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Model No. ST300-EVS and ST300-EVS-T

SLOW MOTION CONTROLLER

USER MANUAL

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1. **REVISION HISTORY**

020203 1.0	Original document
043003 1.1	Changed key layout.
123003 1.2	Company header information revised. Updated Transmit Cue List Function and Receive Cue List Function descriptions. Added DNF Controls Limited Warranty.
060204 1.3	Corrected T-bar size, SPECIFICATIONS.
081205 1.4	Updated Out key functionality. Added guard band description. Updated to reflect software changes.

Getting Started . . .

2. SYSTEM DESCRIPTION

The ST300-EVS Slow Motion Controller combines the power of the ST300 Slow Motion Controller with the power of the EVS maXS DDR.

In the ST300 Setup Menu, turn EVS MODE off to access standard ST300 Slow Motion functions. Turn EVS MODE on to access the following EVS maXS functions:

Simultaneous Record and Playback.

Mark and save clips in the EVS Page, Bank, and Clip Number of your choice.

Recall Clips for playback from the EVS Page, Bank and Clip Number of your choice.

Press RECORD to go to live video, view record train.

DEFINITIONS

- □ Throughout this document VTR, DDR, VDR & Video Server will be referred to collectively as "VTR."
- $\Box \quad \text{The ST300-EVS as the ST300.}$
- □ Words surrounded by brackets, for example, [ENTER], are keys on the ST300.
- □ Words surrounded by curly brackets, for example *{BACK}*, are softkeys on the ST300.
- □ [XXX] + [XXX] means hold the two keys down simultaneously.

3. INSTALLATION

Select a. OR b. below.

a. EVS MODE OFF

- 1) Plug one end of a 9-conductor, RS422 serial cable into the VTR1, VTR2, VTR3, OR VTR4 connector on the rear of the SLOW MOTION CONTROLLER. Plug the other end of the cable into the 9-pin REMOTE connector on the VTR.
- Connect the supplied POWER SUPPLY, APX#4108, into the POWER connector on the rear of the ST300. Plug the Power Supply into an outlet, 90 VAC – 240 VAC.
- 3) Select REMOTE mode on the VTR's front panel.
- 4) Check the **SETUP MENU** prior to using the Slow Motion Controller to confirm proper Record mode, SLO-MO speed range, and other User settable modes.

OR

b. EVS MODE ON and EVS maXS SETUP

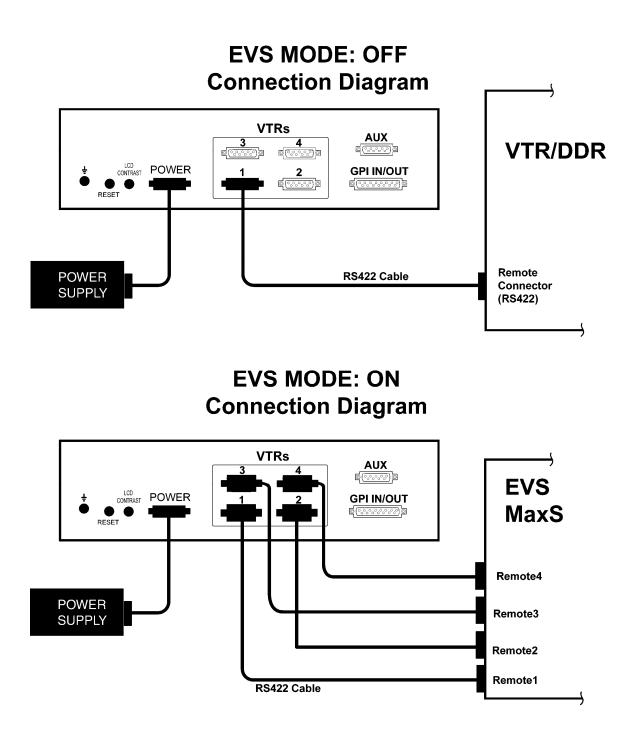
1) EVS MODE ON

- a) Connect VTR1 connector on the back of the ST300 to the REMOTE1 connector on the back of the maXS DDR using a standard RS422 serial cable.
- b) Connect VTR2 connector on the back of the ST300 to the REMOTE2 connector on the back of the maXS DDR using a standard RS422 serial cable.
- c) Connect VTR3 connector on the back of the ST300 to the REMOTE3 connector on the back of the maXS DDR using a standard RS422 serial cable.
- d) Connect VTR4 connector on the back of the ST300 to the REMOTE4 connector on the back of the maXS DDR using a standard RS422 serial cable.

2) EVS maXS SETUP

- a) Select "1 maXS BVW-75" from the Application List.
- b) Press F8 to go into Audo Video Channel Parameters setup.
- c) Select "SONY-DD35 Slave" Base config.
- d) Press F3 to go to Advanced config. setup.
- e) Select "DD35" control for channels 1 and 2.
- f) Select "SONY" control for channels 3 and 4.
- g) Press ALT + Q to exit setup.
- h) Press ENTER to start EVS.

ST300-EVS & ST300-EVS-T, Slow Motion Controller



4. **OPERATION**

a. LCD DISPLAY

During normal operation, the top row of the display shows the selected time mode and current time location of the selected VTR.

For example: TM 01:12:09:23

Time Modes: TM= Tape Timer TC= LTC VT= VITC

The currently selected SLO-MO speed is displayed on the far right side of the top row.

The bottom row of the display shows the current Cue Point number and its contents.

b. TRANSPORT CONTROL

settable modes.

Select the desired transport function by pressing the appropriate switch on the SLOW MOTION CONTROLLER.

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

For example:	Pressing [PLAY] will put the VTR into the PLAY mode. The PLAY Status Indicator will turn on when the VTR is in PLAY mode. Press [RECORD] . OR
	Press [RECORD] + [PLAY] to put the VTR into Record mode (see SETUP MENU).
NOTE:	The VTR will not go into Record mode if "Record Inhibit" is enabled on the VTR or tape cassette.
	Check SETUP MENU prior to using the SLOW MOTION CONTROLLER to confirm proper Record mode and other User

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c. CUE POINTS

1) Select a Cue Point

Press [NEXT CUE] or [LAST CUE] to step through the Cue Points. OR

Manually enter the desired Cue Point number using the numeric keypad.

The current Cue Point number and its contents will be shown on the second line of the display.

2) Mark/Enter/Edit a Cue Point

Press [MARK] to mark the VTR's time into the Cue Point. OR

Press **[ENTER TIME]** to use the numeric keypad. The ENTER TIME indicator will turn on.

Manually enter a time on the numeric keypad. Press **[ENTER]** to save the entered time. **OR**

Press [ESC] to exit without saving. The ENTER TIME indicator will turn off.

3) Goto/Preroll to a Cue Point

- a) Select the desired Cue Point. The Cue number and its contents are shown on the bottom line of the display.
- b) Press [GOTO] to search to the Cue Point; the GOTO indicator will turn on. When the VTR reaches the Cue Point time, the GOTO indicator will turn off.
 OR

Press **[PREROLL]** to preroll to the Cue Point. The PREROLL indicator will turn on.

When the VTR reaches the Cue Point time, the PREROLL indicator will turn off.

d. GOTO/PREROLL TO A MANUALLY ENTERED TIME

1) Press **[ENTER TIME]** to use the numeric keypad.

Manually enter a time on the numeric keypad.

2) Press [GOTO] or [PREROLL] to search to the entered time. OR

> Press **[ESC]** to exit without searching. The ENTER TIME indicator will turn off.

e. **RECORD MODE SELECTION**

- 1) Press [MENU]. The MENU indicator will turn on.
- 2) Turn the Wheel until "REC" is viewed on the top line of the display. The current Record mode is shown.
- 3) Press [MENU] to select:
 Record Lockout, Assemble, Crash or Insert Record mode.
- 4) INSERT ONLY Press the desired Softkey to toggle Video, Audio1, Audio2, Audio3 or Audio4 record on/off.

The **Softkeys** are located just below the display. Follow the line graphic from the bottom of the display to the Softkey.

5) Press [ESC] to exit the MENU. The MENU indicator will turn off. OR

Turn the Wheel for other setup options.

5. EVS FUNCTIONS

a. SELECT EVS MODE

- 1) Press [MENU] key.
- 2) Turn the wheel until the display says "EVS MODE:"
- 3) Press *{ON}* softkey to turn EVS mode ON. When EVS mode is ON, special EVS functions are enabled. When EVS mode is OFF the controller behaves as a standard ST300 VTR controller.
- 4) Press **[ESC]** key to exit menu.

b. START RECORD

- 1) Press [SHIFT] + [REC] on VTR1 to start recording on Record channel 1 of the EVS.
- 2) The Record LED turns ON.
- 3) Press [SHIFT] + [REC] on VTR2 to start recording on Record channel 2 of the EVS.
- 4) The Record LED turns ON.

c. STOP RECORD

- 1) Press **[SHIFT]** + **[STOP]** on VTR1 to stop recording on Record channel 1 of the EVS.
- 2) The Record LED turns OFF.
- 3) Press **[SHIFT]** + **[STOP]** on VTR2 to stop recording on Record channel 2 of the EVS.
- 4) The Record LED turns OFF.

d. GO TO EE (LOAD TRAIN CLIP)

Press [REC] key to go to Live video on the corresponding Playback Channel.

e. SELECT CLIP PAGE

Press [EE/PAGE], then select page by pressing Keypad key [0] - [9].

f. CREATE A CLIP

Select a Page and enter a Cuepoint number of a clip you wish to load.
 OR

Use [LAST CUE], [NEXT CUE] to select a desired Cuepoint.

- 2) Press [MARK] key to mark a cuepoint and save the IN point of the clip.
- 3) Press [OUT] key to save the OUT point of the clip and create a clip with the same name as a cuepoint number on a corresponding channel. If an OUT point is marked with a previously marked IN point, the OUT point will be displayed and the OUT LED will be illuminated. When an IN point is then selected with the [MARK] key, a clip will be created with the corresponding IN and OUT point.

NOTE: "xxxA" clips are created on VTR1, "xxxB" clips are created on VTR2.

For Example:

- a) Select VTR1
- b) Mark Cuepoint 123 with time 15:23:44:10
- c) Press OUT at TC = 15:24:15:00
- d) The clip "123A" is created with IN point = 15:23:44:10 and OUT point = 15:24:15:00

Another Example:

- a) Select VTR1
- b) Select Cuepoint 124
- c) Press OUT at TC = 15:24:20:00
- d) Press MARK at TC = 15:24:19:00
- e) The clip "124A" is created with IN point = 15:24:19:00 and OUT point = 15:24:20:00

g. LOAD A CLIP

Select a Page and enter a Cuepoint number of a clip you wish to load.
 OR

Use [LAST CUE], [NEXT CUE] to select a desired Cuepoint.

Press [SHIFT] + [GOTO] to load a corresponding clip on a corresponding channel.
 NOTE: "xxxA" clips are loaded on VTR1, "xxxB" clips are loaded on VTR2.

Advanced Features . . .

6. TRANSFER CUELIST

a. TRANSMIT CUE LIST FUNCTION

The TRANSMIT CUE LIST function allows you to transmit your list of Cue Points to a PC, using the provided utility software on the PC, or to another ST300. Transfer to a PC requires OpSuite 3.0 software, which runs on a Windows-based computer. Contact DNF Controls for more information.

1) To Transmit Cue Points to Another ST300

- a) Connect the VTR4 connector on the rear of the ST300 to the VTR4 connector of the receiving ST300 using an RS422 9-pin cable with TX and RX lines crossed. (A "turnaround" cable.)
- b) Press [MENU].
- c) Scroll the Wheel until "Transmit CUE list? YES=Enter, Exit=ESC" is displayed.
- d) Press **[ENTER]** to start transmitting. The Display shows "Waiting to transmit" on the first line.
- e) When the Receiver is ready, transfer starts automatically. The Display now shows "Transmitting cuelist."
- f) After the transfer is over, the display shows "Transfer is over" for one second and then shows "Waiting to transmit" again.
- g) Connect another ST300 to transmit the list again. **OR**

Press [ESC] twice to exit the MENU mode.

2) To Transmit Cue Points to a PC

- a) Connect the VTR4 connector on the back of the ST300 to one of the COM ports on the PC using a RS422 to RS232 adapter.
- b) Repeat steps a) thru g) of "**To Transmit Cue Points to Another ST300**," Section 6.a.1).

b. RECEIVE CUE LIST FUNCTION

The RECEIVE CUE LIST function allows you to receive a list of Cue Points from a PC or from another ST300. Transfer to a PC requires OpSuite 3.0 software, which runs on a Windows-based computer. Contact DNF Controls for more information.

1) To Receive Cue Points From Another ST300

- a) Connect the VTR4 connector on the back of the ST300 from the VTR4 connector of the transmitting ST300 using RS422 9-pin cable with TX and RX lines crossed.
 (A "Turnaround" Cable)
- b) Press [MENU].
- c) Scroll the Wheel until "Receive CUE List? YES=Enter, Exit=ESC" is displayed.
- d) Press [ENTER] to start receiving. The Display shows "Waiting to receive" on the first line.
- e) When the Transmitter is ready, transfer starts automatically. The Display now shows "Receiving cuelist."
- f) After the transfer is over the display shows "Done-Success! Press any key..."
- g) Press any key. The display shows "Receive cuelist?" message.
- h) Press **[ESC]** to exit the MENU mode.

2) To Receive Cue Points from the PC

- a) Connect the VTR4 connector on the back of the ST300 to one of the COM ports on the PC using RS422 to RS232 adapter.
- b) Repeat steps a) thru h) of "**To Receive Cue Points From Another ST300**," Section 6.b.1).

Reference ...

7. SETUP MENU

- **D** Press [MENU]. The MENU indicator will turn on. Turn the Wheel to select item to change.
- □ Use the Softkeys to change the desired mode for that option. Turn the Wheel at anytime to select another item.
- □ Press [ESC] at anytime to exit SETUP MENU. The MENU indicator will turn off.

MENU MODES	(Turning Wheel Clockwise)			
RECORD	Press [MENU] to select the desired record mode: Lockout, Assemble, Crash (Full) or Insert.			
	Only in INSERT mode: Press the associated Softkey, located below the display, to toggle Video(V), Audio1(A1), Audio2(A2), Audio3(A3), Audio4(A4) on/off.			
MARK-Q	Press Softkey to: Enable <i>{ADVANCE}</i> to next Cue Point, when [MARK] is pressed. OR Maintain <i>{CURRENT}</i> Cue Point when [MARK] is pressed.			
EVS MODE	Press Softkey to select: EVS MODE <i>{OFF}</i> ST300 works like the standard ST300 and does not use EVS maXS functions.			
	EVS MODE {ON}ST300 uses EVS maXS functions. Connect ST300 to EVS maXS using EVS MODE ON Connection Diagram.			
WIND MODE	Press Softkey to select: {HOLD} (Fast wind is maintained only while key is pressed.) OR {LATCH} (Fast wind is initiated and maintained with momentary key press.)			
	Select fast wind speed (3.9 to 23.7) by pressing Softkey below <i>{SPD}</i> .			

SLOMO				1	
	ST300 display shows	SLOMO	with:	TBAR	
	(T-Bar version):	Wheel	Speed	Preset	
		SLOMO	with	WHEEL	
	ST300 display shows (Non T-Bar version):				
	(Iton I Dai version).	SpdRang	ge	Preset	
Press Softkey <i>{TBAR}</i> (or <i>{WHEEL}</i>) to toggle between T-BAR and WHEE					VHEEL.
	The T-BAR has two speed ranges: $\{0 \rightarrow +200\}$ with a detent at +100 % play speed OR $\{0 \rightarrow +100\}$ with a detent at +100%				
	For Wheel <u>only:</u> Press Softkey <i>{SPEED}</i> to see	-			
	Press Softkey to select: $\{0 \rightarrow +200\}$ OR $\{-100 \rightarrow +200\}$. Press Softkey $\{BACK\}$ to return to SLOMO MENU.				
	Press [ESC] to exit SETUP MENU OR turn the Wheel to select another item.				
	For Wheel <u>only:</u> Press Softkey <i>{PRSET}</i> to select the SLOMO Preset Speed Mode.				
	Press Softkey <i>{UPDATE}</i> . When exiting SLOMO mode, the last used speed is saved in the Preset Speed register.				
	Press Softkey <i>{STATIC}</i> . The Preset Speed register is NOT updated when exiting SLOMO mode. It is only changed by [SHIFT] + [SLOMO] (PRESET SLOMO).				
TBAR AUTOENABLE	Press Softkey <i>{ON}</i> to enable	e slomo to be	e engaged by 1	moving the TBA	R.
WHEEL AUTOENABLE	Press Softkey <i>{JOG}</i> or <i>{SHI</i> Wheel.	UTTLE} to e	enable that fur	nction to be enga	ged by turning the
GANG MODE	Press Softkey to select {PER { TEMPORARY } GANG.	MANENT}	GANG (descr	ibed in the FUN	CTION Table) or
	In TEMPORARY mode, pre- then press the VTR#s of thos keys. The LED on the monit constantly. To break the tem	e VTRs that cored VTR b	t you want to i links, all other	nclude in the gau r VTRs in the ga	ng. Release the

ST300 SETUP						
51500 SETUP	ST300 SETUP					
	Clear Cues SetDefault					
	Press Softkey beneath ClearCues to clear all Cue Points to 00:00:00:00. Press Softkey <i>{YES}</i> when asked "Are You Sure?"					
	Press Softkey beneath SetDefault to set ST300 to default settings. Press Softkey <i>{YES}</i> when asked "Are You Sure?"					
DISPLAY SOFTWARE VERSION	The version number for the currently installed software is displayed.					
DROP FRAME	Press Softkey to select DROP FRAME <i>{ON}</i> or <i>{OFF}</i> . Used to preset the VTR's Timecode Generator.					
RECORD	Press Softkey to select single button or 2-button record. $RECORD = \{REC\} \text{ Only}$ OR $RECORD = \{REC\} + \{PLAY\}$					
FREEZE	Press Softkey to enable or disable FREEZE at Record Outpoint. Changing mode automatically clears FREEZE point.					
GUARD BAND	Using the keypad, enter a value between $0 - 30$ seconds. Used to specify the amount of video to include in a created clip before the IN point and after the OUT point.					
VIDEO STANDARD	Press softkey to select: {NYSC}, {PAL} OR {24P}.					
TRANSMIT CUELIST	Transmits Cuelist to another ST300 or to a PC.					
RECEIVE CUELIST	Receives Cuelist from another ST300 or a PC.					

8. FUNCTION TABLE

Function	Key Press	Description
EJECT TAPE	[SHIFT] + [REWIND]	Eject tape from VTR.
ENTER TIME	[ENTER TIME]	 To manually enter timecode number into the currently displayed Cue Point, enter the desired timecode number using the numeric keypad. Press [ENTER] to save your entry OR [ESC] to exit without saving. To enter a GOTO location without altering the contents of the Cue Point, enter the desired timecode number using the numeric keypad. Press [GOTO] to search to the entered time. Press [ESC] to exit without searching.
EVS CREATE CLIP		 Press OUT to mark an OUT point and create a clip using the currently selected cue point as the IN point. (The 2nd line of the display shows the currently selected cue point.) Alternatively, press OUT to mark an OUT point and then MARK to select an IN point to create a clip using the selected IN and OUT points. (While OUT point is active, the 2nd line of the display shows the OUT point and the OUT LED is
		illuminated.)
DISPLAY OUT POINT	[SHIFT] + [OUT]	Press [SHIFT] + [OUT] to display the OUT point on the second line of the display.
DELETE OUT POINT	[DEL] + [OUT]	Press [DEL] + [OUT] to delete the OUT point.
EVS GOTO EE	[REC]	Press [REC] to view live video, record train.
EVS LOAD CLIP	[SHIFT] + [GOTO]	Press [SHIFT] + [GOTO] to load the clip number that matches the cue point number shown on the 2^{nd} line of the ST300's display.
EVS SELECT CLIP PAGE	[EE/PAGE]	Press to select EVS Page (0-9).
EVS START RECORD	[SHIFT] + [RECORD]	Press [SHIFT] + [RECORD] to start recording on selected record channel.
EVS STOP RECORD	[SHIFT] + [STOP]	Press [SHIFT] + [STOP] to stop recording on the selected record channel.
FFWD	[FFWD]	Press and HOLD to FFWD. Release key to stop. Set WIND Speed in MENU.
FREEZE ENABLE	[FREEZE]	Toggles the Freeze on/off. When the light is ON, the Freeze is enabled. When the light is OFF, the freeze is disabled. NOTE : This is <u>NOT</u> a REC OUT freeze, it <u>IS</u> a user defined Freeze.

Function	Key Press	Description
FREEZE	[SHIFT] + [FREEZE] (Active in SLO-MO only).	To enter or mark the Freeze time, press [SHIFT] + [FREEZE] . The display shows the current freeze time. You can enter the Freeze time using the numeric keypad or MARK the current time into the Freeze time by pressing [MARK] .
FREEZE ON LAST GOOD VIDEO	Active in SLO-MO only.	In SLO-MO mode, STILL frame the VTR when the current timecode is within 6 frames of the last Record Out point (memorized automatically upon exiting Record mode). Enable, disable or clear the FREEZE point from SETUP MENU. See FREEZE ENABLE.
GOTO CUE or ENTERED TIME	[GOTO]	Search the VTR to the contents of the currently displayed Cue Point. If ENTER TIME is active (LED is on), search the VTR to the entered time. If OUT point is currently displayed, search the VTR to the OUT point. To enter a GOTO location without altering the contents of the
		Cue Point, Press [ENTER TIME]. Enter the desired timecode number using the numeric keypad. Press [GOTO] to search to the entered time. Press [ESC] to exit without searching.
GANG	[SHIFT] + [VTR#1] OR [SHIFT] + [VTR#2] OR [SHIFT] + [VTR#3] OR [SHIFT] + [VTR#4]	Individually press the VTR keys to be included in the gang; the LED above the key will turn on. Press the VTR key again to remove from gang; the LED above the key will turn off. Press [ESC] to exit. The VTR LEDs that are on show the gang. The flashing LED shows which VTR is currently selected.
GO TO FREEZE POINT	[SHIFT] + [GOTO] (EVS MODE = OFF)	Search VTR to FREEZE point (last Record Out point).
JOG	[JOG]	Select JOG mode and enable the Wheel.
LAST CUE	[LAST CUE]	Step to the previous Cue Point Location.
MARK CUE POINT	[MARK] (EVS MODE = OFF OR ON)	Save the current time in the currently displayed Cue Point. Per SETUP MENU, the Cue Point Location will advance to the next Cue Point location or remain the same.
MARK IN POINT	[MARK] (EVS MODE = ON)	If pressed after an out point has been marked, will mark IN point and completes the "create clip" process, and if it was marked before the OUT point (by moving the clip to a point before the out time).
MARK OUT POINT	[OUT] (EVS MODE = ON)	Press to mark the time currently on the display as the OUT point and completes the "create clip" process.
NEXT CUE	[NEXT CUE]	Step to the next Cue Point Location.
PREROLL	[PREROLL]	Preroll the VTR to the contents of the currently displayed Cue Point.
PREROLL VALUE	[SHIFT] + [PREROLL]	Enter desired Preroll Value. Press [ENTER] to save entry OR press [ESC] to exit without saving entry.

RECORD	[REC] or [REC] + [PLAY] (EVS MODE = OFF)	Places VTR in the Record mode selected by RECORD MODE in the SETUP MENU.
REVERSE PLAY	[REV]	For T-BAR ONLY – HOLD key to play video in reverse. RELEASE key to play forward.
REWIND	[RWD]	Press and HOLD to rewind. Release key to stop. Set WIND Speed in MENU.
SHUTTLE	[SHUTTLE]	Select SHUTTLE mode and enable the Wheel.
SLOMO	[SLOMO]	Press SLOMO to slo-mo the VTR. Turn the Wheel or move the T-Bar to change the play speed. Press SLOMO to STILL frame OR press any transport key to
		exit.
SLO-MO SPEED PRESET	[SHIFT] + [SLOMO]	For WHEEL ONLY - to preset the slo-mo speed. Turn the Wheel to select desired speed. Press [ESC] OR any transport key to exit.
STOP	[STOP]	Press once to STILL frame VTR. Press again to put VTR into STOP mode.
TIME MODE SELECT	[TIME MODE]	Press to toggle between Timecode (TC), VITC (VT) or Tape Timer (TM) display modes.
TIME PRESET (Generator Preset)	[SHIFT] + [TIME MODE]	Press to enter Time Preset. Press [ENTER] to load Time Generator with 00:00:00:00. OR enter the time desired via the numeric keypad and press [ENTER] to load that time. OR press [ESC] to exit without saving.

9. SPECIFICATIONS

Power:	90 VAC to 265 VAC adapter supplied with IEC connector
Size:	(L" x W" x H") 12" x 6" x 1.5" (front) 3.0" (rear) (T-Bar unit is 12.6" long)
Weight:	4 lbs.
Rear Panel Connectors:	VTR1, VTR2, VTR3, VTR4 (All DB9F) GPI(DBF15F) Power(DB9M) Aux(DB9F) Reference Video(BNC)
Display:	Easy to read 2-line, back-lit LCD display (User adjustable contrast)
Jog/Shuttle Wheel	With mechanical detents
Optional "T"-bar	Slo-mo 0-200% of Play Speed

RS422 SERIAL CONNECTOR 9-Pin D-Type, Female (DB9F)

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F
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ınd

POWER CONNECTOR 9-Pin D-Type, Male (DB9M)

Pin #	1	+5v DC	6	+5 VDC
	2	+5v DC	7	Ground
	3	Ground	8	Ground
	4	+12 VDC	9	Ground
	5	-12 VDC		

AUX PORT RS422 SERIAL CONNECTOR 9-Pin D-Type, Female

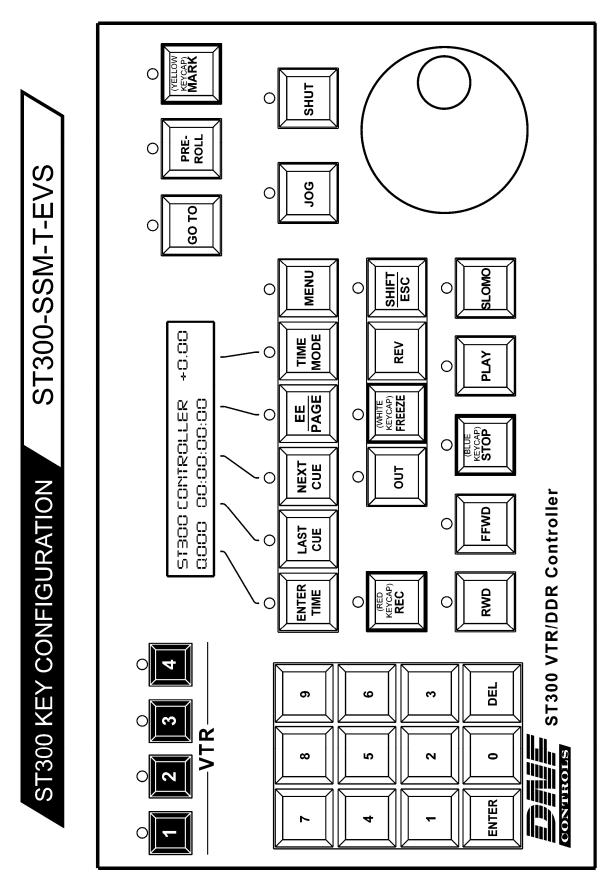
Pin #	1	Frame Ground	6	Transmit Common
	2	Receive A 🗲	7	Receive B 🗲
	3	Transmit B 🗲	8	Transmit A 🗲
	4	Receive Common	9	Frame Ground

5 Spare

GPI IN/OUT CONNECTOR 15-Pin D-Type, Female (DB15F)

Pin #	Description	Function	Pin #	Description	Function
1	GPI 1 Out	PLAY tally out	9	GPI 1 In	PLAY
2	GPI 2 Out	STILL/STOP tally out	10	GPI 2 In	STOP
3	GPI 3 Out	RECORD tally out	11	GPI 3 In	RECORD
4	GPI 4 Out	REWIND tally out	12	GPI 4 In	REWIND
5	GPI 5 Out	FFWD tally out	13	GPI 5 In	FFWD
6	GPI 6 Out	SLOMO tally out	14	GPI 6 In	SLOMO
7	GPI 7 Out	-	15	GPI 7 In	STILL
8	Ground				

10. KEY LAYOUT



ST300-EVS & ST300-EVS-T, Slow Motion Controller

11. 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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