

VIDEO TAPE RECORDER

VT-700

CRYSTAL FERRITE HEAD

1/4 INCH TAPE



A NEW WORLD.....THE WORLD OF VIDEO!!

Another first quality Video Tape Recorder by the World's leading Video/Audio Specialists. This model features AKAI's newly developed single X'TAL FERRITE Video Heads for longer wear and a more stable picture. The utilization of AKAI perfected 1/4" video tape cuts operating costs by at least 1/3. These and many other new and exciting features have been incorporated in the Model VT-700 for perfect adaptability to business as well as education or pleasure.

AKAI®

MANUFACTURED & DISTRIBUTED BY AKAI ELECTRIC CO., LTD./AKAI TRADING CO., LTD.

Camera Set

Uni-Directional Dynamic Microphone

Tripod

Non-Directional Dynamic Microphone



Tape Reel

DAKAI
MAGNETIC TAPE
VT-8

Video Tape



EMI MUSIC GROUP
100 EAST WHEEL
97-10

Tape Reel

Video Tape

TV Signal	Available for U.S. Standard TV Signal or C.C.I.R. Standard TV Signal
Recording System	Twain rotating heads, Helical scan format
Recording Time	2 hours using a 10- $\frac{1}{2}$ " reel, $\frac{1}{2}$ mil tape
Tape Speed	11- $\frac{1}{4}$ " per second (C.C.I.R. 238.5 mm/sec)
Tape Width	$\frac{1}{4}$ " tape
Reel Capacity	Up to 10- $\frac{1}{2}$ " reel
Resolution	200 lines
Video S/N Ratio	Better than 40 dB
Video Input	0.5 to 2 Vp-p, 75 Ω unbalanced
Audio Input	Mic: 60 dB/600 Ω Line: 0.3 V RMS/100 k Ω

Audio Bandwidth	100 to 10,000 Hz (± 3 dB)
Audio S/N Ratio	Better than 40 dB
Video Output	1.4 Vp-p
Audio (Line) Output	1 V RMS (± 3 dB)
Wow & Flutter	0.13% RMS
Power Requirements	100 to 240 V AC, 50/60 Hz
Power Consumption	130W
Dimensions	390(W) x 465(H) x 245(D) mm (15.6" x 18.6" x 9.8")
Weight	20 kg (44 lbs.)

VT-7R 7" Empty Reel	1
VT-7 7" Video Tape	1

The AKAI policy is one of continual development and improvement. For that reason, AKAI reserves the right to change specifications without notice, and without incurring any obligation relating to models previously manufactured by them.

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AKAI ELECTRIC CO., LTD.
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Ohta-ku, Tokyo, Japan

① CARRYING HANDLE

② REEL SIZE SELECTOR

The VT-700 accommodates 5, 7, and 10-1/2" reels. For easy reel size selection and perfect tape tension, simply operate pole-type Reel Size Selector. Extended two hours recording with a 10-1/2" video tape (1/2 mil. tape). Set to 5-7, or 10-1/2 position to correspond with reel size.

③ HEAD ASSEMBLY

The VT-700 employs two rotating video heads which operate on the helical scanning principle whereby the video heads rotate within a drum, touching the magnetic tape through a narrow slot in the drum for video recording and playback. A stationary Control/Audio Head is positioned outside of the head drum for synchronous audio recording and playback. Further, a Full Track and separate Side Track Erase Head is provided for erasure of old tapes on which new recordings are to be made or for sound dubbing.

④ SOUND DUBBING BUTTON AND INDICATOR LAMP

Ever wish you could change the background music or other sound track information, but preserve the video material? With the VT-700, it's as easy as rewinding the tape and talking into the microphone. Dub sound through microphone while viewing picture on monitor screen, or dub sound through the line-in connection. Convenient Sound Dubbing Indicator Lamp for quick confirmation of dubbing mode.

⑤ VIDEO TRACKING CONTROL — COMPLETE TAPE INTERCHANGEABILITY

Synchronizes (fine adjusts) the video mechanism for a stable picture when using tapes recorded on another AKAI VTR Tape Recorder. Tapes are completely interchangeable with other AKAI VTR models.

⑥ AGC VIDEO AND AUDIO CONTROL

AGC (Automatic Gain Control) for automatic recording level adjustment. You needn't watch the VU Meters as the automatic circuits will do the job for you. AGC takes the guess work out of the synchronization of audio and video recording levels. Simply set controls to AGC position for perfect results every time. Also equipped with Manual Audio and Video Recording Level Control.

⑦ CAMERA/TV SWITCH

For TV recording or playback, set to TV(out) position. When recording from camera, depress to Camera(in) position.

⑧ INDEX COUNTER W/RESET BUTTON

4-Digit Index Counter with Reset Button for easy indexing. Provides an easy reference for quickly locating positions on a tape.

⑨ STAND-BY BUTTON

A unique feature of the Model VT-700 is the Stand-By function which stabilizes motor revolutions (correct speed is attained) prior to recording or playback operation. This feature enables complete stabilization of picture from the very first instant of operation.

⑩ READY-STILL BUTTON

For a still picture during playback, simply set this button to OUT position and depress the Stop Button (stops reel movement, but allows still picture to remain on screen). Convenient when verbal explanation or discussion of a certain scene is desired.

⑪ VIDEO AND AUDIO VU METERS

Large separate video and audio VU meters for easy level adjustment.

⑫ REMOTE CONTROL

Convenient remote control socket for distant operation. Operating functions can be remote controlled with optional accessory RC-16 Remote Control Unit.

⑬ TV CONNECTION PLUG

Input/Output TV connection for EIAJ Standard Monitor TV. Use for playback or for recording "off air" TV broadcasts.

⑭ AC OUTLETS

Two unswitched 300W AC Outlets are provided at the rear of Model VT-700 for extra convenience.

⑮ RF CONVERTER/TV TUNER RECEPTACLE

For connection of an AKAI RF Converter (optional accessory). The use of an RF Converter enables the utilization of an empty channel of your regular TV set for playback or for recording "off air" broadcasts.

⑯ CAMERA IN CONNECTION

For camera connection through Model VCA-600 AC Adapter connection cable. (This cable can also be used for receiving pre-recorded video information from another Model VT-700 VTR.).

Use Model VCA-600 camera connection cord for transferring pre-recorded video information to another Model VT-700 VTR.

⑰ VIDEO OUT CONNECTION

⑱ AUDIO LINE OUT JACK

For audio playback through an external amplifier or audio transfer to another tape recording unit. Connect to Tape Rec. Jacks or Input Jacks of external unit.

⑲ AUDIO LINE IN JACK

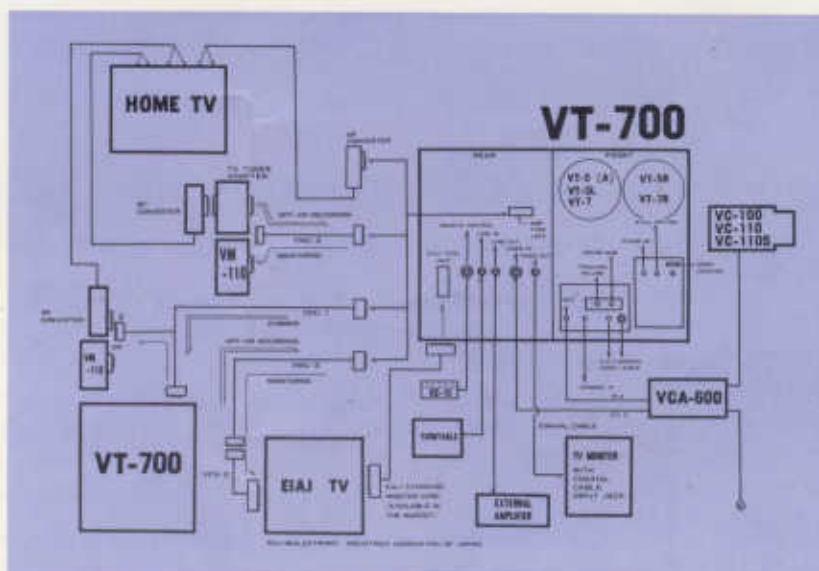
For receiving audio signals from an external source. Connect to line output jack of tuner amplifier or other external source.

⑳ UNIVERSAL VOLTAGE SELECTOR

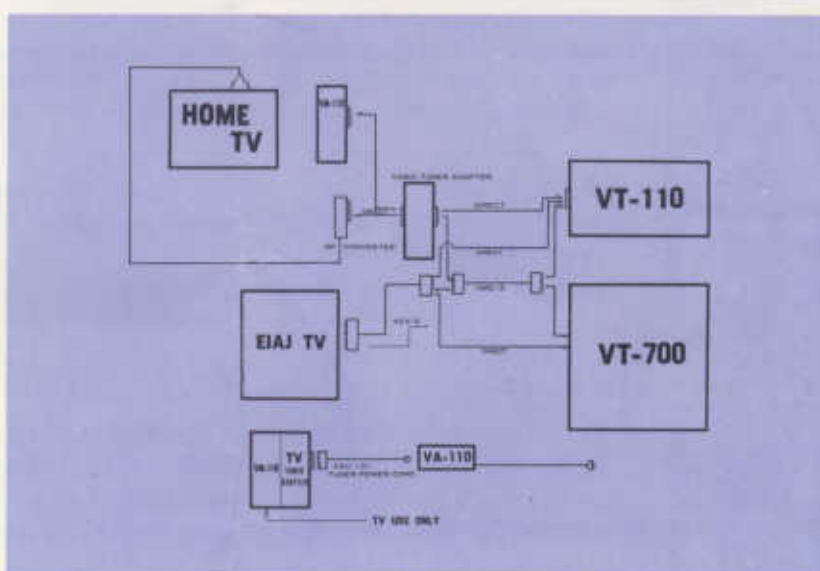
Operable anywhere in the world. Six-stage Voltage Selector (100 to 240V AC).

AKAI V.T.R. SYSTEM

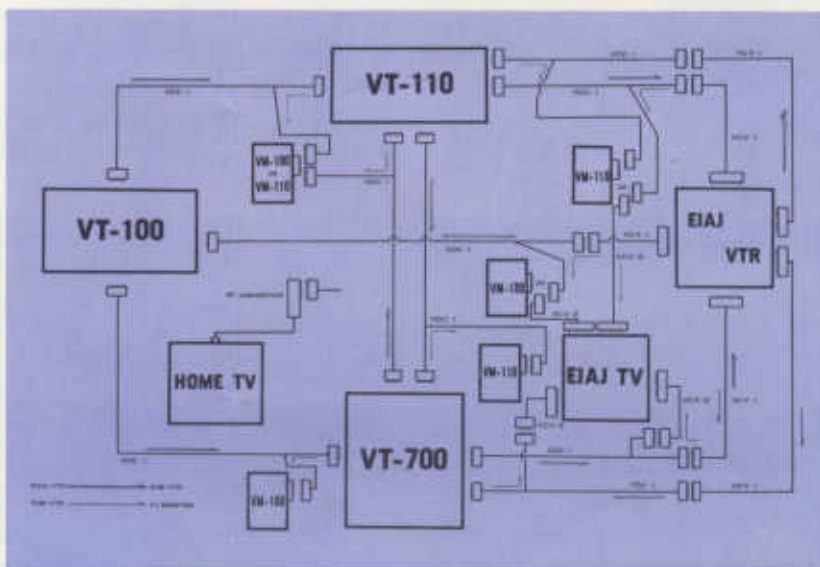
Basic V.T.R. System Connection



Off Air Recording



Basic Dubbing Connection



Varied Adaptability...Usage as unlimited as the imagination of the operator!

Decisions reached at important meetings as well as explanations of new products can be accurately passed along to Branches and Dealers from the Head Office.

Dealers and Salesmen can grasp advantageous sales points and learn what, to whom, where and how to sell; thus, increasing their chance for perfect success.

Use for factory or laboratory research. Company policy and training in office procedure can be effectively taught from pre-recorded tapes for a more efficient operation.

Salesmen and office personnel can be trained in salesmanship and office responsibilities for a more effective staff and improved sales productivity. Lectures and guidelines can also be reviewed as the need arises.

An actual scene is worth a thousand words! Recorded video tapes can be used for any number of educational purposes. Classroom instruction, medical lectures, or home study.

Students can absorb the material being presented more thoroughly. Interns and nurses can study actual operating procedures through pre-recorded tapes.

The VT-700 can be applied to a plethora of business uses. P.R. activities, Tourism, Employment Agencies, and Advertising, to mention only a few.

Perfect for home use too! A live recorded album of memorable trips and scenery or of family or children growing up will be a precious keepsake.

Enhance your private life and leisure time. Trips, weddings, parties or other social activities can be recorded for playback at a later date.

Sports events and game practice. Keep a permanent record of club activities and special contests or racing events. Effective also for self-improvement practice. Pin-point your weaknesses and correct them the VTR way!

Check the features and compare.....

VIDEO HEADS

In AKAI's unceasing quest for better ideas and superior performers in the world of video recording, attention was focused on the most crucially important video heads. The result was the development and perfection of AKAI's new Single Crystal Ferrite Head — the operating functions of which are not effected by climatic conditions. This non-varying performance assures clear and precise video recording and playback regardless of geographic locale. Further, the wear-free properties of the single crystal ferrite guarantees longer-lasting performance. These features together with a high performing brushless DC Head Motor produce a degree of picture sharpness which makes it incomparable with other models.

1/4" TAPE

Ordinarily, VTR equipment utilizes 1 or 1/2" tape. From an engineering standpoint, to develop a perfect tape with a narrower width was a difficult project due to poor picture resolution. However, through the use of AKAI's highly capable Crystal Ferrite Head, the development of a 1/4" tape, the performance quality of which is equal to 1/2" tape has become a complete reality. AKAI's 1/4" Video Tape ensures picture stability and crystal clear playback. The use of 1/4" tape drastically cuts operating costs. Because the tape can be erased and re-used, it is economical even when compared with film.

MECHANISM

As with AKAI Tape Recorders, AKAI VTR parts, beginning with the motor, are AKAI designed and AKAI manufactured. AKAI employs an integral research, development, precision assembly, and testing system of each individual part to ensure total mechanical dependability.

VARIED OPERATION

Operations to which the VT-700 is adaptable is as unlimited as the imagination of the operator. Designed to accommodate interconnection with a variety of accessories and equipment. Equipped with Camera-IN connection, TV connection, individual Video OUT, Audio-IN, Audio OUT connections and RF Converter receptacle. Connect with Model VC-110 Camera Set (Optional accessory) for video recording with companion audio sound track. Connect with an AKAI RF Converter to your own home TV Set for playback, or connect with an AKAI TV Tuner for "off-air" broadcast recording ("off-air" recording can also be made through EIAJ Standard TV set). Transfer from one Model VT-700 to another, or transfer from the VT-700 to an AKAI portable VTR (or vice-versal). These are only a few of the many possibilities with the new VT-700.

PORTABILITY AND OPERATING EASE

The robust mechanism does not hamper the portability of the unit. Sturdy leather wooden cabinet with carrying handle and matching cover makes into a handy carrying case for easy portability. Even an amateur can master the VT-700 controls in seconds! Feather-touch control panel as easy to operate as an ordinary tape recorder. Large audio and video VU Meters.

