



MANUAL PART NUMBER: 400-0175-001

DA3000TM

**1-IN, 1-OUT COMPOSITE VIDEO + AUDIO
LINE DRIVER TABLE MOUNT
USER'S GUIDE**

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PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **DA3000TM**. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **DA3000TM** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

1.1 GENERAL

- Unauthorized personnel shall not open the unit since there are high-voltage components inside.
- Qualified ALTINEX service personnel, or their authorized representatives must perform all service.

1.2 INSTALLATION

- For best results, place the on a flat, level surface in a dry area away from dust and moisture.
- To prevent fire or shock, do not expose this unit to rain or moisture. Do not place the **DA3000TM** in direct sunlight, near heaters or heat radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle the **DA3000TM** carefully. Dropping or jarring can damage internal components.
- Never install the **DA3000TM** in the same enclosure with high voltage wires or their associated components, such as power sockets, dimmers or switches. Always use proper isolation techniques to ensure that the **DA3000TM** is never installed in an enclosure that has high voltages within it.

1.3 CLEANING

- Clean surfaces with a dry cloth. Never use strong detergents or solvents, such as alcohol or thinner. Do not use a wet cloth or water to clean the unit.

1.4 FCC / CE NOTICE

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.

ABOUT YOUR DA3000TM 2

The **DA3000TM** is a 1-in 1-out composite video line driver with stereo audio input designed for mounting under a table or other furniture. The **DA3000TM** provides stereo audio transmission to a main sound system and the connection of a composite video source to a distant display (monitor or projector) with minimal loss of quality.

The front panel of the **DA3000TM** offers one composite video loop insulated input and two computer audio inputs. All signals are passed through to three RCA female connectors. The **DA3000TM** Line Driver also has an LED on the front panel, which is a signal present or power indicator. The front panel is available in ivory or white.

The back panel offers a buffered video output through a 2-pin terminal block and balanced stereo output through a 5-pin terminal block connector. The **DA3000TM** Line Driver has a 2-pin terminal block for connection to a 9V 500mA power external adapter also on its back panel.

The **DA3000TM** is capable of accepting composite video signals in standard NTSC, PAL, or SECAM formats. The output is amplified, allowing the signal to pass over a long cable run. Also, the **DA3000TM** converts an incoming unbalanced stereo audio signal to balanced stereo audio on the output. The output of the **DA3000TM** is capable of handling lengths up to 75-100 ft. if high quality coaxial cable is used.

TECHNICAL SPECIFICATIONS 3

FEATURES/DESCRIPTION	DA3000TM
GENERAL	
Inputs	
Input Connector	RCA Female
Audio Input Connectors	2 RCA Female
Outputs	
Video Output Connector	2-pin terminal block
Audio Output Connector	5-pin terminal block
Power	
9VDC 500mA supply	2-pin terminal block
Compatibility	C-Video, NTSC, PAL & SECAM TYPE

Table 1. **DA3000TM** General

MECHANICAL	DA3000TM
Depth (inches)	4.1 in. (105mm)
Width (inches)	1.5 in (39mm)
Height (inches)	2.1 in. (54mm)
Weight (pounds)	1 lb. (.45kg)
Ship Weight (pounds)	1.6 lb. (.73kg)
Material	Steel
Finish	Black Zinc
T° Operating	10°C -35°C
T° Maximum	50°C
Humidity	90% non-condensing
MTBF (calculations)	40,000 hrs.

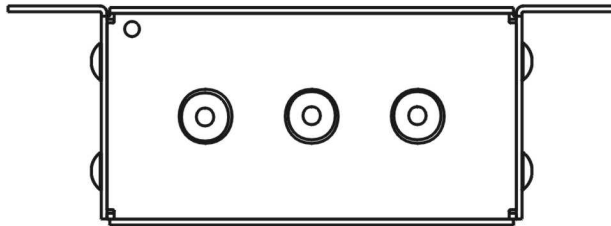
Table 2. **DA3000TM** Mechanical

ELECTRICAL	DA3000TM
Input Video Signal	
Level	1.5V max.
Impedance	75 ± 1% (terminated)
Output Video Signals	
Level	1.5V p-p max. (terminated)
Impedance	75Ohms
Equalization	Optimized for 75ft of high resolution coax
Frequency Compatibility	
Minimum Video Bandwidth	-3dB @ 350MHz
Audio Input	
Impedance	10k
Max Level	0dBu
Audio Throughput	
Gain	+6dB balanced, 0dB unbalanced
Frequency Response	10Hz to 20kHz (+/- 0.05 dB)
Noise Floor	-98dB @ 20kHz
CMRR	<40dB, 10Hz to 20kHz
Audio Output	
Impedance	300 unbalanced, 600 balanced
Drive	>10dBu
Power	
External Power	9VDC 500mA supply

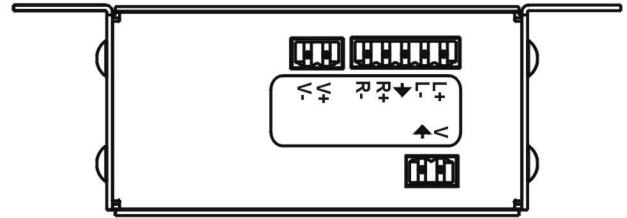
Table 3. **DA3000TM** Electrical

PRODUCT DESCRIPTION

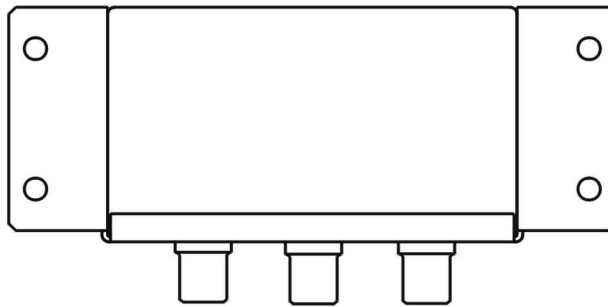
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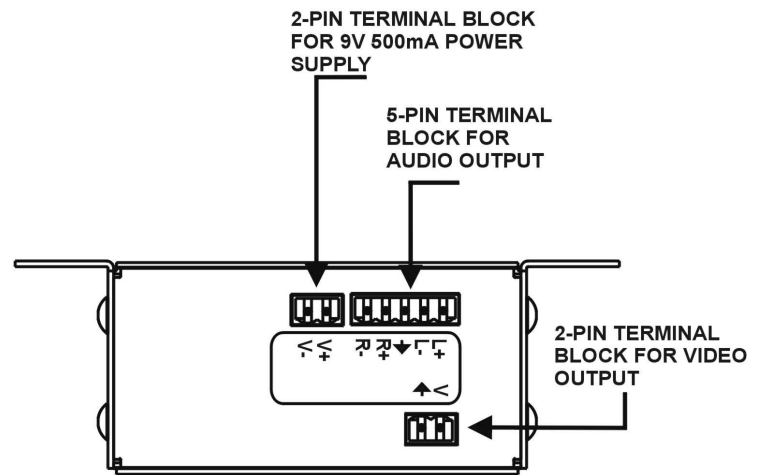
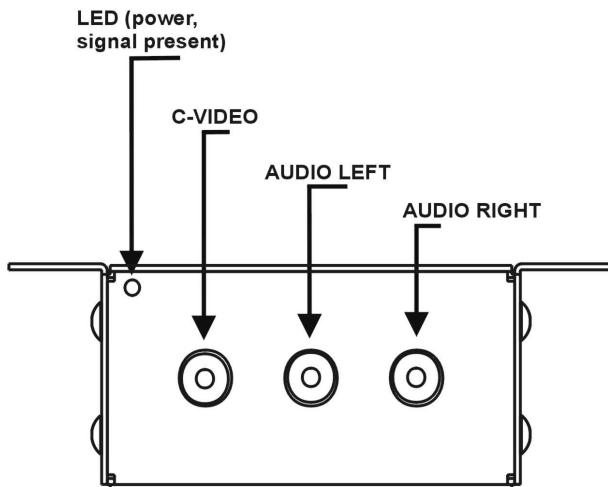
Front View



Back View



Side View



PRODUCT DESCRIPTION (CON'T)

4.1 VIDEO INPUT & OUTPUT

The **DA3000TM** accepts composite video loop insulated input through a yellow RCA female connector and offers a buffered video output through a 2-pin terminal block on the back of the **DA3000TM**. The **DA3000TM** allows a connection to different types of projectors or monitors using ALTINEX cables.

PIN No.	OUTPUT SIGNAL ON 2-PIN MALE TERMINAL BLOCK
1	Composite Video
2	GND

Table 4. 2-pin Male terminal block for video output

4.2 AUDIO INPUT & OUTPUT

The **DA3000TM** accepts audio input and offers balanced stereo output through a terminal block connector on the back panel. There are two red and black RCA female connectors for audio input, which may be returned to an amplifier. A 5-pin terminal block is available for stereo audio transmission to the main sound system.

PIN No.	OUTPUT SIGNAL ON 5-PIN MALE TERMINAL BLOCK
1	L+IN (Left Channel)
2	L-IN (Left Channel)
3	SIGNAL RETURN
4	R+IN (RIGHT Channel)
5	R-IN (RIGHT Channel)

Table 5. 5-pin Male terminal block for audio output

4.3 POWER INPUT CONNECTOR

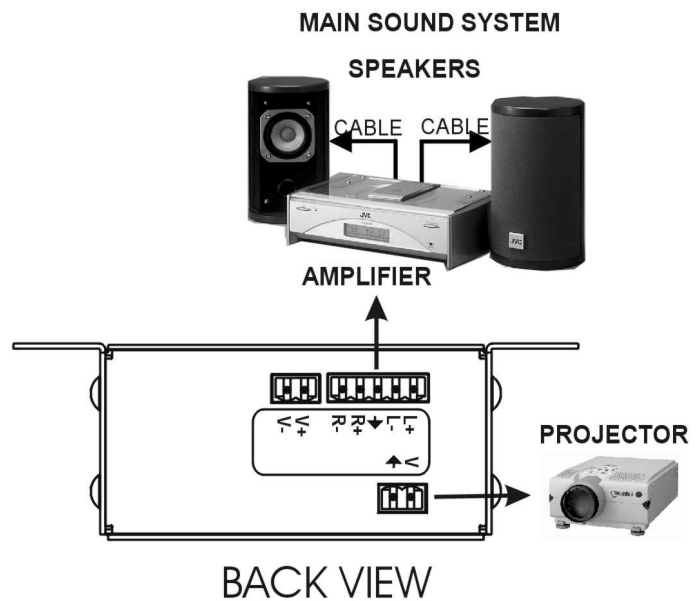
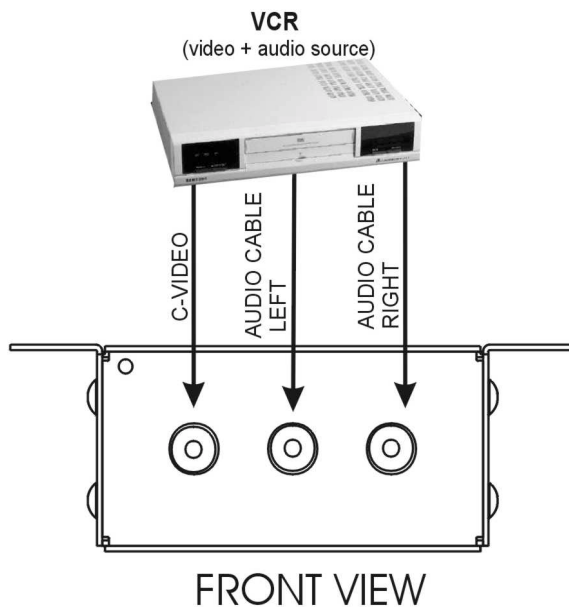
The **DA3000TM** Line Driver has a 2-pin terminal block for connection to a 9V 500mA power external adapter. A selection of several power adapters is available for different countries from 110 VAC to 240 VAC.

4.4 POWER/SIGNAL PRESENT INDICATOR

The **DA3000TM** Line Driver has an LED on the front panel, which provides feedback to the user. When power is connected to the **DA3000TM**, the LED will turn red. When a video source is connected to the **DA3000TM**, the LED will turn green, indicating that the unit is receiving a signal.

APPLICATION DIAGRAM

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INSTALLING YOUR DA3000TM 6

Step 1. Mount the **DA3000TM** to the underside of a table and apply 9VDC power to the unit. The LED should turn red, indicating power but no incoming video signal.

Step 2. Connect an active video source to the front of the **DA3000TM**. The LED should turn green. If the **DA3000TM** is connected to a display, you should see an image.

Step 3. Connect an active audio source to the front of the **DA3000TM**. If the unit is connected to an audio amplifier with speakers, you should hear sound.

OPERATION 7

The **DA3000TM** will operate successfully as long as all cables are attached properly and other technical specifications are maintained.

ACCESSORIES 8

Model No.	Description
SNAP-IN CONNECTORS	
SN1310-W/I	Package of 10 Blanks
SN1303-RJ45-W/I	CAT-5 (RJ-45)
SN1304-RJ11-W/I	Telephone/ Modem (RJ-11)
SN1310-F-W/I	F-Type, Female to Female
SN1301-BNC-W/I	BNC, Female to Female
SN1308-4MD-W/I	4-pin Mini-DIN, S-Video
SN1308-6MD-W/I	6-pin Mini-DIN, Control
SN1308-8MD-W/I	8-pin Mini-DIN, S-Video
SN1302-RCAY-W/I	RCA w/ yellow stripe
SN1302-RCAR-W/I	RCA w/ red stripe
SN1302-RCAB-W/I	RCA w/ black stripe
SN1305-MA-W/I	Stereo Mini Audio Jack
SN1306-MC-W/I	Momentary Contact Closure Switch
SN1306-LC-W/I	Latching Contact Closure Switch
SN1311-GR-W/I	Green LED Indicator

Note: The items above must be ordered in packages of 10.

Model No.	Description
MULTI-MEDIA LABELS	
MS8301LB	Input/ Output label sheets; black w/ white text

MS8302LB	Input/ Output label sheets; white w/ black text
MS8303LB	Input/ Output label sheets; ivory w/ black text
BACK BOXES	
WB1248WM	1-gang metal back box
WB1249WM	2-gang metal back box
WB1250WM	5-gang metal back box w/ 3-gang device cover plate
WB1251WM	6-gang metal back box w/ 4-gang device cover plate
BRACKETS	
WB1260WM	Adjustable back box bracket (11" to 18")
WB1261WM	Adjustable back box bracket (17" to 26")
MOUNTING PLATES	
WB1266WM	1-gang plastic mounting plate (retrofit)
WB1267WM	2-gang plastic mounting plate (retrofit)
VGA INPUT CABLES	
CB3703MR	3 feet, VGA Male to Male
CB3706MR	6 feet, VGA Male to Male
CB3715MR	15 feet, VGA Male to Male
VGA + AUDIO INPUT CABLES	
CB901-A3	3 feet, VGA + Stereo Mini, Male to Male
CB901-A6	6 feet, VGA + Stereo Mini, Male to Male
CB901-A12	12 feet, VGA + Stereo Mini, Male to Male
POWER SUPPLIES	
PS5503US	9V 500mA Power Adapter
PS5581SM	12V, 4.0 Amp Power Supply

FREQUENTLY ASKED QUESTIONS 9

No:	Question	Answer
1.	How many feet of cable can I use with the DA3000TM ?	The DA3000TM is optimized for 75ft, but longer or shorter lengths may be used. Contact ALTINEX for information concerning equalization.
2.	May I use cat cable instead of coaxial cable?	No, you can not use cat cable instead of coaxial cable because the quality of the received signal will be lost.

TROUBLESHOOTING GUIDE 10

We have carefully tested and have found no problems in the supplied **DA3000TM** unit; however, we would like to offer the following suggestions:

- Make sure that the display equipment is compatible with the source equipment.
- Please make sure that input amplitude of the video analog signal is less than 1.5V.
- Please use the ALTINEX external AC adapter, which supplies 9V DC at 500mA.
- Please make sure that the proper quality of cables with coaxial component for video and twisted pairs cable for audio channels is used. We recommend ALTINEX-made cables for best results.
- If a problem arises after continuous usage at higher voltage, higher temperature, higher humidity, or at other extreme environmental conditions, please correct the problem.

ALTINEX POLICY 11

11.1 LIMITED WARRANTY

ALTINEX warrants that its products and cables are free from defects in materials under normal use and service. This warranty is limited to repairing at company's factory any part or parts of the product, which upon company's examination shall disclose to be, thus defective. Products considered defective should be returned to company with transportation charges pre-paid within 2 years (90 days for cables) from date of shipment to the purchaser. The warranty is expressly instead of all other warranties expressed or implied. ALTINEX neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale of the products. This warranty shall not apply to any product that shall have been repaired or altered outside of company's factory in any way so as, in its judgment, to affect its stability or reliability, or that has been subject to misuse, negligence or accident.

11.2 RETURN POLICY

It is very important to ALTINEX that you receive the products that you have ordered and that this product meets your expectations. In the unlikely event, that an ALTINEX product needs to be returned please follow the policies below:

ALTINEX will accept product returns for a period of 30 days from authorized ALTINEX dealers. Products must be returned in an unopened package.

If a product has been opened, the restocking fees will apply. For the restocking fee amount, please contact an ALTINEX Sales Representative.

If the product is in your possession for more than 30 days the restocking, fees will apply.

ALTINEX will not accept any returns on cables or custom products.

If your product is in warranty and needs service, contact the ALTINEX Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service.

If your product is out of warranty and needs service, contact the ALTINEX Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service. The service charges will be quoted to you before the actual repairs are done.

11.3 CONTACT INFORMATION

ALTINEX, INC.

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Brea, CA 92821 USA

TEL: 714-990-2300

TOLL FREE: 1-800-ALTINEX

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