- **Choice of Power over Ethernet (POE) or 12 VDC Power**
- **1/4″ Color CMOS Camera**
- **Built in Video Server**
- **Requires Only 1/16″ Viewing Hole**
- **Over 20m (66 ft.) of Camera Cable Included**

aigis mechtronics

IP Micro Camera

MCHIP1-POE-20

The IP Micro Cam System is a self-contained covert surveillance system consisting of a camera and cable, a small 2.74 inches wide x 1.29 inches high and 3.6 inches long aluminum housing with a built-in video server and a RJ45 Ethernet connection for power and data. The MCHIP1 can also be Powered over the Ethernet cable (POE) or via a separate 12 VDC power supply.

The camera, a 1/4-inch color CMOS, requires a mere 1/16-inch viewing window and can be concealed in a ceiling or wall. This camera comes with its own lightweight cable that permits the camera to be as far as 20m or (66 feet) from the housing/server.

This unit uses a built in web server that allows for secure password protected viewing over the Internet with a standard browser and a fully functional configuration tool accessible from a remote location. The video is real time full-frame rate Motion JPEG and/or MPEG-4 video.

Included with the unit is a full featured Network Video Recorder (NVR) software package that can view and record up to 16 simultaneous channels at no added cost. A license is required to obtain additional channels.

The Aigis IP Micro Cam is an innovative, cost efficient, network based covert camera ideal for temporary investigations or other sensitive security applications.

SPECIFICATIONS

WEB SERVER		
Video Compression	**Compression**	MPEG-4 SP Compliant, MJPEG
	Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (160x112 in NTSC, 176x144 in PAL)
	Bit Rate	28K ~ 3M bps
	Image Frame Rate	30fps at full D1 resolution (NTSC), 25fps at full D1 resolution (PAL)
Video Input	**Composite Input**	CVBS, 1.0Vp-p with 75Ω loading
External I/O	**Reset Button**	Factory Default
	LED	Power Status
Network	**Ethernet Port**	Ethernet (10/100 Base-T)
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP
Software	**Web Browser**	Microsoft Internet Explorer 6.0 or above
	Security	Password Protection: Configured by the Administrator

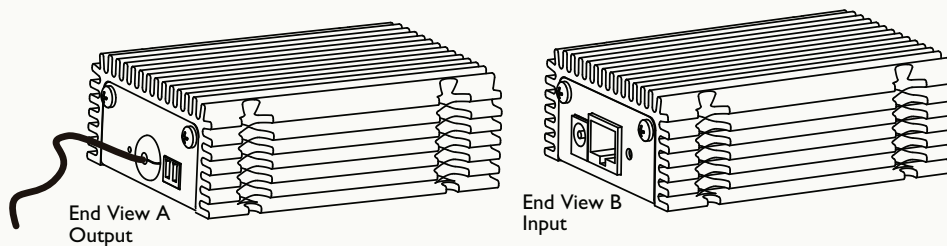| MINIMUM OPERATING REQUIREMENTS FOR THE NVR SERVER SOFTWARE		
16 Channel	**CPU**	Intel Core 2 Duo 2.4 GHz
	Memory	1 GB
	Hard Drive Capacity	250 GB
	Video Card	nVidia 7600 Chipset 256 MB
32 Channel 48 Channel 64 Channel	**CPU**	Intel Core 2 Duo 2.66 GHz
	Memory	4 GB
	Hard Drive Capacity	250 GB
	Video Card	nVidia 7600 Chipset 256 MB

Notes:
1. The NVR Sever Software included with the MCHIP1-POE-20 is a fully functional network video recorder that supports up to 16 simultaneous video channels. Licenses are available for the 32, 48, and 64 channel versions. Please contact an Aigis Sales Representative for additional information.
2. The NVR Server Software only supports Aigis brand IP devices.
3. Please visit www.aigismech.com, MiniLine, IP Micro Cam, for a list of compatible technologies that support the Aigis IP encoder output.
4. Windows 2000 is not supported. The use of AMD and the x64 series processors are not recommended at the time of this printing.

COLOR CMOS CAMERA	
Horizontal Resolution	380 TV Lines
Minimum Illumination	1 lux @ f/1.2
Image Sensor	1/4" Color CMOS Chip
Power Supply	5-12 VDC (Recommend 9VDC)
Power Current	60 mA (max.)
Video Format	NTSC
Pixels	656 (H) X 492 (V)
Scanning System	2:1 Interlace
S/N Ratio	48 db
Synchronization	Internal
Electronic Shutter	1/50-1/200,000
Video Output	1Vp-p, 75ohms Composite
Horizontal Sync Frequency	15.73kHz (NTSC)
Vertical Sync Freq.	60Hz (NTSC)
LENS	
Focal Length	4.3 mm
Iris	Fixed: F2.0 (4T)

POWER			
Unit Power	**Input**	Voltage	12 VDC Barrel Plug or Power Over Ethernet (PoE injector not included)
		Power Requirement	12 W Maximum
		Power Supply Weight	0.6 lbs.
	Output	Voltage	12 VDC via 2-pin Phoenix Connector (mating connector not included)
		Current	450 mA Maximum

MECHANICAL		
Housing	**Construction**	Aluminum Box
	Finish	Powder Coated Black
	Weight	Housing and Cable - 2.6 lbs. Housing - 1.2 lbs.
Camera Cable Length		20 Meters (66 feet)
Housing Dimensions		Width - 2.74 inches (69.59mm)
		Length - 3.6 inches (91.44mm)
		Height - 1.29 inches (32.76mm)
ENVIRONMENTAL		
Temperature		Operating 5°-50°C (41°-122°F)
Humidity		20-80% RH (non-condensing)
Enclosure Protection		Rated for Indoor Use
CABLE CONNECTIONS		
Input		RJ45 Connector
		12 VDC Barrel Plug
Output		2-pin Connector

Cable Connections

End View A
Output

End View B
Input

Dimensional Outline

Top View
Width Dimension

Side View
Length and Height Dimensions

1.29

2.74

3.7

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