



PYSER - SGI LIMITED
Fircroft Way, Edenbridge, Kent,
United Kingdom, TN8 6HA
Telephone: +44 (0)1732 864111
Facsimile: +44 (0)1732 865544
Email: sales@pyser-sgi.com
www.pyser-sgi.com

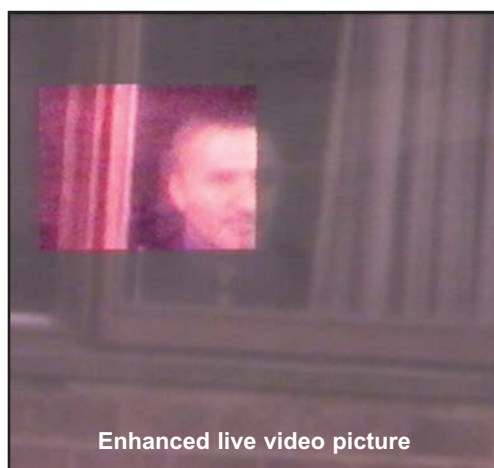
Defence & Security Products Division

Microtest EV9 Image Enhancer

The EV9 Image Enhancer electronically processes any incoming video signal for maximum image quality. It transforms hard to distinguish scenes as seen through a CCTV, video camera or pre-recorded video source into brilliant and crisp images viewed on a monitor, video recorder or printer. The EV9 Image Enhancer competently handles monochrome and colour video signals according to CCIR or EIA standards. With 10 windows it allows a range of local enhancement according to application. Running off a standard 12V DC input, the EV9 Image Enhancer is simple to operate and can be used in conjunction with both live video feeds and pre-recorded surveillance tapes. Having enhanced recorded video footage once, it can then be enhanced a further 2 to 3 times. Recent improvements have seen a reduction in power consumption and video loop through without power.



Live video picture shown
before enhancement



Enhanced live video picture

Applications:

- Low light surveillance
- Automatic number plate reading
- Diplomatic protection
- Harbours and airports
- Law enforcement
- Facial recognition
- Coastal protection
- Control rooms
- Town centres
- Military sites
- Homeland security



The EV9 Image Enhancer is employed extensively by security and intelligence forces throughout the world to improve surveillance material. It minimises effects caused by poor atmospheric conditions such as fog, rain and flare from the sun making it ideal for surveillance in poor weather. It's ability to eliminate glare from vehicle headlights and street lamps allows the user to identify otherwise obscured number plates and persons or objects indistinguishable in back lit areas. Such identification is further aided by the rocker switch function which allows greater line definition and general crispness. The EV9 Image Enhancer also lightens dark zones, aiding the identification of persons or objects hidden in the shadows and reduces obscurity caused by net curtains.

Actual images shown as seen through different window options



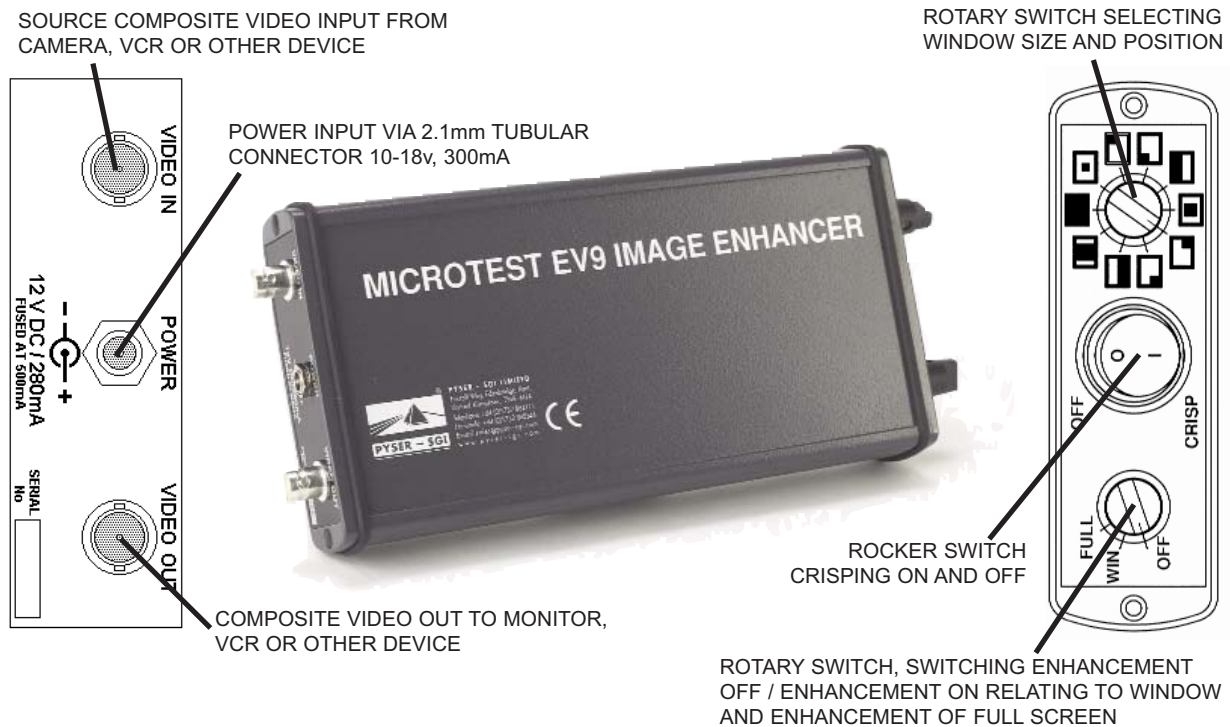
Live full screen video picture before enhancement



Live full screen video picture after enhancement

Routing the video signal through the EV9 Image Enhancer could not be simpler. Only 3 connections need to be made; video in, video out and power in.

In addition to being simple to set up, the EV9 Image Enhancer operates using just 2 rotary switches and a rocker switch. One of the rotary switches turns the device on and off. When on, it gives the option of viewing the enhanced image either as a full screen or as one of the 10 window options. The other rotary switch allows the operator to choose between the 10 windows according to the area that they wish to enhance. By turning on the rocker switch greater line definition and general crispness can be obtained.



- Enhances image in 10 selected window sizes including full screen
- 12V DC input
- BNC output
- BNC input
- Works with colour & monochrome
- Video input/output CCIR (PAL) or RS-170 (NTSC) composite video (CVBS)
- Simple controls
- Highly effective in low light or misty conditions
- Penetrates dark areas in scenes of extreme contrast such as street lights



Typical installation with CCTV Camera, monitor and VCR

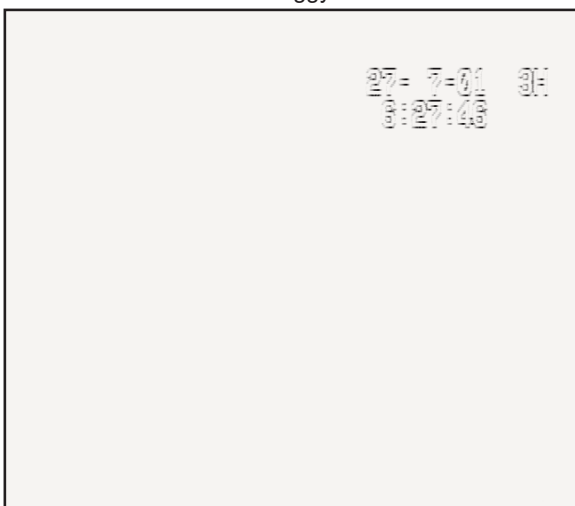
Specifications

Resolution	> 1000 TVL
Bandwidth	> 10 MHz. at 6dB
Signal to noise ratio	> 60 dB (max. gain)
Gain	Automatic, 0 - +32 dB
Black level	Automatic, 0 - 100%
Gamma	1
Enhancement	on/off, window only
Measurement window	10 predefined window positions and sizes (including full screen)
Contour	on/off (+5dB at 3 MHz.)
Input video signal	Monochrome (or colour) (C) VBS, 1Vpp in 75W
Output video symbol	(C) VBS, 1Vpp in 75W
Synchronisation	Automatic
Video Standard	CCIR or EIA STD
Supply Requirements	10-15 VDC, <300mA
Temperatures	
operating	-10°C to +40°C
storage	-30°C to +80°C
Humidity	20% to 80%, non-condensing
Weight	<600 gram
Size	L240 x W106 x H32mm

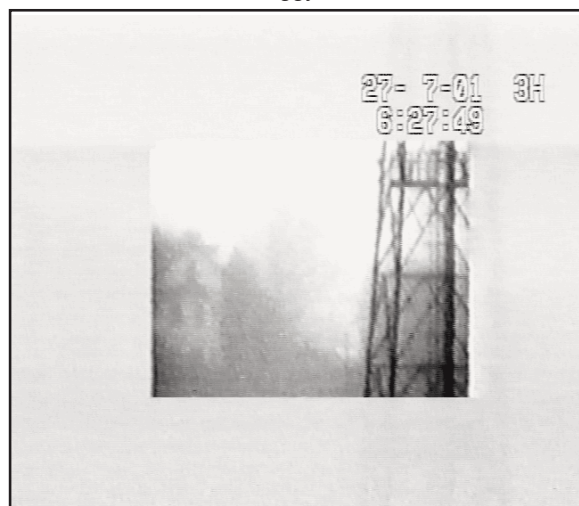
Ordering information

583-334	Video Image Enhancer, MicroTest EV9
583-335	12V Power Supply for EV9 for UK use
583-336	12V Power Supply for EV9 for EU use

Picture shown before video enhancement
Live video in foggy conditions



Picture shown after video enhancement
in same foggy conditions



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



PYSER - SGI LIMITED
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United Kingdom, TN8 6HA
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Email: sales@pyser-sgi.com
www.pyser-sgi.com

PYSER - SGI (ASIA) PTE LTD
65 Ubi Crescent,
#06-01 Hala Centre,
408559 Singapore
Telephone: +65 6749 7784
Facsimile: +65 6749 3992
Email: sales@pyser-sgi.com.sg
www.pyser-sgi.com

