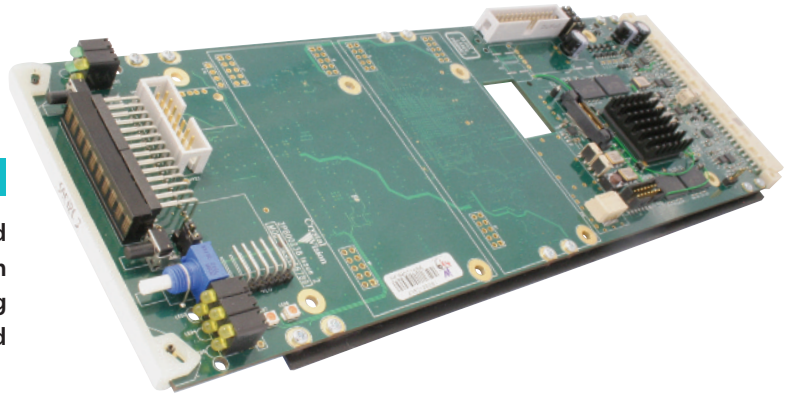


Crystal Vision

Safire 3 3G/HD/SD chroma keyer

PREVIEW INFORMATION

Safire 3 is a modular real-time chroma keyer for 3Gb/s, HD and SD sources and ideal for any live virtual production – from studio to sport. It includes numerous enhanced key processing features to help create a realistic key, as well as video delay and Foreground colour correction.



MAIN FEATURES

- **Ideal for any live chroma keying or virtual set production:** provides excellent real-time chroma keying
- **Use it with any source:** works with 3Gb/s, HD and SD
- **Get excellent results with minimal sensitivity to camera noise:** uses extremely sophisticated algorithm to determine how the key is derived
- **The easiest chroma keyer to set up and operate:** cursor-based auto-setup can use up to 12 points on the backdrop as well as four points on the Foreground object (the presenter) to set up the optimised processing
- **Tweak the picture until you're happy:** range of fine-tuning tools to optimise the picture in more challenging conditions (see feature box)
- **Key on any colour:** select blue, green or any colour you like – including sporting surfaces such as grass
- **Works with reflective and transparent objects, from spectacles to smoke:** linear chroma keying allows areas of the final picture to be a mixture of both Foreground and Background
- **Create a natural-looking composite picture:** match the look of the Foreground to the Background with the Foreground colour correction (RGB lift and gain) and the Background video adjustments
- **Correct any timing errors automatically:** includes a frame synchroniser on each input timed to an analogue reference
- **Offset the graphics generators' delay:** with ten frames of video delay adjustment on each input
- **Overrule the chroma keying:** use the internal masks and flexible External Key to force areas to be either Foreground or Background – ideal for inserting graphics on to any sporting surface
- **Use it as a linear keyer:** key any graphics over a video source
- **Flexible control:** initial control using SNMP or Statesman PC software – with dedicated Safire 3 Controller control panel coming early 2013
- **Saves rack space:** the 100mm x 266mm module fits in Crystal Vision's standard frames and allows 12 Safire 3 in 2U (24 in 4U, six in 1U and two in desk top box)

WHAT PROCESSING TOOLS DO YOU GET?

The numerous fine-tuning controls include...

Separate Hue and Acceptance controls for key generation and Foreground suppression: optimise the settings for key and Foreground without having to compromise

Blacks, whites and greys reject: reduce key in areas of black, white or grey for realistic shadows and a solid key

Tints reject: leave the key colour unsuppressed in areas of low colour such as grey clothing

Two-dimensional compensation for uneven illumination of the backdrop, with separate corrections for linear and radial lighting problems: achieve a uniform key signal across the image

Edge shaping: eliminate hard outlines by changing the shape of the key so that the transition between Foreground and Background occurs at a different point

Upsampling filter: reduce any ringing introduced by camera

Median filter: reduce noise in key

Gaussian filter: soften the key and reduce noise

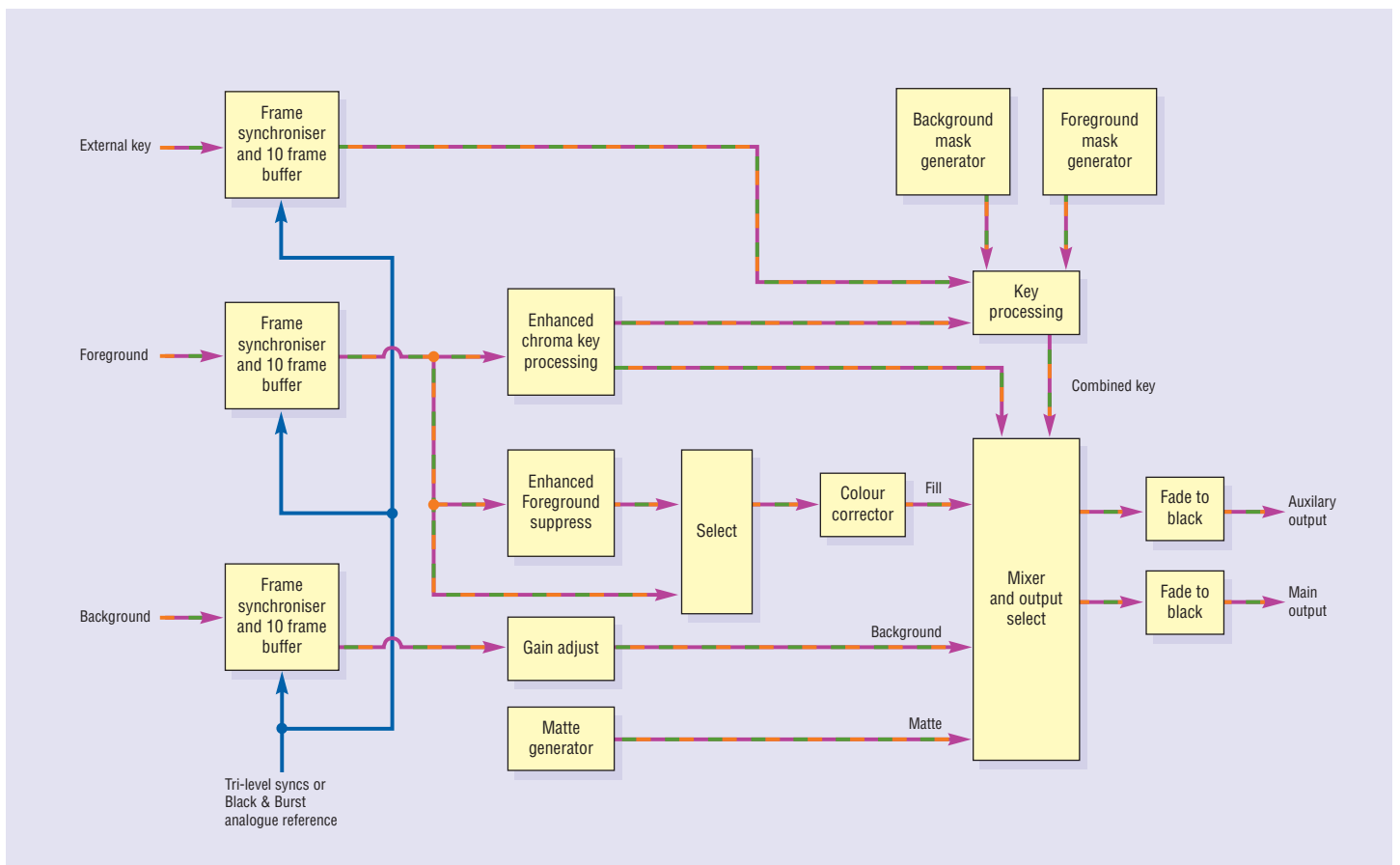
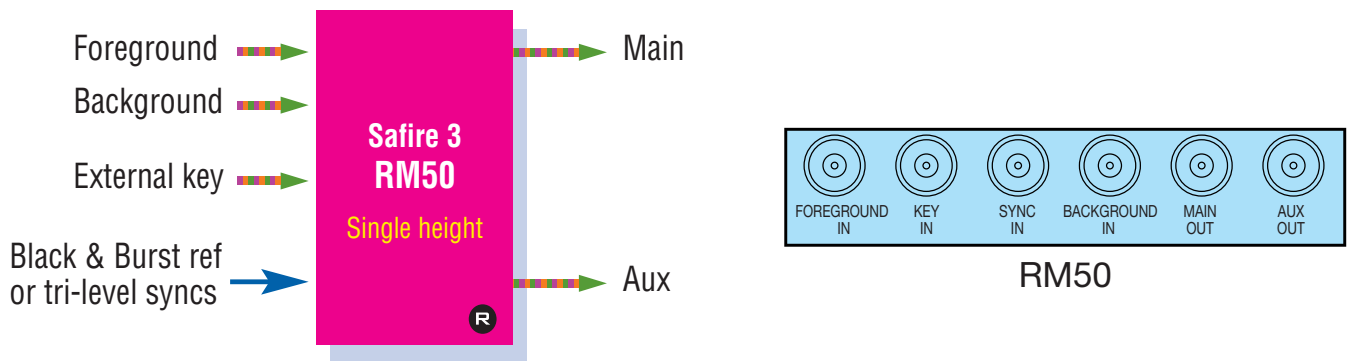
Colour spill processing: throw a new spill colour back on to the suppressed Foreground

Colour corrector: adjust RGB gain and lift on the Foreground

Background video adjustments: gain, lift and colour controls to match the Background to the Foreground

Rear module connections

RM50 is the first rear module specified for Safire 3. More rear modules will be announced shortly, including those with relay bypass protection functionality.



ORDERING INFORMATION

Safire 3	3G/HD/SD real-time chroma keyer
Indigo frames	Available in 4U, 2U, 1U and desk top box sizes and with different levels of control
RM50	Single slot frame rear module. Allows 24 Safire 3 in 4U, 12 in 2U, six in 1U and two in desk top box. Gives access to Foreground, Background, External Key and analogue reference inputs, one main output and one auxiliary output
Statesman	PC Control System
SNMP	SNMP monitoring and control

Features are subject to change. SAFIRE3-PROV1012B