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ST60-DVC VTR CONTROLLER

ST60-AG57 VTR CONTROLLER

USER MANUAL

Manual Version 2.1 122203
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1. REVISION HISTORY

122203 Rev. 2.1 Company header information revised.
Added DNF Controls Limited Warranty.

THE ST60-DVC VTR CONTROLLER

The ST60-DVC VTR Controller is ideal for Television Stations, Cable TV, Video Production, Video Post-production, Audio Post-production, Duplication Houses and Corporate Video Facilities.

STANDARD FUNCTIONS

RECORD	REWIND
PLAY	FAST FORWARD
STOP	EJECT

REAL-TIME STATUS INDICATORS (ACTIVE ON)

RECORD	REWIND/REVERSE
PLAY	FAST FORWARD/FORWARD
STOP/STILL	

2. INSTALLATION

- a. Set the VTR's Data transfer rate to 9600 baud, No Parity, 8 bits, 1 stop bit. Set ACK RETURN to off. See the DVCPRO User's Manual.
- b. Plug the 9-pin connector end of an RS232 serial cable in to the 9-pin female connector on the rear of the ST60. Plug the 25-pin connector end of the same cable into the 25-pin female "RS232-C" remote connector on the rear of the VTR. See wiring information below.
- c. Plug the POWER SUPPLY's 9-pin connector into the 9-pin male connector "POWER" on the rear of the ST60. Plug the other end of the POWER SUPPLY into 90 VAC to 265 VAC.
- d. Select REMOTE operation on the VTR's front panel.
- e. Set the RECORD SELECTOR SWITCHES, located on the rear panel of the S60, to the desired record mode per the "RECORD SELECTOR CHART."
- f. Set Dip Switch #6, on the rear panel, as follows:
ON AJ-D230, AG-5710
OFF AJ-D750, AJ-D640, & all others

Installation is completed.

3. OPERATION

Select the desired transport function by pressing the appropriate switch on the front of the ST60.

The Real-Time Status Indicators will light to indicate the VTR's current tape transport mode.

For example - Pressing [**PLAY**] will put the VTR into the PLAY mode. PLAY Status Indicator will light when the VTR is in PLAY mode.

The real-time Tape Counter is displayed on the LCD Display.

Loss of serial communication with the VTR is indicated by ALL Status LEDs turned ON.

4. RECORD MODE

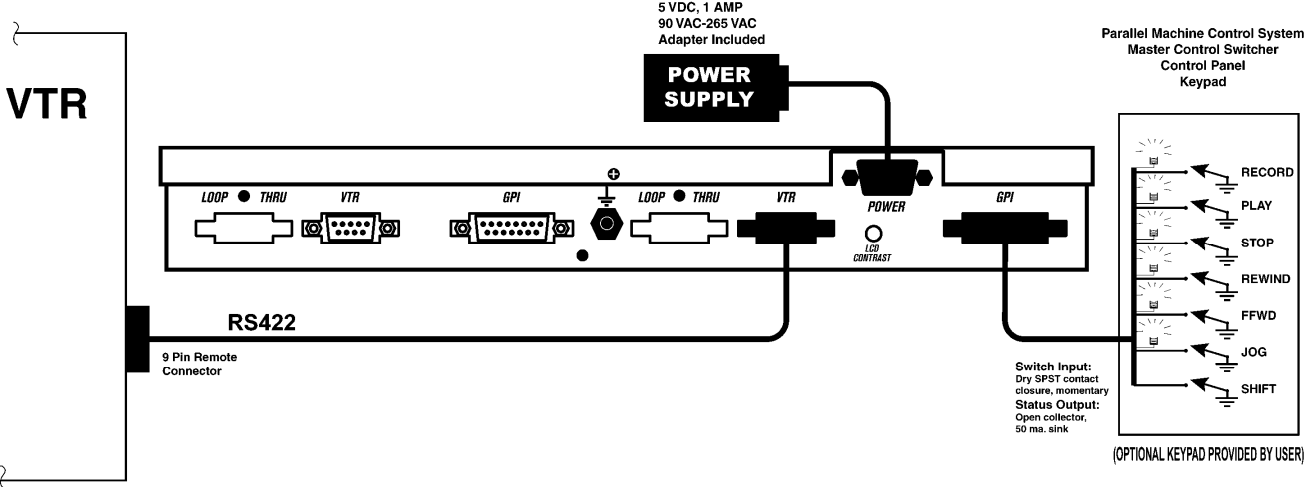
Two (2) Record modes are available: Crash Record (Full Record), and Record Lockout. Press only the [**RECORD**] switch to activate the selected Record mode. The Record Status Indicator will turn on when the VTR begins recording.

NOTE: The VTR will not go into Record mode if "Record Inhibit" is enabled on the VTR or tape cassette.

5. RECORD SELECTOR SWITCHES

<u>Mode</u>	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>S4</u>	<u>S5</u>	<u>S6</u>
Record Lockout	OFF	OFF	OFF	OFF	OFF	OFF
Full Record	OFF	ON	OFF	OFF	OFF	OFF

Connection Diagram



6. SPECIFICATIONS

Front Panel:

6-Status LEDs	Record, Play, Stop, Rewind, Fast Forward
1 Power LED	
Size	7" x 5" x 1-1/2", female
Weight	2 lbs.

Rear Panel:

RS 422 Serial Output	9-Pin D-type connector, female (DB9F)
Power	9VDC, 500 mA, 100-265 VAC 50/60 Hz.
Record Selector	6-pole dip switch
Keypad Interface:	15-Pin D-type connector, Female (DB15F) Switch Input - dry SPST momentary contact closure.

POWER SUPPLY CONNECTOR

9-Pin D-Type, Male (DB9M)

Pin#	1	+5Vdc	Pin#	6	+5Vdc
	2	+5Vdc		7	Ground
	3	Ground		8	Ground
	4			9	Ground
	5				

ST60 GPI In/Out CONNECTOR
15-Pin D-Type, Female (DB15F)

<u>PIN</u>	<u>FUNCTION</u>	
1	+5v DC	
2	SHIFT Switch, Active Low	
3	Record Tally	Active Low, Open-Collector
4	Play Tally	Active Low, Open-Collector
5	Stop/Still Tally	Active Low, Open-Collector
6	Rewind/ Reverse Tally	Active Low, Open-Collector
7	Fast Forward/ Forward Tally	Active Low, Open-Collector
8	No Connection	
9	Command Common	
10	Record Command	Active Low
11	Play Command	Active Low
12	Stop Command	Active Low
13	Rewind Command	Active Low
14	Fast Forward Command	Active Low
15	No Connection	

NOTE: There are no internal current limiting resistors for the open- collector, status indicator drives. A 62-ohm resistor in series with the +9 volt D.C. power supply is recommended for LEDs. Limit lamp current to 50 ma. at 9 volts D.C.

VTR Connector, RS232 Serial Interface
9-Pin D-Type, Female (DB9F)

Pin #	1	Not Used
	2	Receive Data
	3	Transmit Data
	4	Not Used
	5	Ground
	6	Not Used
	7	Not Used
	8	Not Used
	9	Not Used

DVCPRO VTR
25-Pin D-Type, Female (DB25F)

1	Not Used
2	Receive Data
3	Transmit Data
4	Not Used
5	Ground
6	Not Used
7	Signal Ground
8-25	Not Used

AG5710 VTR
25-Pin D-Type, Female (DB25F)

1	Not Used
2	Receive Data
3	Transmit Data
4	RTS
5	CTS
6	DTR
7	Signal Ground
8	Not Used
9	Not Used
10	Not Used
11	Not Used
12	Not Used
13	Not Used
14	Not Used
15	Not Used
16	Not Used
17	Not Used
18	Not Used
19	Not Used
20	DSR
21	Not Used
22	Not Used
23	Not Used
24	Not Used
25	Not Used

You must wire the 25-pin connector at the VTR as follows:

- Jumper Pins 4 and 5 together.
- Jumper Pins 6 and 20 together.

7. DNF CONTROLS LIMITED WARRANTY

DNF Controls warrants its product to be free from defects in material and workmanship for a period of one (1) year from the date of sale to the original purchaser from DNF Controls.

In order to enforce the rights under this warranty, the customer must first contact DNF's Customer Support Department to afford the opportunity of identifying and fixing the problem without sending the unit in for repair. If DNF's Customer Support Department cannot fix the problem, the customer will be issued a Returned Merchandise Authorization number (RMA). The customer will then ship the defective product prepaid to DNF Controls with the RMA number clearly indicated on the customer's shipping document. The merchandise is to be shipped to:

DNF Controls
12843 Foothill Blvd., Suite C
Sylmar, CA 91342
USA

Failure to obtain a proper RMA number prior to returning the product may result in the return not being accepted, or in a charge for the required repair.

DNF Controls, at its option, will repair or replace the defective unit. DNF Controls will return the unit prepaid to the customer. The method of shipment is at the discretion of DNF Controls, principally UPS Ground for shipments within the United States of America. Shipments to international customers will be sent via air. Should a customer require the product to be returned in a more expeditious manner, the return shipment will be billed to their freight account.

This warranty will be considered null and void if accident, misuse, abuse, improper line voltage, fire, water, lightning or other acts of God damaged the product. All repair parts are to be supplied by DNF Controls, either directly or through its authorized dealer network. Similarly, any repair work not performed by either DNF Controls or its authorized dealer may void the warranty.

After the warranty period has expired, DNF Controls offers repair services at prices listed in the DNF Controls Price List. DNF Controls reserves the right to refuse repair of any unit outside the warranty period that is deemed non-repairable.

DNF Controls shall not be liable for direct, indirect, incidental, consequential or other types of damage resulting from the use of the product.

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