

Optical Adapter Specifications

Scope	Optical Adapter	Optical System				Distal End		
		Field of view	Direction of view	Depth of field	F No.	Outer diameter	Rigid distal end length*	
IV74	AT40D-IV74	40°	Forward	200-∞mm	2.4	ø4.4mm	19.7mm	
	AT80D/NF-IV74	80°		8-∞mm	9.5		20.2mm	
	AT80D/FF-IV74	80°		35-∞mm	3.1		20.1mm	
	AT120D/NF-IV74	120°		4-190mm	9.2		20.2mm	
	AT120D/FF-IV74	120°		25-∞mm	3.3		20.1mm	
	AT80S-IV74	80°	Side	25-∞mm	3.7		23.1mm	
	AT120S/NF-IV74	120°		1-20mm	9.6		23.1mm	
	AT120S/FF-IV74	120°		6-∞mm	6.0		23.1mm	
	AT40D-IV76	40°		200-∞mm	2.4		19.3mm	
	AT80D/NF-IV76	80°		8-∞mm	9.5		19.8mm	
IV76	AT80D/FF-IV76	80°	Forward	35-∞mm	3.1	ø6.0mm	19.7mm	
	AT120D/NF-IV76	120°		4-190mm	9.2		19.8mm	
	AT120D/FF-IV76	120°		25-∞mm	3.3		19.7mm	
	AT80S-IV76	80°		18-∞mm	4.0		25.2mm	
	AT120S/NF-IV76	120°		1-25mm	9.6		25.2mm	
	AT120S/FF-IV76	120°	Side	5-∞mm	5.9		25.2mm	
	AT100D/100S-IV76	100°/100°		2-∞mm	7.0		27.2mm	
	AT220D-IV76	220°		2-∞mm	4.3		ø8.4mm	21.1mm

* The rigid portion at the scope's distal end when the adapter is mounted

Stereo Measurement Optical Adapter Set Specifications

Scope	Set Name	Optical Adapter	Optical System				Distal End	
			Field of view	Direction of view	Depth of field	F No.	Outer diameter	Rigid distal end length
IV74	MAJ-1044D	AT60D/60D-IV74	60°	Forward	5-∞mm	7.5	ø4.4mm	25.9mm
	MAJ-1044S	AT50S/50S-IV74	50°	Side	4-∞mm			
IV76	MAJ-1046D	AT60D/60D-IV76	60°	Forward	5-∞mm	7.5	ø6.0mm	26.3mm
	MAJ-1046S	AT60S/60S-IV76	60°	Side	4-∞mm			

Operating Environment

Operating temperatures	Insertion tube	In air: -25 - 80°C Caution: Angulation to a large angle may become difficult under low temperatures. Under water: 10 - 30°C
	Other parts than above	In air: 0 - 40°C
Operating atmospheric pressure	Insertion tube	With IV7635, 7670, 7675 & 7696: In air: 1013 hPa (1 atm) In water: 1013 - 1985 hPa (1 - 1.96 atm) With IV7435: In air: 1013 hPa (1 atm) Under water: 1013 - 1368 hPa (1 to 1.35 atm)
	Other parts than above	In air: 1013 hPa (1 atm)
Liquid resistance	Insertion tube, remote control	No trouble even when machine oil, light oil or 5% saline is attached.
	Other parts than above	No trouble with the case outer finishing even when machine oil, light oil or 5% saline is attached.
Water proofing	Insertion tube	Waterproof. Can be used under water.
	Remote control, LCD monitor Other parts than above	Drip-proof. Can be used in rain but cannot be used under water. Neither waterproof nor drip-proof.

IPLEX External View



"Try IPLEX Now"



Experience the high performance of IPLEX at the IPLEX website or get the CD-ROM. The IPLEX website is designed to provide a virtual experience of the IPLEX in action, so you can see for yourself just how advanced this revolutionary new system really is. A CD-ROM version is also available.

<http://www.olympus-industrial.com>

ACCESSORIES



Optical Adapter

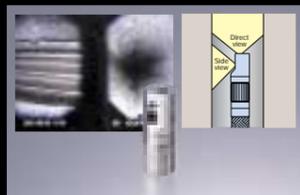
You can change the field of view, direction of view, and depth of field by switching the optical adapter on the scope tip.



Stereo Optical Adapter

MAJ-1044D (for ø4-mm dia. insertion tube, forward-viewing)
MAJ-1044S (for ø4-mm dia. insertion tube, side-viewing)
MAJ-1046D (for ø6-mm dia. insertion tube, forward-viewing)
MAJ-1046S (for ø6-mm dia. insertion tube, side-viewing)

The two objective lenses make possible stereo measurement. When used in combination with the 3D Eye-Trek, three-dimensional observation is possible.



Forward/Side-Viewing Adapter

AT100D/100S-IV76

This single optical adapter offers enhanced inspection efficiency with both forward-viewing and side-viewing capabilities.



Ultra-Wide-Angle Adapter

AT220D-IV76

Provides 220° wide-angle images for wide-range inspection. Even makes it possible to confirm the back of an inspection object — something that is impossible with conventional adapters.



3D Eye-Trek

FMD-3DN (NTSC)
FMD-3DP (PAL)

Allows you to confirm the conditions of an inspection site with super-real three-dimensional images. 3D Eye-Trek makes it easier to get an accurate sense of distance, also facilitating insertion of the scope and access to the site.



Accessory Bag

MAJ-1120

Provides convenient, compact storage for the optional 3D Eye-Trek and other accessories. Can also be attached to the IPLEX main unit.



Remote Control Extension Cable

MAJ-1091 Length: 4 m

Extends the remote control cable, allowing more freedom of movement during operation. Attaching this cable and removing the monitor from the monopod allows you to operate the main unit while moving freely around a wider area. Note: The remote control shown in the photo does not come with this cable.



Rigid Sleeve

MAJ-1104 (for ø4-mm dia. insertion tube)
Outer Diameter: ø5.9 mm Length: 340 mm/450 mm
MAJ-1105 (for ø6-mm dia. insertion tube)
Outer Diameter: ø7.5 mm Length: 340 mm/450 mm
Useful as an auxiliary insertion tool and also makes the scope easier to handle. Simply fit and lock the sleeve onto the tip of the insertion tube.



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OLYMPUS INDUSTRIAL

IPLEX

INDUSTRIAL VIDEOSCOPE SYSTEM

NEW



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Intelligent Imaging

Something that could only have been made possible by Olympus's unwavering commitment to ease of use and uncompromised performance, this highly efficient industrial inspection system offers precision performance, enhanced versatility, and improved operability in an integrated all-in-one design.



Incorporating our most advanced opto-digital technology, the IPLEX industrial videoscope system takes inspection to a new level of capability and versatility

Nothing is more fundamental to the performance of an industrial videoscope than its ability to capture and reproduce images as accurately as possible. That's why Olympus incorporated its most advanced opto-digital technology in the new IPLEX industrial videoscope system. But we didn't stop there. By combining that advanced opto-digital technology with sophisticated precision technology, we were able to assemble micron-scale components on a scope with a diameter of just a few millimeters. Then we put it all together in an integrated, ergonomic design that makes the IPLEX easy to use and handle. The result: a powerful new inspection system in a single, all-in-one package that's ideal for every inspection site, from aircraft to industrial machinery.



■ IPLEX Equipment Components and Functions

■ IPLEX Detailed Specifications

		IPLEX SA ¹	IPLEX SA	IPLEX ²	
Scope Variation					
Outer diameter	Insertion tube length	Product code			Insertion tube length refers to the length from the distal end to the main unit case when the insertion tube is fully pulled out.
ø4.4mm	3.5m	IV7435A	IV7435A	IV7435	
	3.5m	IV7635A	IV7635A	IV7635	
ø6.0mm	5.0m	IV7650A	IV7650A	IV7650	
	7.5m	IV7675A	IV7675A	IV7675	
	9.6m	IV7696A	IV7696A	IV7696	
Basic Functions					
Interchangeable optical adapter ³	-	-	-	-	For the specifications, see "Optical Adapter Specifications."
4-way motorized angulation (with fine-tuning mode)	-	-	-	-	Angulation range (up-down/right-left): IV76 Series — 150°, IV74 Series — 120°
Tough Tapered Flex insertion tube	-	-	-	-	Tube design that becomes more pliable towards the distal end with crush resistance more than 3 times as high as that of a conventional model
Scope length index line	-	-	-	-	Marked at every 500 mm
LCD monitor	-	-	-	-	5.6" TFT full-color, detachable from main unit
LCD fixing device (monopod)	-	-	-	-	Two-step expandable, maximum height 964 mm
Remote controller	-	-	-	-	LCD monitor/provided with 3D Eye-Trek connector
50-W metal-halide light source	-	-	-	-	Lamp life: 300 hours
Integrated shock-resistant case	-	-	-	-	Dimensions: 508 (W) x 290 (D) x 528 (H) mm Weight: 22 kg (with IV7635A)
Rod handle & casters	-	-	-	-	
Vertical and horizontal operation	-	-	-	-	
Insertion tube winding drum	-	-	-	-	
AC power supply	-	-	-	-	Voltage: 100 to 120 V/220 to 240 V Max power consumption: 250 VA Frequency: 50/60/400 Hz
DC power supply	-	-	-	-	Voltage: 10.5 to 32 V Max power consumption: 288 W
CCU Functions					
Freeze	-	-	-	-	Selectable between freeze and field, 4-frame memory possible (IPLEX model only)
Seamless digital zoom	-	-	-	-	Max 3X
Panning	-	-	-	-	
Exposure	-	-	-	-	17 to 500 msec (NTSC) 20 to 500 msec (PAL)
Brightness adjustment	-	-	-	-	7 steps
Gain	-	-	-	-	Selectable from Standard, Boost and Low
Enhancement	-	-	-	-	3 steps
Comparison	-	-	-	-	Live image and retrieve image are displayed on half-split screen
Menu language selection	-	-	-	-	NTSC: Japanese or English PAL: English, German or French
Video signal output	-	-	-	-	Composite video output terminal (BNC): 1 (75 Ω) S-video terminal: 1 (75 Ω)
Video signal input	-	-	-	-	S-video terminal: 1
Audio signal output	-	-	-	-	Monaural x 1 (RCA Pin)
Recording Management Functions					
Still image recording/playback	-	-	-	-	File format: When stereo adapter is selected — Uncompressed TIFF, When other adapter is selected — JPEG (standard quality or high quality) File size: Uncompressed TIFF — 640 KB, Standard quality JPEG — 100 KB, High-quality JPEG — 200 KB, Resolution: NTSC — 640 x 480 pixels, PAL — 768 x 576 pixels
Audio recording/playback	-	-	-	-	Recording time: Max 60 sec File format: WAV
Movie recording/playback	-	-	-	-	Recording time: Variable depending on recording card capacity File format: QuickTime M-JPEG Resolution: NTSC — 320 x 240 pixels, PAL — 384 x 288 pixels
Removable medium	-	-	-	-	32 MB recording card provided as standard
Thumbnail display	-	-	-	-	9-frame display
Image file operation	-	-	-	-	Copy, move, delete Manageable by folder
Search function	-	-	-	-	Date search
Image title entry	-	-	-	-	Up to 15 alphanumeric characters and symbols can be entered.
USB terminal	-	-	-	-	USB version 1.0
IPLEX MANAGER software	-	-	-	-	For Windows 95, NT, 98, 2000 ⁴
Direct recording to PC	-	-	-	-	Still image and still image with audio. Movie cannot be transferred.
Recorded data transferring to PC	-	-	-	-	
Remote operation by PC	-	-	-	-	
Measurement Functions					
Scaler measurement	-	-	-	-	Measures the distance between points. The calculation is based on the known length in the same inspection image.
Stereo measurement (Distance)	-	-	-	-	Measures the distance between the two plotted points.
Stereo measurement (Point-to-Line)	-	-	-	-	Measures the distance between a hypothetical line between two designated positions and the required point.
Stereo measurement (Depth)	-	-	-	-	Measures the depth/height from a hypothetical plane inside three designated positions to the required point.
Stereo measurement (Area/Lines)	-	-	-	-	Calculates the area surrounded by multiple designated positions and plots multiple positions for measurement of curved surfaces.
Stereo measurement (Profile)	-	-	-	-	The cross section of two designated points is represented with computer graphics.
Other Functions					
3D observation	Option	Option	Option	Option	Stereo optical adapter and 3D Eye-Trek are required.

¹ Comprised of the IPLEX SA main unit and stereo measurement set.

² The IPLEX can be upgraded to the IPLEX SA after purchase.

³ The distal end optical adapter is optional.

⁴ Some functions are not available with Windows 95 or NT.



Inspection, Recording, And Measurement

Every stage in the workflow is integrated in the IPLEX

In addition to providing the portability, quick setup, and accurate inspection that are crucial to an industrial videoscope system, the IPLEX offers enhanced recording and storage capabilities, as well as PC operation. Models are available in three combinations designed to address the specific requirements of various inspection sites and applications, including measurement requirements.

- IPLEX SA** (stereo measurement model)
- IPLEX SA** (standard model)
- IPLEX** (limited function model)

Detachable 5.6" high-resolution LCD monitor

ø4.4-mm insertion tube (world's slimmest*)
 ø6.0-mm insertion tube

Compact, lightweight, multi-function remote control

Recording card slot

Video output terminal

USB connector

S-video input/output terminal

Multi-function CCU

Shock-resistant case

50-W metal-halide lamp

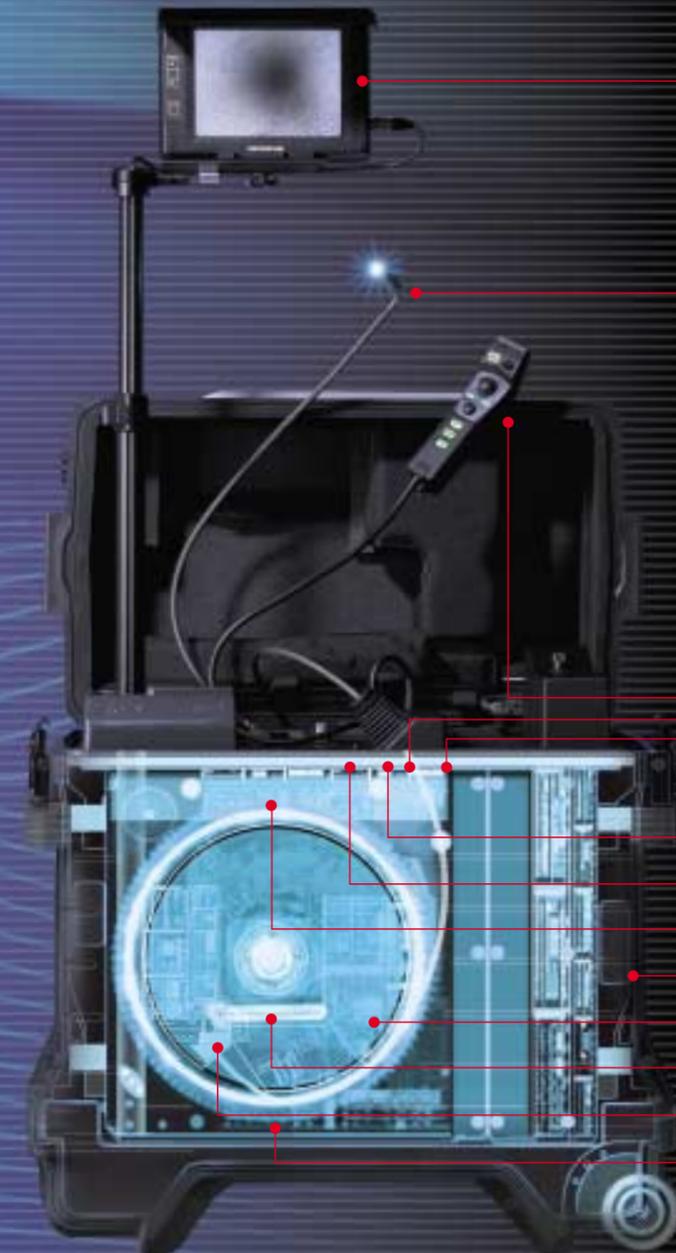
Insertion tube winding handle

Angulation driving motor

Insertion tube winding drum

Carriage caster

* Among industrial videoscopes, as of October 2001
 Note: Internal structures are illustrated in the form of an x-ray and are approximate only. Actual products may differ.



Reality-Oriented 3D Images You Can Almost Touch

3D imaging increases accuracy and reduces observation time

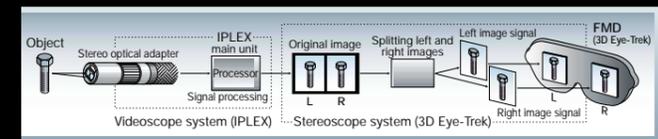
With 3D imaging, you're no longer restricted to observing a flat two-dimensional representation of the inspection area. Instead, you'll be right there, as if you yourself were at the tip of the insertion tube. Olympus's innovative 3D Eye-Trek makes possible at-a-glance confirmation of the surface conditions of damaged sections such as burns and scorches. It also makes it easier to determine whether a surface is convex or concave, rusty or dirty, and so on. And because 3D images make it easier to get a sense of distance, you'll find that scope insertion and access to the inspection site goes much more smoothly. Integrating Olympus's optical technology, stereo measurement technology, and digital technology, the 3D Eye-Trek lets you take a virtual tour of the interior of any inspection site.

Switchable 2D and 3D

The 3D Eye-Trek control unit can be switched easily between the 2D and 3D modes as required — for example, when 3D observation isn't necessary or when you have to operate the menu in stereo measurement.



■ Schematic diagram of the 3D imaging system with the 3D Eye-Trek FMD



Note: When using the 3D Eye-Trek in stereo measurement, you have to switch to the 2D mode to perform menu operations.

3D Real View Innovation

A Whole New Way Of Observing Inspection Images



It's time to change the way you look at inspection images. Now, instead of looking at flat two-dimensional images on your monitor screen, you can put yourself right inside the inspection object. Examine interiors from every angle and explore surface textures for defects that might be impossible to detect in a two-dimensional image. With the optional 3D Eye-Trek face-mounted display, you can utilize the power of 3D imaging to accurately observe and bring a new level of confidence to your work.



Easy To Pack, Easy To Carry, And Easy To Set Up, The IPLEX Gives You Real Flexibility

Designed with the user in mind, the IPLEX's integrated design is highly durable and based on ergonomic considerations aimed at making the use of all components as efficient as possible. Plus, all the functions you need for inspection are built right into the IPLEX so you won't need to load yourself down with accessories and additional equipment. The result is superior portability, easy setup, and maximum versatility.

Setup is a snap

All components are laid out in accordance with standard operating procedures. So all you need to do is adjust the monitor position, switch on the power, and hold the remote control. Everything else is exactly where you need it to be.



1. Adjusting the monitor position

Raise the integral monopod with the LCD monitor already attached, and adjust the position for comfortable viewing.



2. Connecting to the power supply

Pull out the power cable stored in the main unit, and plug it into the AC power outlet.



3. Holding the remote control

The compact, lightweight remote control fits snugly in the palm of your hand. It is also provided with a mount for the insertion tube so you can hold the remote control and insertion tube simultaneously.



4. Pulling out the insertion tube

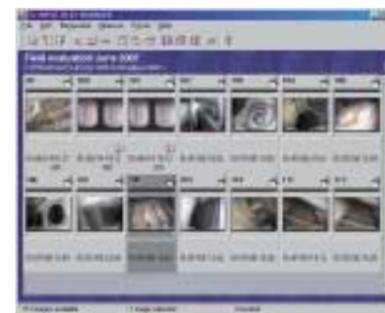
The insertion tube is wound around a built-in drum so it can be pulled out smoothly. And as soon as you pull it out, the built-in illumination system is automatically activated, further simplifying setup.

Detachable 5.6-inch LCD monitor

Designed to minimize the fatigue that can result from extended inspection, this large 5.6-inch high-resolution LCD monitor provides bright, easy-to-view images and is mounted on a monopod attached to the main unit that can be easily adjusted for comfortable observation. If you need to, you can also detach the monitor from the monopod for even more flexible viewing. The detached monitor can then be connected to the remote control using the supplied extension cable, allowing continued inspection without moving the main unit. A hood is also provided to block glare and reflections.



Installing the IPLEX MANAGER software in a PC lets you take advantage of a wide range of enhanced functions including desktop measurement of recorded images, as well as editing, management, and e-mailing of images. Combined use of the IPLEX and PC right at the inspection site is also possible. No matter what your requirements, IPLEX's enhanced PC connectivity will contribute to much greater task efficiency.



Zoom function and annotation function

Any required part of an image can be zoomed in for close-up observation. Images can also be annotated with arrows, circles, and ellipses, as well as comments.



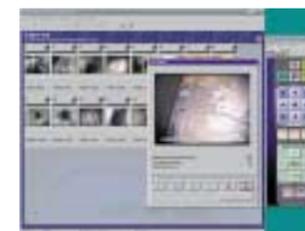
Image recording directly on a PC

By setting the recording destination to PC, you can record still images and still images with voice annotation directly on a PC. A convenient USB interface ensures quick, easy transfer of still images directly to the PC without requiring a separate recording medium.



Remote operation from a PC

An IPLEX control window on the screen of a PC connected to the IPLEX via a USB cable lets you operate the IPLEX at the click of a mouse. In addition to angulation, all IPLEX functions including image recording and title entry can be operated from the connected PC.



Stereo measurement on a PC screen

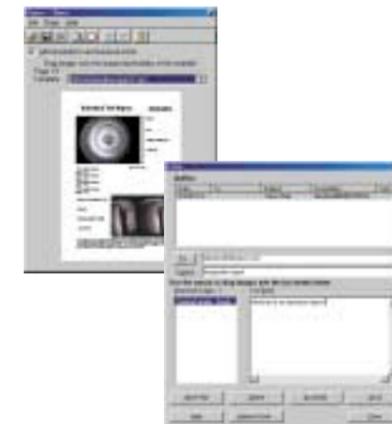
If you download the stereo measurement image data to your PC, you can execute any of the six stereo measurement functions right on your screen. This gives you more operational flexibility by allowing you to concentrate on capturing images at the inspection site, saving measurement and analysis for later on in your office.

Database management of multiple images

The folder management function enables integrated management of inspection results as well as images captured by a digital camera and scanner. Building an inspection database is a snap thanks to various functions that allow you to record inspection details, search required files quickly, and align thumbnail images for easier comparison and reference.

Editing and printing reports

The template creation function of IPLEX MANAGER makes it easy to create your own report formats. You can also combine different formats to create professional and comprehensive reports.



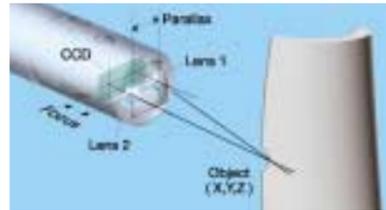
Sending inspection data and reports by e-mail

All you have to do to send images and reports is start up the e-mail function and attach a file to an e-mail message. If the recipient's PC has IPLEX MANAGER installed, they can take advantage of the stereo measurement setups attached to the image data to easily re-measure of images.

Stereo Measurement

Measurement From Every Angle — Length And Area Measurement Modes As Well As A Surface Configuration Display Mode Give You Maximum Measurement Flexibility

Olympus's exclusive measurement technology brings a new level of reliability and accuracy to your inspections with 3D stereo measurement capability. Image information is captured by two parallax lenses, allowing accurate measurement of depth.



Measurement possible from any angle

Stereo measurement makes it possible to measure anything in the field of view. The insertion tube tip does not have to be positioned right in front of the area you want to measure.

Profile display of surface configurations

The surface configurations of irregularities produced by corrosion or welds can be displayed as computer graphics, allowing more accurate analysis of configurations that may be difficult to view on normal monitor observations.



Stereo measurement possible with ø4.4-mm tube

Stereo measurement is also available with our ø4.4-mm insertion tube — the world's slimmest*. Direct-viewing and side-viewing stereo measurement adapters are provided with both the ø4.4-mm and ø6.0-mm insertion tubes.

* Among industrial videoscopes, as of October 2001

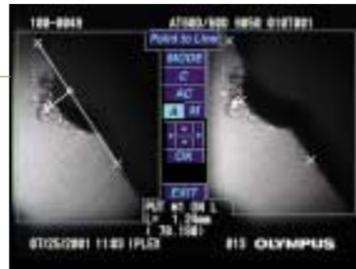
Faster calculations

In addition to the incorporation of a high-speed RISC CPU that performs calculations more quickly, a new algorithm is employed to further reduce calculation time.

Six measurement modes to meet a wide range of requirements

To address the specific needs of various inspection sites such as engines or pipework, six measurement modes are provided. This allows you to obtain more detailed, extended measurement data specifically pertaining to the inspection site.

Measurement modes
Distance
Point-to-Line
Depth
Lines
Area
Profile



Engine inspection measurement modes



Point-to-Line

Measures the distance between a hypothetical line between two designated positions and your required point. Effective for the detection of the dimensions of a chipped section in a blade.



Lines

In addition to distance measurement between two points, total length can be measured by plotting multiple positions. Useful for estimation of total length of a crack with complicated contours.



Area

Calculates the area surrounded by multiple designated positions. This mode makes possible quantitative determination of the dimensions of a burn.

Pipe inspection measurement modes



Depth

Measures the depth/height from a hypothetical plane inside three designated positions to the required point. Effective for measurement of corrosion, protrusion, and indentation.



Lines

Besides simple distance measurement between two points, the capability to plot multiple positions makes possible measurement of the total length of a damaged surface inside a pipe.



Profile

The cross section of two designated points is represented with computer graphics. An irregularity that is not comprehensible on the monitor is now easy to understand.



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Easy towing even through tight spaces

The casters and rod handle are optimally positioned to achieve the best-possible weight balance when you're towing the IPLEX and ensure that you can easily maneuver it through tight spaces. Since there are no side projections, you don't have to worry about snagging it on something.

- Three-step expandable rod handle
- Rod handle storage section
- Lifting handle
- Removable case top cover
- Integrated bumper
- Insertion tube winding drum
- Insertion tube winding handle
- Carriage caster

Easy rewinding of the insertion tube

When the inspection is complete, all you have to do to store the insertion tube is turn the handle on the side of the main unit. The insertion tube can be rewound quickly and easily. Since the winding handle fits into the indentation provided on the main unit, it doesn't get in the way when the IPLEX is transported.



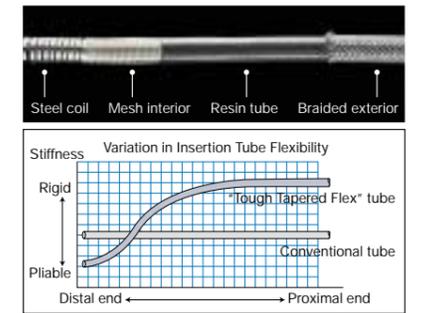
Protection against external impact

For superior shock resistance, the main unit's case is made from a compound of ABS resin and polyamide designed to absorb any impact by dispersing the shock through the entire shell. All components are housed in a rugged chassis to withstand typical shocks and vibrations. Additional protection is provided by a floating-type construction that incorporates a shock absorber between the case and chassis to enable the IPLEX to be transported without packing.



"Tough Tapered Flex" tube with excellent insertability and durability

The newly designed "Tough Tapered Flex" tube assures smooth insertion and high structural strength by incorporating "Tapered Flex" technology for superior insertability and with highly durable interior construction (approx. 3 times more durable than conventional tubes). The braided exterior is made of tungsten, an especially tough material typically used in cemented carbide and heat-resistant alloy.



"Tough Tapered Flex" tube: Featuring a more pliable distal end and stiffer proximal end, this Olympus-original tube design provides the superior insertion capability you need to perform inspections more easily.



Amazingly Slim

World's narrowest* insertion tube — 4.4-mm diameter

At only 4.4 mm, the IPLEX offers the world's narrowest* insertion tube, letting you approach from observation positions conventionally considered difficult. In addition to the thin design, stereo measurement is available, as are direct and side view optical tip adapters. With so much more flexibility when it comes to choosing an observation position, the versatile IPLEX lineup brings a whole new world of possibilities to inspection applications.

* Among industrial videoscopes, as of October 2001



Single-Hand Control Of IPLEX Makes Operation Simple

With the IPLEX, high performance and advanced functions don't come at the price of increased complexity and operational difficulty. All inspection functions are accessible directly from the compact, lightweight remote control, making possible true single-hand operation. And since the IPLEX comes with a full set of image management functions and built-in PC connectivity, it's ready to handle all your requirements at every stage of your workflow.

Slim remote control fits in your palm

Weighing a mere 160 grams, the compact remote control incorporates all the functions required for operating the IPLEX. Two joysticks and buttons give you total control over advanced functions from tip angulation and zooming to image management data entry and more. Even when the insertion tube mount is attached to the remote control, you can still hold it in one hand, making inspection more efficient and virtually effortless.

High-precision motorized tip angulation

Angulation of the insertion tube tip is motorized for smooth operation and can be controlled with the joystick on the remote control. Driven by a high-torque motor, the wire that operates angulation is coated with special material to reduce friction and is designed to withstand twisting and warping. The motor's precision-driving capability lets you stop the insertion tube tip exactly where you want.



Bright, high-quality images

The IPLEX incorporates our latest high-sensitivity CCD to provide images with increased resolution and clarity. In combination with a 50-watt metal-halide lamp and newly designed reflector for more efficient light convergence, the result is clear, crisp images with a brighter field of view — exactly what you need for accurate inspection. The IPLEX also features a Boost mode to help you cope with particularly dark observation conditions. When activated, the Boost mode can deliver images approximately four times as bright as those produced by a conventional model.

Smooth, stepless zoom

Even when you're zooming in on the observation target, images remain clear and stable, with no jerkiness. The stepless zoom lets you adjust magnification from 1X to 3X continuously and smoothly. A touch-sensitive lever on the remote control lets you operate the zoom with ease and precision.



Automatic brightness control

The automatic brightness control automatically optimizes the view field brightness level relative to the observation target. Brightness can also be adjusted manually.

Comparison function for easy crosschecking

Side-by-side comparison of two displays is possible on the monitor. Two combination modes — recorded freeze display and live display, and recorded freeze display and live freeze display — are available.



Other observation functions

- Image enhancement to emphasize outlines.
- Extended exposure for up to 500 milliseconds to enable observation of dark areas and wide cavities.
- Freeze mode to instantly obtain a still image of live display.
- Panning mode to scroll the area displayed in a zoomed-in image horizontally and vertically.

Convenient recording card storage

Inspection result images can be recorded directly on the dedicated recording card and transferred to a PC. When the card is full, all you have to do is erase unnecessary image files or replace it with a new card.



Moving image and voice annotation recording

In addition to still images, the recording card can also store moving images and voice annotations. On a 32-megabyte card, you can store up to 300 standard-quality still images, up to 150 standard-quality still images with 10-second voice annotations, or up to 50 seconds of moving images.

Format	Capacity per image	Image per 32MB card
Still image	High-quality JPEG	Approx. 200 KB Max. 150 images
	Standard-quality JPEG	Approx. 100 KB Approx. 300 images
	Uncompressed TIFF	Approx. 640 KB Approx. 50 images
Moving image	Approx. 500 KB (per sec.)	Max. 60 sec.
Voice annotation	Approx. 16 KB (per sec.)	

Title entry for easy categorization

Titles of up to 15 characters can be added to images using the remote control. Titles of recorded images can also be changed later on, if desired.

Four languages to choose from

On-screen messages and displays can be selected from English, French, German, or Japanese.

Versatile data management functions

You can use the convenient thumbnail function to display 9 stored images at once or locate specific images by date using the search function. There's also a filing function that creates new folders, as well as erase, move, and copy images.



Enhanced PC connectivity

The IPLEX SA is equipped with a USB port for direct transfer of inspection data to a USB-compatible PC for storage, processing, and analysis. Remote operation of the IPLEX using the mouse of the connected PC is also possible.

