
D1071A

DSP Color Camera

Operation Manual

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Features

- 1/3" CCD with 410K pixels, produces image with horizontal resolution up to 470 TV lines
- On-screen display menus
- Auto or manual white balance and gain
- Mirroring and negative image options
- Composite video and S-Video (YC) output
- Includes all necessary cabling and power supply
- MicroImage Support

Unpacking

The MicroImage D1071A camera system for NTSC and S-Video consists of:

MicroImage D107A camera module
AP2164W or equivalent Wall Plug power supply
CAB11006 6 foot BNC cable
CAB12006 6 foot S-Video Cable
This instruction manual

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

Inspect unit for 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.

Precautions

1. Do not touch the surface of the image sensor.
2. Only use the specified power supply. Use of a power supply other than the specified power supply will damage the camera.
3. Do not attempt to aim the camera at the sun. Never attempt to aim the camera at the sun or other extremely bright objects that cause smear to appear irrespective of whether the camera is operating or not. This can damage the CCD.
4. Do not allow the camera to be subjected to strong impacts or shocks.

Connectors and Controls

The D107A camera back panel contains three connectors, five push-button switches, and one LED indicator.

The VIDEO OUT connector provides a composite video signal which may be routed to a monitor via the supplied BNC cable.

The 4 pin mini-DIN connector marked S-VHS (also referred to as S-Video or Y/C) provides a higher quality video signal for connection to an appropriate monitor using the supplied S-Video cable. This is the preferred video connection.

The POWER IN connector is designed to accept the 2.1mm plug on the included wall plug power supply. Use of an improper power supply may cause damage to the camera. The green Power Indicator LED should be illuminated when the camera is operational.

On-Screen Display

The on-screen display menu uses a group of five push buttons on the camera back panel. Press and hold the center button for at least three seconds to activate the menu display. The upper and lower buttons select the previous or next item on the menu, while the left and right buttons change the setting of the currently highlighted menu item. Pressing the center button activates or saves the new setting.

OSD Page 1

BRIGHTNESS	Adjusts video level when Iris is set to ELC
CHROMA	Adjusts color intensity
TINT	Adjusts red/blue color balance
SHARPNESS	Adjusts edge enhancement
EXIT/PG2/PRESET	Exits menu, changes to page 2, or restores factory defaults

OSD Page 2

IRIS	Selects between manually adjustable and automatic brightness control modes
SHUTTER	Selects manual electronic shutter speed (1/100 to 1/12,000) when in ALC mode
AGC	Selects Auto Gain of +12dB, +18dB, or OFF
W/B	Selects between Auto White balance, AWC, and Fixed white balance modes
MIRROR	Reverses the image horizontally
BLC	Selects amount of Back Light Compensation
POSI/NEGA	Provides a negative image
SYNC	Not used in this model
ZOOM	2X digital Zoom
EXIT/PG1/PRESET	Exits menu, changes to page 1, or restores factory defaults

Camera Operation

The electronic iris may be set for either fully automatic or manual adjustable modes. The ELC mode activates both the automatic electronic shutter mode and the brightness adjustment on the first menu page, while ALC mode disables these and enables the manual SHUTTER control on the next menu line.

W/B settings include ATW (Auto White balance), AWC (pushbutton white), and Fixed white balance. To set AWC, point the camera at a known white reference, then press and release the center button. The AWC letters will blink while the camera is adjusting, and stop when the camera is set.

Back Light Compensation may be adjusted for varying contrasts between foreground and background light levels, or switched off. When activated, a sub-menu will appear to allow adjustment.

Digital Zoom may be switched on or off. A sub-menu will appear to allow user adjustment between 1X and 2X zoom level.

To exit the menu and return to normal operation, select EXIT using the up or down buttons, then press the center button.

To view the second menu page, select EXIT using the up or down button, then select PG2 with the left or right button. Press the center button to activate the selection.

To return the camera to original factory settings, select EXIT using the up or down button, then select PRESET with the left or right button. Press the center button to activate the selection.

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
www.mivs.com
support@mivs.com

Returns

MicroImage Video Systems is a division of World Video Sales Co., Inc. Please call for a RMA Number and shipping address on all repairs.

WORLD VIDEO SALES CO., INC.
625 Hoffmansville Road, Suite 3
Bechtelsville, PA 19505
Attention: [insert RMA number here]
Phone: (610) 754-6800

Note: You MUST have an RMA number for returns & repairs

Specifications

Horizontal Resolution	470 lines
Image Sensor	1/3" CCD, 768 (H) x 494 (V)
Scanning System	2:1 interlace, RS-170
Scanning Frequency	15.734 Khz (H), 59.94 Hz (V)
Chroma Frequency	3.579545 Mhz
Sync System	Internal
NTSC Output	1 Vpp composite video
S-Video (YC) Output	(Y) 1 Vpp, (C) 0.28 Vpp burst
Shutter System	Auto/Manual
Auto Shutter Range	1/60-1/100,000 sec.
Gain	AGC
Backlight Compensation	On/Off
White Balance	Auto or Pushbutton Manual
Auto White range	3000-9000 deg K
S/N Ratio	better than 52dB (AGC Off)
Minimum Illumination	0.8 Lux/F1.2 (5600 deg K)
Lens Mount	C-Mount
Connectors	
NTSC	BNC Female
S-Video Out	4 pin female mini-DIN
Power	Coaxial 2.1mm female
Power Requirements	+12VDC +/- 10%
Operating Range	-10 ~ +50 deg C, 90% RH max
Dimensions	2.6" x 2" x 2.3" 65mm x 50.5mm x 60.5mm
Weight	9 oz. (225g)

Warranty

World Video Sales Co., Inc. warrants that each MicroImage D1071A camera system 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 D1071A camera and power supply 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.