

FUJIFILM

RECORDING MEDIA

PRODUCT GUIDE



DATA STORAGE MEDIA

PROFESSIONAL MEDIA

CONSUMER MEDIA

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**FUJIFILM Recording Media**

is one of the leading manufacturers of high-performance storage media for both the business and consumer markets and as a world-wide company, creates the supply to the European market.

Exchange of information, working processes, decisions and the creation of binding documents are increasingly handled through a net of multimedia worlds and structures. Despite this progress, one thing remains unavoidable: the safe storage of relevant data and their physical availability.

By using most innovative technologies, FUJIFILM products set new standards and thus face the steadily growing requirements of the market and the people of the age of multimedia with an excellent product quality.

This product guide gives you an overview of our wide and extensive product line-up.

Technical Service Center



Over the last few decades, FUJIFILM has repeatedly demonstrated its innovative strengths, with the development of state-of-the-art technologies and the manufacture of high-quality and extremely powerful storage media

The company's achievement also includes a special portfolio of services for back-up solutions that FUJIFILM can offer in tailor-made packages, via the FUJIFILM TECHNICAL SERVICE CENTER.

With this solution, FUJIFILM will in future be focusing on comprehensive data services with a seamless security strategy. Be it labelling and initializing, data migration, data conversion, data recovery, health check or laser etching, all of FUJIFILM's services will be carried out by specialists under clean-room conditions.

All services will be delivered in the shortest possible time and in full compliance with the ISO 9000 certificate. Thanks to these innovative technical services, which are provided from a single source, data backup procedures can now be set up with considerably greater efficiency.



Labelling + Initializing: Immediate use without any delay

Upon customers request, FUJIFILM takes charge of the time-consuming and laborious labelling and initializing of high-quality data cartridges.



Data Migration: Complex and time-consuming transfers made easy

The time-consuming transfer of extensive volumes of data from older systems to new ones can now be performed entirely by our data migration service.



Data Conversion: All your data in one single stroke

Our data conversion service transfers data from all kinds of storage media, data structures and formats onto a shared new backup system.



Data Recovery: We rescue everything we can

The FUJIFILM Service Team rescues data you believed was lost forever, copy it to new data media and thus enable you to access it again with ease.



Analysis + Health Check: Stop risks before they cause mayhem

The data media are checked and analysed thoroughly, so that any risks to the data are detected early on and can be eliminated.



Laser Etching: Make no mistakes

To ensure clear identification, information is burned onto the cartridges by laser. This etching cannot be removed.



Data Disposal: The totally secure way to eliminate data

At FUJIFILM, the disposal of data media means the controlled and certified destruction of data media and thus the irrevocable elimination of all data.



24-Hour Call Center: On-call help

If major queries or problems should arise, our call center is available for you 24 hours a day.

Call Center: +49 (0)180 538542255 ^(12ct./min.)



FUJIFILM offers these services especially for its data storage products. In the Enterprise sector, these include the FUJIFILM Tape Cartridges 3592 and 3590E, while in the Midrange sector, the relevant products are FUJIFILM Tape Cartridges LTO (all generations), DLT IV and SDLT.

For more information on our services for back-up solutions, please visit our website: www.fuji-mediasolution.com

LIBRARY PACK - The allround pack

The innovative, sturdy transport and archiving packaging developed by FUJIFILM for Enterprise products and, on request, for LTO data cartridges too, facilitates quick and easy unpacking, transportation and stacking. They also protect securely against shocks, humidity and dust.

Contents: 20 pcs.

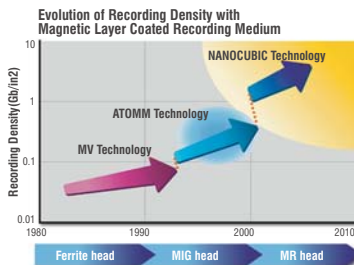
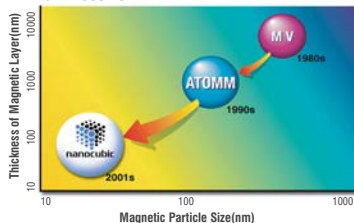


NANOCUBIC TECHNOLOGY

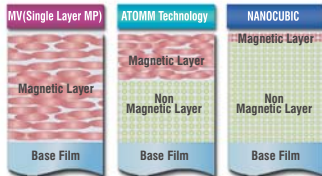


NANOCUBIC is an ultra-thin layer coating that results in higher resolution for recording digital data, ultra-low noise and high signal-to-noise ratios that are ideal for magneto-resistive (MR) heads. It is capable of catapulting data cartridge to one-terabyte native (uncompressed) and floppy disk capacities to three gigabytes. To help visualise the potential, over 700,000 floppy disks or 13 DLT™ IV tapes would be required to store 1TB of data. Fujifilm is already beginning to work with drive manufacturers to develop new, high capacity magnetic storage products using NANOCUBIC.

Technology change to NANOCUBIC



Construction of NANOCUBIC

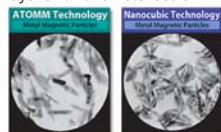


MV is the metal tape that Fuji Photo Film Co., Ltd. developed as video tape 1981

NANOCUBIC consists of:

1. Coating technology:

NANOCUBIC employs an advanced precision coating process that can control the thickness of the magnetic layer on a nanometer scale.



2. Particle technology:

Two types of magnetic particles were developed for NANOCUBIC, both tens of nanometers in size: acicular ferromagnetic alloy particle and tabular ferromagnetic hexagonal barium ferrite particle.

3. Dispersion technology:

NANOCUBIC uses a special organic binder material that has the ability to thoroughly disperse the particles in the coating solution so that a uniformly packed structure of the layer is realized.

Applications in development include: magnetic storage tape, both for helical scan and linear recording formats; high-capacity floppy disks; high-definition, long-duration digital video tape for broadcast and home use; and data and video storage tape. High-end tape storage products for enterprise applications are also possible with NANOCUBIC.

Enterprise Tape Cartridge

3592

Proprietary Nanocubic technology assures high capacity and rock-solid reliability

In today's information age, enterprise-class data storage systems require the use of storage media that offer both high capacity and high reliability. FUJIFILM's 3592 Enterprise Tape Cartridge for IBM 3592 TotalStorage® Enterprise Tape Drive Systems offers outstanding reliability.

Ruggedly constructed cartridge shells

For maximum durability, cartridge shells are constructed of heavy-gauge resin and internal components are specially designed to withstand heavy use. Five high tensile-strength screws are also used to secure the cartridge shell halves together.

High-reliability sliding door mechanism

Dust protection and durability are enhanced by a high reliable curved sliding door and leader pin system.

Built in memory modules

All cartridges are equipped with multifunction non-contact flash memory modules.

- **DATA: 300GB High Capacity Tape Cartridge**

Capability to record 512 tracks with capacity of 300GB and 900GB (3:1 data compressed).

- **ECONOMY: 60GB Economical, Fast-Access Tape Cartridge**

The fast-access FUJIFILM 3592 Tape minimizes the time to access necessary data. Its tape is shorter and offers 60GB capacity (180GB with 3:1 data compression).

- **WORM: DATA (300GB) and ECONOMY (60GB), WORM = (Write Once Read Many)**

FUJIFILM provides non-alterable and non-rewriteable FUJIFILM 3592 WORM Tape Cartridges with 300GB and 60GB capacity.

- **CLEANING:** Cleaning Cartridge for all IBM 3592 Total-Storage® Enterprise Tape Drive Systems.

LIBRARY PACK - The allround pack

The sturdy transport and archiving packaging developed by FUJIFILM for Enterprise products protects the cartridges securely against shocks, humidity and dust.

- **Contents: 20 pcs.**

Services to meet every user need

Tapes can be labelled and pre-initialized to meet customer specifications. A wide variety of color-coded labels and bar-coded labels for automated storage systems are available to facilitate data library management, ensuring full-service support to meet virtually every customer need.



LTO Ultrium Data Cartridge

LTO ULTRIUM

LTO Ultrium Technology - the standard in high-capacity, high-reliability data storage

As database and Internet-related applications require greater data storage and critical operations demand minimized downtime due to backup operations, new cost-effective solutions are needed.

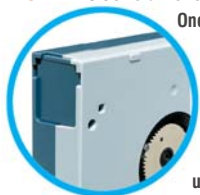
LTO Ultrium ultra-high-capacity tape is such a solution. With storage capacity of up to 1.6 TB (2:1 compressed; 800 GB native) and data-transfer rates of up to 240 MB/s (2:1 compressed; 120 MB/s native), LTO Ultrium tape cartridges serve the needs of network servers, enterprise computers and other demanding environments.

And FUJIFILM's advanced tape technologies, including its innovative servo-writing and NANOCUBIC Technology, translate into solid reliability as well as high performance.

Definition of LTO

LTO stands for "Linear Tape-Open" technology. The standard was developed by a consortium of Hewlett-Packard, IBM and Quantum - and it represents a scalable and durable tape-storage format whose future growth (going all the way up to 6.4 TB (2:1 compressed, 3.2 TB native) configurations) has been mapped out for an extended period into the future.

- **Linear Tape-Open Technology**
- **High capacity cartridge for extremely high data volumes**
- **Applications: network servers, mid-range and mainframe computers**
- **FUJIFILM Servo Technology: Timing-based, high-precision servo control**
- **NANOCUBIC Technology, which is used in LTO Gen 4 improves smoothness of tape surface, which helps extend the head-lifetime and outputs high durability by the decrease of error even in rigorous use.**
- **WORM: LTO Gen 3 & 4 offers WORM (Write-Once Read-Many) functionality.**



Once data has been written to WORM tape, it cannot be altered, making it an ideal solution for compliance. To help customers distinguish visually between a WORM cartridge and a standard (non-WORM) data cartridge, the lower part of a FUJIFILM WORM cartridge is light gray in color, unlike the upper part of the shell.

- **Encrypted for security: LTO Gen 4 introduces Advanced Encryption Standard (AES) 256-bit encryption algorithms to keep data secure**
- **Cartridge dimension: 102 x 105,4 x 21,5 mm**

Services to meet every user need

Tapes can be labelled and pre-initialized to meet customer specifications. A wide variety of color-coded labels and bar-coded labels for automated storage systems are available to facilitate data library management, ensuring full-service support to meet virtually every customer need.



Line-up

LTO ULTRIUM 4 DATA CARTRIDGE

- Capacity: 800 GB native (1.6 TB with 2:1 compression)
- Impressive data transfer rates of up to 120 MB/s (2:1 compressed, 240 MB/s)

LTO ULTRIUM 4 WORM DATA CARTRIDGE

- Non-rewritable data cartridge
- Capacity: 800 GB native (1.6 TB with 2:1 compression)
- Impressive data transfer rates of up to 120 MB/s (2:1 compressed, 240 MB/s)

LTO ULTRIUM 3 DATA CARTRIDGE

- Capacity: 400 GB native (800 GB with 2:1 compression)
- High data transfer rates of 40-80 MB/s (2:1 compressed, 80 -160 MB/s)

LTO ULTRIUM 3 WORM DATA CARTRIDGE

- Non-rewritable data cartridge
- Capacity: 400 GB native (800 GB with 2:1 compression)
- High data transfer rates of 40-80 MB/s (2:1 compressed, 80 -160 MB/s)

LTO ULTRIUM 2 DATA CARTRIDGE

- Capacity: 200 GB native (400 GB with 2:1 compression)
- Data transfer rates of 20-40 MB/s (2:1 compressed, 40-80 MB/s)

LTO ULTRIUM 1 DATA CARTRIDGE

- Capacity: 100 GB native (200 GB with 2:1 compression)
- Data transfer rates of 10-20 MB/s (2:1 compressed, 20-40 MB/s)

LTO UCC CLEANING CARTRIDGE

- Universal Cleaning Cartridge for LTO-backup-systems
- LTO Universal Cleaning Cartridge is capable of being used in all generation 1/2/3/4 Ultrium format tape drives

LIBRARY PACK

According to customers' preference, FUJIFILM LTO data cartridges can be delivered in the Library Pack developed by FUJIFILM or in the standard PP-case.
Contents: 20 pcs.





Data Cartridge - Diagnostic Tool

DC ANALYSER

First desktop tool to provide key storage tape diagnostic and tracking data in a single device. FUJIFILM Recording Media GmbH introduced the FUJIFILM DC Analyser, the first data center tool of its kind that leverages the expertise of a leading data tape media manufacturer to instantly provide key information on the age, use and condition of the popular LTO Ultrium format data cartridge.

This tool will help data managers quickly identify if the source of the problem is the cartridge or if a cartridge issue is a symptom of a malfunctioning drive or unbalanced backup and network. The FUJIFILM DC Analyser provides as well recommendation about cartridges, drive and application.

How FUJIFILM DC Analyser Works

Created through combined development efforts between FUJIFILM's globally recognized data tape engineers and the application developers at FUJIFILM Recording Media GmbH, the FUJIFILM DC Analyser uses a low-power radio frequency (RF) reader to access historical tape usage information stored in the internal cartridge memory (CM) chip in every LTO Ultrium tape cartridge. The CM chip retains basic diagnostic information over a period of time, including percentage or record errors, amount of data read/written, number of cartridge loads and the age of the cartridge.

By providing access to this information through a simple RF reader combined with standard barcode scanning technology, the FUJIFILM DC Analyser puts key diagnostic and logistic data at the fingertips of the data manager, helping to quickly locate the root cause and prevent backup issues without the need to access a drive, call in outside technicians or send sensitive data out to a third party for evaluation.

- **Analyses LTO tape cartridges by reading only cartridge memory (CM) information, which reduces the risk of data leakage**
- **Offer quick and easy on-site tape diagnostics anywhere**
- **Features precise, easy-to-understand tape diagnostic functions**



Convenient Carry Case

We also offer a compact and light carry case for the DC Analyser - protects DC Analyser from shock.



Data Cartridge

Super DLTtape®



The massive-capacity and increased performance of DLTtape® S4 help meet the needs of rapidly growing data centers, increasing storage requirements and regulatory compliance directives. DLTtape® drives and media are the de facto industry standard for the data backup and archiving demands of a whole range of users from high-end workstations and department-level servers to enterprise-level storage systems.

- LGMR (Laser-Guided Magnetic Recording) technology enables POS (Pivoting Optical Servo) track recording on reverse side.

DLTtape® S4

- 1.6 TB compressed (800 GB native), with transfer speeds of 120 MB/sec. compressed (60 MB/sec. native) when used in the DLTtape® S4 tape drive.
- DLTsage Worm* capable:
 - **DLTsage Tape Security:** gives electronic keys to prevent unauthorized access to the data on tape cartridge.
 - **DLTsage WORM:** provides archival functionality and ensures the integrity of original content.
 - **DLTsage Monitoring:** enables to health check the drive and media proactively.
 - **DLTsage Diagnostics:** a tool box of drive and media diagnostics reduces the troubleshooting time and helps faster problem resolution

Super DLTtape® II

- 600 GB compressed (300 GB native), with transfer speeds of 72 MB/sec. compressed (36 MB/sec. native) when used in the SDLT 600 tape drive
- Super DLTtape® II offers backward-read compatibility with Super DLTtape® I and DLTtape® VS 1
- DLTICE® WORM* capable technology allows you to create a WORM cartridge to address archive needs and regulatory concerns beyond borders. Another distinguishing characteristic of the Super DLTtape® II is its future in the broadcast industry

Super DLTtape® I

- 320 GB maximum storage capacity (2:1 compression)
- 32 MB/sec. maximum sustained data transfer rate (2:1 compression)

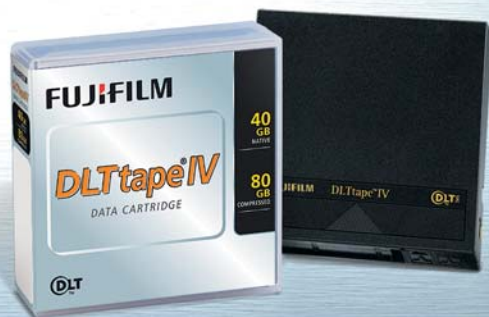
SDLT CLEANING Tape

- Cleaning tape for SDLT-backup-systems, suitable for all SDLTape drives

*WORM: non-rewritable data cartridge (**W**rite-**O**nce **R**ead-**M**any)

Line-up

DLTtape® S4, 1.6 TB compressed
SuperDLTtape® II, 600 GB compressed
SuperDLTtape® I, 320 GB compressed
SuperDLT CLEANING TAPE



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Data Cartridge

DLTtape® IV



The professional solution for giant data quantities

Unsurpassed durability. Low error rates. Long archival life. These attributes are guaranteed when you buy FUJIFILM's DLTtape® IV. The most advanced data storage tapes available.

DLTtape® IV comes with 1,828 feet ATOMM tape (1/2")

DLTtape® IV features FUJIFILM's exclusive ATOMM (Advanced Super Thin Layer & High Output Metal Media) technology - a unique dual coating system that provides greater storage capabilities than ever before. DLTtape® IV provides a storage capacity ranging from 20 GB to 40 GB (native capacity) or from 40 GB to 80 GB (2:1 compression).

DLTtape® IV

- DLTtape® IV cartridge for DLT-backup-systems
- Application: network servers and mid-range computers
- Storage capacity between 40GB and 80GB (compressed)
- High capacity and reliability thanks to the original ATOMM-technology of FUJIFILM
- Cartridge dimension: 105,8 x 105,4 x 25,4 mm

DLT CLEANING TAPE

- Cleaning tape for DLT-backup-systems, suitable for all DLTtape® drives

Line-up

- DLTtape® IV
- DLT CLEANING TAPE

Services to meet every user need

Tapes can be labelled to meet customer specifications. A wide variety of color-coded labels and barcoded labels for automated storage systems are available to facilitate data library management, ensuring full-service support to meet virtually every customer need.



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4mm Data Cartridge

DAT 72/DDS



FUJIFILM's ATOMM technology provides a high-density, high-output, high-reliability DAT72 data cartridge

Now higher capacity, output and reliability are requested for DDS system. In a further extension of its ATOMM technology, which was applied to DDS4 and DDS3 data cartridges and provided both high-density recording and high reliability, FUJIFILM has developed metal particle-coated DG DAT72 tape which supports the new DAT72 standard. The result is a high-capacity (36GB native/72GB compressed) tape with high reliability. A 4S structure* (Symmetric Slider Spring Structure) which increases the pressing strength of the spring has been adopted. The use of a symmetrical slider spring provides a smoother movement of the cartridge's slider, which increases reliability in repeated use.

*Adopted in the following cartridges:

DAT72 DG5-170M and DDS DG4-150M, DG3-125M

The ATOMM technology is applied to

DAT72 DG5-170M and DDS DG4-150M, DG3-125M

DAT72/DDS DATA CARTRIDGE

- 4mm cartridges for DAT72/DDS-backup system
- Applications: backup, archiving, data exchange
- Stable output thanks to the "Super Fine Metallix"-technology
- Super smooth magnetic surface for better tape performance

Line-up

DG5-170M/DAT72 - 36GB (uncompressed)
DG4-150M/DDS4 - 20GB (uncompressed)
DG3-125M/DDS3 - 12GB (uncompressed)
DG-120M/DDS2 - 4GB (uncompressed)
DG-90M/DDS - 2GB (uncompressed)

DDS (4mm) CLEANING CARTRIDGE DG-15CL

- Cleaning tape for DDS-backup systems
- Suitable for all 4mm DDS drives and DAT72 drives



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Digital HD Videocassette

HD331

HDCAM™

Leading-edge technology for outstanding HD broadcast quality

FUJIFILM HD331 videocassettes offer the high output and low noise that high-quality HDTV broadcasting demands. High C/N and a low error rate are assured by ultrafine metal magnetic particles and a magnetic layer polished to mirror-like smoothness by our super calendaring technology.

- Super calendaring technology for high C/N and a low error rate
- Stable tape transport and high durability even under the extreme demands of ENG/EFP
- Reels offer superior winding characteristics
- Superior storage characteristics keep image archives safe during long term storage

Cassette size

small:

Digital HD Videocassette HD331 6S
 Digital HD Videocassette HD331 12S
 Digital HD Videocassette HD331 22S
 Digital HD Videocassette HD331 32S
 Digital HD Videocassette HD331 40S

large:

Digital HD Videocassette HD331 34L
 Digital HD Videocassette HD331 64L
 Digital HD Videocassette HD331 94L
 Digital HD Videocassette HD331 124L

Specifications and appearance are subject to change without notice.



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Digital Betacam Videocassette

D321

Digital BETACAM™

Engineered for superior Digital Betacam performance

FUJIFILM D321 is the professional's choice for top-flight Digital Betacam system performance. Specially formulated ultra-fine metal magnetic particles ensure high output and a low error rate, while superior binder and backcoating materials provide the durability and reliability that broadcasters demand.

- High output and low error rate
- Superior durability and transport stability
- Superior storage characteristics
- Rugged hard case design

Cassette size

small:

Digital Betacam Videocassette D321 D6
 Digital Betacam Videocassette D321 D12
 Digital Betacam Videocassette D321 D22
 Digital Betacam Videocassette D321 D32
 Digital Betacam Videocassette D321 D40

large:

Digital Betacam Videocassette D321 D34L
 Digital Betacam Videocassette D321 D64L
 Digital Betacam Videocassette D321 D94L
 Digital Betacam Videocassette D321 D124L

Specifications and appearance are subject to change without notice.



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Digital Videocassette **MX321**

MPEG IMX

Outstanding performance for MPEG-IMX systems

FUJIFILM MX321 offers an array of features that make this videocassette one of our most important products offering in years. Working extensively with the format developer ensures that FUJIFILM MX321 will meet or exceed all the specifications of the hardware manufacturer. FUJIFILM MX321 represents the latest development in high performance digital videotape.

- Magnetic particles and calendaring technology assures high C/N ratio
- High quality base film and binder material for stability and durability
- Outstanding long-term storage characteristics
- Reels offer superior winding

Cassette size

small:

Digital Videocassette MX321 6S
 Digital Videocassette MX321 12S
 Digital Videocassette MX321 22S
 Digital Videocassette MX321 32S
 Digital Videocassette MX321 60S

large:

Digital Videocassette MX321 64L
 Digital Videocassette MX321 94L
 Digital Videocassette MX321 124L
 Digital Videocassette MX321 184L



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Betacam SX Videocassette **SX321**

BETACAM SX

High reliability digital Betacam SX videocassettes

With the inclusion of FUJIFILM SX321 to the line, Fujifilm offers a product for every Betacam format, analog or digital. When you couple the popularity of the Betacam SX system with the FUJIFILM reputation for quality, SX321 has quickly become one of the most respected products in our line-up.

- Stable and durable for ENG and editing
- High-precision, rigid cassette shells
- Superior long-term storage characteristics

Cassette size

small:

Betacam SX Videocassette SX321 S6
 Betacam SX Videocassette SX321 S12
 Betacam SX Videocassette SX321 S22
 Betacam SX Videocassette SX321 S32
 Betacam SX Videocassette SX321 S62

large:

Betacam SX Videocassette SX321 L64
 Betacam SX Videocassette SX321 L94
 Betacam SX Videocassette SX321 L124
 Betacam SX Videocassette SX321 L184
 Betacam SX Videocassette SX321 L194



Metal Videocassette



M321SP

Betacam SP never looked so good

Acclaimed and respected throughout the industry, FUJIFILM M321SP videocassettes are the Betacam SP tape-of-choice for video professionals around the world. Superior FUJIFILM metal tape technology and Super-Fine Metallix metal magnetic particles team up to ensure that you get superb Betacam SP video and audio quality for recording, editing and playback.

- Super-fine metallix particles
- Fewer dropouts
- Extended still and high-speed playback
- Excellent high-frequency signal response

Cassette size

small:

Metal Videocassette M321SP 5M
Metal Videocassette M321SP 10M
Metal Videocassette M321SP 20M
Metal Videocassette M321SP 30M

large:

Metal Videocassette M321SP 30ML
Metal Videocassette M321SP 60ML
Metal Videocassette M321SP 90ML



Digital Videocassette



DP121/DP1001

The generation of digital video excellence

FUJIFILM's DP121 and DP1001 broadcast-use metal videocassettes feature exceptional image quality and the high output required for high-density digital recording. DP121/DP1001 incorporates FUJIFILM's proprietary ATOMM*-II technology, which enables increased output and reduced noise.

- Ultra-fine high-energy metal magnetic
- Particles designed specifically for DVCPRo recording
- High-strength base material for improved reliability
- Superior transport stability, durability and storage characteristics

Cassette size

DP121, small:

Digital Videocassette 12M
Digital Videocassette 24M
Digital Videocassette 33M
Digital Videocassette 46M
Digital Videocassette 66M

DP121, large:

Digital Videocassette 34L
Digital Videocassette 66L
Digital Videocassette 94L
Digital Videocassette 126L

DP1001, small:

Digital Videocassette 23/11M
Digital Videocassette 33/16M

DP1001, large:

Digital Videocassette 64/32L



Digital Videocassette

DV131



Videocassette for DVCAM Systems

DVCAM media are the most compact professional digital video recording media ever to be introduced. As the shift from analog VTR systems continues to gather momentum throughout the video production and broadcasting industries, the DVCAM format has become one of the leading formats for VTR systems.

- High output and low noise for high-density digital recording
- DLC (Diamond-Like Carbon) protective layer for enhanced reliability/durability
- Advanced cassette mechanisms for optimum tape performance
- Low error rate for accurate recording and playback

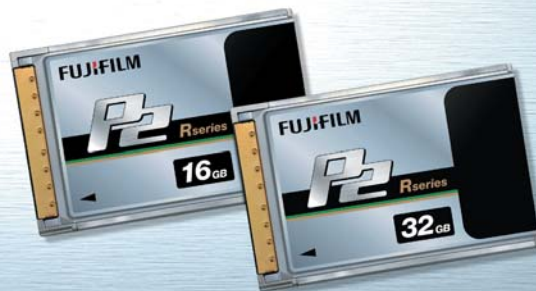
Cassette size

small:

Digital Videocassette DV131 12S
 Digital Videocassette DV131 22S
 Digital Videocassette DV131 32S
 Digital Videocassette DV131 40S

large:

Digital Videocassette DV131 34L
 Digital Videocassette DV131 64L
 Digital Videocassette DV131 94L
 Digital Videocassette DV131 124L
 Digital Videocassette DV131 184L



P2 Card's compatible with Panasonic P2 system

P2MCR

Next generation media with outstanding performance

FUJIFILM's P2 media card was developed for professional broadcasting and production use and is resistant to shock, vibration and harsh environments (temperature and humidity) while offering high-capacity storage of broadcast-quality digital HD video with fast transfer speeds.

- With fast reading/writing speeds and no need to digitize content, the P2 Series vastly reduces production time, resulting in a dramatic improvement in workflow efficiency.
- The MXF (Material eXchange Format) employed by the P2 Series is an open file format made available to partner companies.

Line-up

P2 MCR 16 GB
 P2 MCR 32 GB



22

Professional Disc PD711



High compatibility and durability for Pro XDCAM recording

FUJIFILM's new PD711 Professional Discs are the ideal recording media for today's XDCAM and XDCAM HD systems. As with all FUJIFILM professional video products, PD711 has been precision-designed to provide outstanding performance under a wide range of conditions, both in the field and in the studio.

- A proven reputation for quality and reliability
- Superior dust- and scratch-resistance
- Excellent performance with a wide range of hardware
- Precision-engineered cartridges for heavy use

Line-up

Professional Disc PD711, 23GB, 2.4x speed



23

1/2-Inch Digital Metal Videocassette D5001

D-5

The ultimate in high-quality D-5 digital video performance

Broadcasters and production professionals who work with uncompressed digital recording formats expect the highest levels of performance from their recording media. And with FUJIFILM D5001 1/2-inch digital metal videocassettes, that's exactly what they get uncompromising audio and video quality.

- An ideal choice for uncompressed digital recording
- Superior durability & transport stability
- Excellent long-term storage characteristics
- High-rigidity precision cassette shells

Cassette size

small:

Digital Metal Videocassette D5001 23S

middle:

Digital Metal Videocassette D5001 12M

Digital Metal Videocassette D5001 33M

Digital Metal Videocassette D5001 48M

Digital Metal Videocassette D5001 63M

large:

Digital Metal Videocassette D5001 94L

Digital Metal Videocassette D5001 124L



24

Digital-S Videocassette

DIGITAL S

D421

A new high in Digital-S videotape performance

Exclusive FUJIFILM ATOMM* technology brings performance to Digital-S format systems, with ultra-high recording densities for superb sound and picture quality. Stability and durability are also exceptionally high, ensuring the day-in, day-out reliability that professional users demand.

- Superior C/N ratio and error rate characteristics
- Improved transport stability and durability
- High-rigidity, precision-built cassettes
- Improved long-term storage stability

Line-up

Digital-S Videocassette D421 DS10
 Digital-S Videocassette D421 DS34
 Digital-S Videocassette D421 DS64
 Digital-S Videocassette D421 DS104



25

Professional S-VHS Videocassette

S-VHS

H471S

Innovative Double Coating technology assures the ultimate in S-VHS performance

Our proprietary Double Coating technology holds the key to the outstanding performance of FUJIFILM H471S videocassettes. This remarkable technology - a FUJIFILM exclusive - significantly enhances both video and audio performance and has clearly made FUJIFILM H471S videocassettes the S-VHS tape of choice for all professional and studio applications.

- Double coating improves picture and sound quality
- Reduced dropouts
- Double-orientation technology

Line-up

S-VHS Videocassette H471S SE-180



DVD Recordable Disc



DVD-R 8x Printable Professional

Highly compatible with Inkjet, Thermal and Thermal Re-Transfer printers

DVD-R 8x Printable Professional can provide high matching with inkjet, thermal and thermal re-transfer printers to meet various requirements of high accuracy photos, colorful illustration and sharp text on the printable surface, with high speed recording and high capacity for video and data recording.

Large Print Capacity on Inkjet and Thermal Re-transfer Discs

Both inkjet and thermal re-transfer discs allow to be printed even on the hub, offering extensible design.

Long Term Archiving

The disc has extremely long working life for video, image data or any type of information that can be stored digitally by adoption of the stable organic dye to protect against any climates. It is expected to give you 30 - 50 years archiving capability under room temperature condition**.

- DVD-R 4.7GB/120min. for Video and Data
- Write-once format DVD
- Conform to public standard of "DVD-R for General Ver. 2.0/8x-SPEED DVD-R Revision 3.0"

Line-up

DVD-R Printable Inkjet Pro - Full printable

- available in 100 pcs. soft-wrap*

DVD-R Printable Inkjet P-Grade - Full printable

- available in 100 pcs. cake box

DVD-R Printable Thermal Transfer Pro

- available in 100 pcs. cake box

DVD-R Printable Thermal Re-Transfer Pro - Full printable

- available in 100 pcs. soft-wrap*

*soft-wrap (prevents bending of disc)



Recordable Compact Disc



CD-R Printable Professional

CD-R Printable 700MB for professional use

Highly compatible with Inkjet, Thermal-Transfer and Thermal-Re-Transfer printers

Printable discs are rapidly becoming a popular medium. FUJIFILM's CD-R Printable provides high accuracy photos, colourful illustration and sharp text onto the printable surface while offering excellent compatibility with inkjet, thermal and thermal re-transfer printers.

Superior Performance and Compatibility

With a High-Sensitivity organic dye and a high reflective layer, FUJIFILM's CD-R Printable can record 700MB of data or 80 minutes of music at speeds of up to 48x. With wide drive and recorder compatibility and superior recording and reading performance, FUJIFILM's CD-R Printable makes a perfect distribution medium.

Long Term Archiving

Accelerated testing** has shown FUJIFILM CD-R Printable provides up to 100 years archiving capability under room conditions.

- CD-R 700MB Multispeed
- Excellent white surface layer for high print quality

Line-up

CD-R 700MB 52x Printable Inkjet Pro - Full printable

- printable to the hub providing increased print area
- available in 100 pcs. cake box

CD-R 700MB 48x Printable Inkjet Pro Black - Full printable

- printable to the hub providing increased print area
- available in 100 pcs. cake box

CD-R 700MB 48x Printable Inkjet Pro - Full printable

- printable to the hub providing increased print area
- available in 100 pcs. soft-wrap *

CD-R 700MB 48x Printable Thermal-Transfer Pro

- available in 100 pcs. cake box

CD-R 700MB 48x Printable Thermal-Re-Transfer Pro - Full printable

- printable to the hub providing increased print area
- available in 100 pcs. soft-wrap*

*soft-wrap (prevents bending of disc)



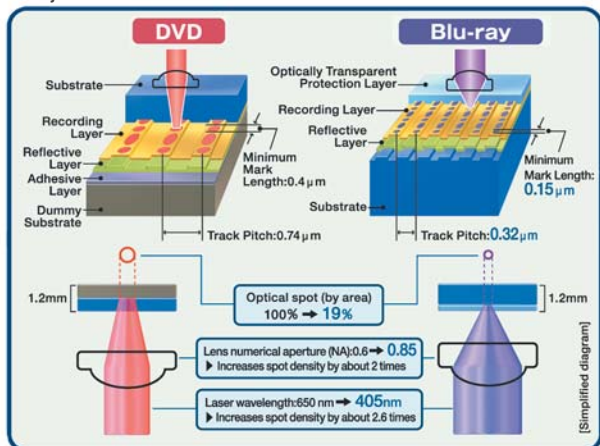
Blu-ray Disk

BD-R/RE



FUJIFILM BD-R- and BD-RE-Discs for Video and Data - the true beginning of Blu-ray
 The concept behind Blu-ray format is to be able to record a two-hour high-definition (HD) broadcast on a single-sided, single-layer disc. HD video contains about six times the number of pixels of standard-definition (SD) video. A disc capacity of about 22 GB is needed to store this amount of HD video. Both the BD-R and the BD-RE formats have a standard capacity of 25 GB to ensure they can hold two hours worth of HD programming. The high-performance recording layer used in FUJIFILM's BD-R/RE discs ensures wide power margins. This means you can make accurate recordings even from a weaker laser.

Blu-ray Mini-Lesson: Disc structure



Line-up

- | | |
|---|---|
| <p>BD-R 25 GB, 1-2x, Recordable</p> <ul style="list-style-type: none"> ● Inorganic recording layer ● Hard-coat layer ● Available in 5-pack jewel case | <p>BD-RE 25 GB, 1-2x, Rewritable</p> <ul style="list-style-type: none"> ● Inorganic phase-change recording layer ● Hard-coat layer ● Available in 5-pack jewel case |
|---|---|

Labelflash™ DVD Disk

DVD-R/+R Labelflash™

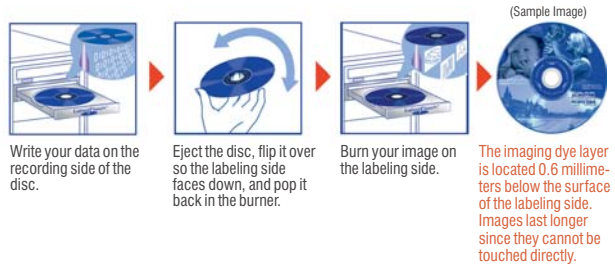
A new Labeling Technology that doesn't need an Inkjet Printer

Labelflash™ DVD discs have a specialized dye layer located 0.6 millimeters below the surface of the labeling (non-data) side. This specialized dye allows you to label your DVD with high-resolution pictures and text using the recording laser of Labelflash™-compliant DVD writer*. Get customized DVDs without an inkjet printer.
 *Both a Labelflash™-compliant DVD writer and a Labelflash™ DVD disc are required to burn pictures.

- DVD-R/+R 4.7 GB/120 min., for Video and Data
- Write-once format DVD
- Newly developed imaging dye for sophisticated, high-contrast pictures
- Applications: multimedia applications, high volume data recording, archiving and playback

Add pictures, graphics and text to your discs without using an Inkjet Printer

All you need to make pictures is a Labelflash™-compliant DVD writer. No printers or consumables are required. This means you can both record your data and create your label with a single Labelflash™-compliant DVD writer.



Further information about Labelflash™ see under www.Labelflash.eu

Line-up

DVD-R and DVD +R are available in 5-pack jewel case and cake box with 10 pcs.



DVD Disc up to 16x

DVD-R



Recordable Disc for Video and Data

The FUJIFILM DVD-R 16x recordable disc is based on an organic dye that has proven to allow recording capabilities at speeds ranging from 1x to 16x, which is ideal for archiving, storage and retrieval of high-capacity data files.

- DVD-R 4.7GB/120min., for Video and Data, Recordable
- Superior storage performance and durability of light exposure. Archival life of over 100 years* at room temperature
- Excellent reliability by high sensitive dye for record and read

Line-up

DVD-R 16x 4.7GB/120min. is available in:

- 5-pack or 10-pack jewel case
- 5-pack video box
- cake box with 10, 25, 50 or 100 pcs.
- 10-pack slimcase

Printable DVD-R up to 16x

DVD-R Printable Consumer

The DVD recordable disc which is highly compatible with Inkjet printer DVD-R 16x Printable "Consumer" can provide high matching with inkjet printers to meet various requirements of high accuracy photos, colorful illustration and sharp text on the printable surface, with high speed recording and high capacity for video and data recording.

White Surface for Excellent Print Quality

White layer including very suitable substance for the inkjet printers, provides superior properties of the color fidelity, sharpness of figure and text, and fast drying to prevent ink from transcribing.

- DVD-R 4.7GB/120 min. for Video and Data, Recordable
- Conform to public standard of "DVD-R for General Ver. 2.1/16x-SPEED DVD-R Revision 6.0"
- Full surface layer offering a larger printing area close to the center hole

Line-up

DVD-R 16x Printable is available in cake box with 10, 25 or 50 pcs.

FUJIFILM

Specifications and appearance are subject to change without notice.
 *estimated using the Arrhenius storage performance acceleration method,
 15-25°C, 20-40% relative humidity, no direct sunlight, free from dust.



DVD Disc up to 16x

DVD+R



Recordable Disc for Video and Data

The FUJIFILM DVD+R 16x recordable disc is optimized for customer recording valuable digital data, whether recording in real time at 1x speed or with 16x DVD drive.

- DVD+R 4.7GB/120min., for Video and Data, Recordable
- Superior storage performance and durability of light exposure. Archival life of over 100 years* at room temperature
- Excellent reliability by high sensitive dye for record and read

Line-up

DVD+R 4.7GB/120min. is available in:

- 5-pack or 10-pack jewel case
- 5-pack video box
- cake box with 10, 25, 50 or 100 pcs.
- 10-pack slimcase

Printable DVD+R up to 16x

DVD+R Printable Consumer

The DVD recordable disc which is highly compatible with Inkjet printer DVD+R 16x Printable "Consumer" provides high matching with inkjet printers to meet various requirements of high accuracy photos, colorful illustration and sharp text on the printable surface, with high speed recording and high capacity for video and data recording.

White Surface for Excellent Print Quality

White layer including very suitable substance for the inkjet printers, provides superior properties of the color fidelity, sharpness of figure and text, and fast drying to prevent ink from transcribing.

- DVD+R 4.7GB/120 min. for Video and Data
- Write-once format DVD
- Conform to public standard of "DVD+R 16x, 4.7GB Ver. 1.3"
- Full surface layer offering a larger printing area close to the center hole

Line-up

DVD+R 16x Printable is available in cake box with 25 pcs.

Specifications and appearance are subject to change without notice.
 *estimated using the Arrhenius storage performance acceleration method,
 15-25°C, 20-40% relative humidity, no direct sunlight, free from dust.



DVD Disc

DVD-RW



Rewritable Disc for Video and Data

The Fujifilm DVD-RW disc for Video and Data can be recorded, erased and recorded again more than 1,000 times without any loss of quality. To achieve high-quality recording and a high level of durability, Fujifilm DVD-RW discs utilize a high-performance phase change material which is ideal for mass storage and long archival life.

- DVD-RW 4.7 GB/120 min., for Video and Data, Rewritable
- High compatible, can be recorded and played on most DVD players and DVD-ROM drives
- Can be recorded and erased more than 1.000 times

DVD-RW 2x-6x 4.7 GB/120 min., for Video and Data, Rewritable
Compatible with 2x to 6x Drives & Recorders

Line-up

- 5-pack jewel case
- cake box with 10 or 25 pcs.

DVD-RW up to 2x 4.7 GB/120 min., for Video and Data, Rewritable

Line-up

- 5-pack jewel case
- 5-pack video box
- cake box with 10 or 25 pcs.

DVD Disc

DVD+RW



Rewritable Disc for Video and Data

To achieve high-quality recording and a high level of durability, Fujifilm DVD+RW discs utilize a high-performance phase change material which is ideal for mass storage and long archival life. Designed for personal or professional use, the Fujifilm DVD+RW disc can record up to 4.7 GB or 120 minutes of video, high-resolution photo images and large data files. Highly compatible, the Fujifilm DVD+RW discs can be played on most DVD players and DVD-ROM drives after they're recorded.

- DVD+RW 4.7 GB/120 min., for Video and Data, Rewritable
- Uses same 8-16 Modulation and RS code as DVD-ROM
- Constant linear data density
- Quick formatting

DVD+RW 8x 4.7 GB/120 min., for Video and Data, Rewritable
Compatible with 3.3x + 6x-8x Drives & Recorders

Line-up

- 5-pack jewel case
- cake box with 10 or 25 pcs.

DVD+RW 1-4x 4.7 GB/120 min., for Video and Data, Rewritable

Line-up

- 5-pack jewel case
- 5-pack video box
- cake box with 10 or 25 pcs.



DVD Disc
DVD-R DL *Dual Layer*

Recordable Disc for Video and Data

The DVD-R DL (Dual Layer) of FUJIFILM offers a capacity of 8.5 GB for data storage or 4 hours video recording in DVD quality respectively 16 hours in VHS quality on one disc. This is realized by 2 separate recording layers of organic dye on one single side of the DVD-R DL.

- DVD-R 8.5 GB/240 min., for Video and Data, Recordable
- Suitable for special contents that you don't want to miss by overwriting
- The writing speed is 4X offering a transfer rate of appr. 5.5 MB/s
- Compatible with legacy play back devices
- Excellent reliability by FUJIFILM's high sensitive dye for stable record and read

Line-up

DVD-R DL is available in 3-pack jewel case

DVD Disc
DVD+R DL *Double Layer*

The DVD+R DL (Double Layer) of FUJIFILM offers a capacity of 8.5 GB for data storage or 4 hours video recording in DVD quality respectively 16 hours in VHS quality on one disc.

- DVD+R 8.5 GB/240 min., for Video and Data, Recordable
- Suitable for special contents that you don't want to miss by overwriting
- The writing speeds are 2.4X offering a transfer rate of appr. 3.3 MB/s and 8X offering a transfer rate of appr. 11 MB/s
- Compatible with legacy play back devices
- Excellent reliability by FUJIFILM's high sensitive dye for stable record and read

Line-up

DVD+R DL is available in 3-pack jewel case



DVD Discs for Camcorder
8cm DVD



8cm DVD-R/-RW/+RW for Camcorder

Ideal for sharing and storing your videos, photos and data

FUJIFILM 8cm DVD-R/-RW/+RW discs are ideal for storing your favorite videos, photos and data, so you can enjoy them anywhere, anytime, with any camcorder, PC drive, recorder or player that supports DVD-R/-RW or +RW format.

"Anti-Scratch" - coating offers protection against scratches caused by mishandling or wiping the recording surface. It also makes the surface easy to clean.

The following products are available with "Anti-Scratch" - coating: DVD-R 8cm 30min./60min., DVD-RW 60min. and DVD+RW 30min.

- Recording time / mode (per side):
 - 20min./HQ mode • 30min./SP mode • 60min./LP mode
- 8cm DVD-RW/+RW can be recorded and erased more than 1,000 times

Line-up

8cm DVD-R up to 4x:

- 1.4GB/30min. (single sided), in 3-pack jewel case
- 2.8GB/60min. (double sided), in 3-pack jewel case
- 1.4GB/30min. (single sided), in cake box with 10 pcs.

8cm DVD-R Printable up to 4x:

- 1.4GB/30min. Printable (single sided), full printable in soft case with 10 pcs.

8cm DVD-RW up to 2x:

- 1.4GB/30min. (single sided), in 3-pack jewel case
- 2.8GB/60min. (double sided), in 3-pack jewel case
- 1.4GB/30min. (single sided), in cake box with 10 pcs.

8cm DVD+RW up to 4x:

- 1.4GB/30min. (single sided), in 3-pack jewel case



DVD Rewritable 2-3x
DVD-RAM



The Ideal solution for digital movies, and so much more
As mega-pixel images, digital video and an overall increase in data file size become more widespread, the need for high speed, high capacity media is increasing exponentially. FUJIFILM DVD-RAM discs are the ideal solution.
With FUJIFILM's superior manufacturing technology and quality control as your assurance of reliability and durability, they are the natural choice for all your high-density digital recording needs.

- "Phase change"-technology guarantees full compatibility with all DVD-RAM drives
- Applications: multimedia applications, high volume data recording, archiving and playback
- High stability, reliability and data security
- Long recording and archival life

Line-up

- DVD-RAM 2-3x, 4.7 GB/120 min. Data/Video
- Type-IV cartridge (single sided), disc is removable
 - Rewritable DVD
- DVD-RAM 2-3x, 9.4 GB/240 min. Data/Video
- Type-IV cartridge (double sided), disc is removable
 - Rewritable DVD
- DVD-RAM 2-3x, 4.7 GB/120 min. Data/Video (WOC)
- Type: Disc (Without cartridge=WOC)
 - Rewritable DVD

Recordable/Rewritable Compact Disc
CD-R



CD-R 700 MB 52x Multispeed, write-once compact disk

- Original developed organic dye guarantees high data security and reliability even with high speed up to 52x
- Applications: Archiving, ideal for all multimedia applications

Available in:

- 10-pack jewel case
- slim case with 10 or 20 pcs.
- 25 pcs. cake box "COLOUR EDITION"
- cake box with 10, 25, 50 or 100 pcs.
- 10-pack slim case "COLOUR EDITION"

CD-R Printable Inkjet "Consumer"

- Highly compatible with inkjet printer
- Full surface layer offering a larger printing area close to the center hole
- The white surface provides photorealistic color, bright graphics and sharp text

Available in cake box with 25 pcs.

CD-RW

CD-RW 700 MB 1x-4x Multispeed, rewritable compact disk

- "Phase Change"-Technology guarantees excellent data security characteristics and reliability with 4x writing speed

Available in 10-pack jewel case

CD-RW 700 MB 4x-12x High speed, rewritable compact disk

- Recordable in High speed CD-RW drives with (1) logo
- "Phase Change"-Technology guarantees excellent data and reliability with 12x writing speed

Available in 10-pack jewel case and cake box with 10 pcs.



CD-R/-RW AUDIO

CD-R PRO for Audio 80

- Write-once digital audio CD
- With high speed rotation stabilizer

Available in 10-pack jewel case

AUDIO CD-RW 80

- Rewritable Audio CD for CD-RW recorders
- Excellent sound, extremely low error rate

Available in 10-pack jewel case



Recordable Compact Disc

CD-R for Digital Photos

Specially developed CD-R for Digital Photos with a black protection shield as effective protection of the recording layer against ultra-violet and solar radiation

FUJIFILM has developed a new CD-R for Digital Photos with a black protection shield. It provides extremely effective protection of the recording layer against ultra-violet and solar radiation.

FUJIFILM CD-R for Digital Photos is an ideal solution for storing your precious photo image and long time archiving. According to our accelerated test with a Xenon arc lamp based on ISO standard (ISO 105-B04), FUJIFILM CD-R for Digital Photos offers 10 times higher protection against the degradation of reflected laser beams caused by sunlight (Fig. 1). It has also been confirmed that FUJIFILM CD-R for Digital Photos have a stable block error rate under direct sunlight (Fig. 2). The excellent reflection and block error rate ensure high and long-term recording & play-back performance.

CD-R 700 MB up to 52x for Digital Photos

- Write-once Compact Disc
- Specially developed UV-Protection shield as effective protection of the recording layer
- Ideal solution for storing precious photo image and long time archiving

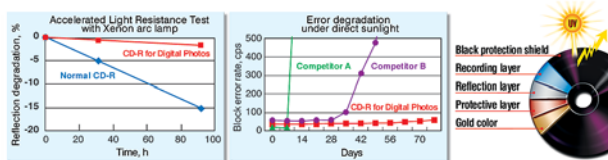


Fig. 1

Fig. 2

Line-up

- 10-pack jewel case
- 10-pack slim case

VHS Videocassettes

VHS

Fascinating world of video

As a pioneer manufacturer of video tapes for broadcast use, we bring you a full line-up of VHS videocassettes designed to demanding specifications for performance and durability.

VHS Videocassette FUJI F

The FUJI F is a durable neutral basic cassette.

- Can be used for all kind of recordings
- Good reliability even for every day usage
- Application: daily use, recordings of movies

VHS Videocassette FUJI HQ+

The FUJI HQ+ is a high-quality general purpose videocassette, designed for time shifting and multiple recordings.

- Application: archival recordings of important movies, sportsviews or reports

VHS Videocassette FUJI SHG

Designed for consumers who maintain a library of valuable recordings or for taping favourite programs.

- Offers extremely sharp images, vivid colours and enhanced hi-fi audio signals

S-VHS Videocassette FUJI SUPER VHS PRO

This videocassette produces sharp, vivid colours and enhanced hi-fi audio signals and was awarded several times, rated with the predicate "very good".

- Applications: archival recordings of very important events such as weddings, natural films etc.

Line-up

- | | |
|--------------------|-------------------------------|
| VHS F: | • Length: 120/180/240 minutes |
| VHS HQ+: | • Length: 180 and 240 minutes |
| VHS SHG: | • Length: 120/180/240 minutes |
| VHS SUPER VHS PRO: | • Length: 180 and 240 minutes |



8mm Videocassettes

8mm/Hi8

8mm SHG SUPER HIGH GRADE

Sharp, clear images and lasting durability.

- Absolutely reliable

HI 8 MP POSITION

Professional-quality Hi8 cassette.

- Perfect for usage as master and archiving tape
- Also suitable for "Digital 8-mm"

Line-up

8mm SHG SUPER HIGH GRADE • Length: 60 and 90 minutes
 HI 8 MP POSITION • Length: 30, 60 and 90 minutes

Digital 8

Specialized for Digital 8 format

Outstanding realistic image and dynamic digital sound

FUJIFILM Digital 8 is supported by long experience of recording media development and production of FUJIFILM and complies with Digital 8 standard. For the recording of memorial scene of your life, FUJIFILM Digital 8 tape reproduces not only clear realistic image and sound but also reflects your great emotion at that time by its outstanding quality. By using Digital 8 system it's possible to make copies almost without loss of quality.

- Excellent picture quality even in LP mode
- Complies with Digital 8 standard
- Resistant mechanic and shell characteristics
- Perfect copies almost without loss of quality

Line-up

Digital8 • Length: 60 min. in SP-mode (90 min. in LP-mode respectively)



Mini DV Digital Videocassette

DVC Mini



Digital video-fascination

High-density digital recording demands high output and high C/N ratio characteristics. The DLC (Diamond-Like Carbon) protective layer ensures excellent durability for reliable performance. The low error rate enhances the precision of recording and playback.

DVC, Digital Video Cassette for Mini-DVC-systems

- Excellent recording and playback quality
- DLC (Diamond-Like Carbon) protective layer
- Excellent HiFi sound for authentic original sound
- Optimum protection through heat-resistant shell design
- Shock resistant archiving box

Line-up

DVC: • Length: 60 and 80 min.
 • Also available as color mix in 3 and 5-pack:
 3-pack = blue, green, red 5-pack = blue, green, yellow, red, purple

HDV DV63S

Mini DV videocassette for HDV use

Created specially for those who demand top-of-the-line quality, new FUJIFILM advanced DVCassette boast enhanced durability and higher output that ensure a superior recording experience.

FUJIFILM advanced quality tapes feature a robust new lubricant and tough, extra thick, diamond-like carbon base film that ensure significantly enhanced durability during still-frame playback, that means the tapes can withstand the repeated rewinding, fast-forwarding and playback of professional editing.

Line-up

HDV DV, size: 63S
 Rec.Time: 94 min. DV (LP mode), 63 Min. HDV/DV (SP mode), 42 min. (Prof. mode)



MD Mini Disc

MiniDisc

The FUJIFILM MiniDisc line-up
Brilliant sound in digital perfection

Colorful looks and a great body of sound make this a unique product of FUJIFILM. With its extremely low block error rate, the FUJIFILM MD easily surpasses the industry standard for recording power margin. This margin ensures accurate reproduction even in MD players with varying laser power.

- MD 80, MiniDisc with colorful box
- Brilliant, high resolution playback in digital sound
- High reliability and versatile applications for all MD systems
- Extremely resistant box
- More than 1 million times recordable
- Best suitable for archiving by color system

Line-up

- MiniDisc: • Length: 80 minutes, 5-Pack
- Available in black, green, yellow, red and purple
 - MD 80 also available in Blister Pack

Audio Cassettes

FUJIFILM audiocassettes make music enjoyment a moving experience with superior quality and convenience

DR TYPE I, NORMAL POSITION

The favorite choice for great all-around sound. The obvious cassette for recording a range of music tastes.

DR II TYPE II, HIGH POSITION

Fuji makes quality recording an easy listening experience. A high-position cassette with consistent, quality sound.

Line-up

- AUDIO CASSETTE DR TYPE I: • Length: C-60/C-90
AUDIO CASSETTE DR II TYPE II: • Length: C-60/C-90



MF2HD FD 3,5"

Floppy Disk

The well-proved diskette since several years, for highest quality requirements

- Special cleaning system with the non-woven fabric guarantees more reliable and careful removal of dust
- Available for IBM-compatible
- Applications: backup, archiving and data exchange
- More comfortable archiving with colours which optimise your organisation

Line-up

FUJIFILM 3.5" MF2HD disks are available in colours of black and red; 10-Disks Pack

ZIP Disk

ZIP 100 MB

The disk for multimedia usage

The full-function, complete solution attributes of the Zip disk solve all data backup, storage and transport needs. It's perfect for running applications, multimedia presentations, spread sheets and transporting information between the office and home. The most remarkable feature of the Zip disk is FUJIFILM's Advanced super Thin-layer and high-Output Metal Media, better known as ATOMM allowing for improved performance and superior signal to noise ratio for super high density digital recording.

- ZIP 100 MB Disk for ZIP 100 drives
- Applications: desktop publishing, backup, archiving, data exchange and data transfer between the office and home
- Enhanced reliability thanks to ATOMM-technology from FUJIFILM

Line-up

FUJIFILM ZIP 100 MB



Batteries

Alkaline-Batteries

FUJIFILM Alkaline Batteries, 20% more energy, 100% for the environment
 FUJIFILM Alkaline Batteries are charged with 20% more energy and therefore provide more power at home, in the office and on the road. As they also have 0% cadmium and quicksilver, they provide 100% protection of the environment. And you will not be the only one to prize these features. FUJIFILM Alkaline Batteries are available in five different sizes for 1.5 and 9 volt for almost every use.

Line-up

					Blister PCS/Pack	
• LR 20 (=D =AM1)	MONO	1.5 V			2	
• LR 14 (=C =AM2)	BABY	1.5 V			2	
• LR 6 (=AA =AM3)	MIGNON	1.5 V			2 or 4	
• LR 03 (=AAA =AM4)	MICRO	1.5 V			2 or 4	
• 6LR61 (=9V =6AM6)	E-BLOCK	9 V			1	

Lithium-Batteries for Camera

Long life time, high performance at low temperature, multi functional usage
 FUJIFILM Lithium-Batteries are free of Cadmium and Quicksilver

Model Name	Cell Type	Voltage V	Capacity mAh*1	Standard Discharge Rate mA		IEC-Numbering	Max. Length mm	Max. Width mm	Max. Diameter mm	Max. Height mm	Typical Weight gr	
				Cont:2 mA	Pulse:3 mA							
CR2	Cylindrical	3	750	10	1000	2500	CR15H270	-	-	15.6	27.0	11
CR123A	Cylindrical	3	1300	10	1500	2500	CR17345	-	-	17.0	34.5	17
CR-P2	PACK	6	1300	10	1500	3500	2CP4036	34.8	19.5	-	35.8	37
2CR5	PACK	6	1300	10	1500	3500	2CP3845	34	17	-	45	40

- *1 Nominal capacity is determined to an end voltage of 2.0 V when the battery is allowed to discharge at a standard current level at 23°C. (4.0 V for CR-P2 and 2CR5)
- *2 Current value is determined so that 50% of the nominal capacity is obtained with an end voltage of 2.0 V at 23°C. (4.0 V for CP-P2 and 2CR5)
- *3 Current value for obtaining 1.0 V cell voltage when 15 sec. pulse applied at 50% discharge depth at 23°C. (2.0 V for CR-P2 and 2CR5)

Line-up

- Lithium-Batterie CR2 3V 750mAh
- Lithium-Batterie CR123A 3V 1300mAh
- Lithium-Batterie CR-P2 6V 1300mAh
- Lithium-Batterie 2CR5 6V 1300mAh



Specifications and appearance are subject to change without notice.



FUJIFILM USB 2.0 Flash Drive

USB Sticks

FUJIFILM USB 2.0 Flash Drive:

- FUJIFILM USB 2.0 Flash Drive Blister 1-Pack
- High speed data transfer
- Portable storage solution
- PET blister packing, environment friendly
- 5 years limited warranty
- Available in 1GB, 2GB, 4GB and 8GB (depending on the model)

Specification

- USB 2.0 Compliant
- USB 1.1 Compatible
- Compatible Operating System (no driver req.) Plug and Play:
 Windows 2000/ME/XP/Vista/Linux 2.4 and Mac OS 9.2 and above
- For support please contact www.fujifilm-usb.com

Line-up

- USB Stick TDC-108
- USB Stick TDC-126
- USB Stick TDC-175
- USB Stick TDC-170
- USB Stick TDC-201
- USB Stick TDC-115
- USB Stick TDC-139



Specifications and appearance are subject to change without notice.

Technical Specifications

3592 Technical Data

Cartridge Type	Enterprise Tape Cartridge 3592			
Basic Specifications				
Capacity (3:1 Data Compressed)	300 GB (900 GB)	60 GB (180 GB)	WORM 300 GB (900 GB)	WORM 60 GB (180 GB)
Transfer Rate (3:1 Data Compressed)	40 MB/s (110 MB/s)			
Number of Tracks	512			
Physical Characteristics				
Tape Width (Nominal)	12.65 mm			
Tape Thickness (Nominal)	8.9 μ			
Tape Length (Nominal)	609 m	246 m	609 m	246 m
Dimensions (Nominal)	125.0 x 109.0 x 24.5 mm (L x W x H)			
Operating Environmental Conditions				
Temperature	16 – 32 °C			
Humidity	20 – 80 % (No dew condensation)			
Max. Wet Bulb Temperature	26 °C			
Archival Environmental Conditions				
Temperature	16 – 25 °C			
Humidity	20 – 80 % (No dew condensation)			
Max. Wet Bulb Temperature	26 °C			
Data Rewrite	yes	no		

Bulk erasers should not be used with 3592 tape. The tape is encoded at the factory with servo system timing signals that will be lost if bulk erasers are used. Specifications are subject to change without notice. TotalStorage is a registered trademark of IBM Corp. in the United States and other countries.

LTO Ultrium Technical Data

Cartridge Type	LTO Ultrium 4 Data Cartridge	LTO Ultrium 4 WORM Cartridge	LTO Ultrium 3 Data Cartridge	LTO Ultrium 3 WORM Cartridge	LTO Ultrium 2 Data Cartridge	LTO Ultrium 1 Data Cartridge
Basic Specifications						
Tape Drive	LTO Ultrium 4		LTO Ultrium 3		LTO Ultrium 2	LTO Ultrium 1
Capacity (compressed)	800 GB (1600 GB)		400 GB (800 GB)		200 GB (400 GB)	100 GB (200 GB)
Transfer Rate (native)	up to 120 MB/sec		up to 80 MB/sec		up to 40 MB/s	up to 20 MB/s
Transfer Rate (compressed)	up to 240 MB/sec		up to 160 MB/sec		up to 80 MB/s	up to 40 MB/s
Number of Tracks	896		704		512	384
Servo Band	5 Magnetic Servo Bands					
Cartridge Memory	65,280 Bits (8,160 Bytes); Internal EEPROM		32,768 Bits (4,096 Bytes); Internal EEPROM			
Physical Characteristics						
Tape Width	12.65 mm					
Tape Thickness	6.6 μm	8.0 μm			8.9 μm	
Tape Length	820 m	680 m			609 m	
Cartridge Dimensions	102 x 105.4 x 21.5 mm (L x W x H)					
Operating Environmental Conditions						
Temperature	10 – 45 °C					
Humidity	10 – 80 % (No dew condensation)					
Max. Wet Bulb Temperature	26 °C					
Archival Environmental Conditions						
Temperature	16 – 32 °C					
Humidity	20 – 80 % (No dew condensation)					
Max. Wet Bulb Temperature	26 °C					

Bulk erasers should not be used with LTO tape. The universal cleaning cartridge is capable of being used in all generation 1/2/3/4 Ultrium format tape drives. Specific revisions of firmware may be required for proper operation. Linear Tape-Open, LTO, LTO Logo, Ultrium and Ultrium logo are trademarks of Hewlett-Packard, IBM and Certance in the US.

Super DLTape® Technical Data

Cartridge Type	DLTape® S4	Super DLTape® II	Super DLTape® I	
Basic Specifications				
Tape Drive	DLT-S4	SDLT 600 SDLT 600 A	SDLT 220	SDLT 320
Capacity (Compressed)	800 GB (1.600 GB)	300 GB (600 GB)	110 GB (220 GB)	160 GB (320 GB)
Transfer Rate (Compressed)	60 MB/s (120 MB/s)	36 MB/s (72 MB/s)	11 MB/s (22 MB/s)	16 MB/s (32 MB/s)
Number of Tracks	1.280	640	448	
Cartridge Color	Black	Blue	Green	
Physical Characteristics				
Tape Width	12.65 mm			
Tape Thickness	8 μm	8 μm	9 μm	
Tape Length	640 m	630 m	564 m	
Cartridge Dimensions	105.8 x 105.4 x 25.4 mm (L x W x H)			
Operating Environmental Conditions				
Temperature	10 – 40 °C			
Humidity	20 – 80 % (No dew condensation)			
Max. Wet Bulb Temperature	26 °C			
Archival Environmental Conditions				
Temperature	16 – 32 °C			
Humidity	20 – 80 % (No dew condensation)			
Max. Wet Bulb Temperature	26 °C			

DLTape, DLTape, DLTape and their respective logos, and iconography are trademarks or registered trademarks of Quantum Corporation in the USA and other countries.

DLTape® IV Technical Data

Cartridge Type	DLTape® IV			
Basic Specifications				
Tape Drive	DLT™ 4000	DLT™ 7000	DLT™ 8000	DLT1
Capacity (Compressed)	20 GB (40 GB)	35 GB (70 GB)	40 GB (80 GB)	40 GB (80 GB)
Transfer Rate (Compressed)	1.5 MB/s (3 MB/s)	5 MB/s (10 MB/s)	6 MB/s (12 MB/s)	3 MB/s (6 MB/s)
Tracks (Serpentine)	128 tracks		208 tracks	168 tracks
Recording Density	3241 bpbmm	3399 bpbmm	3874 bpbmm	4862 bpbmm
Hard Error Rate	1x10 ⁻¹⁷ bits (1 time/read cycle)			
Non-detect Error Rate	1x10 ⁻¹⁷ bits (1 time/read cycle)			
Media Durability (Nominal)	1,000,000 passes			
Physical Characteristics				
Tape Width (Nominal)	12.65 mm			
Tape Thickness (Nominal)	9 μm			
Tape Length (Nominal)	557 m			
Dimensions (Nominal)	105.8 x 105.4 x 25.4 mm (L x W x H)			
Storage Environments				
Temperature	16 – 32 °C			
Humidity	20 – 80 % (No dew condensation)			

DLTape® is a registered trademark of Quantum Corporation in the USA and other countries.

DAT72/DDS Technical Data

	DG5-170M	DG4-150M	DG3-125M	DG-120M	DG-90M	DG-15LC
Basic Specifications						
Format	DAT72	DDS4	DDS3	DDS2	DDS	—
Magnetic Particles	metal magnetic particles					
Normal Recording Capacity	36.0 GB	20.0 GB	12.0 GB	4.0 GB	2.0 GB	—
Maximum Recording Capacity*	72.0 GB	40.0 GB	24.0 GB	8.0 GB	4.0 GB	—
Physical Characteristics						
Tape Width	3.81 mm					
Tape Thickness	5.2 μm	5.6 μm	6.7 μm	9.0 μm	7.0 μm	—
Tape Length	170 m	155 m	125 m	91 m	15 m	—

* 2:1 data compression

Technical Specifications

HD331 Technical Data

Magnetic Properties	Coercivity (Hc)	131 kA/m
	Retentivity (Br)	300 mT
Physical Properties	Thickness: Magnetic Layer	3 μ m
	: Total	14 μ m
	Tape Width	12.65 mm
	Yield Strength	40 N
Performance	Residual Elongation	0.04 %
	Video RF Output	0 dB*
	Video C/N	0 dB*
	Audio Sensitivity	0 dB*
	Audio Frequency Response	0 dB*

Note: The figures marked with * are comparisons with Fujifilm reference tape.

D321 Technical Data

Magnetic Properties	Coercivity (Hc)	131 kA/m
	Retentivity (Br)	270 mT
Physical Properties	Tape Thickness: Total	14 μ m
	Tape Width	12.65 mm
	Yield Strength	25 N
	Breaking Tensile Strength	40 N
Performance	Residual Elongation	0.04 %
	Video RF Output	0 dB*
	Video C/N	0 dB*
	Audio Sensitivity	0 dB*
	Audio Frequency Response	0 dB*

Note: Figures are typical values based on Fujifilm's standard measurement procedures. The figures marked with * are comparisons with the Fujifilm Digital Betacam reference tape.

MX321 Technical Data

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

Note: The figures marked with * are comparisons with Fujifilm reference tape.

SX321 Technical Data

Magnetic Properties	Coercivity (Hc)	129 kA/m
	Retentivity (Br)	250 mT
Physical Properties	Tape Thickness: Total	14 μ m
	Tape Width	12.65 mm
	Yield Strength	20 N
	Breaking Tensile Strength	40 N
Performance	Residual Elongation	0.04 %
	Video RF Output	0 dB*
	Video C/N	0 dB*
	Audio Sensitivity	0 dB*
	Audio Frequency Response	0 dB*

Note: Figures are typical values based on Fujifilm's standard measurement procedures. The figures marked with * are comparisons with the Fujifilm reference tape.

M321SP Technical Data

Magnetic Properties	Coercivity (Hc)	121 kA/m
	Retentivity (Br)	260 mT
Physical Properties	Tape Thickness: Total	14.5 μ m
	Tape Width	12.65 mm
	Yield Strength	25 N
	Breaking Tensile Strength	45 N
Performance	Residual Elongation	0.04 %
	Video RF Output	0 dB*
	Video C/N	0 dB*
	Audio Sensitivity	0 dB*
	Audio Frequency Response	0 dB*

Note: Figures are typical values based on Fujifilm's standard measurement procedures. The figures marked with * are comparisons with the Fujifilm reference tape.

DVCPRO Technical Data

Magnetic Properties	Coercivity (Hc)	183 kA/m
	Retentivity (Br)	370 mT
Physical Properties	Tape Thickness: Total	8.5 μ m
	Tape Width	6.35 mm
	Yield Strength	More than 5 N
	Breaking Tensile Strength	More than 10 N
Performance	Residual Elongation	Less than 0.2 %
	Video RF Output	0 dB*
	Video C/N	0 dB*
	Audio Sensitivity	0 dB*
	Audio Frequency Response	0 dB*

Note: Figures are typical values based on Fujifilm's standard measurement procedures. The figures marked with * are comparisons with the Fujifilm DVCPRO reference tape.

DV131 (without IC memory chip) Technical Data

Magnetic Properties	Coercivity (Hc)	105 kA/m
	Retentivity (Br)	500 mT
Physical Properties	Squareness (Br/Bm)	0.78
	Thickness: Magnetic Layer	0.2 μ m
	: Total	7.0 μ m
	Tape Width	6.35 mm
Performance	RF Playback Output (20MHz)	0 dB*
	C/N	0 dB*

Note: The figures marked with * are comparisons with the Fujifilm reference tape.

P2MCR Card Technical Data

Basic specifications	P2MCR16-WW	P2MCR32-WW
Recording capacity ^(*)	Approx. 16 GB	Approx. 32 GB
Reading/Writing Speed ^(**)	640 Mbps	
Interface	640 CardBus (PC Card Standard)	
Power Source	DC 3.3V \pm 0.3 V	
Power Consumption	Approx. 1.5W	
Operation Condition	-20 ~ 60 °C / 5 ~ 90 % RH (No Condensation)	
Storage Condition	-40 ~ 80 °C / 5 ~ 90 % RH (No Condensation)	
Weight	Approx. 45g (1.6 oz)	
Card Dimensions	54(W) x 5(H) x 85.6 (D) mm (2.13" x 0.2" x 3.37")	
Recording Playback Time		
AVC-Intra 100	Approx. 16min.	Approx. 32min.
AVC-Intra 50	Approx. 32min.	Approx. 64min.
DVCPRO HD	Approx. 16min.	Approx. 32min.
DVCPRO 50	Approx. 32min.	Approx. 64min.
DVCPRO/DV	Approx. 64min.	Approx. 128min.

(*) Total card capacity includes space for data management such as system data, therefore, actual usable area is less than capacity indicated on the card.

(**) Data transfer speed is theoretical value. An Actual data transfer speed varies according to operating condition and devices.

Technical Specifications

PD711 Technical Data

Basic Specifications	
Disc Type	Rewritable
Capacity	23.3 GB
Recording Wavelength	405 nm (Blue-Violet Laser)
Recording Method	Phase Change Recording
Data Transfer Rate	72 or 86 (*1) Mbps with 1 Optical Head, 144 or 172 (*1) Mbps with 2 Optical Heads
Track Pitch	0.32 μ m
No. of Read	Over 1,000,000 times
Estimated Shelf Life	50 years or more
Estimated Archival Life	50 years or more
Operating Condition	-5 ~ 55 °C, 3 ~ 90 % RH
Storage Condition	-10 ~ 55 °C, 5 ~ 90 % RH
Physical Characteristics	
Disc Diameter	120.0 mm
Disc Thickness	1.2 mm
Cover Layer Thickness	0.1 mm
Cartridge Dimension	128.6 x 130.6 x 9.1 mm

PD711 Recording Time (*2)

HD	MPEG HD	Approx. 60 min. (HQ mode)
		Approx. 90 min. (SP mode)
		Approx. 120 min. (LP mode)
SD	MPEG IMX	Approx. 45 min. (50 Mbps)
	MPEG IMX	Approx. 85 min. (50 Mbps)

(*1) When the disc is used in PDW-1500 Compact Studio Recorder, some function operators at higher data rate if latest software is used.

(*2) Since a portion of user data area will be used for data management, available capacity may vary.

Professional Disc, *XDCAM*, *DVCAM* and *MPEG IMX* are trademarks of Sony Corporation.

D5001 Technical Data

Magnetic Properties	
Coercivity (Hc)	127.3 kA/m
Retentivity (Br)	265 mT
Physical Properties	
Thickness: Magnetic Layer	3.1 μ m
: Total	13.5 μ m
Tape Width	12.65 mm
Yield Strength	27 N
Breaking Tensile Strength	39 N
Residual Elongation	Less than 0.18 %
Performance	
Video RF Output	0 dB*
Video C/N	0 dB*
Audio Sensitivity	0 dB*
Audio Frequency Response	0 dB*

Note: Figures are typical values of 33M tape based on Fujifilm's standard measurement procedures. The Figures marked with * are comparisons with the Fujifilm reference tape.

D421 Technical Data

Magnetic Properties	
Coercivity (Hc)	147.2 kA/m
Retentivity (Br)	310 mT
Physical Properties	
Thickness: Magnetic Layer (Upper Layer)	0.7 μ m
: Non-Magnetic Layer (Lower Layer)	2.3 μ m
: Total	14.4 μ m
Tape Width	12.65 mm
Yield Strength	22 N
Breaking Tensile Strength	43 N
Residual Elongation	Less than 0.2 %
Performance	
Video RF Output	0 dB*
Video S/N	0 dB*
Audio Sensitivity	0 dB*
Audio Frequency Response	0 dB*

Note: Figures are typical values based on Fujifilm's standard measurement procedures. The Figures marked with * are comparisons with the Fujifilm reference tape.

H471S Technical Data

Magnetic Properties	
Coercivity (Hc)	76 kA/m
Physical Properties	
Tape Thickness: Total	17.5 μ m
Tape Width	12.65 mm
Yield Strength	26 N
Performance	
Video RF Output	+ 3.0 dB*
Video S/N	+ 1.5 dB*
Audio HiFi Output	+ 3.5 dB*

Note: Figures are typical values based on Fujifilm's standard measurements on S-VHS format. The figures marked with * are comparisons with the Fujifilm H471S reference tape.

DVD-R 8x Printable Technical Data

Basic Specifications	
Capacity	4.7 GB
Linear Velocity	3.49 m/s (1x), 27.92 m/s (8x)
Substrate Material	Polycarbonate
Recording Layer	Organic Dye
Recording Wavelength	650 nm
Physical Characteristics	
Outer Diameter	120.0 mm
Inner Diameter	15.0 mm
Thickness	1.2 (0.6 x 2) mm
Operating Environment	
Temperature	-5 ~ 55 °C
Humidity	3 ~ 95 % RH (No dew condensation)

CD-R Printable Technical Data

Basic Specifications	
Linear Velocity	1.2 m/s
Substrate Material	Polycarbonate
Recording Layer	Organic Dye
Physical Characteristics	
Outer Diameter	120.0 mm
Inner Diameter	15.0 mm
Thickness	1.2 mm
Operating Environment	
Temperature	-5 ~ 55 °C
Humidity	3 ~ 95 % RH (No dew condensation)

Technical Specifications

BD-R/-RE Technical Data

	BD-R Recordable	BD-RE Rewritable
Basic Specifications		
Format	Compliant with Ver. 1.1	Compliant with Ver. 2.1
Storage capacity (single layer/dual layer)	25 GB / 50 GB	
Laser Wavelength	405 nm	
Numerical aperture (NA) of lens	0.85	
Recording Speed	1- 2x	
Data transfer rate max.	72Mbps	
Optical transparent protection layer	0.1 mm	
Recording / tracking method	Groove recording / Phase change / Groove recording	
Track Pitch	0.32 μm	
Minimum mark length	0.15 μm	
Hard-coating	Yes	
Copyright-protection system	AACS	
Physical Characteristics		
Outer Diameter	120.0 mm	
Inner Diameter	15.0 mm	
Thickness	1.2 mm	
Cartridge	No	

DVD-R/+R Labelflash™ Technical Data

	DVD-R	DVD+R
Basic Specifications		
Data Recording Side		
Capacity (unformatted)	4.7 GB	
Video Record	120 min. (standard mode)	
Substrate Material	Polycarbonate	
Recording Layer	Organic Dye	
Addressing	Land Pre-Pit	High-frequency wobble
Recording Speed	up to 16x	
Labelflash™ Side		
Depth of the Picture Burning Layer	0.6 mm from the disc surface	
Substrate Material	Polycarbonate	
Picture Burning Layer	Organic Dye	
Picture Burning Area	25~58 mm (radius)	
Picture Burning Time*	5 min. (Draft) ~ 20 min. (Best)	
Operating Environment		
Temperature	5 ~ 55 °C	
Humidity	3 ~ 85 % RH (No dew condensation)	

* Depending on hardware (DVD writer) and software is being used. Labelflash™ is a trademark of the Yamaha Corporation.

DVD-R/-RW Technical Data

	DVD-R	DVD-RW
Basic Specifications		
Capacity (unformatted)	4.7 GB	
Video Record	120 min. (standard mode)	
Substrate Material	Polycarbonate	
Recording Layer	Organic Dye	Phase change
Recording Wavelength	650 nm	
Reflectivity	45 ~ 85 %	18 ~ 30 %
Track Pitch	0.74 μm	
Minimum Pit Length	0.4 μm	
Physical Characteristics		
Outer Diameter	120.0 mm	
Inner Diameter	15.0 mm	
Thickness	1.2 (0.6 x 2) mm	
Operating Environment		
Temperature	-5 ~ 55 °C	
Humidity	3 ~ 95 % RH (No dew condensation)	

DVD+R/+RW Technical Data

	DVD+R	DVD+RW
Basic Specifications		
Capacity (unformatted)	4.7 GB	
Video Record	120 min. (standard mode)	
Substrate Material	Polycarbonate	
Recording Layer	Organic Dye	Phase change
Recording Wavelength	655 nm	
Reflectivity	45 ~ 85 %	18 ~ 30 %
Track Pitch	0.74 μm	
Minimum Pit Length	0.4 μm	
Physical Characteristics		
Outer Diameter	120.0 mm	
Inner Diameter	15.0 mm	
Thickness	1.2 (0.6 x 2) mm	
Operating Environment		
Temperature	5 ~ 55 °C	
Humidity	3 ~ 85 % RH (No dew condensation)	

8cm DVD-R/-RW/+RW for Camcorder Technical Data

	8cm DVD-R	8cm DVD-RW	8cm DVD+RW
Basic Specifications			
Capacity (unformatted)	1.4 GB or 2.8 GB		1.4 GB
Video Record	30 min. (SP mode) or 60 min. (LP mode)		30 min. (SP mode)
Substrate Material	Polycarbonate		
Recording Layer	Organic Dye	Phase change	Phase change
Recording Wavelength	650 nm		
Reflectivity	45 ~ 85 %	18 ~ 30 %	18 ~ 30 %
Track Pitch	0.74 μm		
Minimum Pit Length	0.4 μm		
Recording Speed	up to 4x	up to 2x	up to 4x
Physical Characteristics			
Outer Diameter	80.0 mm		
Inner Diameter	15.0 mm		
Thickness	1.2 (0.6 x 2) mm		
Operating Environment			
Temperature	-5 ~ 55 °C		
Humidity	3 ~ 85 % RH (No dew condensation)		

DVD-R DL / DVD+R DL Technical Data

	DVD-R DL	DVD+R DL
Basic Specifications		
Capacity (unformatted)	8.5 GB	
Video Record	240 min. (standard mode)	
Substrate Material	Polycarbonate	
Recording Layer	Organic Dye	
Recording Wavelength	650 nm	655 nm
Reflectivity	18 ~ 30 %	16 ~ 30 %
Track Pitch	0.74 μm	
Minimum Pit Length	0.4 μm	
Recording Speed	up to 4x	up to 2.4x or up to 8x
Physical Characteristics		
Outer Diameter	120.0 mm	
Inner Diameter	15.0 mm	
Thickness	1.2 (0.6 x 2) mm	
Operating Environment		
Temperature	5 ~ 55 °C	
Humidity	3 ~ 85 % RH (No dew condensation)	

Technical Specifications

DVD-RAM Technical Data

Basic Specifications			
Capacity (Unformatted)	9.4 GB (double-sided)	4.7 GB (single-sided)	4.7 GB (single-sided)
Recording Method	Edge-mark recording system		
Bytes / Sector	2,048 Bytes		
Sectors / Track	25 - 59 (ZCLV)		
Track Pitch	0.615 μ m		
Track Format	Wobbled land and groove		
Recording Speed	Up to 3x		
Physical Characteristics			
Outer Diameter	120.0 mm		
Thickness	1.2 (0.6 x 2) mm		
Cartridge	Type 4 (Removable)	Non-cartridge type	
Operating Environments			
Temperature	5 ~ 60 °C		
Humidity	3 ~ 85 % RH (Wet-bulb Temperature 29 °C or lower. No dew condensation.)		

DVCassette Mini DV/ HDV DV 63S Technical Data

	DVM60	DVM80	HDV DV 63S
Magnetic Properties			
Coercivity (Hc)	120 kA/m		120 kA/m
Retentivity (Br)	450 mT		500 mT
Squareness (Br / Bm)	0.8		0.8
Physical Properties			
Tape Width	6.35 mm		6.35 mm
Tape Thickness	7 μ m	5.3 μ m	7 μ m
Recording Characteristics			
Optimum Recording Current	0 dB*		0 dB*
Data Signal Output Level (21 MHz)	More than -1 dB*		More than 0 dB*
Frequency Response (21 MHz / 10.5 MHz)	\pm 2 dB*		within \pm 2 dB*
Overwrite Level (21 MHz / 10.5 MHz)	Less than + 2 dB*		Less than 2 dB*
C/N (21 MHz)	More than - 2 dB*		More than -1dB*
C/N (10.5 MHz)	More than - 2 dB*		More than -1dB*
Tracking Signal Output Level (0.47 MHz)	0 dB*		0 dB*
Tracking Signal Overwrite Level (0.47 MHz / 21 MHz)	Less than + 1dB*		Less than -1dB*
Impulse Response	\pm 5 %		within \pm 5 %

* Figures are marked with * are comparisons with the Fujifilm reference tape.
 • Please note that the DV digital video system is NOT compatible with analog video systems. • Two sizes of cassettes are available for the DV digital video system – the Mini DVCassette and the DVCassette. The latter is suitable for extended recording and playback. • In accordance with copyright laws, Mini DVCassette recording are for private viewing only. • Mini DV is a commercially registered logo. • Specifications and appearance are subject to change without notice for product improvement purposes. Color and packing may differ from that shown in the catalog.

CD-R/CD-R PRO for Audio/ CD-RW Technical Data

	CD-R	CD-R PRO for Audio	CD-RW 4x-12x
Basic Specifications			
Format	Orange Book Part II		Orange Book Part III
Capacity	700 MB		
Recording Time	79 min. 57 sec.		
Linear Velocity	1.2 m/s	4.8 - 14.4 m/s	
Track Pitch	1.5 μ m	1.5 μ m \pm 0.1	
Substrate Material	Polycarbonate		
Recording Layer	Organic Dye	Phase Change Material	
Physical Characteristics			
Outer Diameter	120.0 \pm 0.3 mm		
Inner Diameter	15 mm + 0.1 / - 0.0		
Thickness	1.2 + 0.3 / - 0.1		
Recording Areas	44.7 to 118 mm (max.)	50 to 116 mm	
Operating Environments			
Temperature	- 5 ~ 55 °C		
Humidity	5 ~ 95 %RH		
Wet Bulb	< 29		

Recordable in High speed CD-RW drives with (1) logo



(1) This is the disc that will enable you in the future to write and rewrite using High Speed CD-RW drives that are available from major drive manufacturer. Use after verifying that your drive is compatible with High Speed CD-RW. High Speed CD-RW drives have the High Speed CD-RW logo on the left (1). Writing and rewriting can not be done with existing 1 x 2 x 4 CD-R/RW drives, which have the logo on the left (2), but not the logo (1).

CD-R for Digital Photos Technical Data

Basic Specifications	
Format	Orange Book Part II
Capacity	700 MB
Linear Velocity	1.2 m/s
Track Pitch	1.5 μ m
Substrate Material	Polycarbonate + Black Protection Shield
Recording Layer	Organic Dye
Outer Diameter	120.0 \pm 0.3 mm
Inner Diameter	15 mm + 0.1 / - 0.0
Thickness	1.2 + 0.3 / - 0.1
Recording Areas	44.7 to 118 mm (max.)
Optimum Write Power	6 ~ 7 mw (Laser W/L = 790 mm, Lens = 0.5)
Number of Readings	More than 10 ⁵ times

*The value is in the case of Mode 1 recording, capacity varies by the format in use.

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