



V-1204A MARSHALL NO LIGHT BOARD CAMERA!

- Built-in infrared light source
- See up to 10 feet in *total darkness!*
 - 400 lines of resolution
- Picture edge-enhancement built in

The **V-1204A** is unique in that it carries its own **infrared light source**, providing a clear picture under **total dark** conditions. The **PC board** can be snapped in half and folded, each half connected by a flat computer-type ribbon cable. The camera will then fit inside a 3" pipe or other small object. It has been used to monitor animal night-life and QC inspecting packages on a conveyor line. Sensitive into the near infrared, including the invisible-to-the-eye GaAs laser frequency at 850 nm.

Picture: 542(H) x 492(V), 270,000 pixels. Resolution: 400 TV lines. Signal To Noise: More Than 46 dB. Min. Illumination: .05 FC, (.5 Lux) - daylight, 0.00 FC - within ten feet. Iris Control: Electronic. Lens Mount: Adjustable with set screw. Connectors: 4 wire plug-in connector (video, power, 2 grounds). Lens 3.3mm f2.0 (74'H x 56'V). Power: 12V DC, 120 mA. Size: Sensor board 1.73 x 1.73. Weight: 1.79 oz (51.1 g). **V-1204A MAR** (borad camera)

V-1205 LOW LIGHT CAMERA

- 380 line resolution
- Ultra-low light .005 FC sensitivity
 - IR sensitive to 1100 nm
 - Built-in wide angle lens
- Miniature size: 1.73" x 1.73"
- Auto-iris adjusts to all lighting

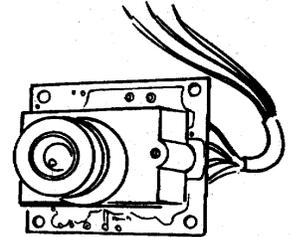
The first low cost board camera to equal or surpass human vision in low light conditions. Hooks directly (with coax cable & 12 vdc) to video monitors, VCRs, and camcorders. Lens can be adjusted to focus as close as 1/2".

V-1205 MAR

"BNC" SURGE PROTECTORS	
DESCRIPTION	PART #
VIDEO — Coaxial interface primary protector for video and IBM 3270.	D10B2 TRI
THINNET — Coaxial interface secondary protector for ethernet I/O ports.	CS1S-EN SEN

V-1208 MARSHALL DAY LIGHT CAMERA (MINIATURE, BOARD)

- 380 line resolution
- .04 FC sensitivity
- 537 x 505 pixels
- Built-in wide angle lens
- Smaller than a business card
- Auto-iris adjusts to all lighting
- 8-14 VDC operation



Using a 1/3" format CCD, the **V-1208** provides excellent resolution and low light sensitivity for industrial, scientific, security and safety applications. Extremely reliable and versatile, this is the only camera which can accept either the microminiature lenses or (with the V-CMA adapter) any "C" or "CS" mount lens.

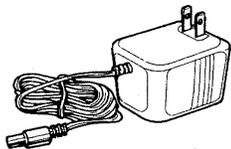
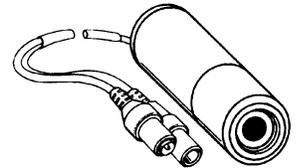
Picture: 537(H) x 505(V), 270,000 pixels. Resolution: 380 TV lines. Signal To Noise: More Than 45 dB. Min. Illumination: .04 FC, (.4 Lux). Iris Control: Electronic.

Lens Mount: Adjustable with set screw. Connectors: 3 wire plug-in connector (video, power, ground). Lens 3.6 mm f2.0 (74° H x 56° V). Power: 8-14V DC, 140 mA. Size: 1 1/2" w x 1 1/2" h x 0.57" d. Weight: 0.7oz (20g)

V-1208 MAR (board camera) **V-1208-SCT** (camera in housing w/screw terminals).

Weatherproof Miniature Bullet Camera — Bullet shaped cylindrical aluminum body (2" x .90"), electronic auto-iris, mounting bracket for easy installation, 360 line resolution, 9-16vdc 110 mA operation, comes w/120cm of cable (BNC termination)

V-1214-BNC MAR (B & W) **V-2214-BNC MAR (color)**



POWER SUPPLY — 12 vdc power supply, 0.35 amps, regulated, for use with the above cameras. Screw terminals **RTD12/5RT REVERSE**

COAX/WIRE — All that is required for Marshall cameras is a 12vdc power cable & standard video coax, such as **RG59** coax & **8442 Belden** power cable. Or, get the special, super flexible Mogami Siamese coax. Looks like zip cord but is two coax cables (one for signal and one for power). Will carry power 100-200' and signal 1000'! **W2942 MOG** (sold per foot)

BNC (m) — To fit Mogami cable (above). **BNCWRGB28 MAR**

VIEW ACTUAL CAMERA IMAGES ON MARSHALL'S WEB SITE: www.mars-cam.com