

Panasonic®

AG-456U

2-Hour S-VHS Camera/Recorder
(NTSC)

Manual Zoom



- 12 x Power Zoom with Enhanced Manual Zoom Control
- VITC Recording with Reset
- S-VHS Picture and Hi-Fi Stereo Sound System
- Super-Low-Light Shooting Capability
- Variable Digital Functions — Mix, Tracer, Still, Strobe, and Wipe

**PRO
LINE**

S VHS

AG-456U 2-Hour S-VHS Camera/Recorder

Packed with a wealth of advanced recording and playback functions plus versatile special effects, Panasonic's high-quality AG-456U S-VHS Camera/Recorder offers outstanding features for demanding applications. It has a lightweight body, powerful editing functions, and a 12x Power Zoom that can also be controlled by hand for super-precise zooming. When combined with the AG-1970 S-VHS Hi-Fi Video Cassette Recorder and the AG-A96 Multi-Event Controller, it forms an economically priced and easy-to-use editing package with the excellent quality of S-VHS and Hi-Fi Stereo Sound. Highly precise VITC editing is also possible when used with the AG-DS850 Editing Recorder and AG-DS840 Player. Its outstanding ease of use and advanced functions will give you a head start in desktop video and countless other business and education applications.

12x Power Zoom with New Manual Zoom

Use the 12x Power Zoom to record close-ups with a continuously variable zoom speed, or zoom in manually for greater creative control. The high-performance stereo zoom microphone features three settings — automatic zoom, telephoto and wide angle — to handle just about any recording situation.



S-VHS Picture and Hi-Fi Stereo Sound System

With S-VHS, you are assured of high resolution recording and playback and superb color reproduction. And, the AG-456U's amorphous video heads maintain a high S/N ratio. To deliver sound quality that matches its picture performance, the AG-456U features two Hi-Fi Audio channels for dynamic stereo sound.

Super-Low-Light Shooting

The AG-456U's advanced CCD and highly sensitive lens system enables shooting — even under very unfavorable lighting conditions — with excellent results. Even in light levels as low as one lux (in Digital Gain Up mode), the AG-456U delivers clear, distinct images.

Convenient Digital Functions

Digital Mix for soft cross-fade between stored still and moving images, Digital Tracer to add an after-image effect to moving subjects, Digital Still lets you freeze a particular scene for as long as you like, without interrupting sound recording. There are also Digital Strobe and digital Wipe for professional effects.

Built-in Monitor Speaker

Built-in Monitor Speaker on the left side of the camera lets you monitor sound when shooting or playing back on-location, if required.

Built-in VITC Generator with Reset Function

The built-in VITC (Vertical Interval Time Code) generator gives each frame its own address during shooting. When recordings with VITC on an editing system consisting of the AG-DS850 S-VHS Hi-Fi Editing Video Cassette Recorder and the AG-DS840 S-VHS Video Cassette Player, high-precision time code-controlled editing becomes possible. And also VITC can be reset.

Other Valuable Features

- Full Range auto Focus (Macro — ∞)
- Audio/Video Fade-In and Fade-Out
- Automatic Tracing White Balance system
- Program AE (Auto Exposure)
- Manual Iris Control
- Variable High-Speed Shutter (1/60 — 1/8000 sec)
- Auto button for temporary auto focus in the manual mode
- Sensitivity switch (AGC: +10 dB, +20 dB)
- Audio out select switch (Hi-Fi/Normal/Mix).
- Audio/Video insert editing and audio dubbing capability
- Versatile editing facilities with variable terminals

Standard Accessories

- AC Adaptor **AG-B6HP**
- Battery Pack **AG-BP20P**
- System Carrying Case
- Headphone Connector
- Shoulder Strap
- Battery Pack Charging Connector
- Audio/Video Cable
- S-Video Cable
- DC Cable

Optional Accessories



Character Generator
VW-CG5P

Car Battery Cord
VW-ACM10P



Pause Remote Control
VW-RM1E

Specifications

■ GENERAL	
Power Source:	12V DC
Power Consumption:	Recording Mode: 9.8W (Battery Operation) 32°F — 104°F (0°C — 40°C)
Operating Temperature:	10% — 80%
Operating Humidity:	Approx. 6.17 lbs. (2.8 kg) (without battery pack)
Weight:	Dimensions (W × H × D): 5 1/16" × 9 1/2" × 18 1/2" (130 × 245 × 476 mm)
■ SYSTEM	
Television System:	EIA Standard NTSC color signal; 525 lines, 60 fields
Video Recording System:	Four rotary heads, helical scanning system
Modulation System:	Luminance: FM azimuth recording Color signal: Converted subcarrier phase shift recording
■ TAPE TRANSPORT	
Tape Speed:	SP: 33.35 mm/sec.
Tape Format:	S-VHS/VHS tape
Recording/Playback Time:	160 min. with NV-T160
FF/REW Time:	Less than 12 min. with NV-T120
■ VIDEO	
Video Horizontal Resolution:	S-VHS: More than 400 lines (S-Video Out) VHS: More than 250 lines Video: More than 45 dB (VHS)
Signal-to-Noise Ratio:	
■ AUDIO	
Frequency Response:	Hi-Fi: 50 Hz — 20 kHz Normal: 80 Hz — 8 kHz
Signal-to-Noise Ratio:	Hi-Fi: More than 47 dB Normal: More than 41 dB
Audio Track:	1 track (Normal) 2 channels (Hi-Fi)
■ INPUT LEVEL	
Input Level:	Mic In (M3): -70 dB, 4.7 kΩ or more, unbalanced
■ OUTPUT LEVEL	
Audio Output (Phono):	-8 dB, 47 kΩ, loaded
Video Output (Phono):	1.0 Vp-p, 75 Ω, unbalanced
S-Video Output:	1.0 Vp-p, 75 Ω, unbalanced
■ CAMERA	
Image Sensor:	1/3" CCD image sensor
Lens:	12:1 variable speed control Power zoom lens with Digital AI Auto Focus F1.6, Focal length: 5.7 — 67 mm, Auto Iris/Manual Iris Filter diameter: 49 mm 2/3" electronic viewfinder 1,400 lux
Viewfinder:	
Standard Illumination:	
Minimum Required Illumination:	1 lux (Digital Gain Up Mode)

Weight and dimensions shown are approximate. Specifications subject to change without notice.

Warning: Unauthorized recording of copyrighted television programs, films, video tapes and other materials may infringe upon the rights of copyright owners and be contrary to copyright laws.

This product may be subject to export control regulations.

Panasonic

Broadcast & Television Systems Company

Division of Matsushita Electric Corporation of America

Executive Office:
One Panasonic Way (3F-5), Secaucus, NJ 07094

Regional Offices:

EASTERN ZONE: One Panasonic Way, Secaucus, NJ 07094 (201)348-7410
SOUTHERN ZONE: 1275 Northbrook Parkway, Suite 1-160, Suwanee, GA 30174 (770)338-6835
WESTERN ZONE: 4001 W Alameda Ave., Suite 100, Burbank, CA 91505 (818)562-1501

Matsushita Electric Corporation of America
Corporate Sales Group, Hawaii Region
99-859 Iwaiwa St., Aiea, HI 96701-3267 (808)488-7779

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3 (905)238-2115

Panasonic Sales Company
Division of Matsushita Electric of Puerto Rico, Inc.
San Gabriel Industrial Park, 65th Infantry Ave., K. m.9.5,
Carolina, PR 00630 (787)750-4300