

Status LEDs

LED		ENCODE mode	DECODE mode	BYPASS mode
VIDEO	Off	No video signal	No video signal	No video signal
	Green	Video + SDI locked	Video + SDI locked	Video + SDI locked
	Yellow	Video + SDI unlocked	Video + SDI unlocked	Video + SDI unlocked
	Red	(Not used)	(Not used)	(Not used)
AUDIO	Off	No AES signal	No AES signal	No AES signal
	Green	Audio OK	Audio OK	Audio OK
	Yellow	Low audio envelope	Low audio envelope	Low audio envelope
	Red	Low audio or no audio	Low audio or no audio	Low audio or no audio
DATA	Green	Not used, LED forced off in Encode mode	Data OK	Not used, LED forced off in Bypass mode
	Yellow		WM sync adjustment	
	Red	No WM sync detected		
A/V DELAY	Green	Not used, LED forced off in Encode mode	A/V value updated	Not used, LED forced off in Bypass mode
	Yellow		A/V value not updated	
	Red	Persistent A/V problem		

Reference

AVDC100 Audio/Video Delay Corrector

071-0874-00

Sample Display Readouts

ENCODE

```
WM = W1          ACTIVE
ID:  TEKSTUDIO
```

WM = Watermark intensity level (1 – 3)
ACTIVE or PASSIVE
Watermark insertion active or inactive
ID = Source ID

DECODE

```
AV  -1 Flds    D-1  ■1
ID:  TEKSTUDIO
```

Alternate messages for A/V delay display:
?loAud = Low audio volume
?loCor = Low audio correlation
?loEnv = Low audio envelope variation
?noDat = No audio watermark data
?noWM = Recovering from no watermark
?nSync = No watermark sync pattern
?stall = Recovering from A/V measurement stall
?wait = Waiting for data
?wrAud = Recovering from wrong audio
AV Stalled = Excessive loCor, loEnv, or noDat condition
No Watermark = Excessive nSync
Wrong Audio? = Excessive loCor

AV = Audio/video measurement
Note: When the A/V delay measurement number (in fields) equals the dynamic or fixed delay number, the A/V delay is properly compensated.
+30 to -150 = A/V delay in video fields
Positive number = uncorrectable delay
D or F
D = Dynamic Delay (0 – 120)
F = Fixed Delay (0 – 150)
■ = Watermark gain meter
0 – 9 or E
0 – 9 = Relative number of correctable errors detected in audio data
E = Too many errors to correct in audio data

BYPASS

```
Bypass  Mode
v1.0    03/28/01    16:28
```

Software version, date, and time

This document applies to firmware version 1.0.



071087400

Front-Panel Menus

Press the Select key to select a setting		Press the arrow keys to scroll through settings		Asterisk on the display indicates the current menu setting	
MODE <input type="checkbox"/>		ENCODE DECODE BYPASS			
STATUS <input type="checkbox"/>					
	<ul style="list-style-type: none"> 1) AES RECEIVER 2) TIME CODE RECEIVER 3) SDI RECEIVER 4) SDI DESERIALIZER 5) WATERMARK SIGNAL 6) AUDIO DISPLAY 	<ul style="list-style-type: none"> a) No Errors, or one of the following: Validity Error CRC Error Parity Error Unlocked a) xx:xx:xx:xx (hours, minutes, seconds, and video frames (30 frames per second)) / No LTC Time Code a) Locked / Unlocked a) Locked / Unlocked b) 525 4:2:2 625 4:2:2 No Video c) TRS Not Present / TRS Present d) EDH Not Present / EDH Present a) H:15 V:23 G■ 525 H = Pixel offset for start of watermark signal V = TV line number for start of watermark signal (23 for 525-line, 24 for 625-line) G = Gain meter for watermark signal 525 or 625 = 525-line or 625-line video 	<ul style="list-style-type: none"> (Shows audio activity meter) 		
TEST <input type="checkbox"/>					
	<ul style="list-style-type: none"> 1) TOGGLE ON/OFF 2) ZONE PLATE 3) INITIATE TEST 4) FIRMWARE UPGRADE 	<ul style="list-style-type: none"> a) Encoder b) Audio Delay c) Zone Plate a) Level 1 – 8 a) LEDs b) Display Pixels a) Reboots Instrument 	<ul style="list-style-type: none"> On / Off On / Off On / Off Normal All Green All Yellow All Red (Press Select key) Escape or Reboot (Reboot opens the Boot menu) 		

CONFIG <input type="checkbox"/>																					
	<ul style="list-style-type: none"> 1) ENCODER 2) DECODER 3) REMOTE CONTROL 4) SERIAL PORT 5) NETWORK 6) ALL SETTINGS 	<ul style="list-style-type: none"> a) Source ID b) Modify Source ID c) Watermark Encode d) Set WM Intensity a) Delay Correction b) Correction Range c) Default Audio Delay d) Manual Delay e) On Loss of WM a) SNMP Access b) Community String c) Modify Community String d) Trap Address a) Baud Rate b) Flow Control a) Config Mode b) IP Address c) Subnet Mask d) Gateway e) Show DHCP Server f) Show MAC Address a) Save b) Restore 	<ul style="list-style-type: none"> Is: On / Off A – Z, 0 – 9, <sp> _ Is Always On If No WM Detected To WM Level 1, 2, or 3 Automatic or Manual ±0 – 30 Fields 0 – 120 Fields 0 – 150 Fields Hold Last Value; Decay To Default Read Only or Read + Write Is: (Shows name) A – Z, 0 – 9, <sp> _ Edit 0 – 9 300, 1200, 2400, 4800 9600, 19200, 38400 Software (Xon / Xoff) None 	<table border="1"> <thead> <tr> <th>Manual Mode</th> <th>DHCP Server</th> </tr> </thead> <tbody> <tr> <td>View or edit</td> <td>View only</td> </tr> <tr> <td>View or edit</td> <td>View only</td> </tr> <tr> <td>View or edit</td> <td>View only</td> </tr> <tr> <td>Not avail.</td> <td>View only</td> </tr> <tr> <td colspan="2">(Shows Ethernet MAC address)</td> </tr> <tr> <td colspan="2">Setup 1 – Setup 4</td> </tr> <tr> <td colspan="2">Setup 1 – Setup 4, Factory</td> </tr> </tbody> </table>	Manual Mode	DHCP Server	View or edit	View only	View or edit	View only	View or edit	View only	Not avail.	View only	(Shows Ethernet MAC address)		Setup 1 – Setup 4		Setup 1 – Setup 4, Factory		
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Boot Menu

(To access the Boot menu, use the Test menu, 4) Firmware Upgrade selection, or hold down a menu button when you apply power to the instrument.)

	<ul style="list-style-type: none"> 1) NETWORK 2) MAC ADDRESS 3) VERSIONS 4) UPDATE FIRMWARE 5) REBOOT 	<ul style="list-style-type: none"> a) Config Mode b) IP Address c) Subnet Mask d) Gateway a) Firmware X.X b) Hardware X.X c) Bootrom X.X Press ↵ to start Press ↵ to reboot 	<table border="1"> <thead> <tr> <th>Manual Mode</th> <th>DHCP Server</th> </tr> </thead> <tbody> <tr> <td>View or edit</td> <td>View only</td> </tr> <tr> <td>View of edit</td> <td>View only</td> </tr> <tr> <td>View or edit</td> <td>View only</td> </tr> <tr> <td colspan="2">(Shows MAC address)</td> </tr> <tr> <td colspan="2">(Shows firmware version number)</td> </tr> <tr> <td colspan="2">(Shows hardware version number)</td> </tr> <tr> <td colspan="2">(Shows Boot ROM version number)</td> </tr> <tr> <td colspan="2">(Performs firmware update, reboots instrument)</td> </tr> <tr> <td colspan="2">(Exits boot menu by rebooting instrument)</td> </tr> </tbody> </table>	Manual Mode	DHCP Server	View or edit	View only	View of edit	View only	View or edit	View only	(Shows MAC address)		(Shows firmware version number)		(Shows hardware version number)		(Shows Boot ROM version number)		(Performs firmware update, reboots instrument)		(Exits boot menu by rebooting instrument)		
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