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**EUROPEAN COMPUTER MANUFACTURERS ASSOCIATION**

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**STANDARD ECMA-196**

**DATA INTERCHANGE ON 12,7 mm 36 TRACKS  
MAGNETIC TAPE CARTRIDGES**

**December 1993**

SONY Exhibit 1028  
SONY v. FUJI

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## Brief history

ECMA has produced a series of 14 ECMA Standards for cassettes and cartridges containing magnetic tapes of different widths and characteristics. Among them are the following Standards for 12,7 mm tape.

ECMA-120 (1993): Data Interchange on 12,7 mm 18-Track Magnetic Tape Cartridges

ECMA-152 (1993): Data Interchange on 12,7 mm 18-Track Magnetic Tape Cartridges - Extended Format

ECMA-182 (1992): Data Interchange on 12,7 mm 48-Track Magnetic Tape Cartridges - DLT 1 Format -

ECMA-197 (1993): Data Interchange on 12,7 mm 112-Track Magnetic Tape Cartridges - DLT 2 Format -

This ECMA Standard is related to further developments of cartridges containing 12,7 mm magnetic tape. It incorporates most of the requirements of Standard ECMA-152, together with extensions and modifications which specify the additional features that allow higher capacities to be achieved.

Two types of cartridge are defined within this Standard. For one of the types, the requirements for the case and the tape are identical with those in Standard ECMA-152. The second type conforms to different requirements which are defined in this Standard. This Standard also specifies a recording method and format for use with either type.

It is not intended that this Standard replaces Standard ECMA-152. Existing cartridges which conform to Standard ECMA-152 will continue to do so and will not conform to all the requirements of this Standard. Drives which write and read according to this Standard may have the ability to accept and read cartridges conforming to Standard ECMA-120 or ECMA-152.

Adopted as an ECMA Standard by the General Assembly of December 1993.

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