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Defence & Security Products Division

Electronic Image Stabilisation Unit



The Pyser-SGI Electronic Image Stabilisation Unit uses the very latest electronic image processing technology to reduce camera shake, leaving operators with clear and steady video. It increases the effective operational range of high-zoom surveillance cameras where the slightest mechanical movement can introduce picture shake.

The unit is simply installed in-line with the viewing monitor and is compatible with either live or pre-recorded video. It operates by employing ultra-fast video motion analysis techniques to remove the shake in real-time, resulting in stable video, which is far easier to view. The Electronic Image Stabilisation Unit can also improve the performance of digital compression systems, such as Internet or ISDN video links, as stable images compress more efficiently.

The Pyser-SGI Electronic Image Stabilisation Unit operates by locking onto detail within the incoming video to differentiate between shake and background. Once locked, each video frame is repositioned to remove any shake resulting in clear and steady video. This is achieved by complex software algorithms running on the very latest multimedia hardware chip - the Philips Nexperia®. The unit has been specially developed to cope with demanding image stabilisation situations such as noisy video sources (eg low-light cameras), movement of large objects within the scene and operation with pan, tilt and zoom installations.

It is supplied as a strongly recommended optional accessory for PROMS and other long focal length cameras and camera systems manufactured by Pyser-SGI and is fully compatible with any product giving a PAL composite video signal, both live and pre-recorded.



Electronic Image Stabilisation Unit



Technical Specifications

General:		Monochrome only	Supported (high resolution)
Operating temperature range	0 to +40°C	Digitising resolution	PAL: 720 pixels by 576 lines NTSC: 720 pixels by 480 lines.
Mechanical size	160 x 90 x 24 mm	System delay	< 80 mS
Finish	Hard blue anodised aluminium	Video by-pass	Active whilst un-powered.
Weight	440g (approx.)	Stabilisation range	50% of screen max.
DC power connector	Locking 2.1mm DC Jack	Stabilisation frequency range	0.5Hz to 25 Hz approx.
Operating voltage range	10 to 16 V DC	External Control:	
Power consumption	~ 6 Watts (~500 mA @ 12V DC)	External control functions:	Video bypass, sharpest frame mode
Standard accessories	User guide, external control cable, mains PSU & lead.	External control activation:	Contact to ground / TTL compatible (Switching occurs at +1 V)
EMC compliance	EN5502 class A EN50082-1 FCC part 15B class A	External control connector	3 way 2.5 mm Jack
Video:			
Video input	Composite or S-Video		
Video input / output level	1 Vpp, 75 ohms.		
Standards supported	PAL, NTSC (factory configured)		

Ordering Information

Part No: 820800-02

Visit our website on www.pyser-sgi.com for further information on the complete range of products available from Pyser-SGI Limited.



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