

AMPEX

Broadcast Television Equipment



The total
TV scene.

Broadcast Video Systems

- Studio Broadcast Videotape Recorders
- Portable Videotape Recorders
- Disc Recorders
- Studio and Remote Cameras
- Switchers, Programmers
- VHF, UHF, and FM Transmitters
- TV Antennas
- Broadcast Video and RF Accessories

Ampex Corporation, as part of its continuing effort to offer the broadcaster unmatched performance in TV broadcast equipment, is pleased to offer complete professionally designed broadcast systems from a single source.

Each product is among the finest in the industry, utilizing start-of-the-art components, advanced design, and modular construction for improved performance, greater reliability, and minimum maintenance. Each is designed to perform as an integral part of a complete system from camera to antenna.

Ampex maintains a large professional engineering staff to design, build and support all its products—engineers who know and understand the many problems of modern broadcasting. Ampex will assist you in planning and designing your station or production facility. And once on the air, Ampex will continue to offer technical support and fast, efficient service. Large replacement stocks are continuously maintained and parts are quickly available.

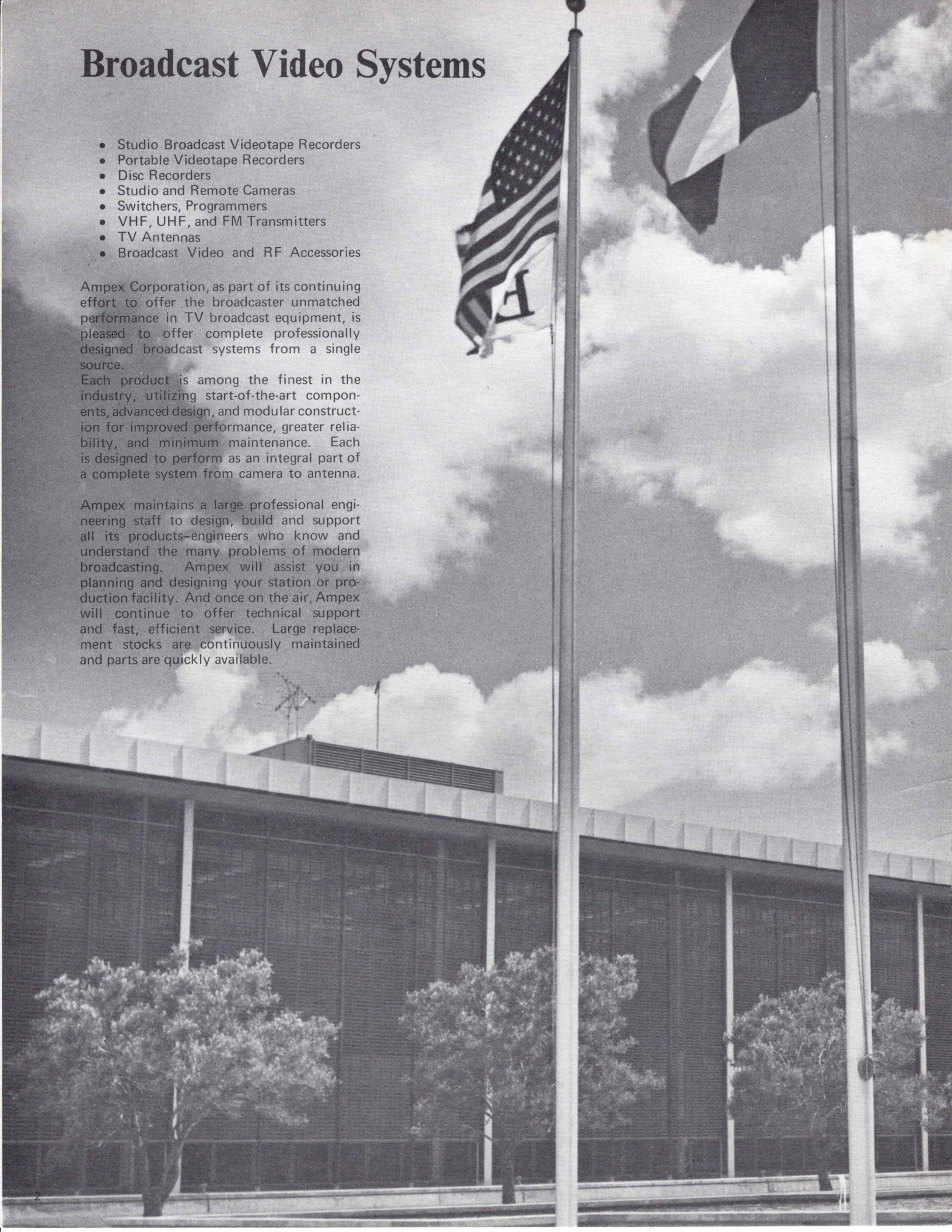


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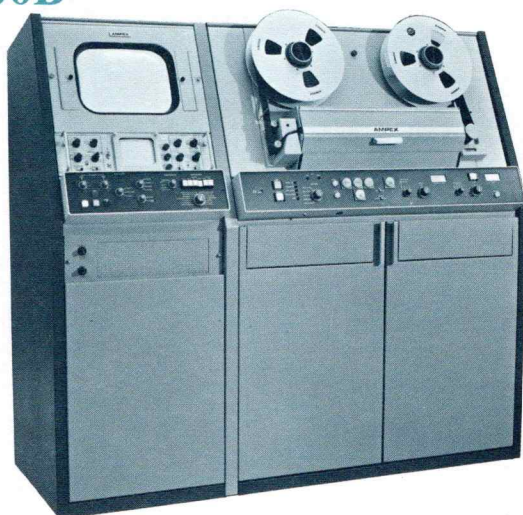


Studio Recorders

Ampex VR-1200B

High-Band Color/ Monochrome Videotape Recorder

Superior high-band color with full production capability.



SPECIFICATIONS*	
VIDEO RESPONSE (MONOCHROME)	VIDEO RESPONSE (COLOR)
Bandwidth: VR-1200B and VR-1200C—Flat to 4.1 MHz; -3 dB at 4.5 MHz; Tolerance ± 0.5 dB (525/60 high-band) Flat to 5.5 MHz; -3 dB at 6.0 MHz; Tolerance ± 0.5 dB (625/50 high-band) Transient Response: VR-1200B—Maximum k-Factor 1.5% (525/60 or 625/50 high-band) VR-1200C—Maximum k-Factor 1% (525/60 or 625/50 high-band) (utilizing 1T sine ² pulse) Rise Time: VR-1200B—0.10 μ s max. (625/50 high-band) VR-1200C—0.08 μ s max. (625/50 high-band) (0.2 μ s or less on input pulse)	Signal-to-Noise Ratio: VR-1200B—40 dB (525/60 low-band), 46 dB (525/60 high-band) peak-to-peak video to rms noise. VR-1200C—40 dB (525/60 low-band), 46 dB (525/60 high-band) peak-to-peak video to rms noise. Differential Gain: VR-1200B—4% or less blanking to white (525/60 high-band) VR-1200C—3% or less blanking to white (525/60 high-band)
AUDIO BANDWIDTH	
VR-1200B 15 ips: ± 2 dB, 50 Hz to 12 kHz 7½ ips: ± 2 dB, 50 Hz to 10 kHz VR-1200C 15 ips: ± 2 dB, 50 Hz to 15 kHz 7½ ips: ± 2 dB, 50 Hz to 10 kHz <i>*Subject to change without notice.</i>	

FEATURES

- Complete television production capability including multiple generation copies and electronic editing in color or monochrome.
- Fully solid-state design increases reliability and reduces size and power consumption.
- Improved K-Factor, signal-to-noise, bandwidth, differential phase and gain ... reduced noise.
- Built and tested as a complete color/monochrome system. . . with integral Amtec* and Colortec* unit.
- Optional Video Head Optimizer permits video head optimization in 5 to 15 seconds.
- Accepts all Ampex accessories on a "plug-in" basis, including Electronic Editor, Mark II Editec*, Velocity Compensator, Auto-Chroma, and One-Line Delay.

To meet a broad range of user performance requirements, the VR-1200B is offered in many different configurations- from a simple monochrome unit to a complete international color system for PAL and SECAM standards. It is compatible with all previous four-head recorders. Featured are: switchable high/low band, color/monochrome operation; zoned operating controls; non-scratch video erase head; Mark X rotary transformer video head; complete built-in picture, audio and waveform monitoring.

FEATURES

- Provides top color/monochrome performance available today--the ultimate refinement of both VR-1200 and VR-2000 capabilities.
- Complete television production capability, superb technical performance, incomparable ease of operation, and a new level of system flexibility.
- New Automatic Tracking--no manual adjustment required.
- Mark I Editec* offers programmed editing capability to single-frame accuracy.
- Excellent audio performance with new audio system.
- New dual monitor system offers maximum capability in checking system performance.
- New signal system for top performance

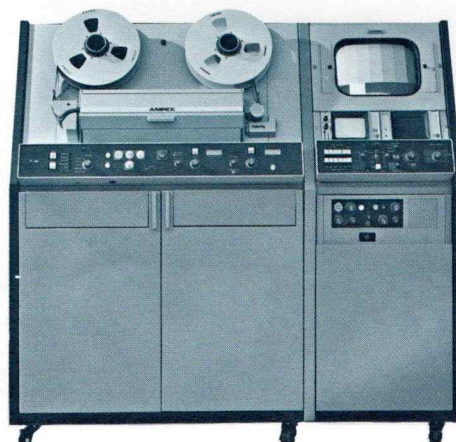
Now, a new version of the time proven VR-1200 Series, the VR-1200C. The best of two series, the VR-1200C matches or exceeds all specifications and features of its predecessor, the VR-2000B--standard of the industry. New are Mark I Editec* capability, dual monitoring, an Automatic Tracking feature, and a new audio system.

*TM Ampex Corporation

Ampex VR-1200C

Color Teleproduction Videotape Recorder

Newest version of the proven VR-1200 Series--outstanding technical performance.



Studio Recorders

Ampex AVR-1

Automated Broadcast Teleproduction Recorder

A new highband color/monochrome broadcast recorder/reproducer that sets new highs in performance, automation, stability, and operator convenience. A new generation of videotape recorders, a new standard for the broadcast industry.



FEATURES

- Complexity is designed out of the AVR-1. . .simplified controls are all located at the control panel.
- No secondary adjustments are needed once the machine is set up relieving technicians from routine standby duty.
- The recorder is continuously synchronous. Video appears "locked-up" 200 milliseconds after it is "punched-up" —eliminating roll-up time planning.
- Automated playback, easily switched to the proper broadcast selection and color system. . .automatically selects the proper deviation standard.
- Toe bar switch sets up "threading" — leaves both hands free.
- New tape path makes the AVR-1 the easiest loading videotape recorder.
- New snap-in/snap-out Mark XX video-head for greater convenience, better performance.
- Special vacuum columns keep tape tension constant, tape acceleration forces down, and tape clean.
- New single shuttle control moves tape at continuously variable speeds in either direction.
- Special indicator panel displays location and urgency of any trouble.
- Two scope monitors, one of them presents four waveforms for easy trouble shooting or set-up.
- Electronic tape timer counts elapsed or remaining time, pre-set time can be entered or reset to zero any time.
- Access to the machine is always from the front never from the rear—the AVR-1 can be permanently installed against a wall.

Specifications:

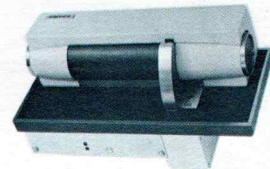
Refer to AVR-1 product brochure (Number V281)

The most advanced, efficient, and reliable Videotape Recorder ever produced! Never before has a videotape recorder been so automatic, so easy to operate, and of such high performance standards. Stability is one of its most outstanding qualities. The AVR-1 can be set up and then forgotten. . .it holds all settings while it performs—flawlessly and automatically.

The AVR-1 is built around a unique tape transport. A new servo system, new tape path, new Mark XX Head Assembly, and new to videotape recorders—tape vacuum columns, all contribute to a transport boosting higher performance, faster start-stop times, instant lock-up, and rapid handling of tape. New features make the AVR-1 the easiest videotape recorder to load too. . .from a foot pressure bar that sets things up for loading, to a female head guide that retracts completely out of the way. A sliding glass transport cover keeps dust off of transport and tape.

The AVR-1 was designed for easy operation. All controls are grouped functionally at the operator's control panel. There is absolutely no need to make any secondary adjustments. The AVR-1's automatic operation and continued stability frees the operator for more meaningful assignments. Above the control panel are waveform and "A" scope monitors—the second monitor can present four waveforms simultaneously, one in each quadrant, for quick comparisons. A panel of lights give immediate indication of trouble and are color-coded according to the urgency of the problem.

Built for automatic operation, the AVR-1 includes many features necessary for teleproduction that are normally optional on other videotape recorders. All accessories are modular and need only be plugged-in to become fully operational. The AVR-1 was designed to operate in complete compatibility with other video production equipment such as the Ampex ACR-25 Cassette Recorder/Reproducer, ADR-150 High Speed Contact Duplicator, VS-600 Switcher, RA-4000 Programmer and Ampex Disc Recorders.



The newly designed Mark XX Head Assembly is equipped with air bearings and a rotary transformer for long life, low noise, and high dependability. A precision locking mechanism permits the operator to push a button, remove the Mark XX, and replace it in seconds. The vacuum tape guide automatically withdraws from the head for easier loading and simple cleaning.

Studio Recorders

Ampex ACR-25 Video Cassette Recorder/Reproducer

New concept for short video segments — a precision quadruplex, broadcast quality cassette recorder/reproducer. Combines the ease of handling of self-contained cassettes with true broadcast quadruplex quality.

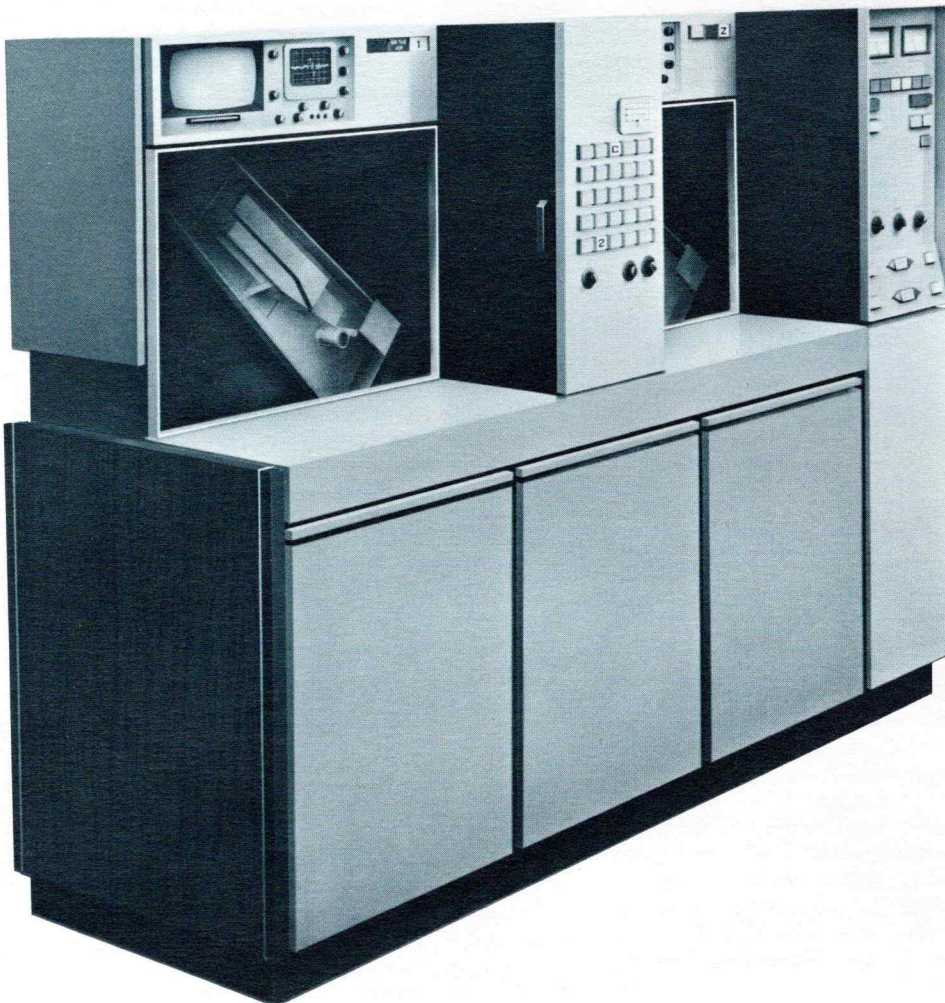
FEATURES

- Completely automatic operation—can be computer controlled.
- Utilizes an easy to use compact video cassette—can hold video program segments of up to 6 minutes duration (12 minutes at 7½ ips).
- ACR-25 holds a total of 25 cassettes—a total playing time of 150 minutes back-to-back.
- Any cassette is automatically selected, loaded and cued. Back-to-back operation with spots from ten seconds in length.
- Tape handling is entirely by vacuum—minimum mechanical parts to wear or contaminate tape in a dust free atmosphere.
- Requires only 200 milliseconds start-up time after cue for faster lock-up.
- Tape never touches heads or capstan during rapid rewind extending head/tape life.
- Fully compatible with all Ampex broadcast equipment.

With an industry trend towards shorter but more numerous spots, Ampex introduces to the broadcast industry a new concept in handling short segments of video programming. The Ampex ACR-25 is a broadcast-quality precision cassette recorder/reproducer designed for short segment video programming—automatically. Never before has there been such versatility and reliability in handling commercial spots, station sign-offs/sign-ons, news clips, weather or sports features interviews, or other short video segments.

The new easy to use video cassette format—a versatile cassette approximately four by six by two and a half inches—is not only fully compatible with all previously recorded quadruplex tapes (SMPTE practices), but will provide video quality equal to the leader of a new generation in videotape recorders—the Ampex AVR-1. The cassette may be recorded and played back on the ACR-25, or the user may want to insert his own prerecorded 2 inch videotape in the blank cassette. When the tape wears out only the tape need be replaced—the cassette is reusable over and over.

Not only is tape life extended by easy tape handling of the ACR-25, but the versatility of the cassette makes tape handling easier and safer for shipping and storing. The videotape may be removed from the cassette and inserted in a special lightweight protective mailing case for shipping or storage of inactive commercials. The resultant smaller lighter-weight package is far less expensive to mail and the case doubles as a secure and compact tape storage container.



Ampex ADR-150

High-Speed Video Contact Duplicator

State-of-the-art from Ampex—A high-speed contact duplicator. . . makes broadcast quality high-band color video tape copies 10 times faster than previous methods.



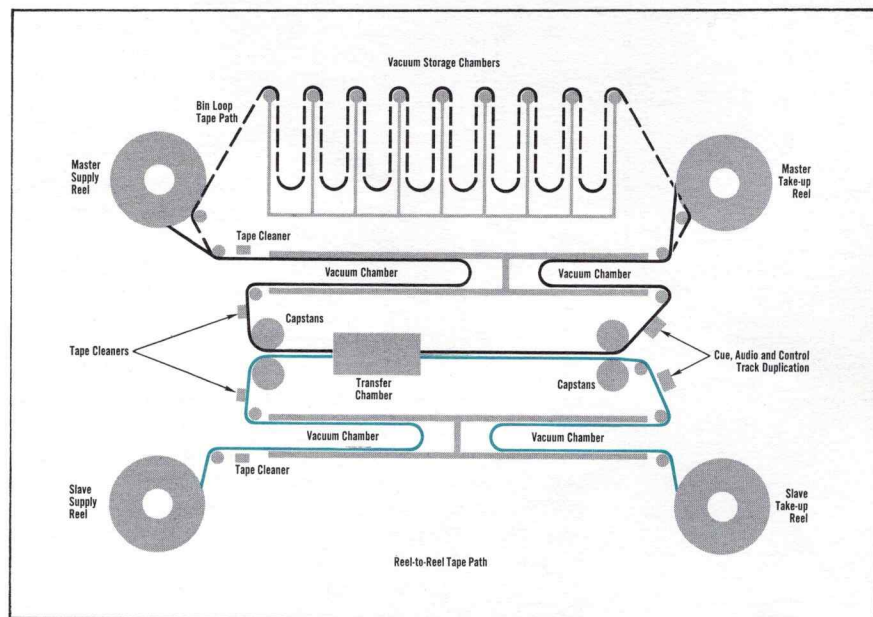
FEATURES

- Contact duplication with high coercivity master tapes provides low-loss dynamic transfer of conventional quadruplex video tapes.
- Duplicates one hour program in only six minutes (at 150 ips). . .rewinds in three minutes.
- Handles tapes recorded on all standards in color or monochrome—compatible with all Ampex video production systems.
- Two Master tape formats: standard reels up to 16 inches diameter or continuous bin-loop.
- High speed, automatic duplication of commercial spots with bin-loop master format.
- Modular design allows the addition of extra slave transports or greater capacity master bin-loop.
- Master tape can be reused over and over.

Ampex introduces the ADR-150 High Speed Video Contact Duplicator. Now, broadcast-quality videotape can be duplicated at high-speed automatically. More economic program production and distribution is now achievable with videotape—along with its added benefits: superior and more uniform quality, immediate replay (no processing), reusability, and electronic editing.

The new Ampex ADR-150 duplicates a one hour program in only six minutes. In the one hour previously necessary to duplicate a single one-hour program over six hour-long programs can now be duplicated and rewound. A preset tape counter automatically controls machine duplicating runs. Computer control can be added if desired. The ADR-150 is compatible with all existing standards and with Ampex production equipment.

The basic system includes the master tape transport as well as one slave transport. Additional modular slave units can be added as broadcasting needs increase. Vacuum columns provide precise tension levels on both ends of both tapes as well as assuring exact edge registration. Both the backing and oxide surfaces of both tapes are cleaned ahead of the transfer area by a special tape cleaning system. In addition, a high-speed master erasure system allows master tapes to be reused for greater economy.

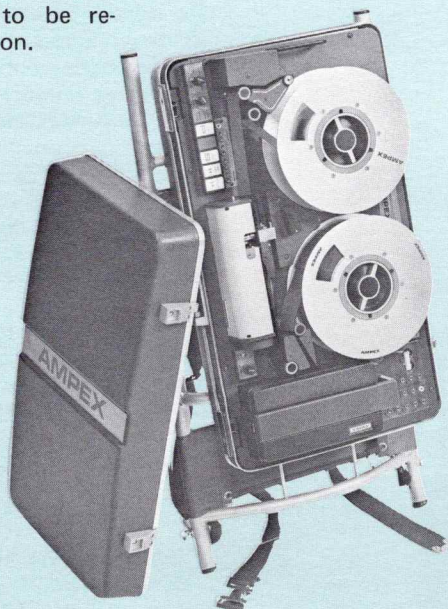


Portable Recorders

Ampex VR-3000

Backpack Videotape Recorder

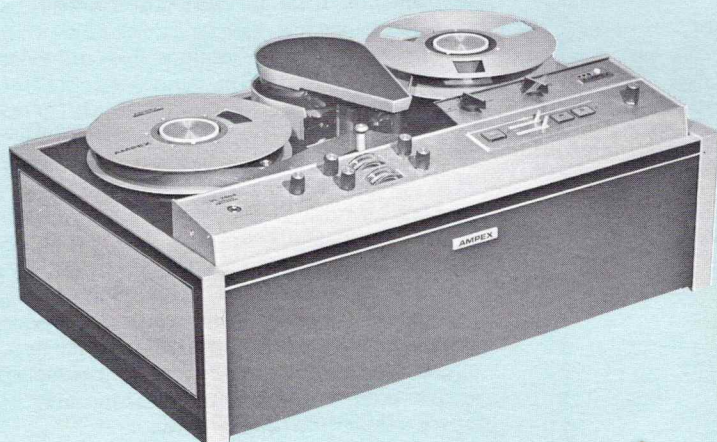
Lightweight, compact portable VTR allows studio-quality color or monochrome tapes to be recorded on location.



Ampex VL-7404

Broadcast Video Logging Recorder

Low cost audio/video logging recorder/reproducers designed specifically for the video broadcast industry.



FEATURES

- Revolutionary design makes video tape as flexible and field-portable as film.
- Compact and highly maneuverable. . .back-pack VTR weights only 55 pounds.
- Tapes are available for immediate "on air" playback. . .physically compatible with all transverse studio recorders.
- Records NTSC/PAL/SECAM color and monochrome to SMPTE recommended practice, USA and EBU standards.
- Automatic cue-up system. . .scene sequences are recorded one after another with a maximum of one frame of blank tape between them. . .minimizes break-up between sequences during unedited playback.

The Ampex VR-3000 Portable Videotape Recorder now gives television producers, stations, and networks the freedom and flexibility of film.

Studio quality tapes can be made on location where conventional equipment cannot go. The VR-3000 can be used either as a complete battery powered monochrome system with the Ampex BC-300 camera, or with a compatible hand-held color camera, color recorder system.

The Ampex VR-3000 recorder is a rotary head, transverse scan, battery-operated VTR built to the most demanding specifications ever placed on miniaturized television equipment. This compact unit is instantly switchable between low-band/high-band, monochrome and high-band NTSC/PAL/SECAM color. Since VR-3000 tapes are instantly playable on studio VTR's, they allow the live picture and sound quality associated with videotape to be maintained throughout a news or special events program.

FEATURES

- Logs video programming from either studio output, tuner, or any other EIA sync input.
- Samples every 32nd field-approximately 2 fields every second.
- Records continuously for 38 hours using a 3,000 foot reel of one inch videotape.
- Records two audio channels--one for program audio and a second for Air Time Data.
- Plays back in three modes: real time, compressed time (32 to 1), and still frame.
- Small size and light weight provide all the convenience of a portable.
- Compressed time replay provides quick search and fast tape verification. A full 38-hour tape can be scanned in about one hour.
- Maximum protection for low initial investment and economical operation.

Now, the video broadcaster can verify everything that goes on the air--easily and economically. Ampex Corporation has made it possible to log video and audio (and even a time data channel) with its new VL-7404 Video Logging Recorder. As logging requirements grow the VL-7404 will be able to keep pace, recording 38 hours of continuous program on one reel of tape.

The VL-7404 is a helical scan video recorder/reproducer that is easy to use and easily portable. It provides an economical means of logging station broadcast information from the studio output or off-the air. Video is sampled at a rate of about two fields every second. Audio is recorded continuously.

Portable Recorders

Ampex VR-660C

Portable Color Videotape Recorder

Color helical-scan VTR specially designed for closed-circuit production.



SPECIFICATIONS*	VR-3000	VR-660C	VR-7800	VL-7404
Frequency Response (high carrier)	flat to 4.1 MHz; -3 dB at 4.5 MHz; to 1. $\pm$ 0.5 dB	+2, -3 dB; 10 Hz to 4.2 MHz	+1, -3 dB; 20 Hz to 4.2 MHz	+1, -3 dB; 30 Hz to 3 MHz
Signal to Noise Ratio (p-p video to rms noise)	45 dB	42 dB weighted	42 dB	42 dB
Differential Gain	4% max.	10% max.	10% max.	N/A
Differential Phase	4° max.	5° max.	5° max.	N/A
Recording Medium	Transverse scan	Helical scan, 2 inch tape	Helical scan, 1 inch tape	Helical scan, 1 inch tape
Recording Time	20 minutes min.	5 hours	1 hour	38 hours
Fast/Play Ratio	5:1	60:1	30:1	570:1
Size (inches) (length x depth x height)	24x14x8	29-7/8x17-3/8 x 14-5/8	34x19x15	27x16x13
Weight	55 pounds	100 pounds	140 pounds	less than 100 pounds

* Subject to change without notice

Ampex VR-7800 Portable Videotape Recorder

One-inch format helical scan VTR extends the CCTV state-of-the-art to professional broadcast standards.



FEATURES

- NTSC-type color: full 4.2 MHz bandwidth
- Longest continuous record/play time in broadcast or CCTV recorders: up to five continuous hours (12½ inch reel).
- Designed for heavy-duty mobile, remote or studio use in CCTV or surveillance.
- Monochrome can be aired directly... meets FCC RS-170 standards.
- Built-in Edicon provides maximum editing flexibility and convenience.
- STOP MOTION and SLOW MOTION allows detailed study of pictures or special effects.
- Small and light weight; it can be easily transported.

NTSC-type color capability, high quality monochrome and production versatility are now within your budget with the new Ampex VR-660C. The VR-660C can become the nucleus of your closed-circuit system in the taping, editing and assembly of new program material...in the revision of old program material for total uninterrupted programs.

Whether you are a commercial or educational user, the high quality of the VR-660C and its versatile performance features offer unequalled flexibility and more dollar value than any other unit of its type you can buy!

FEATURES

- Modular construction permits options merely by insertion of solid state printed circuit boards.
- Versatile, integral monochrome electronic editing.
- Meets FCC specifications for monochrome broadcasting.
- Quality, versatility and reliability extends the Ampex one-inch format to that of the professional broadcast standard.
- Full 4.2 MHz bandwidth.
- NTSC type color available.
- R.F. Monitor included.

The Ampex VR-7800 solid-state portable videotape recorder exemplifies the latest in the state-of-the-art of one-inch format videotape recording. And with optional modular circuitry, the VR-7800 records and plays back NTSC type color. Other options include: a processing amplifier that provides sync meeting EIA RS-170 specifications, and a dropout color compensator. These options are added by inserting plug-in printed circuit boards.

Disc Recorders

Ampex DR-10

Portable Disc Recorder Series

A state-of-the-art disc recorder designed for fast, simple customizing to a wide variety of applications in industry, medicine, and science.



SPECIFICATIONS*

Bandwidth:
4.2 MHz at 3 dB point.
Frequency Response:
within ± 1.5 dB, 10 Hz to 3.58 MHz.
Signal-to-noise: 1800 r/min. 3600 r/min.
.005 inch tracks 36 dB 40 dB
.010 inch tracks 40 dB 43 dB
Measured on inner most track, Peak-to-Peak
video to rms noise, unweighted.
Rise Time:
150 ns or less with an input rise time of
40 ns.
Transient Response:
k factor 4%, measured on a 2 T sine² pulse.
Video Time-Base Stability:
 ± 50 ns with respect to reference synchronizing
pulses.

*Subject to change without notice.

FEATURES

- Records and plays back video pictures and data in normal, fast, slow, reverse or stop motion.
- Compatible with existing video systems.
- Modular construction allows wide range of system configuration and choice of local, remote or computer control.
- Rapid location of individually addressed frames for playback or record.
- Plug-in modules allow fast and economical modification at customer's facility.

The Ampex DR-10 portable disc recorder series provides an economical and versatile method for storing and analyzing a series of individually addressable video pictures or wideband data. Capable of playing back video pictures and data in normal, fast, slow, reverse or stop motion, the DR-10 features a very high signal-to-noise ratio and bandwidth, coupled with a wide selection of storage capacity.

Built on a modular concept, the DR-10 allows a wide choice in system configuration for local, remote or computer control operation. Maximum flexibility is achieved through selection of servo or non servo versions, one or two head stepping assemblies, and up to 16 separate heads with associated electronics.

These options coupled with two disc sizes (12 or 14 inches), two track widths (0.010 and 0.005 inch), and from one to four disc surfaces allow the DR-10 to be customized to any desired application. It can also be configured to include edit capability as well as random or sequential access. The maximum storage capacity of 2400 frames corresponds to 80 seconds of continuous recording.

SYSTEM OPTIONS

Available accessories to the basic unit include: frame rate selector, track counter, automatic search feature for random access, slow motion control, image comparison unit, and a color conversion kit.

Disc Recorders

Ampex HS-100 Slow-Motion Disc Recorder System

A high-band disc recorder/reproducer that has set the world standard for color replay of sports events.



FEATURES

- Unmatched high-band color quality in slow motion, stop action, freeze action, and fast action.
- Continuously variable slow motion in both forward and reverse.
- Compatible with all existing worldwide standards.
- Full 30 second recording time (60 seconds in alternate field mode).
- Locks into any local sync source allowing mixing with live programming without breakup.
- Exclusive fast search and cueing indicator permit easy location of any recorded passage in four seconds.

Better color and greater flexibility has made the Ampex HS-100 the worldwide standard for instant replay disc recorders. The HS-100 continuously records and stores the last 30 seconds of action for instant replay on command. Replay can be at any speed continuously variable from freeze frame to 30 frames per second normal speed, in both forward and reverse. The operator can stop the action, back it up, move it ahead, gradually slow it down, and even speed it up to twice normal speed.

The HS-100 total system is made up of four separate units (Disc Servo Unit, Output Processing Unit, Electronics Unit and tabletop Control Unit) packaged for portability and easy use on remote broadcasts. Fully compatible with standard NTSC, PAL, and SECAM color or monochrome video signals, the HS-100 is designed to complement rather than replace videotaping equipment. It is for use in situations where fast access time and variable playback speeds are more important than long playing time.

Ampex HS-200 Teleproduction System

A computer controlled highband color teleproduction system that greatly reduces production time.



HS-200 Capabilities

- Instant frame access.
- Time controlled freeze frame.
- Double speed playback or greater; using Time Lapse accessory.
- Computer logic for sequential pre-programming.
- Variable frame animation assembly.
- Automatic dissolves of variable length.
- Two-way remote control.
- Built-in monitoring.
- Keying.

The HS-100 can be expanded into the sophisticated HS-200 Teleproduction System. Highband color editing can be done faster, easier, and more economically than on film with the computer controlled HS-200. The HS-200 console editing system is a natural outgrowth of the color disc technology pioneered by Ampex. Disconnect the HS-200 console and reconnect the HS-100 Control Unit and you are ready for the road again. The HS-200 teleproduction unit combined with the HS-100 provides a versatile color video disc recording system that doubles your operating mileage.

The Ampex HS-200 Teleproduction System is a significant step forward in video program production. This computer-controlled disc recorder lets you produce special effects that were previously possible only with film. And lets you do them faster and more economically.

Like its smaller portable counterpart (HS-100), the HS-200 plays back color recorded material at normal, fast, and slow speeds and stop action in both forward and reverse modes. In addition, the HS-200 permits single frame color animation without the possibility of phase shift from frame to frame.

When pre-programmed, the HS-200 operates and edits automatically or on a series of cues. The system can be locked to studio sync so that material from any studio source can be incorporated in finished commercials without breakup.

SPECIFICATIONS*

Bandwidth:
4.2 MHz at 3 dB point.
Frequency Response:
within ± 1.5 dB, 10 Hz to 3.58 MHz.
Signal-to-Noise Ratio:
40 dB, p-p video to rms noise, measured on inner most track.
Rise Time:
120 ns maximum (20 ns or less rise time on input pulse).

Transient Response:
k Factor 3%, measured on a 2 T sine² pulse.
Video Time Base Stability (after Time Base Correction):
 ± 2.5 ns at the end of the burst period.

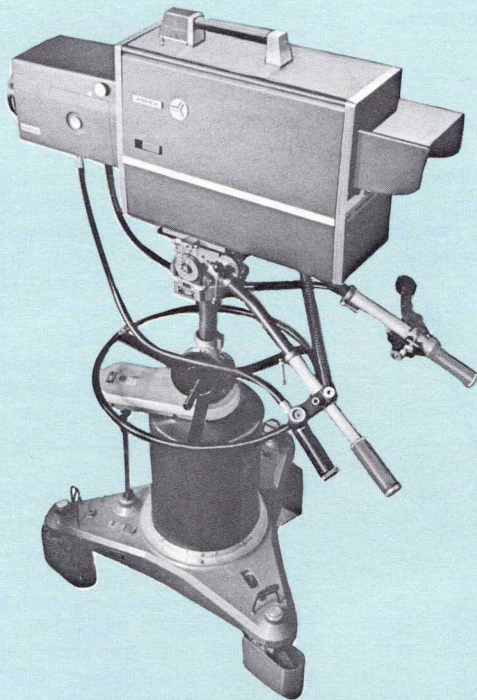
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Cameras

Ampex BC-230

Color Studio Camera

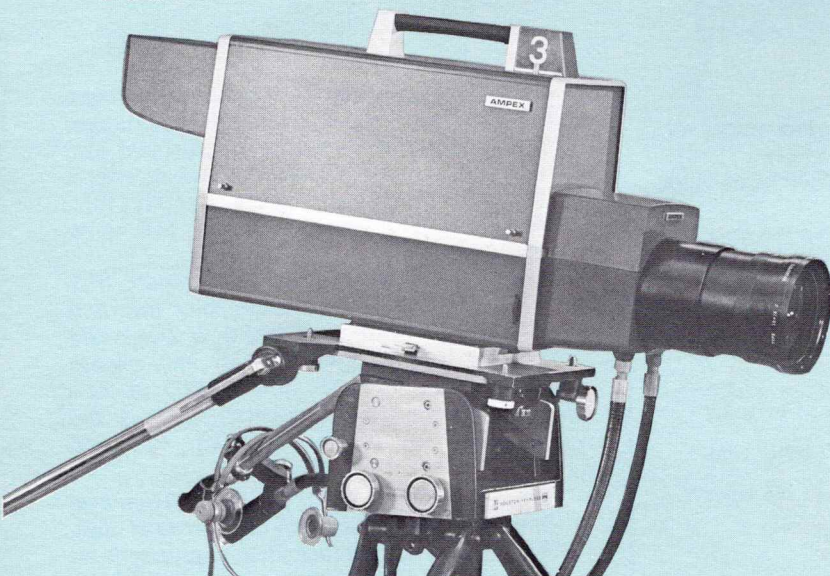
Lightweight, high stability, color Plumbicon* camera that sets new standards for color quality.



Ampex BC-210M

Monochrome Studio Camera

Compact, low cost monochrome camera that's convertible to color, designed for today's profit and performance-conscious broadcaster.



FEATURES

- New standards for stability.
- New three-tube Plumbicon camera designed for maximum sensitivity.
- Lightweight and small size make it the most versatile and maneuverable broadcast Plumbicon color camera available today.
- Rugged design assures continuous, reliable performance under all conditions both in the studio and in the field.
- Lightweight half-inch cable weighs only 13¼ lbs. per 100 feet.
- Faster warmup and unequalled stability assure sharp registration and crisp color.
- Built-in stair step generator and sine² pulse and bar signal speeds camera checkout.
- Demountable yoke and optics speed routine maintenance.

The new Ampex BC-230 color studio camera is a lightweight unit that sets new standards for long term stability. Makes studio and remote color programming economically feasible for television stations. Its rugged design, small size, and convenient controls make it truly portable (50 pounds without viewfinder or lens). . . yet the new three-tube plumbicon design provides excellent stability and picture quality. Designed for maximum light efficiency, the optical and color separation system produces brilliant, sharp color pictures with only 25 foot-candles scene illumination.

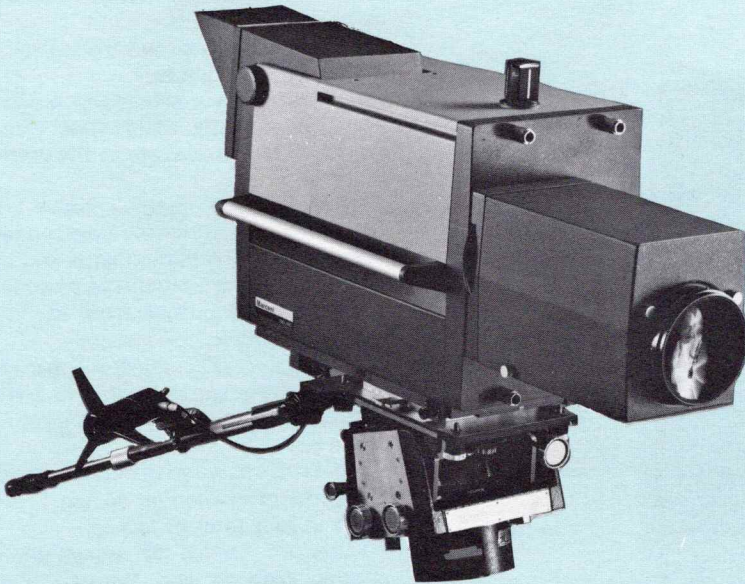
FEATURES

- Small size and lightweight provide for field as well as studio use.
- Rugged single Plumbicon design built for studio quality performance, reliability and stability.
- Controls designed for high stability and easy operation.
- Plug-in circuit boards with integrated circuits used throughout for dependability and easy maintenance.
- Lightweight cable (3000 feet weighs only 400 pounds).
- Easily installed conversion kit for high performance color operation.

*TM N.V. Philips

Mark VII Color Camera

Marconi Mark VII Color Camera for superb color as well as monochrome.



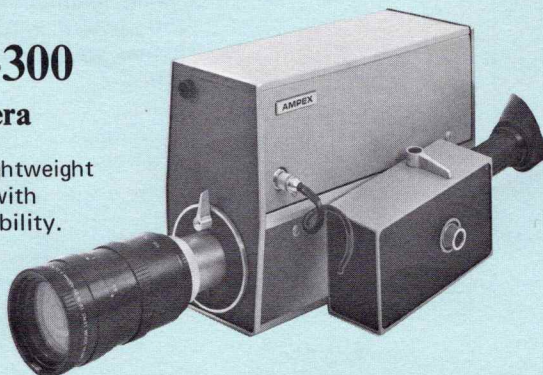
SPECIFICATIONS*

	BC-230 (preliminary)	BC-210M	Mark VII	BC-300
Format	Color/Monochrome 3 tube-Plumbicon	Monochrome Single Plumbicon	Color/Monochrome 4 Tube-Plumbicon	Monochrome Single Plumbicon
Resolution	100% amplitude response at 400 lines with aperture correction.			100% response at 4.2 MHz at center
Operating Standards	525/60 EIA 625/50 CCIR	525 lines, 60 fields NTSC	525 lines, 60 fields NTSC	EIA 525 lines 60 fields (625 lines, 50 fields optional)
Stability (for a 10°C change within limits listed)	Extremely stable be- tween -15°C and +45°C	±5% between -5°C and +4.5°C	±6% between -10°C and +40°C	
Signal-to-Noise Ratio (at F2.8, 60% reflectance)	greater than 40 dB measured at 50% of peak white (100 ft. candles)			greater than 38 dB (25 ft. candles)
Viewfinder (resolution) (brightness)	700 lines center 150 ft. lamberts	600 lines center 200 ft. lamberts	200 ft. lamberts	20 ft. lamberts
Size (Camera Head) Length x Width x Height (inches)	22½ x 9½ x 17	21½ x 8½ x 14-3/4	26-3/8 x 13-5/16 x 18-1/8	12 x 4½ x 8½
Weight (Camera Head)	50 lbs	Less than 38 lbs	175 lbs (including view- finder)	15 lbs (including view- finder)

*Subject to change without notice

Ampex BC-300 Hand-Held Camera

Extremely compact lightweight monochrome camera with broadcast quality capability.



FEATURES

- Excellent sensitivity--broadcast quality pictures with scene illumination of only 50 foot candles.
- Four Plumbicon design for high stability, lightweight, and easy operation.
- Highly stable for "hands off" operation.

The MK VII Color Camera delivers superlative picture quality, color or monochrome even under adverse lighting conditions. The MK VII incorporates a servo or manually controlled zoom lens, a tilting viewfinder, and uses four Plumbicon tubes, one of which is the luminance channel. In monochrome operation, switchable optics divert all light to the luminance channel for maximum sensitivity.

The MK VII is fully transistorized except for nuvistor preamps. After setup, no operator adjustment is required. The operational panel offers controls of iris, black level, gain, normal/standby, and/off, beam on/off, and on-air cue. The MK VII operates on cables up to 2000 feet with no modification of camera or CCU required.

FEATURES

- Compact and highly maneuverable--weighs only 15 pounds with electronic viewfinder.
- High sensitivity--produces excellent images with light levels as low as 30 foot-candles.
- Features a 4:1 zoom lens, a built in 3-step neutral density filter wheel, and an elapsed time indicator.
- Detachable, tiltable electronic viewfinder plus a tally light indicating proper servo operation.

The Ampex BC-300 Monochrome Camera is a compact and highly maneuverable unit that can, when combined with the VR-3000 backpack video tape recorder, produce broadcast quality television pictures that simply are not possible with conventional equipment. It uses a Plumbicon pickup tube combined with the most modern integrated electronic circuits. It obtains excellent pictures with no shading, under even the poorest lighting conditions in the field. Synchronization is furnished the camera by a built-in, crystal-controlled EIA sync generator.

Video Production Control Systems

Ampex VS-600

Production Switcher

A new concept in solid-state, modularized, digital controlled switchers, allows easy integration to automated operation.



SPECIFICATIONS*

Frequency Response:
 ± 0.1 dB to 5 MHz, ± 0.5 dB 5 MHz to 8 MHz.

Crosstalk (worst case):
Better than 60 dB at 3.58 MHz
55 dB at 5 MHz.

Differential Gain:
Less than 1% to 90% APL.

Signal-to-Noise:
More than 60 dB (1-volt p-p signal to rms noise).

Switch Time:
Overlap or X type switch between pulses in vertical intervals.

System:
Each VS-600 system is supplied factory pretested in rack frames, control panel in mounting pan, and a single 100 foot inter-connection cable.

**Subject to change without notice.*

FEATURES

- Clamping Amplifier with active equalizer provides each input with compensation for up to 500 feet of video connecting cable.
- Differential input circuit minimizes system noise and hum.
- Individual, plug-in crosspoint modules use fast, reliable solid state circuit switch timed to operate in the vertical interval.
- Plug-in modular matrix frame with simplified printed wiring interconnect.
- Broadcast quality components and performance with transient-free switching.
- Spare clamped output from each bus output amplifier.
- Binary coded DTL control logic simplifies remote control panel to switch matrix connections to a few wires in a single cable.
- Automatic transition dissolver provides preset to program line switch ("take-bar") in four rates of fading.
- Pushbutton choice of transition, including fade to and through black.
- Can easily be integrated into a computer control system.

The Ampex VS-600 solid state vertical interval switching system utilizes the most advanced solid state components and digital logic control to provide top performance and reliability in the live studio, master control, transmitter or network control, and mobile van. It is available as a manual fader-arm switcher or as an automated take-bar or preset-type switcher for easy integration into a computer-controlled facility.

The system consists of a compact, rack-mount type chassis which includes the modularized switch matrix and control logic, amplifiers, tally control and power supply. Unique to the Ampex design is a serially-coded control system which requires only a single, small connecting cable between the rack frames and the control panel. The control panel can be remotely located as far as 1500 feet and it contains high-quality, smooth action, illuminated reed switches. Standard and custom systems include prewired rack frames and a control panel in a mounting pan.

Video Production Control Systems

Ampex RA-4000

Automatic Programmer

True random access brings automation to videotape editing and programming.



FEATURES

- Controls up to three pairs of transports-video or audio, in any combination.
- Plug-in modules allow expansion to six transports with simple interface.
- Careful human engineering allows concentration on the artistic decision not on the recorders.
- Unique address for each television recorded frame-allows single frame video-inserts.
- Video-only, audio-only, or video/audio can be inserted under complete control.
- True random access to any desired address.
- Automatic search and cueing to any desired address.
- May be interfaced with computer control equipment.
- Electronic address or cue readout and built-in hours, minutes, seconds calculator.
- Operates at 7½/15 ips, and at all domestic and foreign broadcast standards.

Ampex introduces automation to video tape recording with its automatic programmer, the RA-4000. The RA-4000 will facilitate the electronic editing, control and precise synchronization of your existing video tape system.

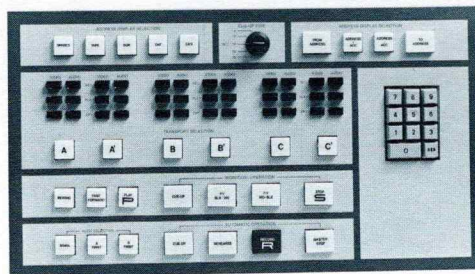
Full or semiautomatic control of Ampex VR-1200, VR-2000, or the new AVR-1 series videotape recorders as well as Ampex MM-1000 or AG-440 audio recorders is provided by the RA-4000. Up to three transports are programmed by the standard system with a provision for adding three more later. Video-inserts only, audio-inserts only, or combination audio/video-inserts extend production capability. Video-inserts as short as one frame are possible.

True random access to a videotape recorder is made possible by this new Ampex system which records a unique address to identify each television frame. A desired address can be called for by manual keyboard or computer entry, and the recorder will automatically search for the address, stop, cue itself ahead of the address, and wait for a normal roll command.

The system includes many features designed to ease the operators workload. An entire programming sequence may be rehearsed without actually making an electronic edit or switch. The operator may refine his decision by simple pushbutton movement for changing address codes. Careful human engineering allows the operator to concentrate on his artistic decision and forget the mechanics.

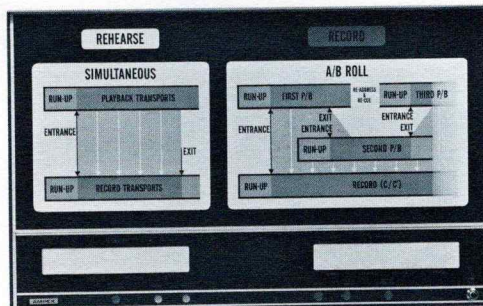
Control Panel Layout

A typical Ampex control panel and rack layout supplied on a standard or custom basis is shown.



Operational Modes

Almost all editing functions can be executed by one of two basic modes of operation: Simultaneous Mode, and Sequential Mode. In Simultaneous Mode, all controlled transports start together. Outputs of the playback transports are processed by the user's effects equipment, then recorded on other recorders. Sequential Mode allows standard A-roll/B-roll techniques (starting and stopping different recorders at specified times).



RF Products

Ampex TA-8000 Series

VHF Transmitters

State-of-the-art VHF transmitter systems feature a new modular concept for reliable operation and minimum maintenance.



SPECIFICATIONS*

VISUAL PERFORMANCE

Type of Emission:

A5

Frequency Range (ch. 2-13):

54 to 88 MHz, 174 to 216 MHz

Power Output (Amplifiers):

1.5 kW, 6 kW, 18 kW, and 25 kW sync peak.

Carrier Frequency Stability:

± 250 Hz (using standard frequency control chassis) 5 parts in 10^{-11} per year (using precision carrier offset).

Modulation Capability:

To 0

AURAL PERFORMANCE

Type of Emission:

F3

Power Output (Amplifiers):

750 W, 4 kW, 10 kW, 15 kW

Modulation Capability:

± 50 kHz (25 kHz at 100% modulation)

**Subject to change without notice.*

FEATURES

- Modular construction for ease of maintenance and independent component operation.
- Solid-state control circuits for high reliability.
- Dual crystal oscillators--automatically switchable. . .an optional precision Rubidium frequency control standard.
- Low level, sideband filtering. . .vestigial sideband filtering by means of a plug-in board.
- Dry-type power supplies with special short-circuit protection.

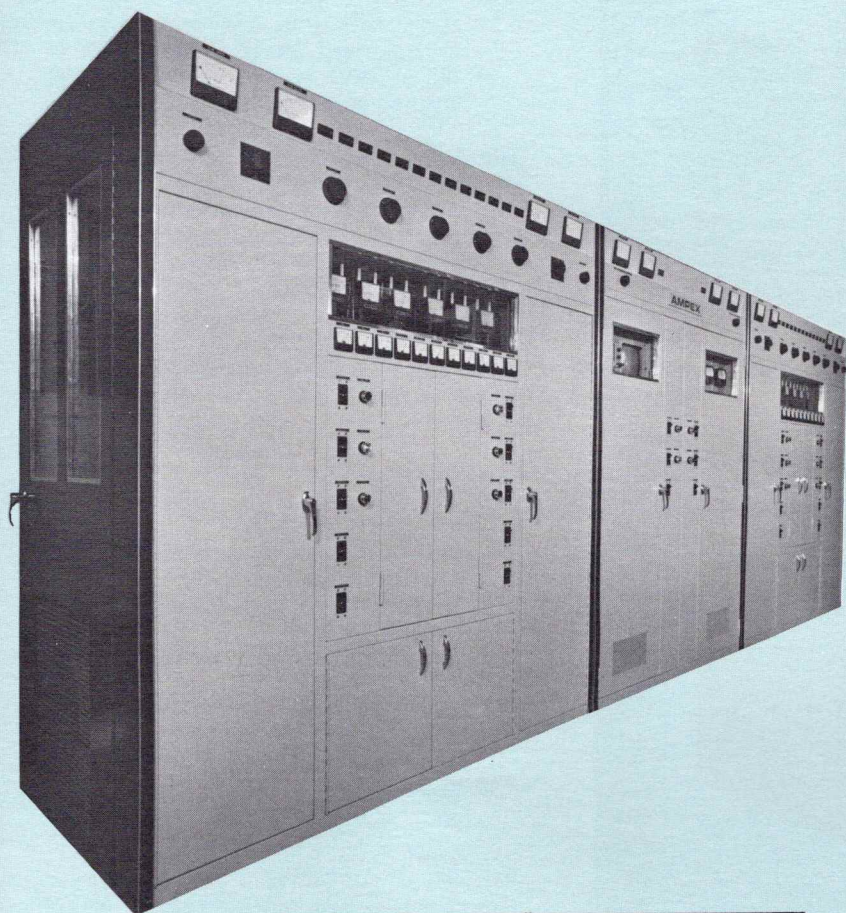
Ampex offers a new line of highly reliable, efficient, and economical VHF transmitters designed on a special modular concept. One or more of the TA-8000 series transmitter systems can be tailored to any station's particular requirements and budget. These systems extend from a basic transmitter with no emergency provisions to an elaborate system employing hot stand-by or parallel operation and exotic system control.

The basic transmitter system employs an 80-watt drive unit plus power amplifiers for the specified station power output requirement: 1.5 kW, 6 kW, 18 kW, or 25 kW. They can be combined in various configuration to provide systems with power levels of 12, 35, and 50 kW and degrees of sophistication to suit the customer's needs.

A superior frequency control option employs a Rubidium frequency standard. Manufactured by Tracor, this frequency control unit is stable to 5 parts in 10^{-11} per year. Warm-up time is only a few minutes; also offered is a standard frequency control chassis which consists of dual crystal oscillators. In the event of a failure, the chassis automatically switches to the standby crystal.

Ampex UHF Transmitters

UHF Transmitter systems from 10 watts to 100 kilowatts feature "spare transmitter" capability.



SPECIFICATIONS*

VISUAL PERFORMANCE

Type of Emission:

A5

Frequency Range (ch. 14-83):

470-890 MHz.

Power Output (Amplifiers):

10 kW, 15 kW, 30 kW, 55 kW (parallel operation: 60 kW and 100 kW).

Carrier Frequency Stability:

± 1 kHz

Modulation Capability:

$12.5 \pm 2.5\%$ which is referenced white.

AURAL PERFORMANCE

Type of Emission:

F3

Power Output (Amplifiers):

20% of peak visual output at input to combined network. (Visual and aural power supplies are separate).

Modulation Capability:

± 50 kHz swing.

**Subject to change without notice.*

FEATURES

- UHF klystron transmitters provide power levels of 10 watts to 55 kilowatts—or up to 100 kilowatts by power combining amplifiers in parallel operation.
- Separate beam power supplier used for aural and visual amplifiers.
- All solid-state modulator incorporates advanced processing amplifier features.
- Back-to-the-wall mounting saves space, simplifies maintenance.
- Vacuum switch provides positive control of beam power even while transmitter is in operation.
- "Spare transmitter" capability provided by multiplexing through either amplifier. . . can be switched by remote control.

Feature for feature, Ampex UHF klystron transmitters lead the industry in performance and reliability, providing optimum color and monochrome transmission. Water or air-cooled klystrons and transistorized circuitry assure maximum reliability. All models operate over the UHF band from 470 to 890 MHz. They are designed to exceed all FCC requirements for color transmission.

Model TA-10BT with air-cooled klystrons is rated at 10 kilowatts peak visual power. It provides high reliability at low operating cost. Models TA-15BT, TA-30BT, and TA-55BT (rated 15, 30 and 55 kilowatts peak visual power respectively) use water-cooled klystrons. All models can be operated with up to 20% aural power.

Greater power is obtained by power combining power amplifiers for parallel operation. The TA-60BT sixty kilowatt transmitter uses three identical thirty kilowatt amplifiers. One is used for the aural amplifier section and two are combined for visual service. The TA-100BT one hundred kilowatt transmitter is similar except that all three amplifiers are rated at 55 kilowatts each.

RF Products

Ampex TD-7020 20 Watt FM Transmitter

SPECIFICATIONS*

Type of Emission:
F3
Frequency Range:
87.5 to 108 MHz, tuned to specified frequency.
Power Output:
1 to 20 watts
Modulation Capability:
 ± 100 kHz (75 kHz at 100% modulation).
Audio Frequency Response:
Monaural — ± 1 dB, 30-15,000 Hz Stereo (left and right) — ± 1 dB, 30-15,000 Hz
Standard 75 μ s FCC pre-emphasis curve.
Stereo Separation:
Greater than 40 dB, 30-15,000 Hz.

**Subject to change without notice.*

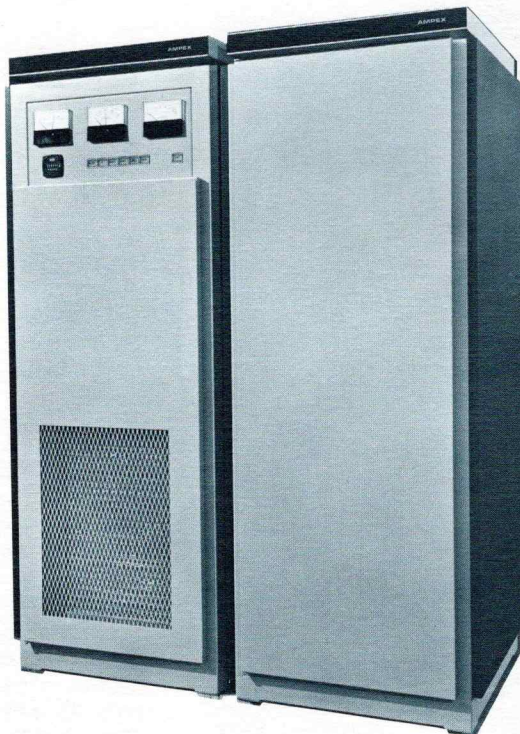


FEATURES

- All solid-state construction with plug-in modules.
- Designed for 20W output but can be operated at any power for 1-20W.
- Low power consumption.
- Transmitter power can be split at no added cost when circular polarization is authorized for educational stations.
- No external accessories needed other than an antenna and audio equipment.

The Ampex TD-7020 series of low-powered wideband FM broadcast transmitters were especially designed for educational FM broadcasting and for STL (studio-transmitter link) service. Model TD-7020 includes full stereo and one SCA (Subsidiary Communications Authority) channel. Model TD-7120 is for monaural and TD-7220 is for stereo operation only. TD-7320 is designed for monaural operation with two SCA channels.

UHF Series Translators



SPECIFICATIONS*

Type of Emission:
Visual—A5, Aural—F3
Output Frequency:
Any specified UHF channel 70-83
Input Frequency:
Channels 2-13 VHF (TVU-100BT and TVU-1000BT)
Channels 14-83 UHF (TUU-100BT and TUU-1000BT)

Power Output:
2.5 Watt UHF Translator
2.50 watts peak sync visual
1.25 watts aural
100 Watt UHF Linear Amplifier
100 Watts peak sync visual
10 Watts aural
1000 Watt UHF Linear Amplifier
1000 Watts peak sync visual
100 Watts aural

**Subject to change without notice.*

FEATURES

2.5 Watt UHF Translator

- Uses same, all solid-state driver as 100 watt and 1000 watt units.
- Regulated voltage maintains constant output.
- Automatic gain control compensates for signal fade.
- Low input signal voltage requirements.
- Modular, plug-in design for easier check-out and maintenance.
- Receives either VHF or UHF signals and translates to any desired UHF channel.

100 Watt UHF Amplifier

- Minimal drive power required for full output.
- Protective circuits for reliable traveling-wave tube.
- Master station carrier activates solid-state on/off control.
- Clean, dust-free system for longer tube and component life.

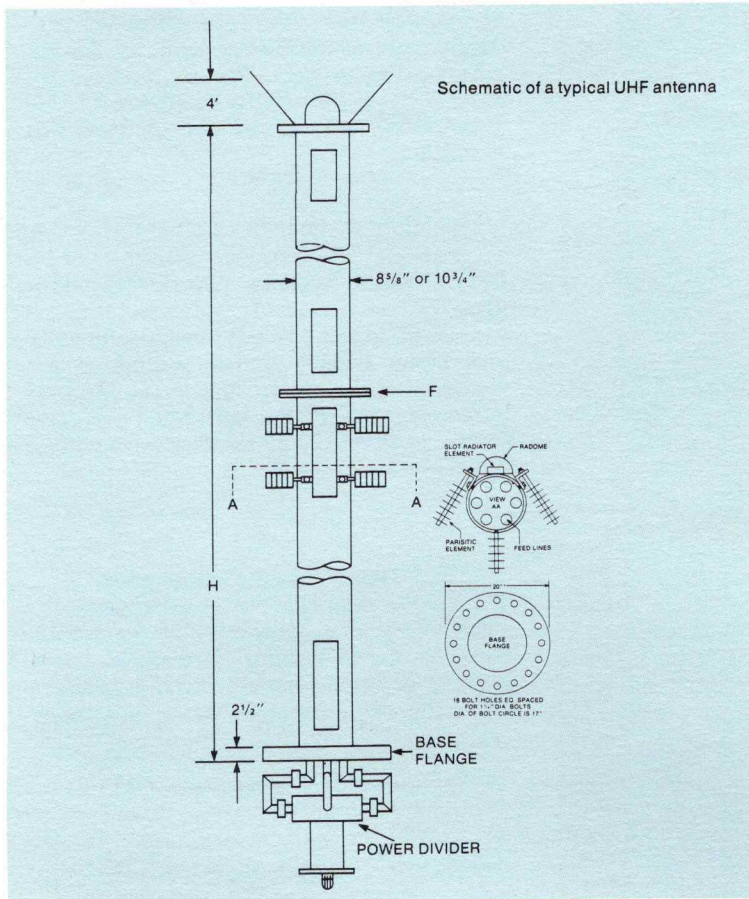
1000 Watt UHF Amplifier (additional features)

- Integral-cavity klystron for high reliability and tuning ease.
- All high-voltage circuits are interlocked to insure personnel protection.

Ampex brings you the highest quality 100 watt and 1000 watt translators for reliable, unattended service. These units are designed for high performance and low-cost maintenance. Featured is a wide receiving capability (channels 2-13 VHF for Models TVU-100BT and TVU-1000BT or channels 14-83 UHF for Models TUU-100BT and TUU-1000BT) and translation to the selected UHF channel.

Ampex BR Series UHF and VHF Antennas

Omnidirectional and directional UHF and VHF high power television broadcast antennas feature a new approach to optimum coverage.



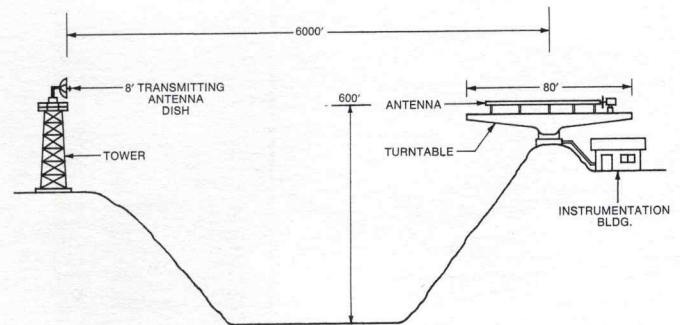
FEATURES

- Low wind area and weight.
- All parallel, internal feed system.
- Directive gains to over 300 at no price premium.
- Measured vertical and horizontal plane patterns supplied.

Ampex Corporation offers omnidirectional and directional UHF and VHF high power television broadcast antennas. These advanced units permit a new approach to optimum coverage—without the cost penalties associated with directional or “flexible” designs previously available. The basic BR models combine two simple antenna techniques: the slotted cylinder and the director.

These service-proven techniques provide a low cost, efficient method of parasitically shaping the horizontal plane pattern. The wide choice of directional patterns, provided by the Ampex BR series, offers significant cost and load advantages over multi-modular or custom assemblies, but with all their versatility. Low power UHF antennas for use with Ampex translators are also available.

Ampex Antenna Test Facility



Ampex tests each and every antenna it manufactures. And, when the antenna is delivered, Ampex supplies measured horizontal and vertical radiation patterns.

The Ampex antenna test facility is located in the mountains of western Massachusetts a few miles from the Ampex RF Systems manufacturing facility in Westfield, Massachusetts. A bowl shaped valley separates the transmitting tower from the receiving area at the 6000 foot range.

The receiving site is situated high above all surrounding terrain for highest possible accuracy. The test range has been designed to best simulate the conditions encountered on a transmitting tower where an antenna is free from reflections.

SPECIFICATIONS*

	Model No.	Channel Range	Gain**	Power Input Rating	Vertical Beam Width	Vertical Pattern Type	Horizontal***
VHF Television Antennas	BR 2L	2-6	2.4	20 kW	24°		Omni
	BR 4L	2-6	4.7	20 kW	12°		Omni
	BR 6L	2-6	7.1	20 kW	9°		Omni
	BR 2H	7-13	2.4	20 kW	24°		Omni
	BR 4H	7-13	4.7	50 kW	12°		Omni
	BR 6H	7-13	7.1	50 kW	9°		Omni
	BR 8	7-13	9.3	50 kW	6°		Omni
	BR 12	7-13	14.1	50 kW	3°		Omni
UHF Television Antennas	BR 10	14-83	9.4	2 kW		Std.	Omni
	BR 20	14-83	18.8	3 kW		Std.	Omni
	BR 25	14-69	23.0	30 kW		Std.	Omni
	BR 30	14-69	27.5	60 kW		Std.	Omni
	BR 30S	14-69	24.0	60 kW		Heavy	Omni
	BR 35	14-69	32.0	110 kW		Std.	Omni
	BR 35S	14-69	27.0	110 kW		Heavy	Omni
	BR 40	14-69	36.5	110 kW		Std.	Omni
	BR 40S	14-69	32.0	110 kW		Heavy	Omni
	BR 50	14-69	46.0	110 kW		Std.	Omni
	BR 50S	14-69	40.0	110 kW		Heavy	Omni

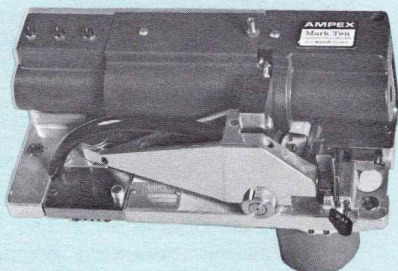
Standard vertical pattern: 17%, 7%, and 5% null fill.
Heavy vertical pattern: 33%, 11%, and 5% null fill.

**Electrical beam tilt does not vary pattern or gain up to a few degrees.

***A wide variety of directive horizontal patterns are available at no increase in price.

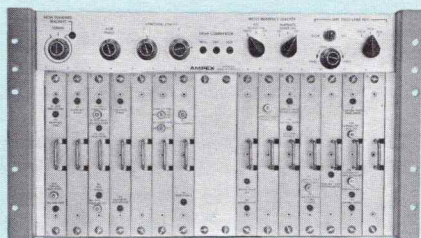
*Subject to change without notice.

Accessories



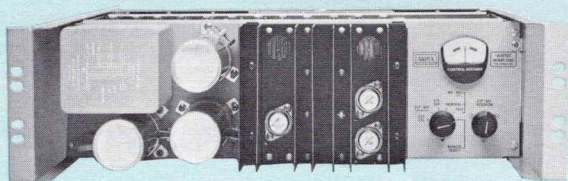
Mark Ten Video Head Assembly

The Ampex Mark Ten Head offers high efficiency and compatibility with all Ampex videotape recorders. Plug-in modules are utilized by the Mark Ten to enable it to be matched to the various Ampex recorders available.



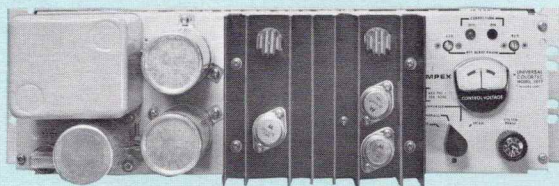
INTERSYNC* Television Picture Synchronizer

Ampex Intersync is a completely solid state unit which permits precise locking of the videotape recorder to the system's sync generator. It provides for no-roll switching from one video source to another, including taped picture material.



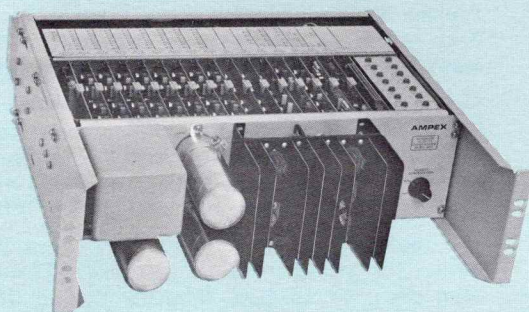
AMTEC* Time Element Compensator

The Amtec time element compensator provides line-by-line compensation for timing errors in the composite video signal. This corrects geometric distortions such as skewing, scalloping, quadrature, essing, and water-fall.



COLORTEC* Direct Color Recovery System

Colortec is a compact, direct color recovery system applying ultra-precise time-base compensation to tape signals—so resultant color output signals are highly stable. Signals are synchronous, line-by-line, to an external 3.58 MHz subcarrier signal source.

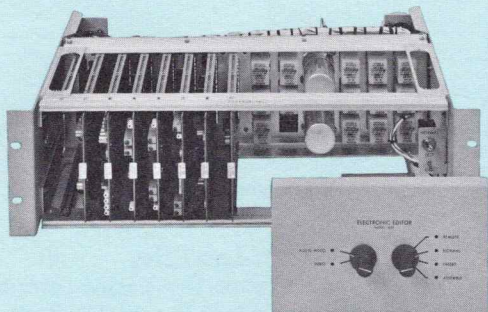


Automatic Velocity Compensator

Different recorders may have different female guide height and radii, with consequent errors resulting from head tip velocity difference. Picture errors, particularly color hue banding are effectively nullified by the Ampex Velocity Compensator.

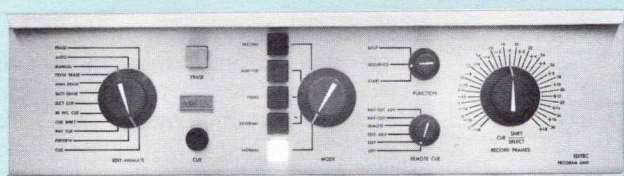
**TM Ampex Corporation*

Accessories



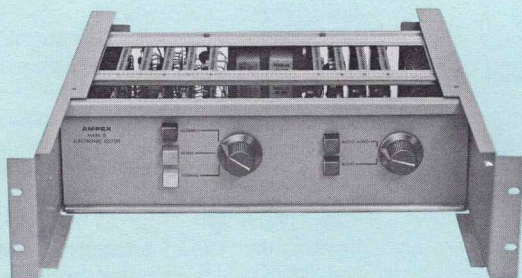
Mark III Electronic Editor

The Ampex Electronic Editor permits completely electronic splicing of program material. Scenes can be assembled or substituted at will, without discontinuity of video, audio, or sync. Compatibility with Ampex Editec* units for precise, teleproduction editing.



Mark I Editec* System

For accurate, flexible editing on VR-1200C and VR-2000 Series Videotape Recorders equipped with the Mark III Electronic Editor. Color or monochrome program can be assembled on a scene-by-scene basis into a first generation master tape. Electronic splices are assured to one-frame accuracy.



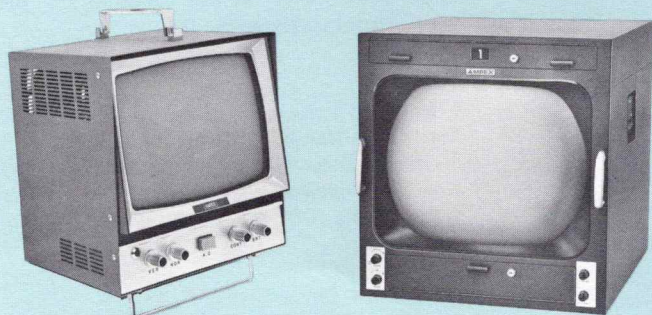
Mark II Editec* System

Offering teleproduction capability at low cost when used with the Ampex Mark III Electronic Editor, the Mark II Editec system permits precise timing control of editing in either color or monochrome. It combines all editing and programming functions in one easy-to-use unit.



Electronic Videotape Timer and Readout

Large luminous digital readout displays "time remaining" or "elapsed time" in hours, minutes, and seconds. The Ampex Electronic Timer allows automatic "turn-on" or "turn-off" of other equipment at any preset time. Up to four additional remote readouts can be used.



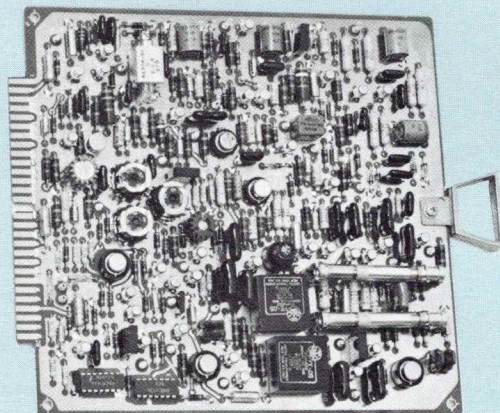
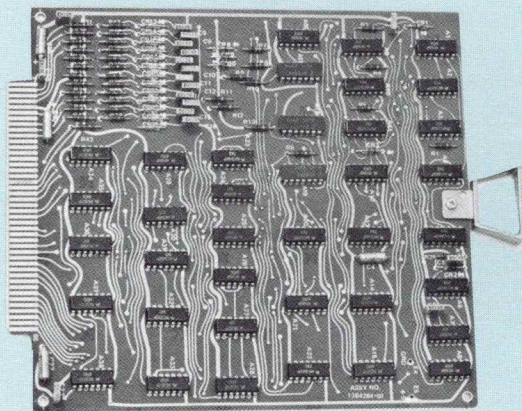
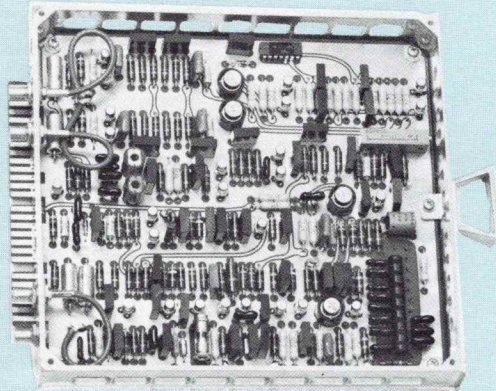
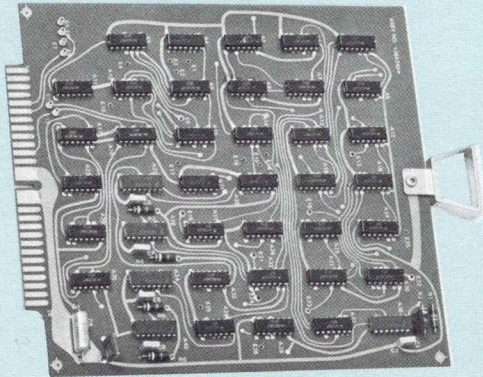
Broadcast Television Monitors

Ampex offers a variety of broadcast quality color and monochrome monitors in rack or cabinet configurations. Screen sizes range from an eight-inch monochrome model to a 21-inch high resolution color monitor. All are built for continuous duty with a minimum of maintenance.

*TM Ampex Corporation

AVR-1 Accessories

Typical Circuit Board Accessories:



The AVR-1 is pre-wired for all accessories. Most installations require only plugging in those accessory boards required.

Color One-Line Delay

The One-Line Delay senses dropouts and replaces them in the proper phase with video and chroma information from the previous line.

New Auto-Choma

Provides the AVR-1 with continuous high-speed automatic control of color saturations from each of the four video heads-with no need for head adjustment. Color saturation control is extended to a line-by-line basis as well as band-by-band.

Color Framing Accessory

Used in combination with the AVR-1 Mark IV Electronic Editor, this accessory matches the color phase of new video frames being edited into a tape to video frames already recorded.

Auto Tracking

Permits the AVR-1 to automatically position the tape during playback to optimize the signal level recovered from the tape (manual adjustment is standard).

Color Processing Accessories

Provides the electronics necessary to recover the direct color video signal. Two versions are available: one for NTSC, and another for PAL and SECAM as well as NTSC standards.

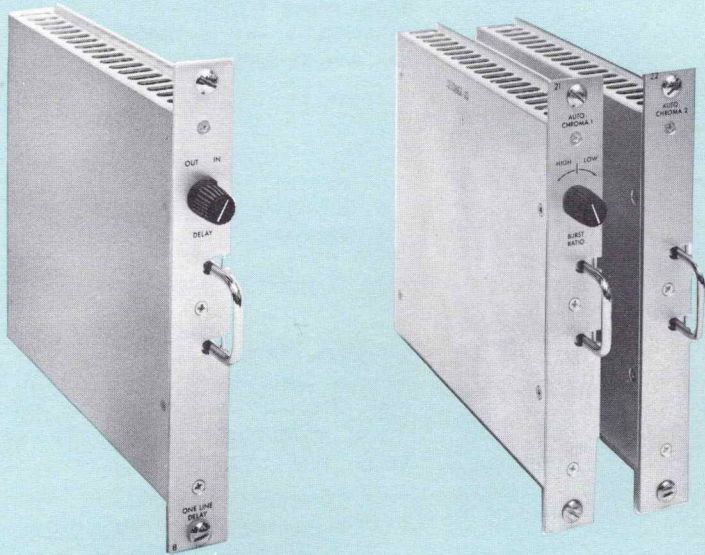
Vertical Interval Test Signal Processor (VITS)

Preserves the signal inserted into the vertical interval to check the performance of "long haul" communications systems.

Cue Track Time Code Readout Accessories

Permit the frame-by-frame time code and the special address codes for the RA-4000 Automatic Programmer, recorded on the cue track, to be read out on the Electronic Tape Timer.

Accessories

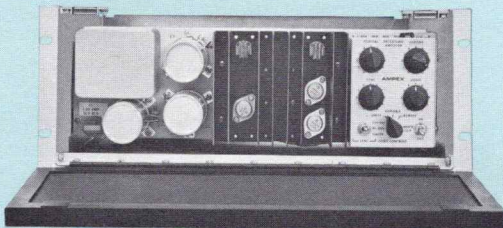


One-Line Delay

The One-Line Delay is used with Ampex videotape recorders equipped with the drop-out sensor. When a dropout is sensed, the video information in the previous good line (stored in the One-Line Delay) is substituted. With color, chroma is restored at correct saturation level.

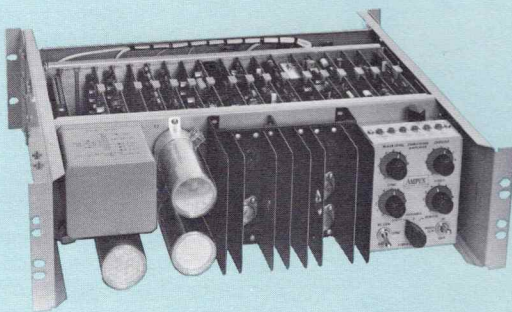
Auto-Chroma

Ampex Auto-Chroma provides fast continuous automatic control of color saturation from each of the four video heads. For tapes made on other machines, Auto-Chroma assures tighter, faster control of chroma, reduced head banding, and reduced need for operator attention.



Processing Amplifier

The solid state Ampex Processing Amplifier provides low-noise composite or non-composite video output from the videotape recorder. Negative going noise is kept from extending below the lowest level while color bursts are allowed to pass without change. Allows individual adjustment of video level, sync level, setup, burst amplitude, and phase.



Color Stabilizing Amplifiers

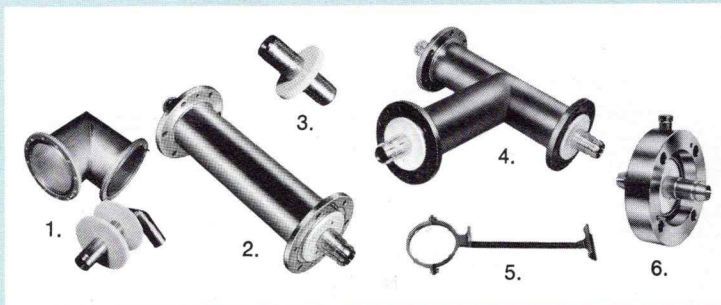
The Ampex Color Stabilizing Amplifier performs all of the functions of the conventional processing amplifier, plus the addition of sync to a non-composite signal. This solid state unit offers maximum signal cleanup and may be installed anywhere in the studio system.



Video Head Optimizer

The Ampex Video Head Optimizer (VHO) saves time and makes it easier to keep a videotape recorder at peak performance. Reduction of a 5 to 15 minute job to a mere 5-15 seconds makes it practical to optimize head current before every recording.

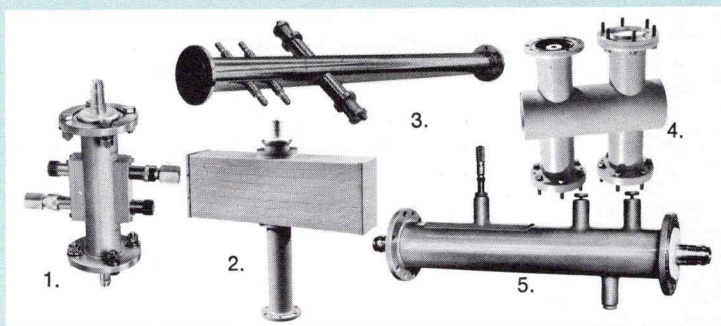
RF Accessories



Transmission Line, Elbows, Hangers

Ampex transmission line provides optimum performance—economically. Rugged construction is used throughout for a maintenance-free, long service life.

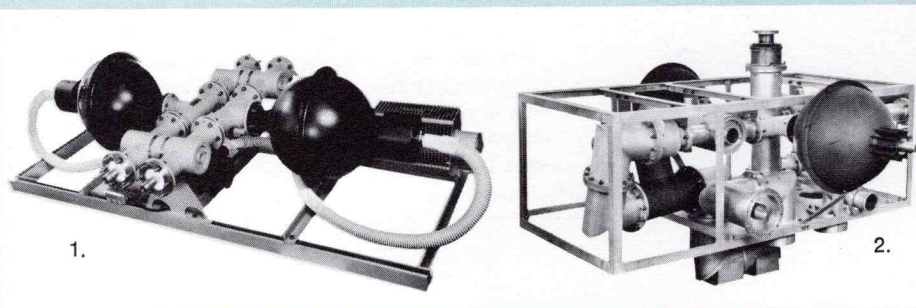
1. 90° Mitre Elbow
2. Transmission Line Section
3. High Power Anchor Connector
4. Matched "T" Junction
5. Spring Hanger with Clamp
6. Gas Barrier with Gas Port



Couplers, Filters, Tuners

Ampex transmission line products include high efficiency couplers, filters and tuners. These economical components are lightweight and compact – yet rugged.

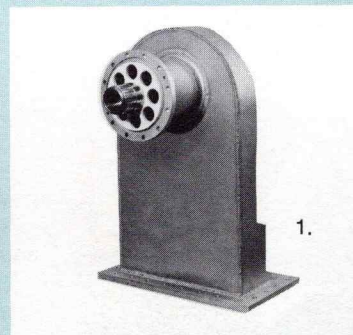
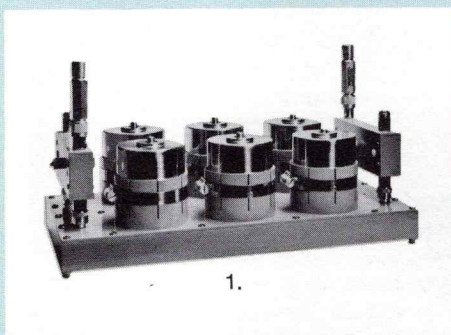
1. Directional Coupler
2. Harmonic Filter, Absorptive Type
3. Multiprobe Coupler
4. Hybrid Coupler
5. Transmission Line Tuner



Diplexers

Ampex field-tunable diplexers require no pressurization. They feature easy installation and maintenance. An integrated diplexer system includes diplexer, patch panel, 3.58 MHz notch filter, patch links and sampling probes.

1. High Power, Constant Impedance Notch Diplexer
2. High Power Integrated Diplexer System



Sideband Filters A.

All Ampex transmitters use low level sideband filtering. Advantages are ease of adjustment, small space requirement, and no possibility of over-heating.

1. Low Power Vestigial Sideband Filter

Waveguide Components B.

A full line of waveguide components is offered by Ampex. Each rugged component is designed to the maximum allowable bandwidth with optimum electrical characteristics.

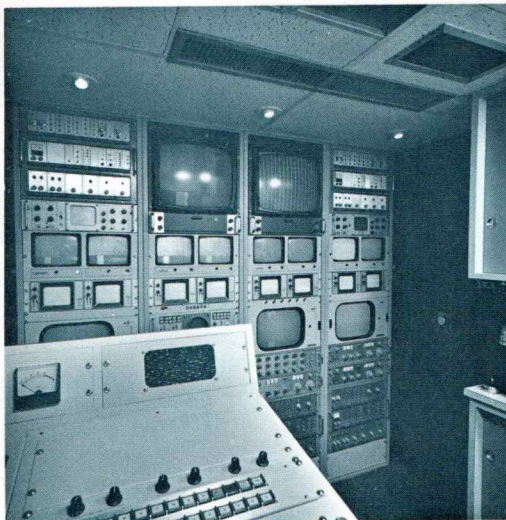
1. Waveguide to Coax Transition

Ampex Systems



As the world leader in Broadcast Video Products, Ampex gives you products unmatched in new innovations, professional performance, economical operation, and proven reliability. The customer benefits from our experience not only in a superior product but in complete video systems.

Whether customized portable recorder, mobile van or complete broadcast station, Ampex provides totally compatible components. We can also provide professional help in tailoring the system to your particular requirements or even build the entire facility for you.



Complete mobile video units for remote operation

Parts and Service

The complete line of Ampex Broadcast Television Equipment described in this catalog is backed by a worldwide service organization of highly-qualified, factory-trained field service engineers. All parts are available on a 24-hour delivery basis by calling your nearest Ampex Video Sales Office listed on the back cover.

Systems for air-transportable on-location teleproduction



Special teleproduction facilities made to order.



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INTERNATIONAL

ARGENTINA
ELECTRONICA AMPEX S.A.
Cerrito 836, 9° Piso
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Buenos Aires

AUSTRALIA
AMPEX AUSTRALIA PTY. LTD.
NRMA House, 26 Ridge Street
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AMPEX DO BRASIL ELETRÔNICA LTDA.
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AMPEX PAN AMERICA CO.
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Bogota, D.F.

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AMPEX GREAT BRITAIN, LTD.
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AMPEX S.A.R.L.
14, Avenue Pierre Grenier
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GERMANY
AMPEX GmbH
Postfach 288
Herrenbergerstrasse 95
7030 Boeblingen

AMPEX EUROPA GmbH
Walter-Kolb Strasse 9-11
6 Frankfurt/Main

HONG KONG, B.C.C.
AMPEX WORLD OPERATIONS, S.A.
1801-1805 Star House
3 Salisbury Rd.
Kowloon

JAPAN
TOSHIBA AMPEX CO., LTD.
No. 555 Sunaba, Tokiyama-cho
Kohoku-ku, Yokohama
AMPEX JAPAN LIMITED
3 Kojimachi, 3-Chome
Chiyoda-ku
Tokyo 102

LEBANON
AMPEX S.A.
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MEXICO
AMPEX DE MEXICO S.A. de C.V.
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Ave. División del Norte No. 1832
Mexico 13, D.F.

PUERTO RICO
AMPEX PAN AMERICAN CO.
P.O. Box 1590
Carolina 00630

SOUTH AFRICA
AMPEX SOUTH AFRICA (PTY.) LTD.
P.O. Box 10678
Johannesburg

SWEDEN
AMPEX A.B.
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SWITZERLAND
AMPEX S.A.
P.O. Box 831
Via Berna, 2
6901 Lugano, Tessin

UNITED STATES
AMPEX INTERNATIONAL
OPERATIONS, INC.
(HEADQUARTERS)
Box 4000
Redwood City, California 94063

AMPEX INTERNATIONAL
OPERATIONS, INC.
555 Madison Ave.
22nd Floor
New York, New York 10022
AMPEX PAN AMERICAN COMPANY
Box 4000
Redwood City, California 94063
Contact nearest International Office
regarding term financing and leasing.

AMPEX

Ampex Corporation, Video Products Division
401 Broadway
Redwood City, California 94063