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# ENC400A Operation Manual

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RGB to NTSC and S-Video Encoder

**MicroImage Video Systems**  
division of World Video Sales Co., Inc.

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Rev 2 02-16-2001

## Specifications

Input level	(RGB) 1.0 Vpp Composite, 75 Ω terminated (S) 5.0 Vpp max 75 Ω terminated
Output level	(Y & Video) 1 Vpp typical into 75 ohm (C) 0.28 Vpp burst typical into 75 ohm
Connectors	(R, G, B, S, Video) BNC female (S-Video) 4 pin mini DIN F
Resolution	Greater than 400 lines
Modulation	R-Y, B-Y Axes
Genlock	Combination Analog & Digital Synthesis
Sync	Internal (sync on green) or External (default)
Video System	NTSC, RS170
H & V Frequency	15.734 Khz (H), 59.95 Hz (V)
Chroma Frequency	3.579545 Mhz
Temperature	
Operating	0° ~ 40° C (32° ~ 104° F)
Storage	-40° ~ 60° C (-40° ~ 140° F)
Humidity	
Operating	10% ~ 90% (non-condensing)
Storage	5% ~ 95% (non-condensing)
Power	11-20 VDC (+12 VDC typical) 120V power adapter included
Size	5.6" (w) x 4.1" (D) x 1.6" (H) 142 mm (w) x 104 mm (D) x 40 mm (H)
Weight	12 oz. (340 g)

Manufactured in USA by MicroImage Video Systems

## Unpacking

The ENC400A package includes the following items:

ENC400A  
12V wall plug transformer - DPD120050 or optional  
universal power supply DTS120150  
This operation manual

Please inspect all items carefully and report damaged or missing items to your dealer or MicroImage Video Systems.

## Connections

### Power

The ENC400A uses a 12 VDC wall plug transformer which is included with the unit. Connect to a source of 120VAC, 60Hz.

### Video Connections

Connect the video source (i.e. camera) to the RGS IN connectors on the ENC400A unit. Connect the OUTPUT signals (Video or S-Video) from the ENC400A unit to the video displays as required.

The ENC400A is set from the factory to work with external sync. An internal jumper can be changed to select internal (sync on green).

The RGB signal source **must** meet NTSC RS-170(A) specifications (H & V frequency) for this product to work properly.

## In case of difficulty

If you are experiencing problems with your MicroImage product, you can contact us in one of the following ways.

**Mail** MicroImage Video Systems  
a division of World Video Sales Company, Inc.  
P.O. Box 331 # Boyertown, PA 19512  
**Phone** 610-754-6800  
**Fax** 610-754-9766  
**Email** [support@mivs.com](mailto:support@mivs.com)  
**Web** [www.mivs.com](http://www.mivs.com)

## Warranty

MicroImage Video Systems warrants that each ENC400A is free from defects due to faulty materials or improper workmanship for a period of one (1) year. MicroImage Video Systems further warrants that any part which proves defective in materials or workmanship within one (1) year, will be replaced or repaired at no cost to the user. Labor to replace defective parts will be done without charge, provided the equipment is returned to MicroImage Video Systems prepaid, insured and properly packaged. Prior return authorization must be obtained from MicroImage Video Systems.

### NOTE

This warranty covers the MicroImage ENC400A only.

### CONDITIONS

This warranty is void if the warranted part has been altered or subjected to abuse or misuse. Defective parts must be returned to MicroImage Video Systems.

### SOLE WARRANTY

This Warranty is in lieu of all other warranties expressed or implied including, without limitation, any implied warranty or any implied warranty of fitness for a particular purpose. MicroImage Video Systems shall have the final right to determination as to the existence and cause of any defect and its appropriate adjustment in accordance with the terms of this warranty. In no event shall MicroImage Video Systems be liable for any consequential or collateral damages.

## Returns

All returns **MUST** have an RMA number. Please call, fax or email for an RMA form. The RMA form will have the proper shipping address for returns.

Phone 610-754-6800  
Fax 610-754-9766  
Email [service@mivs.com](mailto:service@mivs.com)