FUJIFILM
I&I – Imaging & Information

MPEG IMX

DIGITAL VIDEOCASSETTE

MX321

Outstanding image quality and reliability for next-generation MPEG IMX systems

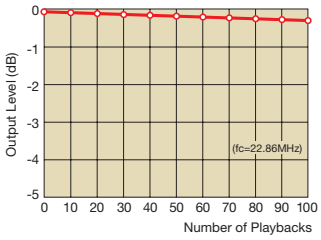
Newly Developed Magnetic Particles and Advanced Calendering Technology Assure High C/N Ratio

Fujifilm MX321 video tape features newly developed ultra-fine, high-output metal magnetic particles for outstanding performance. Extremely uniform in size, the particles are packed to extremely high density to assure high output and low noise for a high C/N ratio at all wavelengths. Performance is further enhanced by exclusive Fujifilm calendering technology that gives the magnetic layer surface a super-smooth finish for optimum head contact.

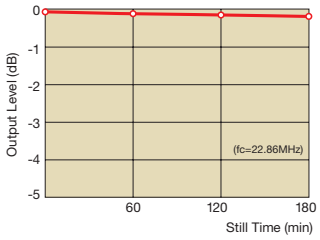
New Base Film and Binder Material for Superior Transport Stability and Durability

The base film assures smooth, stable tape transport and is exceptionally durable and resistant to deformation. The binder material offers superior adhesion and durability that reduces head clogging and increases reliability under the extreme demands of ENG/EFP fieldwork and video editing.

Changes in RF Output Level after Repeated Playbacks

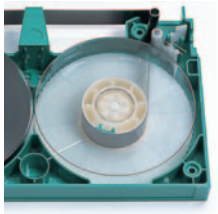


Changes in RF Output Level after Still Playbacks



New Reel Offers Superior Winding

New reel design prevents air from being 'wound in' to the tape by assuring that air is expelled from the reel during high-speed shuttle operation. Tape is wound more evenly as a result, reducing the chance that damage will occur if the cassette is dropped or subjected to sudden impact.



Outstanding Long-Term Storage Characteristics

The ultra-fine magnetic particles are individually coated with an antioxidant to prevent magnetic performance from being degraded during long-term storage. As a result, the C/N ratio stays high for consistent playback performance of archived materials. The error rate also remains low after extended storage because we use exclusive technologies to prevent tape shrinkage and the mistracking that can result from track pattern deformation.

High-Precision, High-Rigidity, Color-Coded Cassette Shells

The cassette shells protect the tape during long-term storage and outdoor shooting, and shut out dirt and dust that can cause dropouts and errors to increase. In addition, distinctive green shells and hardcases make it easy to differentiate the MX321 cassettes from other Betacam cassettes.

FUJIFILM MX321 Digital Videocassette Technical Data

Magnetic Properties	
Coercivity (Hc)	130 kA/m
Retentivity (Br)	252 mT
Physical Properties	
Tape Width	12.65 mm
Tape Thickness (Total)	13.3 µm
Magnetic Layer	1.5 µm
Yield Strength	20 N
Breaking Tensile Strength	40 N
Video Performance	
RF Output	0 dB*
Video C/N	0 dB*

Note: The figures marked with * are comparisons with FUJIFILM reference tape.
Specifications are subject to change without notice.

FUJIFILM MX321 Digital Videocassette Line-up

Cassette	Size	Tape Length	Recording Time (min.)		Dimensions		Weight (Including Case)
			PAL	NTSC	Cassette shell	Case	
S	6 S	30 +3 -6 m (98 ft.)	7	6	156 x 96 x 25 mm	172 x 112 x 32 mm	210 g (0.46 lbs.)
	12 S	53 +3 -6 m (174 ft.)	14	12			216 g (0.48 lbs.)
	22 S	92 +3 -6 m (302 ft.)	26	22			226 g (0.50 lbs.)
	32 S	131 +3 -6 m (430 ft.)	38	32			237 g (0.52 lbs.)
	60 S	239 +3 -6 m (784 ft.)	71	60			265 g (0.58 lbs.)
L	64 L	260 +3 -6 m (853 ft.)	76	64	254 x 145 x 25 mm	271 x 162 x 32 mm	604 g (1.33 lbs.)
	94 L	376 +3 -6 m (1,234 ft.)	112	94			635 g (1.20 lbs.)
	124 L	493 +3 -6 m (1,618 ft.)	148	124			666 g (1.47 lbs.)
	184 L	725 +3 -6 m (2,379 ft.)	220	184			728 g (1.60 lbs.)

FUJIFILM

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