

EXHIBIT #	: 4-1
FCC ID	: ACJ927139AH
OUR REF.	: MKES00-F012
MODEL NO.	: VHQ-451

Technical Specification

Power Source	: AC 120 V 60 Hz
Power Consumption	: Approx. 23W
Television System	: EIA Standard (525 lines, 60 fields) NTSC Luminance : Frequency modulation Color Signal : converted sub carrier direct recording
Audio Track	: 1 track (Normal) 2 Channels (Hi-Fi Sound)
Tape Format	: Tape width 1/2" (12.7 mm), high density tape
Tape Speed	: 33.35 mm/sec. at SP mode 16.67 mm/sec. at LP mode 11.12 mm/sec. at SLP mode
Record/Playback Time	: 480 min. (max.)
FF/REW Time	: Less than 5 min.(T-120)
Heads	: Video : 4 rotary heads Audio : 1 stationary head (Normal) 2 rotary heads (Hi-Fi Sound) Control : 1 stationary head Erase : 1 full track
Input Level	: Video : Video Input Connector 1.0 V p-p, 75 ohms Audio : Audio Input Connector -10 dBV, 47 k ohms
Output Level	: Video : Video Output Connector 1.0 V p-p, 75 ohms Audio : Audio Output Connector -8 dBV, 600 ohms
RF Modulated Output	: Channel 3 and 4 (selective)
RF Input	: Same as conventional TV receiver
Video Horizontal Resolution (on mono scope test pattern)	: Color & B/W : More than 230 lines (VHS mode)
Audio Frequency Response	: 100 Hz - 8 kHz at SP mode (Normal Audio Sound) 20 Hz-20 kHz (Hi-Fi Audio Sound)
Signal to Noise Ratio	: Video : More than 43 dB at SP mode (VHS) Audio : More than 42 dB at SP mode (Normal) More than 60 dB (Hi-Fi)
Operating Humidity	: 10 % - 75 %
Operating Temperature	: 41F -104F (5C -40C)