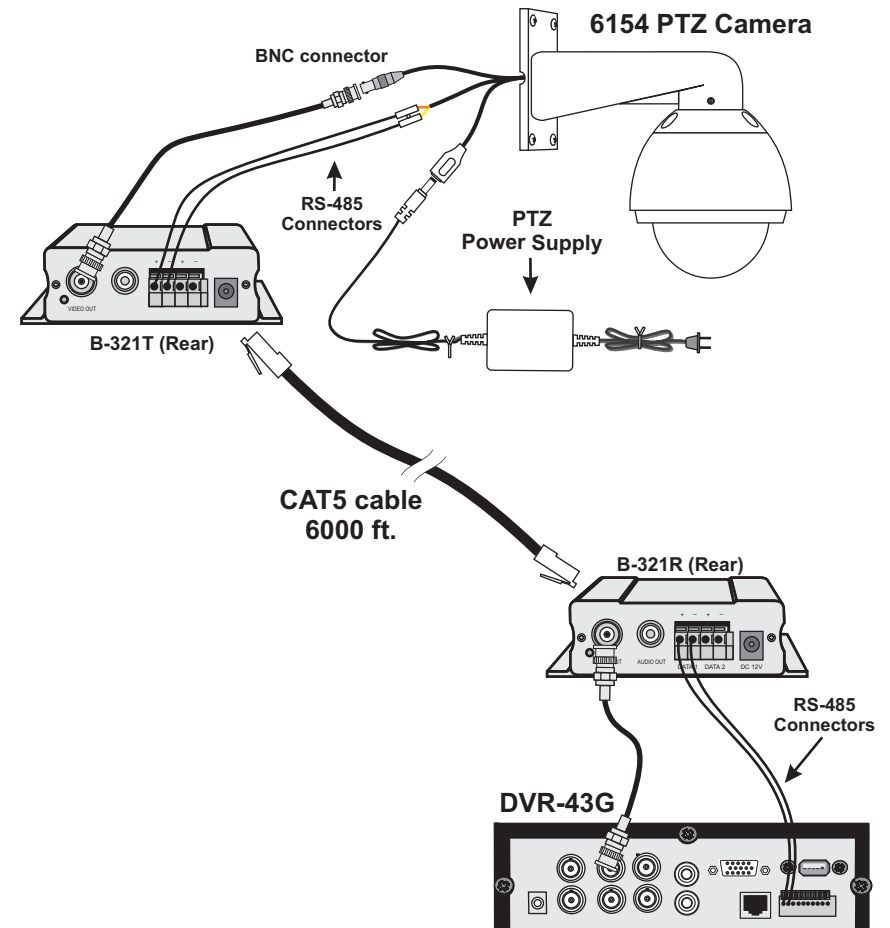
Installation Diagram For Medium Distances



Installation:

- Connect video, audio, and PTZ/data cables to the connectors of the B-321T as required.
- Attach a CAT5 cable to the RJ-45 connector on the B-321T.
- Attach a CAT5 cable to the RJ-45 connector on the B-321R.
- Connect video, audio, and PTZ/data cables to output of B-321R as required.

Installation Diagram For Long Distances



Installation:

- Connect video, audio, and PTZ/data cables to the connectors of the B-321T as required.
- Attach a CAT5 cable to the RJ-45 connector on the B-321T.
- Attach a CAT5 cable to the RJ-45 connector on the B-321R.
- Connect video, audio, and PTZ/data cables to output of B-321R as required.