

COMCAM

SERIES 10 PRO LENS IP DIGITAL VIDEO CAMERA



COMCAM-10/PL
Professional 'C' or 'CS' lens model
IP Camera

COMCAM-10PL Specification

The ComCam-10 series, incorporates the most advanced video capture, compression, analysis and transmission capabilities in the market today. ComCam-10 technology works in all wired and wireless networks, including the Internet and company intranets. The ComCam-10 system adheres to licensed standards (e.g., cell phone) and unlicensed standards (e.g., the IEEE 802.11b Wireless standard and Bluetooth).

The ComCam-10 system allows the user to capture and store live video feeds locally on a hard drive inside the camera for later transmission and to send the video immediately to a receiver for playback or storage and to do so over any network, including previously inaccessible wireless networks. The high level of integration achieved by ComCam-10 technology provides for efficient capture and transmission of video with only minimal power consumption required, even as little as generated from solar panels.

Functions:

Two serial ports (RS232/485), seven I/O lines for controls and sensing applications, internal hard drive support up to maximum available IDE capacity. COMCAM-10 products have a 10 Base-T port and support PCMCIA type wireless network cards including 802.11, cell phone internal/external telco modems.

ComCam products come bundled with a PC application called C3 (for ComCam Control Center). C3 is a powerful viewer/recorder scripting engine useful for many different applications. The products are supported by browser plug-ins and a Software Development Kit (SDK) with application interfaces for complete control of application development.

C3 Software Features:

Viewing

- 1-36 live camera control
- Customizable video overlays

- User-adjustable frame quality
- Motion sensing
- View On-camera files
- Local file storage
- Port Mapping

Recording

- Event-based alarm
- Lapse Recording
- Calendar-based playback

Scripting (JavaScript)

- Event-based scripting
- Time-based scripting
- Smart Domes (SONY Philips, Pelco, etc.)
- Measuring Equipment

Security Features

- Access Control
- Encryption

Available SDK

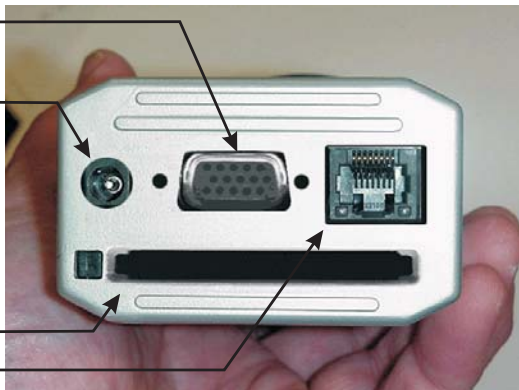
- C++ Library
- ActiveX (Browser friendly)

RS232/485 (2)
VIDEO OUT, I/O lines

Power Supply

PCMCIA Type 2

10 Base-T Ethernet



Back Panel

C3 VIEWER



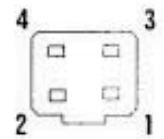
Performance	
Image Element	1/3" (6mm) CCD
Sensitivity	<1 lux
Shutter speed	1/60-1/10,000
Resolution	400 TV lines
Dimensions	
Dimensions	142mm x 45mm x 75mm (5.6" x 1.8" x 7.5")
Camera case	Extruded Aluminum
Material	300g (13.5oz)
Weight	Video based User programmable size and sensitivity
Motion detection	
Compression	Wavelet - 4:1 (visually loss-less) to 750:13K-20K Typical Frame
Protocols	TCP/IP, PPP, FTP, UDP
Microprocessor	PowerPC/DSP
16Mb RAM	Pre/post video storage
4Mb FLASH	Server, OS, user preferences
Optional Storage	Flash memory to 1G, internal hard drive to 4GB, external hard drive to IDE max.
Real time clock	1 sec resolution, internal battery backup
I/O	3 optically isolated inputs, 3 fault protected current sink Outputs
Indicator LED's (2)	Link, Data
Camera mount	1/4 threaded holes top and bottom
Power Supply	8-28VDC (12VDC nominal) with surge and reverse-voltage Protection
Current consumption	800mA operational (@12VDC), 135uA standby mode
Environmental	0°-55°C (32°-131°F), 0-85% RH non-condensing

Sensor Specifications	
Sensor:	SONY ICX258AK (NTSC) SONY ICX259AK (PAL)
NTSC Features:	High S/N High Resolution and low dark current Excellent anti-blooming characteristics
Device Structure:	Interline CCD image sensor
Image size:	Diagonal 6mm (type 1/3)
Effective pixels:	768(H) x 494 (V) approx. 380K pixels
Total pixels:	811(H) x 508 (V) approx. 410K pixels
Chip size:	6.00mm (H) x 4.96mm (V)
PAL Features:	High S/N High Resolution and low dark current
Device Structure:	Interline CCD image sensor
Image size:	Diagonal 6mm (type 1/3)
Effective pixels:	752(H) x 582 (V) approx. 440K pixels
Total pixels:	795(H) x 596 (V) approx. 470K pixels
Chip size:	6.00mm (H) x 4.96mm (V)
Example Lens Specification:	Computar T6Z5710MSP-CS
Focal Length	5.7~34.2 mm
Effective Lens Aperture	Φ 41.0 mm front Φ 10.2 mm rear
Max. Aperture Ratio	1:10
Back Focal Length	8.5 mm
Max. Image Format	4.8x3.6 mm (Φ6 mm)
Flange Back Length	12.5 mm
Operation Iris	Motorized, F1.0~360C
Focus	Motorized, Preset, 1.2m~Inf.
Zoom	Motorized, Preset, 5.7~34.2mm
Mount	CS mount
Filter size	M49 P=0.75mm
Tripod screw	1/4"-20UNC
Object Dimension	5.7mm 101.6 x 75.2 cm 34.2mm 17.0 x 13.0 cm
at M.O.D.	
(minimum object distance)	
Dimensions	68.5 x 76.3 x 82.5 mm
Weight	470g
Angle of View	D 56.5°~10.0° H 1/3" 45.9°~8.1° V 34.8°~6.2°

Control			
Supply Voltage	Iris	Focus	Zoom
Current	DC 8v ≤25ma	DC 8v ≤25ma	DC 8v ≤25ma
Transit Time	Iris	Focus	Zoom
	Approx. 2 sec.	Approx 3.5 sec.	Approx. 4 sec.
Preset Potentiometer	Iris	Focus	Zoom
	-	5KΩVR	5KΩVR
Operating Temperature	-10°C~+50°C		
I/O interface specifications:			
digital inputs:	5-30v DC		
Outputs:	30VDC max 500ma max per channel.		

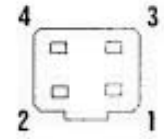
Zoom/Focus Connector

- 1 Zoom+
- 2 Zoom-
- 3 Focus+
- 4 Focus-



Auto Iris Connector

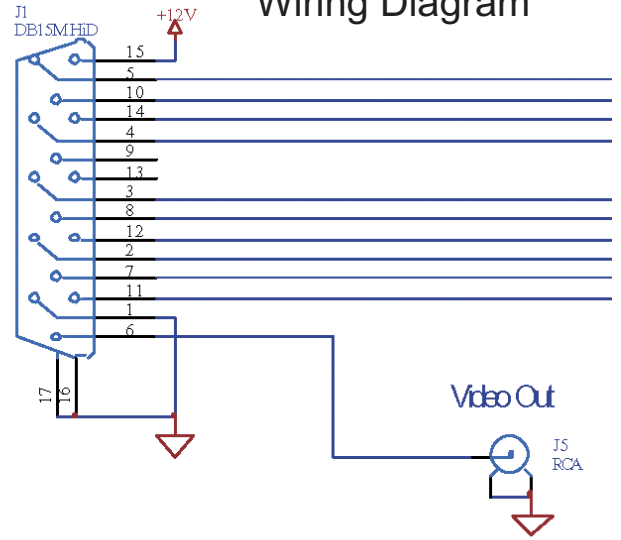
- 1 Drive+
- 2 Drive-
- 3 Damp-
- 4 Damp+



COMCAM-10

- 15 - +12V
- 5 - IN1
- 10 - IN2
- 14 - IN3
- 4 - OUT1
- 9 - OUT2
- 13 - OUT3
- 3 - Serial 1 Tx
- 8 - Serial 1 Rx
- 12 - Serial 2 Tx
- 2 - Serial 2 RTS
- 7 - Serial 2 Rx
- 11 - Serial 2 CTS
- 1 - GND
- 6 - Video out

I/O Breakout Board Wiring Diagram



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