

# Enhanced Sony VTR Emulation Commands

Applicable to Abekas 6000 Main Software:

**VERSION 2.1.0** OR HIGHER

6 April, 2001



## Background

The following is a list of commands an Abekas 6000 receives from an external controller, such as an Editor, to emulate SONY VTR control.

**Commands shaded in gray in the tables below are specific and unique to the Abekas 6000 Server.**

If not specified, the Abekas 6000 returns the following messages depending on whether the Abekas 6000 accepts (ACK) or rejects (NAK) the command:

ACK 10 01

NAK 11 12 **XX**

Where "**XX**" is an error, as specified below:

	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
	TIMEOUT					CHECKSUM		UNDEFINED COMMAND

TABLE-1		Enhanced Sony VTR Emulation Commands	
COMMAND		RETURN	NOTES
00-11	DEVICE TYPE REQUEST	12 11 20 25 (Sony VTR) 12 11 D8 00 (Generic DDR) 12 11 D8 A6 (Abekas 6000)	See NOTE-1
20-00	STOP	ACK	
20-01	PLAY	ACK	
20-02	RECORD	ACK	
20-10	F.FWD	ACK	
2X-11	JOG FWD	ACK	
2X-12	VAR FWD	ACK	
2X-13	SHUTTLE FWD	ACK	
20-14	JOG FWD 1 FRAME	ACK	
21-14 <b>nn</b>	JOG FWD <b>nn</b> FIELDS	ACK	
20-24	JOG REV 1 FRAME	ACK	
21-24 <b>nn</b>	JOG REV <b>nn</b> FIELDS	ACK	
20-20	REWIND	ACK	
2X-21	JOG REV	ACK	
2X-22	VAR REV	ACK	
2X-23	SHUTTLE REV	ACK	
24-31	CUE UP WITH DATA	ACK	
21-38	PROGRAM PLAY +	ACK	
21-39	PROGRAM PLAY —	ACK	
20-60	FULL EE OFF	ACK	
20-61	FULL EE ON	ACK	
20-63	SELECTED EE ON	ACK	
20-64	EDIT OFF	ACK	
20-65	EDIT ON	ACK	
4X-30	EDIT PRESET	ACK	

**NOTE-1** The last two return bytes specify the device. Set the device type in the Abekas 6000 "REMOTE SETUP" Menu.

TABLE-1		Enhanced Sony VTR Emulation Commands (Continued)		
COMMAND		RETURN	NOTES	
54-01	XX XX XX XX LSB (CLIPID) MSB	CUE CLIP ID	ACK	
50-02		PREVIOUS CLIPID	ACK	
50-03		NEXT CLIPID	ACK	
51-04-00		LOOP OFF	ACK	
51-04-01		LOOP ON	ACK	
51-04-02		LOOP PING-PONG	ACK	
51-04-03		LOOP TO	ACK	
51-04-04		LOOP PING-PONG TO	ACK	
51-04-05		LOOP AUTO	ACK	
5A-05	GOAT (Go At) XX XX XX XX XX XX XX XX		ACK	See NOTE-2
51-09-00		FLD MODE — AUTO	ACK	
51-09-01		FLD MODE — FRAME	ACK	
51-09-02		FLD MODE — FIELD	ACK	
51-09-03		FLD MODE — FIELD INTERP	ACK	
58-0A	RECORD ALLOCATE AND CUE XX XX XX XX FF SS MM HH LSB (BINARY CLIPID) MSB (LENGTH TIMECODE)		WILL NOT SHOW "CUED" STATUS IF CLIP ID ALREADY EXISTS	

**NOTE-2** Format for 5A-05 GoAt Command:

Search TC Fields		Fractional Fields		Speed *	
LSB	MSB	LSB	MSB	LSB	MSB
XX	XX	XX	XX	XX	XX

\* Speed: +100%    00 01 00 00    (1X Play Forward)  
 -100%    00 00 FF FF    (1X Play Reverse)

TABLE-1		Enhanced Sony VTR Emulation Commands (Continued)		
COMMAND		RETURN		NOTES
61-0C	CURRENT TIME SENSE	74-04	LTC TIME DATA	
60-10	IN DATA SENSE	74-10	IN DATA	
60-11	OUT DATA SENSE	74-11	OUT DATA	
60-12	A IN DATA SENSE	74-12	AIN DATA	
60-12	A OUT DATA SENSE	74-13	A OUT DATA	
61-20	STATUS SENSE	7X-20	STATUS DATA	See NOTE-3
60-2B	CLIP LENGTH REQUEST (FOR CLIP ON CHANNEL)	76-2B	XX XX XX XX 00 00 Where "XX XX XX XX" is the "clip length" expressed as a timecode.	
60-2E	COMMAND SPEED SENSE	71-2E	COMMAND SPEED DATA	
80-01	GET ID OF CLIP ON CHANNEL	94 01	XX XX XX XX LSB (CLIPID) MSB	
84-02	XX XX XX XX LSB (CLIPID) MSB VALIDATE CLIP ID	91 02 0X		See NOTE-4

**NOTE-3** The following table shows the return STATUS DATA for command **61-20** STATUS SENSE Command:

DATA #	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
0	BUSY							LOCAL
1	STANDBY ON		STOP		REW	F.FWD	REC	PLAY
2	SERVO LOCK	TSO	SHUTTLE	JOG	VAR	REV	STILL	CUE UP COMPLETE
3					AUDIO OUT	AUDIO IN	OUT	IN
4								CUEING
5								
6								
7								
8								
9								
A								
B								
C								
D	CLIP START	CLIP END						
E								
F								

**NOTE-4** Return for command **84-02** VALIDATE CLIP ID occurs several fields later, and is:

	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
					DELETE PROTECTED		CLIP PLAYABLE	CLIP EXISTS

END