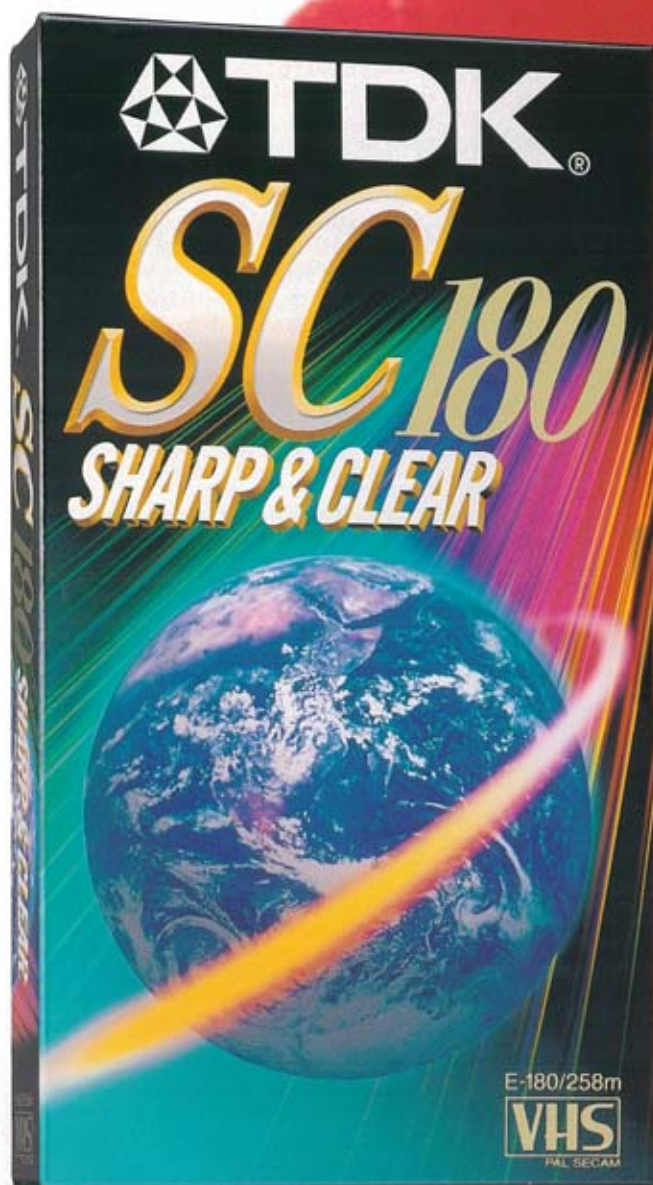


 **TDK**<sup>®</sup>

# SC

## SHARP & CLEAR



### Always Looking Great— SC Video Cassettes

#### **Lively, lifelike and beautiful images**

SC features fine magnetic particles of Avifine, which are closely packed onto the tape in high density. This works to realise a high output over the entire frequency range. Giving the surface of the magnetic layer a smooth, mirror-like finish reduces modulation noise, a factor that can cause degraded image quality. As its name assures, SC means that this tape's video images will always be Sharp and Clear.

#### **Stands up to repeated hard usage**

Use of hyper-mighty base film gives SC outstanding toughness and durability, making it particularly resistant to flaking. In addition, a TDC (Three Dimensional Compound) binder strongly links the individual magnetic particles together, while at the same time providing a secure bond between the magnetic layer and the base film. This gives SC superb durability that stands up to the rigours of daily recording and playback usage, for beautiful video images that stay that way.

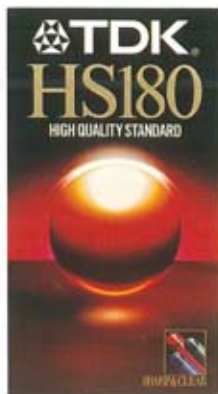
*Recommended: Daily recording from television,  
time-shift viewing, and repeated heavy use.*

Available lengths: E-120SC, E-180SC, E-195SC, E-240SC  
T-120SC (NTSC)

 **VHS**  
PAL SECAM

# For the Best in Image and Sound—TDK Video Tape

## VHS VIDEO TAPES



### HS



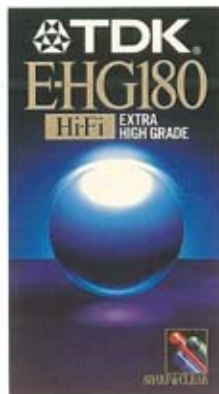
A high-quality standard tape with superb colour reproduction and added durability

TDK HS utilises Avifine particles. These particles boast a high  $\sigma_s$ , i.e., offer a high level of saturation magnetisation and are therefore capable of high individual output. Use of a high-dispersion binder ensures that particles are densely packed in the magnetic layer. This means that TDK HS achieves beautiful results, even with recordings in the LP mode. Its reinforced base film, designed to stand up to the rigours of such operation modes as

high speed picture search, helps to ensure outstanding durability.

*Recommended: Regular use, time-shift viewing, repeated heavy use, and video library applications.*

*Available lengths: E-60HS, E-120HS, E-180HS, E-195HS, E-240HS*



### E-HG



A high-performance tape with sharply defined colour plus dynamic audio

TDK E-HG makes use of ultra-fine Avifine particles, along with a high-dispersion binder that enables high-density packing of particles, plus a high degree of particle orientation in the magnetic layer. A special calendaring process is used to give the tape surface a smooth, mirror-like finish. These work together to give E-HG an even sharper imagery, with natural, life-like colours. It also achieves superb sound reproduction, offering dynamic

audio performance to users of Hi-fi VCRs.

*Recommended: Long play, live stereo broadcasts, A/V dubbing masters, camera-recorder taping, and video library applications.*

*Available lengths: E-60EHG, E-120EHG, E-180EHG, E-195EHG, E-240EHG*

## S-VHS VIDEO TAPES



### XP



The Super VHS tape acclaimed for stunning detail and beautiful colour

TDK XP makes use of multi-layer Super Avilyn particles featuring high  $\sigma_s$  performance. A high-dispersion binder affords improved particle orientation and high-density packing in the magnetic layer. Along with its outstanding video and Hi-fi audio characteristics, this also contributes to a stronger magnetic layer. As a Super VHS tape, it realises a superbly defined image and high-quality audio performance. Even recordings in the LP mode retain high

horizontal resolution for an extra-sharp image.

*Recommended: Long play, live stereo broadcasts, A/V dubbing masters, camera-recorder taping, and video library applications.*

*Available lengths: SE-120XP, SE-180XP, SE-240XP*



### XP PRO



The premium Super VHS tape with unsurpassed image and sound performance

XP PRO is TDK's highest performance Super VHS tape. It makes use of a finer variety of Super Avilyn particles with boosted  $\sigma_s$ , featuring a multi-layer structure and further refined through advanced orientation and calendaring processing technology to provide a high-density, high-precision coating of the magnetic layer. This realises an extremely smooth surface, thus helping to achieve high output at all frequencies, as well as low noise. Gives

a high-definition image with finely delineated colours, even when viewed on extra-large monitors or projection TV. Equally praised for its powerful sound reproduction with satisfyingly realistic presence.

*Recommended: Original master taping, editing masters, camera-recorder taping, and other A/V applications.*

*Available lengths: SE-30XPP, SE-60XPP, SE-120XPP, SE-180XPP, SE-240XPP*

### Technical Specifications

Item	Unit	VHS			S-VHS	
		SC	HS	E-HG	XP	XP PRO
<b>DIMENSIONS</b>						
Tape Thickness	$\mu\text{m}$	17.5	17.5	17.5	17.5	17.5
Tape Width	mm	12.65	12.65	12.65	12.65	12.65
Tape Width Fluctuation	$\mu\text{m}$	3.0	3.0	3.0	3.0	3.0
<b>PHYSICAL PROPERTIES</b>						
Residual Elongation	%	0.05	0.05	0.05	0.05	0.05
Yield Strength	N	26	26	26	26	26
Surface Electrical Resistance	$\Omega/\text{sq}$	$5 \times 10^8$	$5 \times 10^8$	$5 \times 10^8$	$5 \times 10^8$	$5 \times 10^8$
<b>MAGNETIC PROPERTIES</b>						
Magnetic Particle		Avifine	Avifine	Avifine	Super Avilyn	Super Avilyn
Coercivity	kA/m	58.1	58.1	59.7	76.4	78.0
Remanence	mT	135	135	150	165	170
Squareness Ratio		0.82	0.82	0.83	0.86	0.88
<b>VIDEO CHARACTERISTICS</b>						
Optimum Recording Current	dB	0	0	0	0	0
RF Output	dB	+1.5	+1.5	+3.0	+2.0	+3.0
Luminance S/N	dB	+2.0	+2.3	+4.0	+1.0	+1.0
Chroma Output	dB	+1.0	+1.0	+2.5	+2.5	+2.5
Chrominance S/N	dB	+1.5	+2.0	+3.5	+1.0	+1.5
Still	Minutes	Over 60	Over 60	Over 60	Over 60	Over 60
<b>AUDIO CHARACTERISTICS</b>						
Sensitivity	dB	+0.5	+0.5	+1.0	—	—
Frequency Response	dB	0	0	+0.5	—	—
Uniformity (7kHz)	VU	0.3	0.3	0.3	—	—
Erasure	dB	Over 70	Over 70	Over 70	—	—
Hi-fi Output	dB	—	—	+0.5	+5.0	+5.0

•The above specifications are representative values of E-180/SE-180 tape, based on standard TDK measurements. •Video characteristics (excluding still) and audio characteristics (excluding uniformity and erasure) are derived in the SP mode and by comparison with TDK standard tape (VHS and S-VHS reference tape, respectively). •RF output values are 4MHz for the VHS format and 7MHz for the S-VHS format. •Audio characteristics (excluding hi-fi output) are for the standard audio track.



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