

ITS ORIGINS

In March of 1983 The Electronic Still Camera Conference was organized in order to work out a standardized format for recording and reproducing still video pictures on a small magnetic disc. Three working groups - the Signal Format WG, the Cartridge WG and the Media WG - were initially set up and a fourth working group, the Cue Track WG, was added shortly thereafter. By May of 1984 the working groups had drawn up specifications for the cartridge, the disc, the track pattern, and the video signal processing. The Electronic Still Camera Conference agreed on these

specifications and the new format was given the name "Still Video Floppy Disc System". The members of the Conference studied the specifications and decided to consider two new proposals. The first proposal was that a method for recording digital information on the disc be developed, and the second proposal was that a method for recording time-compressed analog audio signals be developed. These two proposals were studied for a year before specifications were drawn up in July 1985.

CONFERENCE MEMBERS

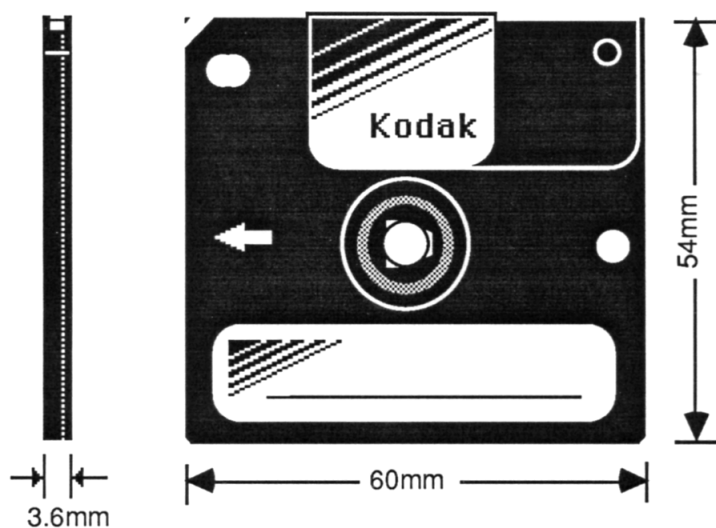
Asahi Optical Co., Ltd.
BASF Aktiengesellschaft
Canon Inc.
Casio Computer Co., Ltd.
Chinon Industries Inc.
Citizen Watch Co., Ltd.
Copal Company Ltd.
Columbia Magnetic Products Co., Ltd.
Dai Nippon Printing Co., Ltd.
Eastman Kodak Company
Elmo Co., Ltd.
Fuji Photo Film Co., Ltd.
Hitachi Ltd.
Hitachi Maxell Ltd.
Kasei Verbatim Corporation
Keystone Camera of Japan Ltd.
Konishiroku Photo Ind. Co., Ltd.
Kyocera Corporation
Matsushita Electric Industrial Co., Ltd.
Mamiya Camera Co., Ltd.
Minolta Camera Co., Ltd.

Mitsubishi Electric Corporation
NEC Corporation
NEC Home Electronics, Ltd.
Nippon Kogaku K.K.
Philips International B.V.
Olympus Optical Co., Ltd.
Ricoh Company
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Sanyo Electric Co., Ltd.
Seikosha Co., Ltd.
Sharp Corporation
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Space-Wide Enterprises
Sumitomo 3M Ltd.
Suwa Seikosha Co., Ltd.
TDK Corporation
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Toshiba Corporation
Imagica Corporation
Victor Company of Japan, Limited

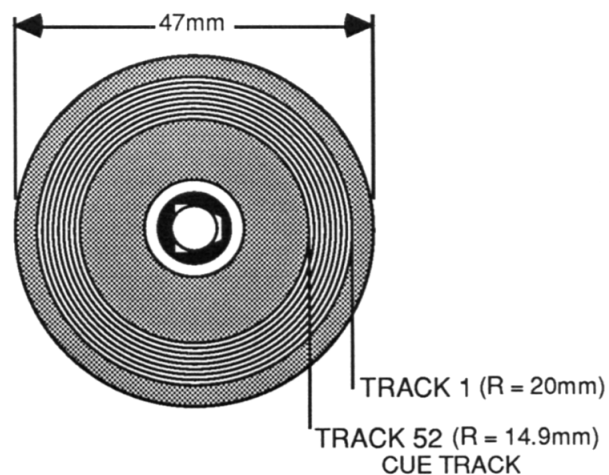
the still video floppy

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CARTRIDGE DIMENSIONS



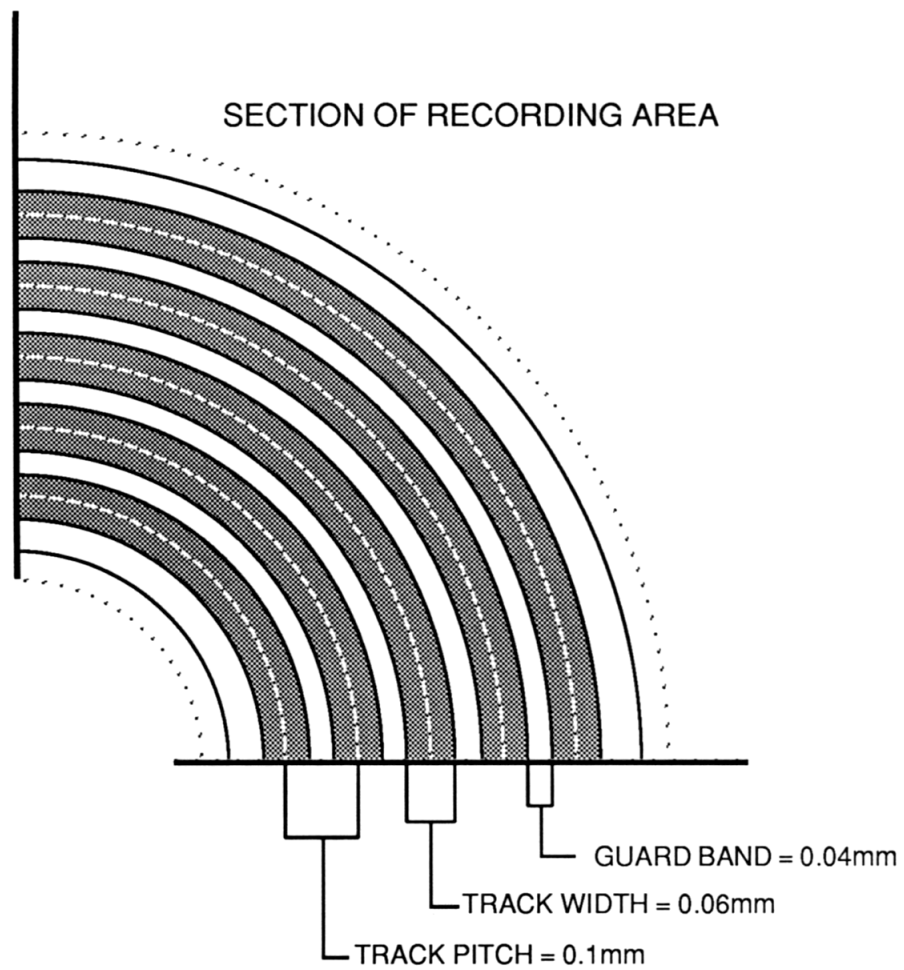
MEDIA DIMENSIONS



TECHNICAL

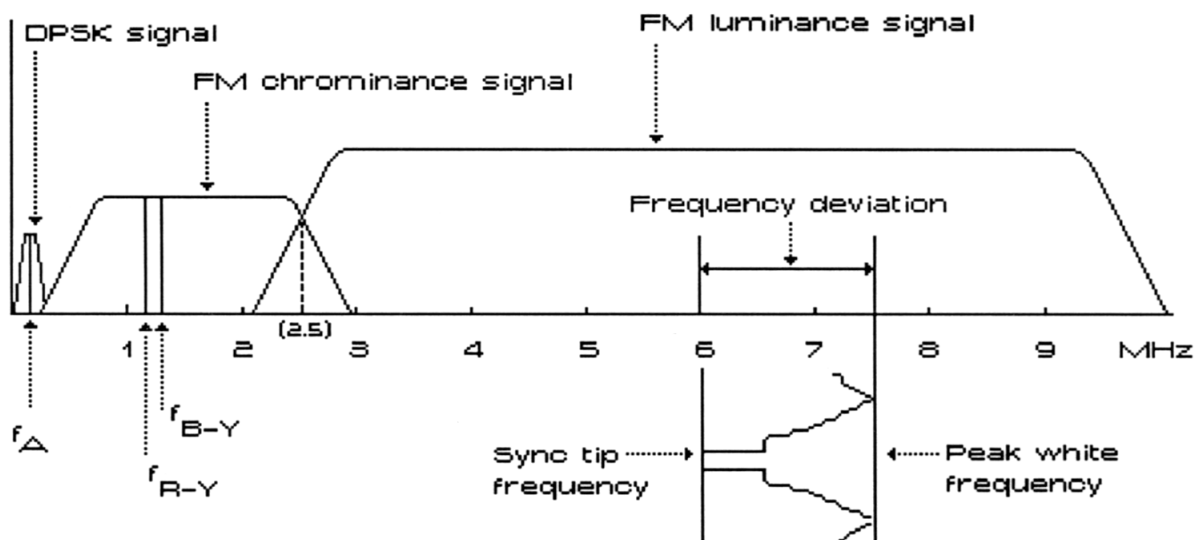
MEDIA COMPOSITION	Metal Powder (1300 Oe)
DISK DIAMETER	47mm
NUMBER OF TRACKS	50 Recording and 1 Cue
STORAGE CAPACITY	50 Field Images 25 Frame Images
RECORDING AREA	30-40mm Diameter
TRACK WIDTH	0.6mm
TRACK PITCH	0.1mm
ROTATIONAL SPEED	3600 RPM (NTSC) 3000 RPM (PAL)
RECORDING FORMAT (Video)	Y,C, FM Line Sequential
RECORDING FORMAT (Audio)	Time-compressed analog 5,10 or 20 seconds/track

TRACK LAYOUT



FREQUENCY SPECTRUM ALLOCATION

FREQUENCY SPECTRUM ALLOCATION OF RECORDING SIGNALS



f_A = Carrier frequency for ID : $13f_h$

Sync tip frequency : 6 MHz

f_{R-Y} = FM R-Y center frequency : 1.2 MHz

Peak white frequency : 7.5 MHz

f_{B-Y} = FM B-Y center frequency : 1.3 MHz

Frequency deviation : 1.5 MHz

where h is the horizontal sync frequency.