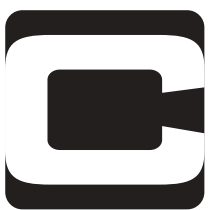


DSX



DSX



The very best in film scanning

DSX is an exciting, next generation data-cine, designed specifically for high-end commercial post production, resolution independent film mastering and restoration projects.

Developed to keep you at the forefront of your industry, **DSX** uses cutting-edge technology to ensure the highest possible quality image – regardless of film type or condition.

Taking all the best features from Cintel's flag-ship product, C-Reality, as well as adding more, **DSX** provides a quantum leap in film scanning.

Using 'OLIVER', a unique dust and scratch removal system, the effect of surface damage on film is dramatically reduced – and often totally removed – to provide transfers and masters which are scrupulously clean.

DSX produces 4K film quality images which are sharp, steady, accurate and very quiet. And with state of the art colour vector processing, colour tones are precisely repeatable, as well as providing you a distinctive, memorable and individual 'film' look.



DSX

Best Possible Quality

Because the amount and quality of data retrieved through film scanning impacts the entire post production process, **DSX** is designed to capture the maximum film image information as it scans – data lost during this process can never be regained. In addition, we have introduced 'OLIVER', which uses electro-optics to reduce the effect of surface damage on film. This superb new technique does not use chemicals, has no on-going running costs, and works to restore the original image behind the surface damage in real time – thereby saving the time and expense of post-scan de-spotting and re-touching.

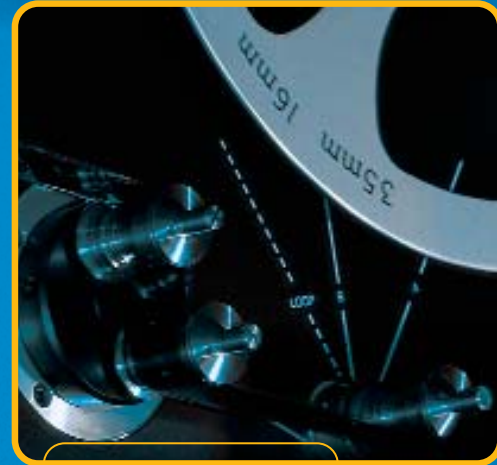
Uncompromised quality – **DSX** works at every stage of the process to achieve the highest possible quality. It incorporates full-resolution RGB scanning, image detection and colour channels.

High quality restoration facility – 'OLIVER' works in real time to restore film suffering from significant surface damage to match the cleanliness of the best transfers.

Precise and quiet – a direct scan path maximises the amount of light in the system to give a precise and very quiet image.

Picture stability – a state of the art digital servo maintains exceptional image stability. Based on the successful C-Reality film transport, it provides ultra-stable film path and handling, and can manage a wide range of speeds throughout its modes of operation.

Advanced optics – **DSX** includes 4K resolution optics and scanning CRT, ensuring your film transfers accurately match the original film image quality.



data

Image Purity

Colorists using **DSX** will be proud of the finished result, as they have maximum control over the images they create. Images not only have that distinctive, memorable 'filmic' look, but are also thoroughly clean and free from the effect of surface artefacts.

Superior colour accuracy and quality –

full resolution RGB scanning provides an endless colour spectrum and achieves a colour accuracy that is far superior to alternative methods.

It provides a greater degree of precision, enabling easier isolation of colour selection for vector processing and therefore precise repeatability.

Powerful built-in colour correction – DSX's sophisticated in-built colour corrector gives colorists the freedom to create images of worth.

It is a unique, user-definable system which enables comprehensive control of primaries as well as flexibility in isolating and modifying specific colours.

The classic 'look' – DSX uses flying spot technology to produce images which have the depth and warmth of the classic 'film' look. **DSX** captures the delicate texture and grain of film to provide an essential quality to the whole work.

Working with DSX

DSX has been designed to integrate easily into post production and mastering facilities, and to give you long term satisfaction with your investment.

Taking the best from C-Reality – because **DSX** incorporates the best features and benefits of C-Reality, it uses technologies which are already widely recognised in post houses across the world. Colorists will be up and running from day one of commissioning.

Data as you like it – DSX is capable of data from SD to 4K in what ever form or resolution you require – from Fibre and Hippi to HSDL, thereby meeting client data requirements from day one.

Compatible – DSX works with industry standard controllers, such as da Vinci and Pandora, which reduces the time taken for colorists to familiarise themselves with the technology, and also means you get the most from your investment – faster.

Flexible – DSX is extremely versatile, and can be used across a wide range of post production applications, particularly high-end commercial post production, resolution independent film mastering and restoration projects.

Evolvable – DSX is the latest technology available, and as with all Cintel data-cines, film scanners and telecines, we have designed it to be easily upgraded as new industry standards and technologies develop.

Low cost of ownership – we have designed **DSX** to give you many years of reliable high performance film scanning.

-cine



General

Dimensions	Width x height x depth Approximate weight	1650 x 1770 x 910mm 820kg
Power supply	Mains supply Power consumption	94V – 257V 4.5 kVA

Film Transport System

Film format	16mm, Super 16mm 35mm, Super 35mm
Film drive	Continuous motion servo, controlled to provide constant film tension (tension selectable)
Film type	Negatives, Intermediates, Prints Colour, Black and White
Film gate	16mm : 16mm, Super 16mm 35mm : 35mm, Super 35mm (8,4,3 perf and 2 perf)
Film capacity	> 2000ft, 18" diameter
Film frame rate	525 - 5 to 30 fps and 40 to 50 fps (to 60 fps with field per frame option) 625 - 5 to 30 fps and 33 to 50 fps 2K Data, 6-15fps, depending on interface Built in film counter 4K at 2 seconds per frame

Film Imaging System

Image scanning device	High resolution scanning cathode ray tube assembly
Image detection	Large area avalanche photodiodes OLIVER system
Dynamic range	0.0 to >3.3 Density range 14 bit RGB

Image Functions

Image control	X-Y pan and zoom 360o rotation 45o X-Y skew Perspective correction Scan aspects of 4:3 and 16:9 Anamorphic squeeze
Image control (Colour)	Broadband 14 bit digital RGB colour channel Pre-gamma lift and gain Gamma control / S gamma Post gamma lift and gain 6 variable colour vector processing Isolation: Hue, hue width, saturation & luminance isolation Effect: Hue, saturation and luminance control 12 bit RGB aperture correction +/- 12dB 625/ 525 reference frame-store Vertical and horizontal wipes. Output blanking for letterbox formats.
Outputs	Serial digital 10 bit linear or log switchable 4:4:4 RGB, 4:2:2 Y,Cr,Cb 625/50, 525/60 CCIR 601/656 1080i (50/59/60) 1080p 24sF 1080p 24F 720p LVDS data port (requires optional Postware system) High speed data link (HSDL)

Multi-standard scanner inclusive of C-VIP, 625/50 and 525/60, 720p, 1080i/50/60, 1080p, 24sf video operation, 4:4:4 and 4:2:2 10 bit output. 2K and 4K 14 bit scanning system.

Cintel provides dedicated solutions for the post production and film industries. We have offices in the UK and USA, and a network of agents and distributors in over 30 countries world-wide.

All of our products are supported through a global service network which includes telephone hot-line support, system updates, technical support and field engineers.

Cintel's DSX is part of a range of products designed specifically for the film scanning and image manipulation environment.

For more product information, or for an office near you, please contact:

**Cintel International Ltd
Watton Road, Ware
Hertfordshire SG12 0AE. UK
Tel: +44 (0) 1920 463939
Fax: +44 (0) 1920 460803
E-mail: sales@cintel.co.uk**

**Cintel Inc
25020 Ave Stanford
Suite 190, Valencia
California 91355-4672. USA
Tel: +1 (661) 294 2310
Fax: +1 (661) 294 1019**

Website: www.cintel.co.uk



Specifications are subject to change without notice 002-0704