

# Digital Imaging

## OLYMPUS C5060 WIDE ZOOM DIGITAL CAMERA



- 5.10 megapixel CCD
- Integral 1.8" TFT colour LCD
- F2.8 to F4.8 lens
- 4 x optical zoom, adjustable 1 to 3.5x digital zoom
- Saves to xD-Picture Card, CompactFlash card type I/II and MicroDrive
- Still images in TIFF or JPEG format

## FIBERSCOPE AND BORESCOPE ADAPTORS FOR OLYMPUS DIGITAL CAMERAS



- Compatible with Olympus C-2000Zoom, C-2020Zoom, C-3030Zoom, C-3040Zoom, C-4000Z and C-5050Zoom cameras
- AI-DC3 Fiberscope adaptor compatible with IF4D5/S5 • IF5D4X1 • IF6C5X1 • IF8C5 • IF11C5
- AK-DC3 Borescope adaptor compatible with Series 5 Borescopes, Mini Borescopes and the following Fiberscopes IF6PD4 • IF2D5 • IF8D4X2/X3
- AI-DC4 Fiberscope adaptor and AK-DC4 Borescope adaptor are compatible for use with the C-5060 Camedia Digital Camera only

ADAPTOR TYPE	DIGITAL CAMERAS	FIBERSCOPIES	BORESCOPIES
AI-DC3	C-2000, C-3000, C-4000 Series and C-5050 Camedia Digital Cameras	IF4D5/S5, IF5D4X1, IF6C5X1, IF8C5, IF11C5	
AK-DC3	C-2000, C-3000, C-4000 Series and C-5050 Camedia Digital Cameras	IF6PD4, IF2D5, IF8D4X2/X3	Series 5 Borescopes Mini Borescopes
AI-DC4	C-5060 Camedia Digital Camera Only	IF4D5/S5, IF5D4X1, IF6C5X1, IF8C5, IF11C5	
AK-DC4	C-5060 Camedia Digital Camera Only	IF6PD4, IF2D5, IF8D4X2/X3	Series 5 Borescopes Mini Borescopes



### SMARTMEDIA CARD

- Used in Olympus Digital Cameras
- PCMCIA card available for laptop PC compatibility
- Floppy disc adaptor available for desktop PC compatibility
- 16MB, 32MB, 64MB, 128MB SmartMedia Cards available



### COMPACTFLASH CARD

- Used in Olympus IPLEX
- Up to 1GB available
- PCMCIA card available for laptop PC compatibility
- Jump shot cable available for desktop PC compatibility



### MEMORY STICK

- 128MB card available
- PCMCIA card available for laptop PC compatibility
- Floppy disk adaptor available for desktop PC compatibility



### USB MULTI-CARD READER

- USB 2.0 multi-slot reader
- 40 x faster than USB 1.1
- No software required
- Transfer rates up to 480MB per second
- Enables transfer of images to and from a PC

- Enables transfer of images from one card to another
- Compatible in both USB 1.1 and 2.0 systems
- Supports CompactFlash Cards (Type I and II), SmartMedia, Secure Digital (SD), MultiMedia Cards, Memory Sticks and IBM Microdrive



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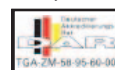
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## OLYMPUS INDUSTRIAL

Olympus Corporation



ISO 9001 Registered  
Certificate No. 72288  
Quality Management  
System



ISO 14001 Registered  
Certificate No. 01 104 9203  
Environmental Management  
System

KeyMed Limited



ISO 9001 Registered  
Certificate No. FM 20993  
Quality Management  
System



ISO 14001 Registered  
Certificate No. EMS 55964  
Environmental Management  
System

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Your Vision, Our Future

## CCTV & Digital Imaging Products



Video technology is now an integral part of the RVI system in many industrial applications, enabling high quality visual images to be displayed on a monitor screen. This reduces operator fatigue during the inspection process and can be used to assist training or for documentation of inspection results.

### CAMERAS

Olympus Industrial offers a range of high resolution colour or monochromatic video cameras which use state-of-the-art signal processing technology.

### ADAPTORS

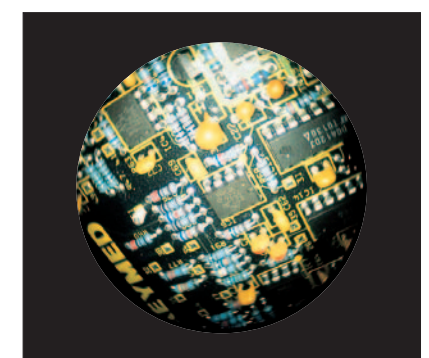
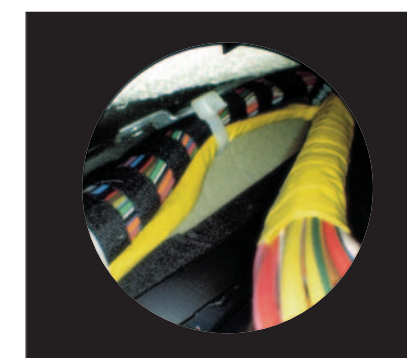
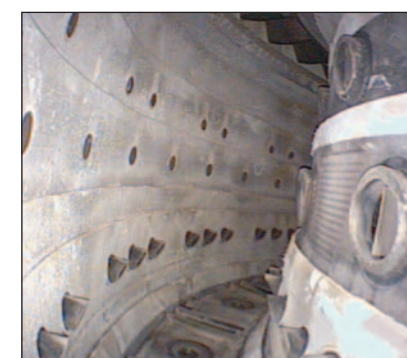
The cameras available from Olympus Industrial have a standard C-mount lens fitting, making them both versatile and ideal for endoscopic use. The scope adaptor and camera's CCD size determine the image magnification, which should be selected to suit the application and amount of light available. Where illumination of the inspection area is limited, a smaller image will provide a brighter, clearer view on the monitor. The table overleaf shows the recommended Olympus adaptors for use with 1/2" CCD cameras and specific endoscopes.

### MONITORS

As well as a wide range of colour and monochromatic monitors with screen sizes up to 14", Olympus Industrial can offer a high-resolution, lightweight, portable 6" LCD screen. As a general rule, the viewing distance should be three to five times the screen size.

### IMAGE RECORDING

A range of high quality digital imaging recorders, VCRs and videoprinters suited to endoscopic applications are available from Olympus Industrial, including the *i-SAVE* - an LCD monitor with integral image capture and removable storage medium.





## CCTV PRODUCTS

### DIGITAL CCTV CAMERAS

Description	Colour/Mono	CCD Size	Resolution	Dimensions WxHxD	Power Supply	TV Type	Connections
Watec WAT-232	Colour/Mono	1/3"	480 TVL	44 x 43.5 x 68 CH mm	12V DC, 180mA	PAL	BNC & Y/C
Watec WAT-231S	Colour	1/3"	450 TVL	43 x 44 x 64 CH mm	12V DC, 180mA	PAL	BNC & Y/C
Sony XC-555	Colour	1/2"	470 TVL	22 x 22 x 75 CH mm	10.5V - 15V DC	PAL	BNC
Watec WAT-902H	Mono	1/2"	570 TVL	34 x 36 x 58 CH mm	12V DC, 180mA	PAL	BNC

### CCTV MONITORS

Description	Colour/Mono	CCD Size	Resolution	Dimensions WxHxD	Power Supply	TV Type	Connections
Sony PVM-9L3	Colour/CRT	9"	450 Lines H	217 x 218 x 373 mm	100-240V 50/60Hz	PAL & NTSC	BNC & Y/C
JVC - TM-A101G	Colour/CRT	10"	300 Lines H	222 x 220 x 316 mm	120-230V AC 50/60Hz	PAL & NTSC	BNC
JVC - TM-1010PN	Colour/CRT	10"	300 Lines H	222 x 237 x 317 mm	230V AC 50/60Hz 12V DC	PAL & NTSC	BNC & Y/C
Transvideo LCM106 HR	Colour/LCD	6"	756 Lines H	178 x 129 x 56 mm	10.5-15V DC 50/60Hz	PAL & NTSC	BNC & Y/C
Sony SSM-14L1	Colour/CRT	14"	600 Lines H	346 x 340 x 414 mm	100-240V AC 50/60Hz	PAL & NTSC	BNC & Y/C

### VIDEO RECORDERS

Description	Format/Type	Weight	Resolution (approx)	Dimensions WxHxD	Power Supply	TV Type	Connections
Sony SVO-9500MDP	VHS/SVHS	12Kg	400 Lines S-VHS 240 Lines VHS	270 x 144 x 370 mm	220-240V AC 50/60Hz	PAL	BNC & Y/C

### VIDEO RECORDERS WITH LCD DISPLAY

Description	Format/Type	Weight	Resolution (approx)	Dimensions WxHxD	Power Supply	TV Type	Connections
Sony GV-D800E	Digital 8	900Kg	4" LCD 123,000 pixels	148 x 65 x 135 mm	100-240V AC 50/60Hz 8.4V DC	PAL	Phono & Y/C
Sony GV-D1000E	Mini DV	880g	4" LCD 123,000 pixels	148 x 65 x 133 mm	100-240V AC 50/60Hz 8.4V DC	PAL	Phono & Y/C

### VIDEO PRINTERS

Description	Weight	Resolution (approx)	Dimensions WxHxD	Power Supply	TV Type	Connections	Paper (pack of 20)
Sony UP-21MD	6.5Kg	403dpi	212 x 125 x 395 mm	100-120V AC 50/60Hz 220-240V AC 50/60Hz	PAL/NTSC	BNC & Y/C	UPC-21L

### DIGITAL IMAGE RECORDERS

Description	Weight	Resolution (approx)	Dimensions WxHxD	Power Supply	Connections Video in/out	Recording Media	Display	Store	Image Capacity
Olympus i-SAVE	1.7kg	640 x 480 Still 320 x 240 MJPEG	165 x 60 x 280 mm	90-264V AC, 47-63Hz	S-Video/BNC Feature Connector	Compact Flash	Integral 6.5" LCD Screen	JPEG MJPEG	200 still images or 60 secs movie on 64Mb CF card
Olympus IW-R1	1.7kg	640 x 480	178 x 49 x 296 mm	12V PSU requires Pt No. 7500332	S-Video/BNC	Smart Media	Separate Display	JPEG	max 99 images on 8Mb Smart Media

## SELECTING THE CORRECT ADAPTOR

When using CCTV systems with fiberscopes and borescopes it is necessary to select the eyepiece adaptor to suit on the instrument and the magnification required.

TABLE 1 lists the adaptor options for each instrument, and TABLE 2 gives the image size which will be seen when using a 1/2" CCD camera. For other cameras multiply by the figures as shown below.



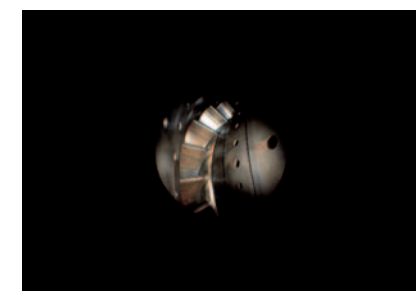
1/6"	1/4"	1/3"	1/2"	2/3"
3	2	1.5	1	0.75

TABLE 1 - ADAPTOR SELECTION

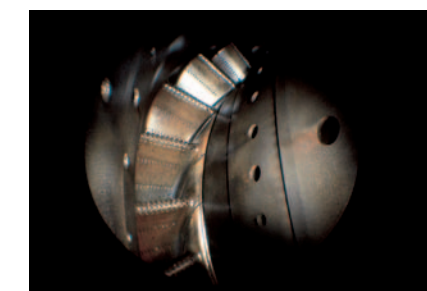
INSTRUMENT	ADAPTORS
4, 6, 8 and 11mm diameter Mk 4 and Mk 5 fiberscopes	AI-10C
	AI-11C AI-3C
	AI-12C
Borescopes, 0.6 and 2mm fiberscopes	AK2-3C AK2-10C
	AK2-4C AK2-20C
	AK2-5C MCR-44
Mk 3 fiberscopes	MC-05 MC-10
	MC-08

TABLE 2 - IMAGE SIZE AS % OF SCREEN HEIGHT

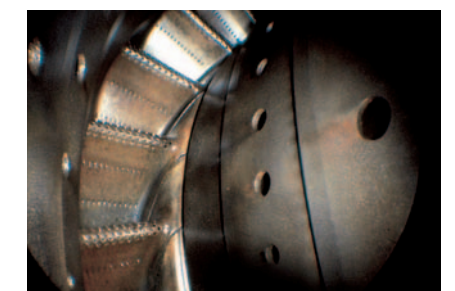
Camera Adaptor Fiberscopes	AI-10C	AI-11C	AI-12C	AI-3C	MC-05	MC-08	MC-10	AK2-3C	AK2-4C	AK2-5C	AK2-10C	AK2-20C	MCR-44
IF2D5								17	23	30	40	50	60
IF4D5/S5	30	35	55	70									
IF6C5	45	60	90	120									
IF8C5	56	70	110	140									
IF11C5	60	80	120	150									
IF6PD4								6	8	10	15	20	25
IF6S3-20GE					60	100	120						
IF7D3X3					60	100	120						
IF8D3X1-20					70	110	140						
IF8D3X2-23					60	100	130						
IF13D3-60					110	180	220						
IF8D4X1-20	48	60	90	120	80	130	160						
IF8D4X2-10	32	40	60	80									
<b>Rigid Borescopes Series 5</b>													
4mm								33	44	58	78	104	125
6mm								41	54	72	96	130	160
8/10/12mm								48	64	85	110	145	185
16mm								74	98	130	175	235	275
<b>Aeroengine Scopes</b>													
5.5mm								29	38	50	75	110	140
8/10/12mm								40	53	70	100	130	170
<b>Mini-borescopes</b>													
1.2mm								17	23	30	50	70	90
1.7/2.7mm								20	26	35	40	50	65



30% Screen Height



100% Screen Height



150% Screen Height

**Note:** Olympus reserves the right to change the above specification without notice.