

AMPEX

ALIGNMENT TAPES



NO OTHER MANUFACTURER OFFERS A MORE COMPLETE SELECTION OF ALIGNMENT TAPES

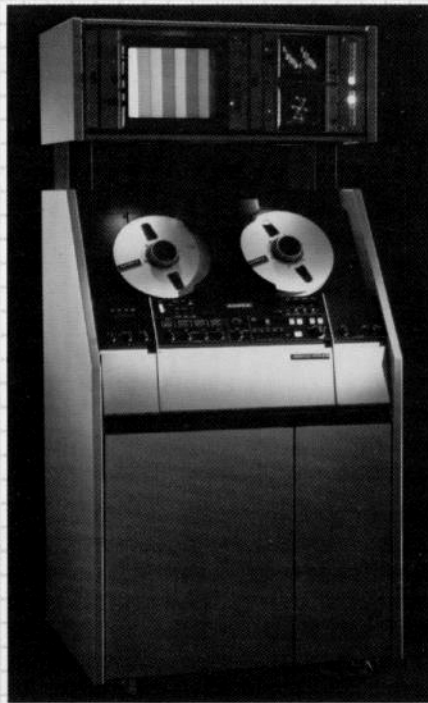
Today, when so many professionally recorded tapes are being shuttled to and from different studios, compatibility between identical format recording machines is an absolute necessity. Engineers agree that the most accurate, most reliable method of measuring and testing a recorder/reproducer's operational parameters and flux characteristics is through the use of alignment tapes.

And no company in the world manufactures or markets more of these tapes than Ampex. This shouldn't come as a surprise when you stop to consider that we've been designing and manufacturing the finest professional video and audio tape recorders in the industry for more than a quarter of a century.

ONE OF A KIND

Every Ampex alignment tape is a first generation original. Specially modified master recorders and a meticulous calibration process are just part of a very strict quality control program.

Before any tape is recorded, each machine is carefully aligned and calibrated to a master vault tape, then monitored continuously to assure absolute compliance and adherence to frequency reproduction and other measurement parameters. Though the voice tags are dubbed, all test signals are supplied directly to the record



amplifiers from the most accurate programmable tone and signal generators available.

Whether it's audio or video, full or multi-track, helical or quad, there's an Ampex alignment tape series that's just right for your studio needs. In fact, there are more than 350. This brochure offers a brief description and a listing of some of the more popular tapes available. For more detailed information, contact your Ampex sales office.

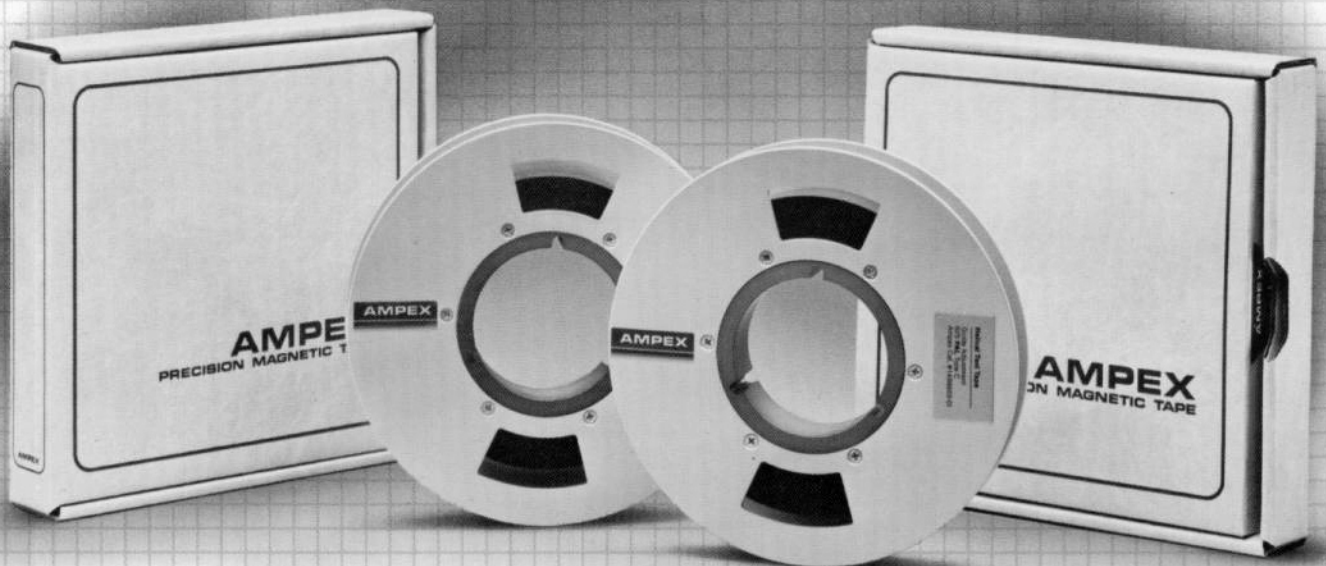
HELICAL SCAN VIDEO ALIGNMENT TAPES FOR 1 INCH TYPE C FORMAT

Guide Adjustment

This tape is specifically designed for critical guide adjustments and interchange verification. It is available in both 525/60 NTSC/PAL-M and 625/50 PAL/SECAM standards. Type A format versions are also available.

High Band Carrier Video Reference

This tape contains standard references for mechanical and electrical checks to assure unit performance. 525/60 NTSC/PAL-M and 625/50 PAL/SECAM standards are available. All three standards may



also be purchased in the Type A format.

Helical Audio Alignment

The purpose of this tape is to test for audio alignment and verification. There are no video signals or control track information recorded. Both 525/60 NTSC/PAL-M and 625/50 PAL/SECAM standards may be obtained. These standards are also available in Type A format.

Flutter Test

This tape measures playback flutter and tape speed in both 525/60 NTSC/PAL-M and 625/50 PAL/SECAM standards. Type A format versions may be purchased as well.

Dropout Compensator Test

This tape is intended for use on all Type C format helical scan video recorders when used in conjunction with time base correctors, and will aid in the alignment of the dropout compensator in the time base corrector. Available in 525/60 NTSC/PAL-M and 625/50 PAL/SECAM. Also available in Type A format.

Video and Audio Reference

This tape, recorded in accordance with SMPTE V16.46-634, is intended for use on all Type C format helical scan video recorders, and is to be

used for adjustments, comparisons, and verification of unit performance.

QUADRUPLEX VIDEO ALIGNMENT TAPES

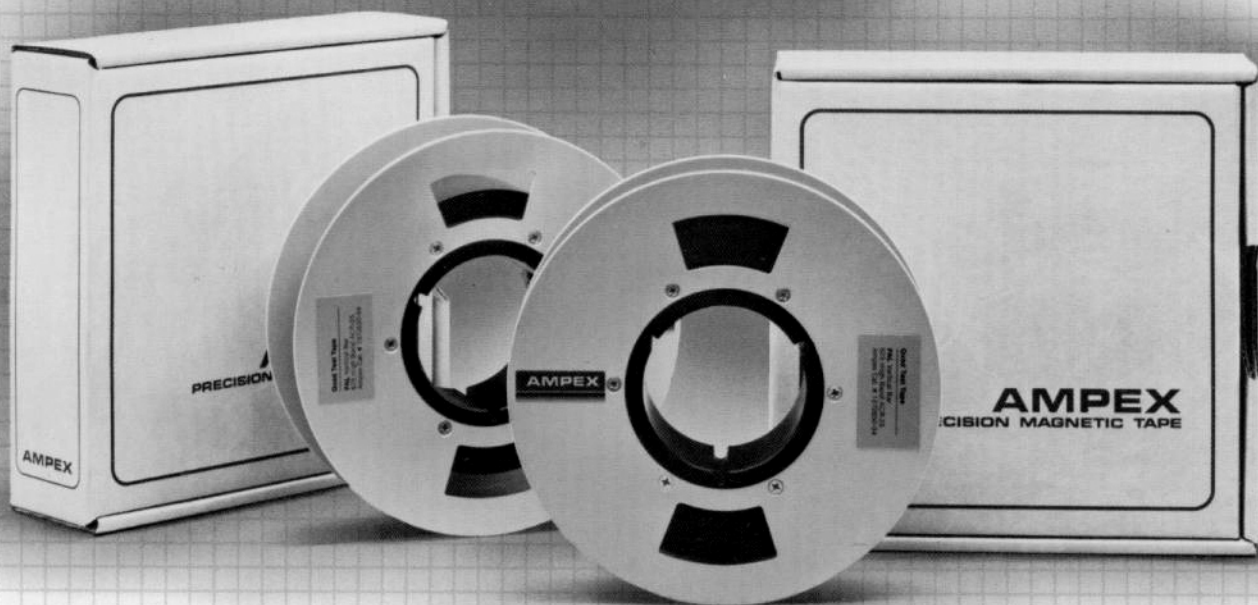
Ampex produces a series of test tapes for use with quadruplex video recorders operating with 525/60 NTSC/PAL-M or 625/50 PAL/SECAM systems. The basic

"Vertical Bar Tapes" may be used to set guide height and engagement, check control track level and phasing, set audio and cue channel playback levels, and check tach phasing. The "Color" tapes, recorded with signals recommended by SMPTE, EBU, CCIR, and ANSI, permit playback verification of the following parameters:

- 1) vacuum guide position
- 2) video frequency response
- 3) chrominance-to-luminance gain and group delay
- 4) differential gain, phase, and K-factor
- 5) moire and signal-to-noise (with PAL tape #1374503)
- 6) subcarrier phase and channel chroma levels
- 7) control track level and phase
- 8) video gain and carrier frequency
- 9) audio and cue channel gains



The "Quad/Audio" test tapes contain multi-frequency reference level tones recorded to the 2000/35 μ sec (80/4500 Hz) or ∞ /35 μ sec (0/4500 Hz) curves to permit checking audio and cue channel playback response. Operating level tones, recorded at tape flux levels of 110 nWb/m for audio and 260 nWb/m for cue, are used to set playback gain controls.



1 INCH HELICAL VIDEO ALIGNMENT TAPES

TYPE C FORMAT

CATALOG NUMBER	LINE/STD	DESCRIPTION	LENGTH (in minutes)
GUIDE ADJUSTMENT			
1498608-02	525/NTSC	Guide Adjustment Tape	10
1498609-01	625/PAL	Guide Adjustment Tape	10
HIGH BAND VIDEO REFERENCE			
1498604-02	525/NTSC	Highband Carrier Video Reference	30
1498605-01	625/PAL	Highband Carrier Video Reference	30
1498606-01	625/SECAM	Highband Carrier Video Reference	30
1498623-01	525/NTSC	Video and Audio Reference Tape (Recorded in accordance with SMPTE document V16.4-634)	10
1498625-01	525/NTSC	Programmed Drop-out Tape	15
1498626-01	625/PAL	Programmed Drop-out Tape	15
AUDIO			
1498600-01	525/NTSC	Audio Alignment Tape	10
1498601-01	625/PAL	Audio Alignment Tape	10
1498614-01	625/PAL	Biased CNTL Trk. Reference Level Tape 1 KHz at 9.4409 in/sec. 100nWb/m	10
FLUTTER			
1498602-02	525/NTSC	Audio Flutter Tape 3 KHz @ 9.6063 in/sec.	5
1498603-02	625/PAL	Audio Flutter Tape 3 KHz @ 9.4409 in/sec.	5

TYPE A FORMAT

CATALOG NUMBER	LINE/STD	DESCRIPTION	LENGTH (in minutes)
SCANNER ALIGNMENT			
7956022-02	525/NTSC	Helical Alignment Tape	10
7956023-02	625/PAL	Helical Alignment Tape	10
7956031-03	525/NTSC	Helical and CNTL TRK. Alignment Tape	10
7956032-02	625/PAL	Helical and CNTL TRK. Alignment Tape	10
7956053-01	625/PAL	Helical and CNTL TRK. Alignment Tape at 9.3-11.0 MHz carrier	10

TYPE A FORMAT (cont.)

CATALOG NUMBER	LINE/STD	DESCRIPTION	LENGTH (in minutes)
HIGH BAND VIDEO REFERENCE			
7956040-01	525/NTSC	Highband Carrier Video Reference at 7.06-10.0 MHz Carrier	30
7956041-01	625/PAL	Highband Carrier Video Reference at 7.1-9.3 MHz Carrier	30
7956050-01	625/SECAM	Highband Carrier Video Reference at 7.1-9.3 MHz Carrier	30
7956054-01	625/PAL	Highband Carrier Video Reference at 9.3-11.0 MHz Carrier	30
7956055-01	525/NTSC	Highband Carrier Video Reference at 7.06-10.0 MHz Carrier	30
7956056-01	625/SECAM	Highband Carrier Video Reference at 9.3-11.0 MHz Carrier	30
AUDIO			
7956033-01		Audio Reference Level 1 KHz @ 185 nWb/m	10
7956043-01		Audio Reference Level 1 KHz @ 117 nWb/m	10
7956044-01		Audio Alignment Tape 3180/15 μ sec 117 nWb/m	10
7956051-01		Dual Audio Alignment Tape 3180/15 μ sec 117 nWb/m	10
FLUTTER			
7956034-02	525/NTSC	Audio Flutter 3KHz @ 9.623 in/sec	5
7956035-02	625/PAL	Audio Flutter 3KHz @ 9.4409 in/sec	5

QUAD ALIGNMENT TAPES

CATALOG NUMBER	LINE/STD	DESCRIPTION	LENGTH (in minutes)	CATALOG NUMBER	LINE/STD	DESCRIPTION	LENGTH (in minutes)
50262-07	525/NTSC	Vertical Bar Test Tape—Low Band	5	1374554-01	525/NTSC	Vertical Bar Test Tape—High Band	5
52082-04	625/PAL	Vertical Bar Test Tape—Low Band	5	1374556-01	625/PAL	Vertical Bar Test Tape—High Band	5
1370651-03	525/NTSC	Vertical Bar Test Tape—High Band for Ampex ACR-25	5	1374798-01	625/CCIR	Quad/Audio—Inf/35 μ sec—High Band	5
1370651-04	625/PAL	Vertical Bar Test Tape—High Band for Ampex ACR-25	5	1405476-01	525/ANSI	Quad/Audio—7.5 in/sec—2000/35 μ sec High Band	5
1372422-01	525/ANSI	Quad/Audio—2000/35 MSEC—High Band	5	1405477-01	625/CCIR	Quad/Audio—7.8 in/sec—inf/35 μ sec High Band	5
1372424-01	625/PAL	Color Alignment Tape—High Band (video signals per EBU tech. 3219-E chapter 1, plus audio and cue "op. level" tones)	11	1408945-01	525/PAL M	Quad/Color Test Tape—High Band (Multi-ramp-12.5T-C. Bars)	12
1372424-02	(UK VERSION)			1460240-01	525/NTSC	Vertical Bar Test Tape—7.5 in/sec High Band	5
1373857-01	525/NTSC	Color—Video Test Tape—High Band (conforms to SMPTE/RP-43)	11	1460241-01	625/PAL	Vertical Bar Test Tape—7.8 in/sec High Band	5
1374503-01	625/PAL	Color—Primary Reference Tape High Band (Video signals per EBU Tech 3219-E chapter 3, plus audio and cue "op level" tones)	17				

AUDIO ALIGNMENT TAPES

CATALOG NUMBER	STANDARD	SPEED	EQUALIZATION	TRACKS	CATALOG NUMBER	STANDARD	SPEED	EQUALIZATION	TRACKS
¼ INCH REPRODUCE ALIGNMENT TAPE					2 INCH REPRODUCE ALIGNMENT TAPE				
4690037-01	NAB	3.75 in/s	90 µs & 3180 µs	Full	4690048-01	AES	30 in/s	17.5 µs & ∞	Full
01-31331-01	EIA	3.75 in/s	120 µs & 3180 µs	Full	4690042-01	AES	30 in/s	17.5 µs & ∞	8
01-31334-01	Ampex	3.75 in/s	200 µs & 3180 µs	Full	2 INCH REPRODUCE ALIGNMENT TAPE				
01-31321-01	NAB	7.5 in/s	50 µs & 3180 µs	Full	4690025-01	NAB	7.5 in/s	50 µs & 3180 µs	Full
4690010-01	NAB	7.5 in/s	50 µs & 3180 µs	2	4690022-01	NAB	7.5 in/s	50 µs & 3180 µs	16
01-31321-04	NAB	7.5 in/s	50 µs & 3180 µs	1 & 3 (of 4)	4690036-01	IEC	7.5 in/s	70 µs & ∞	Full
4690014-01	IEC	7.5 in/s	70 µs & ∞	Full	4690034-01	IEC	7.5 in/s	70 µs & ∞	16
01-31323-01	IEC	7.5 in/s	IEC 100 µsec	Full	4690018-01	NAB	15 in/s	50 µs & 3180 µs	16
01-31311-01	NAB	15 in/s	50 µs & 3180 µs	Full	4690024-01	NAB	15 ips	50 µs & 3180 µs	Full
4690009-01	NAB	15 in/s	50 µs & 3180 µs	2	4690035-01	IEC	15 in/s	35 µs & ∞	Full
01-31313-01	IEC	15 in/s	35 µs & ∞	Full	4690033-01	IEC	15 in/s	35 µs & ∞	16
4690093-01	AES	30 in/s	17.5 µs & ∞	Full	4690047-01	AES	30 in/s	17.5 µs & ∞	Full
6878		30 in/s	3200 Series Duplicator Special	Full	4690039-01	AES	30 in/s	17.5 µs & ∞	16
½ INCH REPRODUCE ALIGNMENT TAPE					CATALOG NUMBER SPEED UNWEIGHTED FREQUENCY/RMS FLUTTER TRACKS				
01-31321-05	NAB	7.5 in/s	50 µs & 3180 µs	Full	¼ INCH FLUTTER TAPES				
4690015-01	IEC	7.5 in/s	70 µs & ∞	Full	01-31336-01	3.75 in/s	3000 Hz/<0.03%		Full
01-31323-05	IEC	7.5 in/s	IEC 100µs	Full	4690013-01	3.75 in/s	3150 Hz/<0.03%		Full
01-31311-05	NAB	15 in/s	50 µs & 3180 µs	Full	01-31326-01	7.5 in/s	3000 Hz/<0.03%		Full
01-31313-05	IEC	15 in/s	35 µs & ∞	Full	4690012-01	7.5 in/s	3150 Hz/<0.03%		Full
4690085-01	AES	30 in/s	17.5 µs & ∞	Full	01-31316-01	15 in/s	3000 Hz/<0.03%		Full
1 INCH REPRODUCE ALIGNMENT TAPE					4690011-01	15 in/s	3150 Hz/<0.03%		Full
4690007-01	NAB	7.5 in/s	50 µs & 3180 µs	8	4690099-01	30 in/s	3000 Hz/<0.03%		Full
4690032-01	IEC	7.5 in/s	70 µs & ∞	Full	½ INCH FLUTTER TAPES				
4690021-01	IEC	7.5 in/s	70 µs & ∞	8	01-31326-05	7.5 in/s	3000 Hz/<0.03%		Full
4690007-02	NAB	7.5 in/s	50 µs & 3180 µs (BLM-200)	8	01-31316-05	15 in/s	3000 Hz/<0.03%		Full
4690041-01	NAB	7.5 in/s	50 µs & 3180 µs (BLM-200)	8	¼ INCH LEVEL TAPES				
4690005-01	NAB	15 in/s	50 µs & 3180 µs	Full	01-31325-01	7.5 in/s	700 Hz @ 185 nWb/m		Full
4690006-01	NAB	15 in/s	50 µs & 3180 µs	8	01-31315-01	15 in/s	700 Hz @ 185 nWb/m		Full
4690031-01	IEC	15 in/s	35 µs & ∞	Full					
4690020-01	IEC	15 in/s	35 µs & ∞	8					

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