

PREVUE CHANNEL™

Installation and Operating Manual Prevue 1000 & Budget Barker

PREVUE
NETWORKS, INC.
7140 S. Lewis
Tulsa, OK 74136
800-447-7388

TABLE OF CONTENTS

Overview - Prevue Networks Services	Page 1
Introduction - Prevue Channel	Page 3
Unpacking	Page 4
Installation	Page 5, 6, 7, 8
Operating Instructions / Options	Page 9
Keyboard Operation	Page 10
Main Menu	Page 11
Edit Ads	Page 12
Edit Attributes	Page 13
Change Scroll Speed	Page 14
Diagnostic Mode	Page 15,
Special Functions	Page 16, 17
Trouble Shooting	Page 18, 19, 20
Technical Specifications	Page 21

PREVUE NETWORKS, INC. SERVICES

Prevue Networks, Inc. provides a variety of text and video plus text services to the cable television industry. Those services include:

- Prevue Channel
- Sneak Prevue
- The Electronic Program Guide
- The EPG "Junior,
- The Travelers Program Guide.
- The Cable SportsTracker

This manual will provide you with installation and operating instructions for those services that you subscribe to.

PREVUE
NETWORKS, INC.

PREVUE CHANNEL

INTRODUCTION

The Prevue Channel is a customized, satellite-delivered program listing and full-motion channel preview service. It features the programming information and Previews of services offered on your cable system. In general, this customization is formatted according to specifications provided to Prevue Channel by your program coordinator.

In addition to offering previews of your cable programming services, Prevue Channel also provides for inclusion of locally generated text or graphic ads, depending on which Option your program coordinator has chosen for your system.

Program listing (text) updates are transmitted throughout the day over the Prevue Channel satellite system.

Subscribers tuning to Prevue Channel on your cable system will see Previews of both basic and premium services, national ads and local ads (if this option was chosen by your Program Coordinator) on the top half of their screens. Previews will appear on either the left or right half of the top portion of the subscribers screen with a system-specific cable channel identifier on the opposite top half. The middle of the screen will display current day and time information.

The bottom portion of the screen will contain the system-specific channel identifiers and program information in a scrolling grid text format. This information will continue to scroll even during the same time ads and Previews are being displayed.

National and/or local ads will utilize the full top half of the screen. Synchronized audio is provided with both the video previews and national ads. When national or local ads are displayed, audio will switch to background music provided by Prevue Channel and downloaded with the real-time, full-motion video Prevues. All equipment necessary to utilize Prevue Channel's background audio is resident in the equipment provided to your cable system.

THE PREVUE CHANNEL UNPACKING AND INSPECTION

Unpacking the Equipment

Please follow these steps in unpacking your Prevue Channel equipment:

1. Open the box and carefully remove the unit and other enclosed materials. You will have received:

The Prevue Channel Control Unit (PCCU)
including the mainframe, computer and the data/audio demodulation unit.

The Prevue Channel Operations Manual

Two Prevue Channel system disks

If your program coordinator has selected any of the available equipment options you will have received the appropriate equipment in additional packages.

2. You should inspect the equipment to ensure that there has been no damage during shipping. If damage has occurred, please contact our customer service department at 1 800 447-7388.

NOTE: In the event that it is ever necessary to return the equipment we recommend that you retain the packing material and carton.

Returning the Equipment

Should it ever be necessary to return your PCCU to Prevue Channel the following procedures should be followed: Contact the Prevue Channel Customer Service Department who will provide you with a return authorization. The Customer Service Department will advise you as to the best method for packing, shipping and insuring the equipment. The shipping address for Prevue Channel is:

Prevue Networks Inc.
Customer Service Department
7140 South Lewis Road
Tulsa, Oklahoma 74136

THE PREVUE CHANNEL INSTALLATION

The Prevue Channel service is composed of video, audio and programming data transmitted on Satcom C-4, Transponder 8. Transponder 8 broadcasts on a center frequency of 3860 MHz and is horizontally polarized. Your satellite receiver should be tuned accordingly. Adjust the unfiltered composite baseband output level to 1 volt (peak-to-peak) when terminated into a 75 Ohm load.

To install the Prevue Channel Control Unit (PCCU), you will have to provide the following equipment:

- *A satellite receiver with a minimum of 30 Hz I.F. bandpass.

- *Three RG-59 coaxial cables (length to be determined by the location of your equipment as discussed below). We recommend that cable lengths not exceed 30 feet.

- *One audio cable.

Install the PCCU in the following manner:

1. Mount the PCCU unit in your equipment rack at a height that allows easy access to the keyboard and computer. The keyboard connector should be inserted into the front of the computer. The keyboard compartment allows you the option of storing the keyboard inside or leaving it outside on the shelf for easy access.

2. Connect the unfiltered composite baseband out of your receiver with RG-59 to the BASEBAND IN (B.B. IN) connector on the back of the PCCU (see Figure 3).

3. Connect an RG-59 cable from the VIDEO OUTPUT port on your receiver to the VIDEO IN port on the back of the PCCU.

4. Connect an RG-59 cable from the **VIDEO OUTPUT** port on the PCCU to a video monitor.
(see Figure 1.)

5. Connect an audio coaxial cable from the **AUDIO OUTPUT** port on the PCCU to the video monitor.

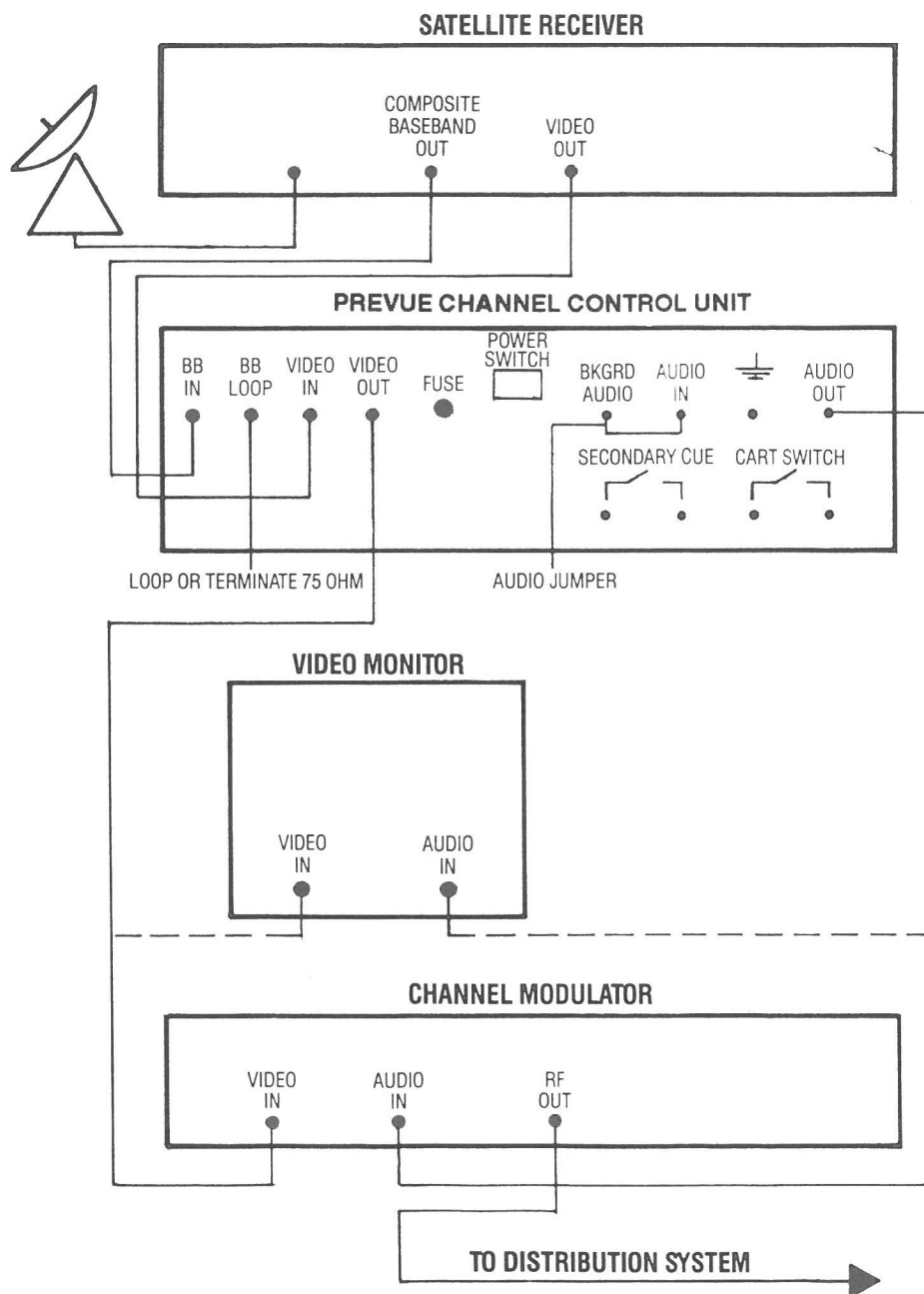


FIGURE 1, EQUIPMENT SET-UP

6. Open the access panel on the front of the PCCU. Insert a Prevue Channel system disk into the disk drive on the right front side of the Amiga character generator (see Figure 4). The remaining Prevue Channel system disk will be used for back-up purposes.

7. Power up the video monitor and the receiver. Then, power up the PCCU by using the power switch located on the back of the unit. (The power switch on the left-front side of the computer is preset and should not be used.) A message will soon appear... "System Initializing, Please Stand By." Within 60 seconds, the Prevue Channel screen will appear with the day and date line on screen as in figure 2.

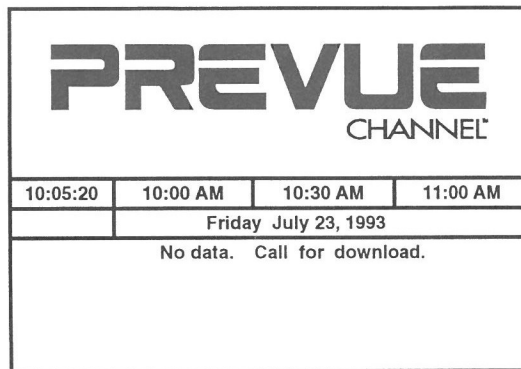


FIGURE 2, BOOT-UP SCREEN

8. Program data will not appear until the unit has been initialized and data is stored in the unit.

9. On January 4, 1993, Prevue Channel began offering several new on screen formats. These consisted of:

- The scroll format
- The new scrolling grid format
- The "Scrid" format. The "Scrid" is the rolling format but with a 2-3 second pause on screen. Once your PCCU is initialized, it will begin displaying your specific option.

10. The Prevue Channel system is now ready to receive program information data. Call the Prevue Channel customer service department at 1 800 447-7388. Tell the customer service representative that you are ready for a Prevue Channel data transmission. The customer service representative will ask for the city and state in which your cable company is located. As data is received by your system you will see a black dot beginning to flash just to the right of the current time display located in the middle-right portion of the screen.

11. You will begin to see full-motion video prevues on the top portion of your screen, date & time information in the middle portion, and scrolling program information, formatted for your specific cable system on the bottom portion. If not, please refer to the Troubleshooting section of this manual or contact the Prevue Channel customer service department.

12. The PCCU is now ready to be connected to your channel modulator. Do so by disconnecting the RG-59 cables from the video monitor and, again using RG-59 cables, connect the Audio Output to the PCCU to the Audio Input of your channel modulator and the Video Output of the PCCU to the Video Input of your channel modulator.

PREVUE CHANNEL OPERATING INSTRUCTIONS

The Prevue Channel provides three options for the generation and display of local advertising.

Option 1: Text advertisements entered into your data transmission by Prevue Channel personnel. Advertising information is called in to Prevue Channel by your coordinator. Prevue Channel will format and transmit your ad in accordance with your specifications. A service fee is charged for each ad that is entered in this manner.

Option 2: Text advertisements are entered by your operator utilizing the keyboard included with the PCCU. (No service fee)

Option 3: This is the Premium Advertising Package. It provides for the creation and display of high resolution graphic ads with text. This option requires an off-line computer, additional disk drives and software. If this option was chosen by your program coordinator your cable system will have received this additional equipment in a separate shipment.

Your program coordinator will have chosen one of these options for your system. Your Prevue Channel equipment has been pre-set accordingly. For Option 1, the keyboard can only be used to adjust the scroll speed of your system and run a diagnostic program described later in this manual. Options 2 and 3 allow full system access via the keyboard.

If your system has chosen Option 1, local ads are phoned-in or mailed to the Prevue Channel ad sales clerk. These ads are entered into your data and transmitted to your system, a minimum of once per day.

If your system has chosen Option 2, instructions will follow in the next section.

If your system has chosen Option 3, additional equipment is required. Text ads can not be entered and displayed using the keyboard with Option 3; graphics ads can only be displayed.

KEYBOARD OPERATION

If your system has chosen Option 2, you have the capability of entering and displaying 36 separate text ads using the keyboard provided. Each ad may contain a maximum of six (6) lines or a total of 240 characters.

Using this option, the keyboard will allow you to perform five main functions:

1. Edit Ads -- This function allows the user to either create new ads or modify existing ones.
2. Edit Attributes -- This function allows the user to activate an ad so that it becomes part of the Prevue national ad--local ad cycle being displayed on the upper portion of the screen. It also allows you to inactivate an ad so that it no longer is being displayed.
3. Change Scroll Speed -- This function allows the user to choose different speeds for the scrolling program information on the bottom portion of the screen.

Functions 1, 2, and 5 cannot be used until the PCCU has received a data transmission from Prevue Channel.

4. Diagnostic Mode -- This function provides the user with information to assist in trouble-shooting any problems with system operation.

5. Special Functions -- This function allows the user to manually save both ad text and programming data on the Prevue Channel System Disk.

Note: Functions 1, 2, and 5 cannot be used until the PCCU has received a data transmission from Prevue Channel.

MAIN MENU

The Main Menu allows you to choose whichever of the five functions you need. To access the Main Menu, press the (ESC) key. The Main Menu will appear as in Figure 3.

TUES SEPT 1	VERSION 5.0.58	10:00:00 AM
Edit Ads		
Edit Attributes		
Change Scroll Speed		
Diagnostics Mode		
Special Functions		
Versions Screen		
Push ESC to resume		
Push RETURN to enter selection		
Push any key to select		

FIGURE 3, MAIN MENU

To select the desired function, position the highlighted horizontal bar over the desired function by pressing the space bar. Then press (RETURN).

To return to on-screen Prevues and programming information from the Main Menu, press (ESC).

EDIT ADS

This function allows the user to create new ads or modify existing ones. When the user selects this function from the Main Menu (see Figure 3), the screen will appear as in Figure 4. Notice that the first line features a prompt requesting the number of the ad to be created or modified. Enter the desired AD number (1-36) and press (RETURN).

TUES SEPT 1	VERSION 5.0.58	10:00:00 AM
Ad number ? 1		
Push RETURN to enter selection Push any key to select		

FIGURE 4. EDIT AD SCREEN

TUES SEPT 1	VERSION 5.0.58	10:00:00 AM
Big Sale in Progress Come and see our unusual display of fine arts and crafts Eastland Mall . . . this weekend only 8 AM to 5 PM		
Push ESC to make another selection. Push HELP for other edit functions. Line mode on Editing ad number 1		

FIGURE 5. AD ENTRY SCREEN

The ad can now be created (as in Figure 5) using the alpha/numeric keys and the function keys (F1-F10) across the top of the keyboard. **Note:** It is important to understand the operation of the function keys. F1-F5 move the text or reposition the cursor. F6-F10 have the potential for deleting copy. The edit functions can be reviewed on screen by pressing the (HELP) key when in the Edit Ad function. Also: when entering an ad, a sentence longer than one line will not automatically wrap to the next line. Line endings (carriage returns) must be entered just as when using a typewriter. Use all the keys available on the keyboard to create the text ad. Refer to the help screen for assistance. Once the ad has been completed press (ESC) to return to the Main Menu.

EDIT ATTRIBUTES

After an ad is entered, it can be stored in the system to be activated later or it can be activated immediately. To create, edit, or activate an ad, select Edit Attributes from the Main Menu then press (RETURN). The screen will now appear as in Figure 6.

TUES SEPT 1	VERSION 5.0.58	10:00:00 AM
Ad number ? 1		
Push RETURN to enter selection		
Push any key to select		

FIGURE 6

TUES SEPT 1	VERSION 5.0.58	10:00:00 AM
Active / Inactive		
Ad Number 1		
Push ESC to exit Attribute Edit.		
Push RETURN to enter selection		
Push any key to select		

EDIT ATTRIBUTES SCREENS

FIGURE 7

When (RETURN) is pressed to make the selection, a prompt will appear asking for the desired ad number (1-36). Enter the number and press (RETURN). The Edit Attribute screen will appear as shown in Figure 7. To activate an ad, press the space bar until the word "Active" is highlighted. Press (RETURN). To inactivate an ad, position the highlight over the word "Inactive" and press (RETURN). Press (ESC) to return to Main Menu. Press (ESC) again to return programming to the screen. As this is being done, ads are automatically stored to disk as indicated by the disk drive activity LED. If you wish to create additional ads, go to the Edit Ad screen and enter ad number 2 and continue as previously explained.

CHANGE SCROLL SPEED

To change the scrolling speed of the programming information on the bottom portion of the screen, select Change Scroll Speed on the Main Menu. When the Change Scroll Speed screen appears as shown in Figure 8, press the space bar to select the appropriate speed for your system. The highlight will cover the different speed options as you press the space bar. Scroll speed 3 is the default speed, the most popular and the one pre-set on your PCCU. Once you have selected the desired speed, press (RETURN). Press (ESC) to return to Main Menu.

TUES SEPT 1	VERSION 5.0.58	10:00:00 AM
Satellite Delivered scroll speed		
Speed 1 not available		
Scroll speed = 2 (fastest)		
Scroll speed = 3 (default)		
Scroll speed = 4		
Scroll speed = 5		
Scroll speed = 6		
Scroll speed = 7		
Scroll speed = 8 (slowest)		
Push RETURN to enter selection		
Push any key to select		

FIGURE 8, CHANGE SCROLL SPEED

DIAGNOSTIC MODE

This screen displays information concerning the pre-set parameters, the operation and the status of the PCCU. It will be used primarily when in contact with the Prevue Channel customer service technician in trouble-shooting a problem situation. To access this function, select Diagnostic Mode from the Main Menu. The screen should appear as shown in Figure 9.

TUES SEPT 1	VERSION 5.0.58	10:00:00 AM
Disk 0 is 58% full with 0 Errors		
DATA Cmds:00021199 CErrs:000 LErrs:000		
CTRL Cmds:00040776 CErrs:000 LErrs:000		
Memory types disabled(use CTRL C/F/M/A)		
DATA overruns 0		
DATA: H:00000 T:00000 C:00000 MAX:00000		
CTRL: H:00000 T:00000 C:00428 MAX:00428		
VIN:N BCK:A FWD:E SSPD:5 #AD:36 LINE:6		
TZ:6 DST:Y CONT:Y KYBD:Y GRPH:N		
PGL2868		2400 Baud
Push any key to continue		

FIGURE 9, DIAGNOSTICS SCREEN

The Diagnostic Mode function screen displays memory status, error status, and various system configuration options. This information is outlined below:

Line 1 - indicates the day, date, time & software version.

Line 2 - indicates the percentage of disk space that is full and the number of errors contained on the disk.

Line 3 & 4 - indicates commands and errors. Commands are any Prevue data broadcast commands sent to the unit. Errors relate to the number of transmitted errors found in those commands.

Lines 5, 6, 7 & 8 - indicates the amount of Prevue Channel system memory currently being used.

Lines 5, 6 & 7 - relate to down-loaded files.

Lines 9 & 10 - display system configuration options information. These options and a sample system configuration is shown below in Figure 18.

Line 11 - indicates system address or select code and baud rate.

SPECIAL FUNCTIONS

Text ads and programming are saved to the disk automatically by the PCCU between 12 midnight and 6 A.M. each day. However, there may be instances where you will want to save this data before the automatic back-up operation occurs. Example: Making a back-up disk for new ads entered, or storing current programming on a newly installed system disk.

To manually save the ads or data, select Special Functions on the Main Menu. Special Functions provides the user four options to simplify the operation of saving ads/data to disk. These four options are very easy to use and are explained on screen. See Figure 10.

TUES SEPT 1 VERSION 5.0.58 10:00:00 AM
Save text ad to disk Save data to disk Save data / text ads to disk Save data to disk / Use disk text ads
Push RETURN to enter selection Push any key to select

FIGURE 10, SPECIAL FUNCTIONS SCREEN

These options are:

1. Save text ads to disk - used to save ads only to disk.
2. Save EPG data to disk - used to save data only to disk.
3. Save EPG data/text ads to disk - used to save both to disk.
4. Save EPG data to disk/use disk text ads - used to save data to disk with newly created ads.

Note: If creating multiple ads (five or more) at one time, it is recommended that these ads be manually backed-up on the system disk by using the Special Functions feature. In addition, it is recommended that they be backed-up on one of the spare systems disks as well as the system disk currently being used. To do this, return to the Main Menu after backing up the

ads on the current disk. Remove the current disk and replace it with one of the spare disks. Select Special functions from the Main Menu and select "Save Text Ads to Disk" from this screen by pressing return. A statement will appear on the bottom of the screen "Are you sure? (Y/N)", answer "Y" for yes. This function has manually stored ads to the system disk. After returning once again to the Main Menu, replace the back-up or spare disk with the original disk.

TROUBLESHOOTING

All Prevue Channel equipment has been thoroughly tested before being shipped to you. However, due to transit handling and environmental conditions, problems may occur. The Prevue Channel customer service line 1 800 447-7388 is available 24 hours a day, 7 days a week to help with any problems you may experience.

The PCCU features a number of clearly marked LED's on its front panel to help alert you to the status of the system at all times. There are three LED indicators for (1) power to the main unit, (2) audio switches and (3) power to the audio demodulators. All three should be on green. The remaining two LED indicators are for program data and control data.

The data signal LED will flash green when Prevue broadcast data is being received. The control LED will flash briefly each time a Prevue is displayed. The fault LED's for both data and/or control will flash red if a problem exists with the signal from the satellite receiver.

To further assist you, typical problem situations are listed below, along with a recommended course of action. If the recommended action does not remedy the problem, call the Prevue Channel customer service department at 1 800 447-7388.

1. If the **Main Power LED is not on** after the unit is powered up:
 - A. Power off.
 - B. Verify the commercial power supply, the power cable and the half-amp fuse mounted on the rear of the PCCU unit.
 - C. Power on.

2. If **no Prevue video or audio** is evident or if Prevue video seems to be frozen, yet program information continues on the bottom portion of the screen:

A. Check to verify if **CONTROL** and **DATA** LED's are flashing green.

B. If they are not flashing or if the fault LED's are flashing red, check the composite baseband output from the satellite receiver.

3. If **no Prevue audio or video** is evident, yet local ads and/or **logos appear at random** with continuing bottom-screen programming information:

A. Check to verify if **CONTROL** and **DATA** LED's are flashing green.

B. Check for satellite receiver or downlink failure.

4. If **no Prevue video** is evident, but **Prevue audio and scrolling programming information are still being featured**, with the **DATA** and **CONTROL** LED's not flashing:

A. Check to verify video input from satellite receiver to PCCU.

5. If all video features of The Prevue Channel are functioning, but **no audio**:

A. Check the cable connections between PCCU and channel modulator.

6. If all Prevue video, audio and programming information data is functioning properly, but **no background audio** during local ads:

A. Check the background audio jumper from background audio to audio in.

7. If bottom-screen programming information is lost, but **time frame bars continue to show**:

A. Call Prevue Channel customer service for re-transmission of current programming data.

8. If both the red **DATA Fault** and **CONTROL Fault LED's** are on:

A. Check for proper satellite receiver and transponder settings. If only the red DATA Fault LED OR the red CONTROL Fault LED appears:

A. Contact Prevue Channel customer service.

9. If the **programming information area at the bottom of the screen is blank**:

A. Re-boot the system by pressing (CTRL) and both Amiga A's on each side of the spacebar simultaneously.

10. If the **image of a 3 1/2" floppy disk is displayed on the screen** along with TVRO programming information:

A. Check to be sure that the correct Prevue Channel system disk has been inserted in the disk drive.

If any other symptoms or problems occur, call the Prevue Channel customer service department at 1 800 447-7388.

TECHNICAL SPECIFICATIONS

Size: 19" x 19" x 8 3/4"

Weight: 50 lb.

Environmental Requirements: Temperature -- 32 - 120 F.
0 - 55 C.

Humidity -- Non-condensing

Power Requirements: 115/220 AC, one phase, 50/60 hz