

**VP103 / VP203**  
**Video Pointer**  
**Instruction Manual**

Model VP103 & Model VP203  
rev.# 01 July 10, 1996 JWS/SLC

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## Features

- ! Processes YC (S-Video) & NTSC/B&W signals (VP103) or RGB & YC (VP203)
- ! Provides NTSC video output when YC signal is applied (VP203 only)
- ! Provides arrows (8), boxes (2) and crosshairs (2)
- ! Flash function to accentuate pointer
- ! Precision SMPTE style (VP203) or Full Field Color Bars (VP103) are provided to align multiple monitors

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## Unpacking Instructions

The MicroImage Video Pointer consists of:

MicroImage Video Pointer VP203 for RGB/YC or VP103 for YC/NTSC/B&W  
Wall Plug Power Supply  
This Instruction Manual

See the *Optional Items* section for other MicroImage products that may enhance video operations.

Unpack all items carefully. Check each item against contents list above.

Inspect Unit to make sure there is not any shipping damage. If there was shipping damage, Call MicroImage Video Systems Immediately. Do NOT plug unit in to power if damaged. Further destruction and/or injury may result.

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## Installation

Plug power cord from power supply into POWER connector on rear of unit.

Plug power supply into 120 VAC, 60Hz AC power.

Turn on power switch. Green power light in switch should come on. If the power indicator does not come on, see the *In Case of Difficulty* section of this manual.

Connect Unit as specified in the ***Video Connections*** section of this manual.

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## Video Connections

The MicroImageVideo Pointer is capable of processing two different video signals at the same time. These are RGB, YC (S-Video) (VP203), or YC (S-Video), NTSC Video (VP103). The only requirement is that all inputs **MUST** be from the same Sync source (i.e. all from the same camera). If the signals are from different Sync sources, some of the images may appear to “float” around the picture. If only one source is connected, the unit will automatically configure itself to use the timing information from that source. There are no switches to set for signal or Sync type as in some other products.

### NTSC or B&W

On VP103, connect a BNC cable from the video source (i.e. Camera) to the NTSC input on the VP103.

On the VP203, the NTSC video output will only function if YC video is applied to the YC (S-Video) input.

Connect a BNC cable from the NTSC OUT connector on the Video Pointer to the VIDEO IN connector on the monitor. If this is the only monitor being used, place the TERM switch in TERM or 75Ω position.

If a second monitor is being used, please consult the monitor manual for proper looping and termination procedures. Not all monitors terminate the same way. Some monitors do not have looping capability, in this case a Video Distribution Amplifier will be required. An improperly terminated monitor will result in a degraded picture.

### S-Video (YC)

Connect a YC (S-Video) Cable from the video source (i.e. Video Camera) YC or S-Video output to the YC IN connector of the Video Pointer.

Connect a YC (4 pin to 4 pin) cable from the YC OUT connector on the Video Pointer to the YC IN (S-Video) Connector on the monitor. If only one YC monitor is being used, place the YC TERM switch in TERM or 75Ω position.

If a second YC monitor is being used, please consult the monitor manual for proper looping and termination procedures. Not all monitors terminate the same way. Many monitors do not have looping YC capability, in this case a YC Distribution Amplifier will be required. An improperly terminated monitor will result in a degraded picture.

### RGB

Connect Red, Green, Blue, and if required Sync Cables from the video source (i.e. Video Camera) RGB output to the RED IN, GREEN IN, BLUE IN and if required, SYNC IN connectors of the Video Pointer.

Connect RED, GREEN, BLUE and if required SYNC cables from the RED, GREEN, BLUE and SYNC OUT connectors on the Video Pointer to the appropriate connectors on the monitor. If only one RGB monitor is being used, place the RGB and SYNC TERM switches in TERM or 75Ω position.

If a second RGB monitor is being used, please consult the monitor manual for proper looping and termination procedures. Not all monitors terminate the same way. Many monitors do not have looping RGB capability, in this case a RGB Distribution Amplifier will be required. An improperly terminated monitor will result in a degraded picture.

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## VCR Connections

The NTSC and YC signals may be recorded on videotape. High resolution VCRs such as the S-VHS type will give higher quality recordings than standard VCRs. Use of the YC signal with these VCRs will provide the highest resolution. The combination of RGB for real time display and YC for recording is the optimum way to obtain best picture quality.

### NTSC

Connect a cable from the NTSC OUT connector of the Video Pointer to the VIDEO IN connector on the VCR. Note that adapters or special cables may be required.

Connect a cable from the VIDEO OUT connector of the VCR to the Video or NTSC INPUT connector of an NTSC monitor as described in the VCR instruction manual.

DO NOT connect the above signals to the Antenna or ANT connectors on the VCR.

### YC

Connect a YC (S-Video) cable from the YC OUT connector on the Video Pointer to the S-Video INPUT connector on the VCR. Note that a VCR with YC capability such as an S-VHS VCR must be used.

Connect a YC (S-Video) cable from the S-Video OUTPUT connector on the VCR to the YC or S-Video INPUT connector on a YC monitor as described in the VCR instruction manual.

If the VCR has a switch to select NTSC(Video) or S-Video, place the switch in the S-Video position. See the VCR operation manual for more information.

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## Pointer Controls

- |              |   |   |
|--------------|---|---|
| Power Switch | - | Provides power to both the MicroImage video pointer. A green light in the power switch indicates power is on.   |
| Color Bars   | - | Two position switch which turns the color bar generator ON or OFF. In the ON position color bars will appear on the monitor screen. The switch must be in the OFF position to allow the camera image to appear on the screen. |
|              |   | From left to right, the color bar order is: Gray (White), Yellow, Cyan, Green, Magenta, Red, Blue, Black on the top of the screen.  |

- Pointer - Two position switch which allows the video indicator (pointer) to be displayed on the monitor screen in the ON position. If the indicator is not needed the switch should be in the OFF position.
  - Flash - Two position switch which will flash the video indicator on and off.
  - Large/Small - Two position switch which selects LARGE or SMALL sizes of the video indicator.
  - Intensity - Control which fades video indicator image from black to white or any level of gray in between.
  - Joystick Positioner - Allows movement of the pointer image on screen.
  - Shape Selector - Rotary switch used to select desired video indicator.
- NOTE: MicroImage Video Pointer automatically determines which signal is connected and selects the correct processing.

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## Operation with a VCR

For normal use, the Camera and the VCR may be left connected. However, both the Camera and the VCR (along with any other connected equipment) must have their power turned on in order to see a proper camera image on the video monitor.. If the VCR is connected properly, it should pass the camera image just like if the VCR was not connected while stopped. If PLAY is pressed on the VCR, then of course you should see the video tape picture instead of the current camera image.

The exact procedure for recording and playing tapes on a VCR varies between different models. It is impossible to describe all the methods here. Please refer to your VCR operation manual BEFORE calling MicroImage Video Systems. If calling MicroImage Video Systems for assistance on VCR connection problems, please have the VCR operation manual handy. Manuals for other equipment are also good to have at hand. Not all VCR related problems are the VCR.

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## Precautions

DO NOT allow water or moisture to enter unit. Injury and/or damage may result.

DO NOT stress cables or bend tightly at connectors. DO NOT pull cable by connectors. Avoid twisting the cable near connectors.

Connect power supply unit only to 110-125 VAC 50/60Hz.

Clean with only a mild cleaner. Strong cleaners may damage the finish. When cleaning, dampen a soft cloth and then wipe unit. NEVER spray any cleaner directly into any electronic product. Severe damage and/or a lethal or severe shock may result!

Please put all manuals for this system in a safe place where they are easily found if needed.

### **1 - No Picture:**

- 1) Check all connections.
- 2) Make sure power is connected and unit is turned on. Power light should be illuminated. If power lamp does not come on and power is applied, call MicroImage Video Systems for assistance.
- 3) If other equipment is installed between camera and monitor, check the camera and monitor for proper operation by connecting camera (or pointer) directly to monitor. Use the color bar signal to test the pointer/monitor connection.

### **2 - Color bars work but camera does not:**

- 1) Check camera to Pointer connections.
- 2) Make sure camera power is turned on and connected to camera.
- 3) Make sure light is getting to camera or there is signal coming from video source.

### **3 - No Pointer image:**

- 1) Make sure image is turned on (Pointer on/off switch in upper position).
- 2) Move joystick to make sure pointer is not "lost" in the picture.
- 3) Rotate Intensity knob to make sure pointer is not "lost" in picture.

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## Technical Assistance

FOR TECHNICAL ASSISTANCE CONTACT:

### **WORLD VIDEO SALES CO., INC.**

P.O. Box 331  
Boyertown, PA 19512  
Attention: Customer Service  
Phone: (610) 754-6800

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## Specifications

Output Levels:	
NTSC	1.0 Vpp Composite, 75 $\Omega$
YC	1.0 Vpp (Y), 0.286 Vpp Burst Level (C), 75 $\Omega$
RGB	0.7 Vpp, 75 $\Omega$
Sync	1.0 Vpp, 75 $\Omega$
Connectors:	
NTSC	BNC Female
YC	4 pin mini-DIN Female (Std. S-Video conn.)
RGB	BNC Female
Scanning Frequency	15.734 Khz (H), 59.94 Hz (V)
Chroma Frequency	3.579545 MHz
Sync System	External (Genlock)
Color Bars	SMPTE style split (VP203), full field (VP103)
Pointer image pixel size	167nS (H) x 2 lines (V)
Pointer image size	64 x 64 pixels max (except large crosshair)
Operating Temperature Range	-10° ~ +50° C, 95% RH max.
Video Pointer Power	12 VAC, 60 Hz, 24W max.
Wall Plug Power Supply input	120VAC, 60Hz, 36W max.
Dimensions	11.5" (W) x 8.5" (D) x 3.25" (H) 292mm (W) x 216mm (D) x 82.6mm (H)
Weight	6.5lbs.



MicroImage Color Video Cameras

MicroImage Timer /Titlers

MicroImage Split Screen Controllers & Video Faders

MicroImage Fixed Pattern Generators

MicroImage CrossLine Generators

MicroImage Video Distribution Amplifiers (VDA)

MicroImage Video Passive Switch Boxes

### **CABLES**

CAB11003	3 ft BNC to BNC Cable
CAB11006	6 ft BNC to BNC Cable
CAB11012	12 ft BNC to BNC Cable
CAB11025	25 ft BNC to BNC Cable
CAB11050	50 ft BNC to BNC Cable

CAB12006	6 ft S-Video (YC) Cable
CAB12012	12 ft S-Video (YC) Cable
CAB12020	20 ft S-Video (YC) Cable
CAB12030	30 ft S-Video (YC) Cable

RGBS BNC cable bundles also available. Other length camera cables also available. Contact MicroImage Video Systems for part numbers and availability.

MicroImage camera cables also available.

MicroImage Video Systems offers many more cables than listed above including longer versions. Please contact MicroImage Video Systems to check availability of cables not listed.

All above items may be ordered from your MicroImage Video Systems dealer.

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## Warranty

World Video Sales Co., Inc. warrants that each MicroImage VP103/VP203 Video Pointer is free of defects due to faulty materials or improper workmanship. World Video Sales Co., Inc. further warrants that any part which proves defective in materials or workmanship within one 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 World Video Sales Co., Inc. prepaid, insured and properly packaged. Prior return authorization must be obtained from World Video Sales Co., Inc.

### **NOTE**

This warranty covers the MicroImage VP103 or VP203 Video Pointer 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 World Video Sales Co., Inc.

### **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. World Video Sales Co., Inc. 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 World Video Sales Co., Inc. be liable for any consequential or collateral damages.

Please call for a RMA Number on all repairs.

After obtaining an RMA number, ship product to:

WORLD VIDEO SALES CO., INC.  
625 Hoffmansville Road  
Suite 3  
Bechtelsville, PA 19505  
Attention: (RMA#)

Phone: (610) 754-6800

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