



# film grain reduction

Grace is a true, multi-standard, grain reduction tool, which enables users to get the best from their images by providing any degree of grain removal to achieve a particular 'look'. It can be used in a very subtle fashion for those who prefer the classic filmic look, and applied more dramatically for those requiring a look that is more akin to the cleanliness of video.

**Easy to use**

Grace is simple and intuitive to operate and can be mastered quickly and efficiently. It is fully programmable and integrates well with all the major controllers. Grace can be easily configured to suit your need, and your favourite settings saved for future reference

**Flexible**

Grace's flexibility enables it to work at resolutions, from SD through to 2k and 4k data, regardless of film gauge and image format. Grace-in-a-box, the stand-alone version, has the additional flexibility to run in the tape-to-tape or disc-to-disc environment

**Digital intermediate application**

Grace is the world's first grain reduction tool capable of performing in an all-data environment, making it ideal for digital intermediate applications

**Cleaner images**

Grace is different. Working frame by frame, it avoids many of the artefacts inherent with other grain reduction systems

**Split screen wipe comparison**

A 'live wipe' facility enables the operator to split the screen to see the before and after effects of his correction settings, whether in still frame or run

**Colour accuracy and quality**

Grace uses full bandwidth, 14-Bit processing, giving the users a high degree of colour discrimination, and precise control

**Plug and play**

Grace-in-a-box is portable and very easy to fit, no need for engineering alignment

## Grace

Grain is an integral part of any film image. All film images are made up of tiny dye clouds, varied in size and density, which give film that distinct textured look, as opposed to the 'clean' grain-less image from a video camera image.

Grace is available 'in a box' to be used at any stage during post production, and is also available as an option, built-in to some of Cintel's film scanning devices.



### Grace-in-a-box

Grace-in-a-box runs on imageMill, a Cintel platform capable of running applications for image manipulation.

#### General

Dimensions	Width x height x depth	445mm x 45mm x 485mm
		Standard 19", 1U, Rack Mountable
Power supply	Weight	6.5Kg
	Mains Supply	90V - 265V
	Power consumption Max	180W
	Power consumption Nominal	110W
Video/Data formats	Standard Definition 625/50, 525/60 High Definition (all major formats) Data (2K and 4K HSDL format)	
Inputs	4:2:2 and 4:4:4:4 serial SD 22:11:11 and 22:22:22:22 serial HD, OR single/dual link HSDL	
Outputs	4:2:2 and 4:4:4:4 serial SD 22:11:11 and 22:22:22:22 serial HD (all major formats), OR single/dual link HSDL Dedicated 4:2:2 monitoring output from 4:4:4:4 input Dedicated 22:11:11 monitoring output from 22:22:22 input OR from 2K HSDL input	
Other I/O	2 x RS 232 control ports 2 x RS 422 control ports 100bT Ethernet control port USB connection	
Operation	Local control of all Grain reduction parameters using Graphical User Interface or control panel, including: Split screen wipe Main, Fine and Blue only grain reduction Detail (enhancement) and coring control Source selection (film or video type) Highlight and Lowlight Selection User definable Presets	

#### Grace (integrated film scanner option)

Grace is currently available as an optional item on DSX and C-Reality film scanners.

Available format support:	Standard Definition 625/50, 525/60 High Definition (all major formats) Data (2K HSDL format, 2K and 4K LVDS format)
Scanner control	Control of all Grain reduction parameters including: Split screen wipe Main, Fine and Blue only grain reduction Detail (enhancement) and coring control



Cintel provides dedicated solutions for the post production and film industries. We have offices in the UK, USA and Hong Kong 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, remote diagnosis, system updates, technical support and field engineers.

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

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Specifications are subject to change without notice 012-0405