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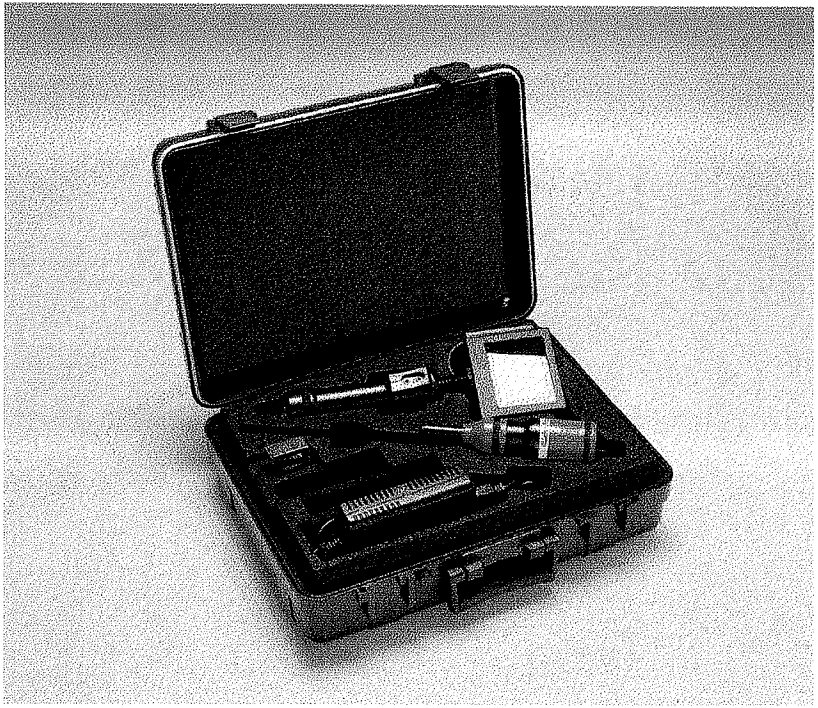
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Find the *Aerotech AWT 200/300* at our website: ***Click HERE***

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Video Microscope AWT 200/300

Users Manual

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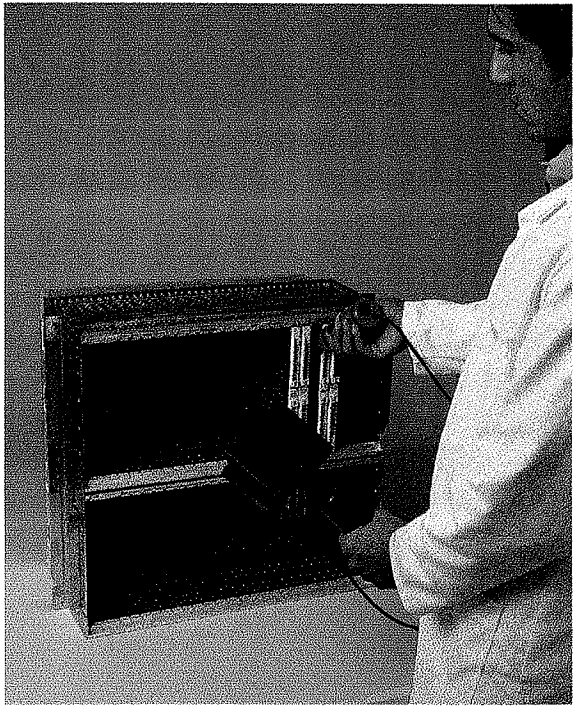
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Features

- In – situ endface inspection
- Single handed focusing
- Super bright blue LED for better illumination of the endface
- 200 X magnification
- Interchangeable barrels
- Inspection of card cages
- Snap-on tips
- Ruggedised case
- Belt clip for battery and monitor
- Advanced tips to manually centre the image



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Basic description

- The AWT200 is a portable, video microscope for inspection of connector endfaces through midcouplers.
- Contamination of fibre optic ports on equipment and Patch bays can be inspected with the AWT 200 allowing cleaning to take place before failure occurs.
- The AWT 200 is built to a high standard from CNC machined Metal parts, the probe is insulated and the extended probe can be used to inspect vacant slots in card cages without the need to down the equipment.
- The CCD Camera is optimised for monochrome display complementing the super bright blue LED to show fine oils and contamination that would not normally show up
- Focusing is achieved with the same hand that holds the Camera Handle and the universal tip fits the majority of connectors reducing the need to change tips every time you encounter a different piece of equipment.

- The LCD Monitor provides a high resolution image to detect pitting, scratching and contamination of the endface at the industry standard resolution of 200X

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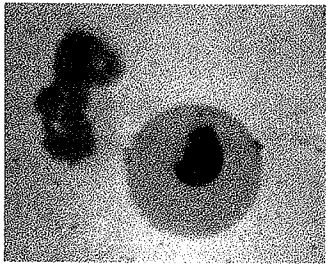
Operation

The Awt 200 is used to inspect Fibre Optic Connectors in Patchpanels, Test equipment, network and transmission equipment, it can also be used to inspect Patchcords and bare 2,5mm ferrules.

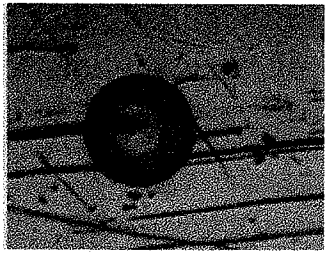
Contamination causes degradation in service and damage to endfaces such as pitting and scratches.
The unit comes as a 'camera handle' and separate Battery pack and monitor with a belt clip for single handed operation.

The battery pack allows the unit to be used for a period of 4 hours without mains connection, and allow the user to move freely from one area to another.

The unit can also be connected to an optional video capture device for image storage logging and retrieval in test results of certificates of conformity.



Contamination of Endface



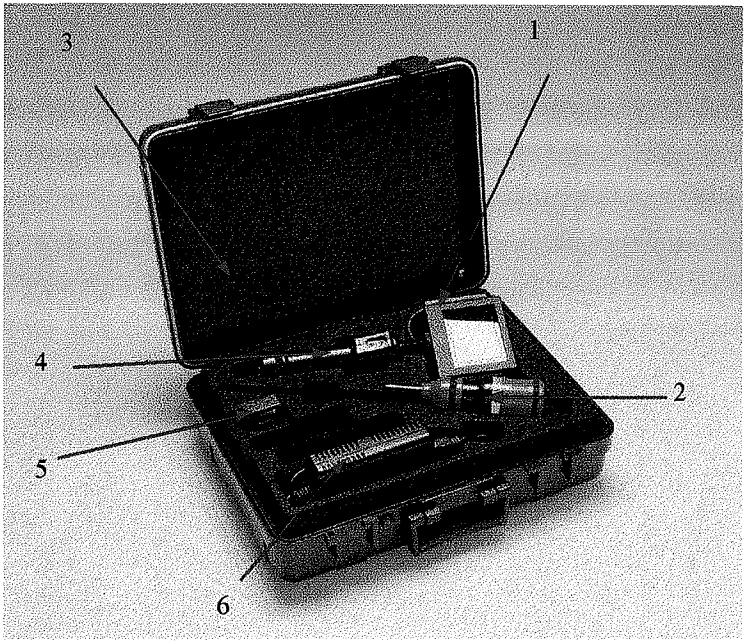
Pits and Scratches

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Case Contents

1 Monitor
2 Camera Handle
3 Ruggedised Case
4 Battery Pack
5 Tips
6 Power Supply



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Viewing the Image

Insert the Correct tip

Connect the Camera to the monitor and battery pack and turn the Monitor and Camera on.

Holding the Camera handle with the **finger groove facing downwards** press the tip against the Midcoupler or bulkhead and search for the image using gentle hand movements adjusting the focus if necessary.

If the unit is being used for the first time or the connector being viewed is different to the previous one it is necessary to focus the camera.Using gentle movements search around the endface until you find a bright spot , holding the camera steady turn the focus wheel until the endface comes into focus.

It is now possible using gentle movements to centre the core and cladding or search around the endface for contamination.

the Cletop Stick contained in the optional cleaning kit is recommended for cleaning receptacles without dismantling the unit.

Camera Handle

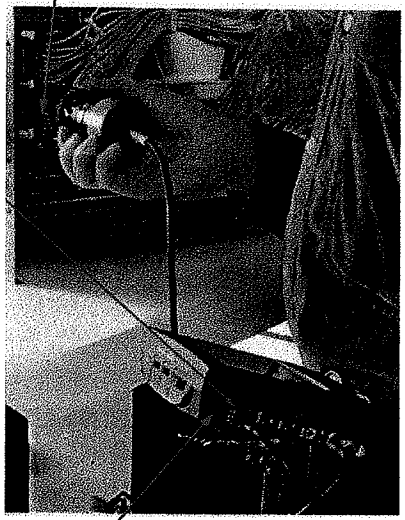


Image on Display



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Optional Cleaning Kit

The Optional Cleaning kit contains

- **Compressed Air**
- **Kim Wipes**
- **Optical Microscope**
- **Cletop © Sticks**
- **Cletop © Cassette**
- **Power Meter**
- **Replacement Batteries**
- **Alcohol Dispenser**
- **Spare Tape for Cletop**



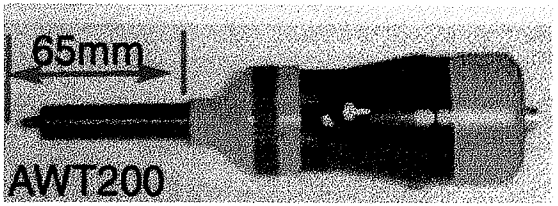
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Changing The Barrel

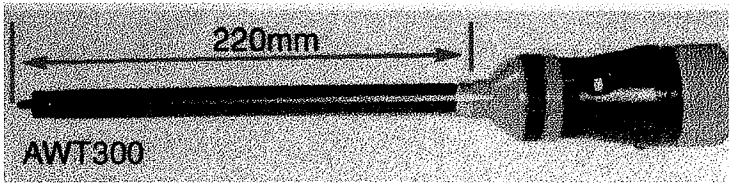
Changing the Barrel to accommodate backplane or difficult to reach areas is a simple 4 step process.

1 Unscrew Short Barrel
2 Unscrew Lens and place in case
3 Screw in Lens Extender
4 Screw in Long Barrel

To change back reverse the process, be careful not to lose or damage the small lens and always store it inside the case.



Short Barrel (AWT 200)

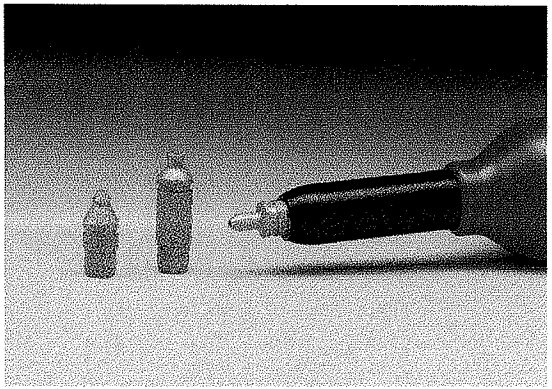


Long Barrel (AWT 300)

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AWT 200/300 Tips



Universal Tip

The universal tip covers most types of receptacles. midcouplers and bulkheads including ST SMA FDDI MU LC FC.

Patchcord Tip

The Patchcord tip inspects most 2.5 mm ferrules such as the ST FDDI FC etc.

Biconic Tip

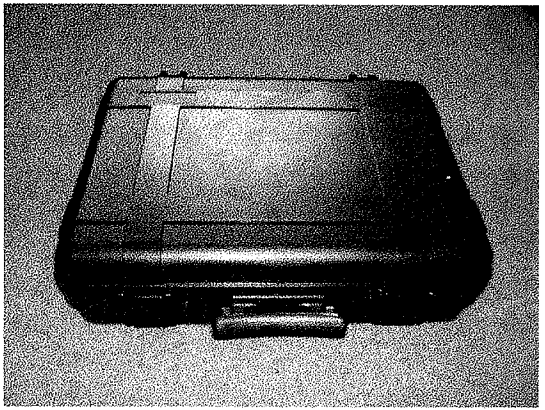
The Biconic tip is available for systems with combinations of new and old technologies

Angled Tips

A range of Angled tips are in the pre production stages, visit our website for updates www.aerotech.uk.com

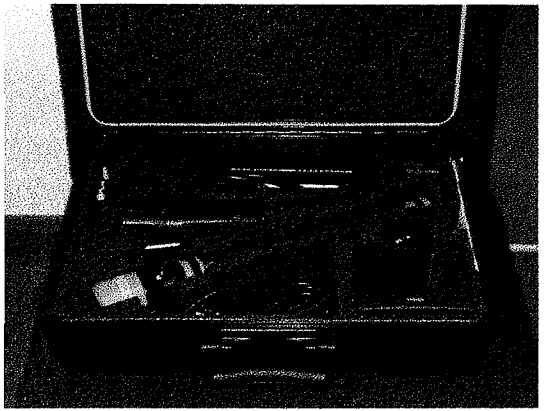
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Ruggedised Case



The AWT 200/300 is shipped with an rugged case for equipment protection during transportation and shipping.

The case has high density cut-outs to offer the equipment an added level of protection .



Note the de-pressurising screw beside the handle if the case will not open after an aircraft flight or long trip unscrew this screw to release the negative pressure inside.



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Maintenance

Aerotech go to great lengths to ensure your Video Microscope will give you years of u interupted operation, general care procedures follow.

Keeping the Optics clean

Clean the lenses with Alcohol and Kim wipes periodically to ensure continuous operation.

Battery Care

Always give the battery pack a full charge (4-6 Hours) and do not run it completely fla NOTE The Charger will charge the unit and operate at the same time.

Monitor

Clean screen and do not expose to direct sunlight, NB you will experience colour shading at extreme temperatures.

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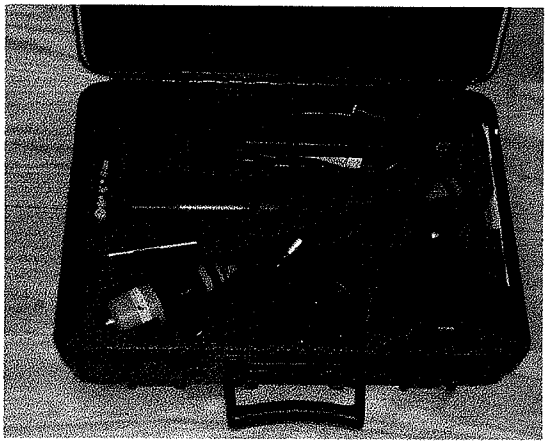
SPECIFICATIONS

Magnification	200X
Light Source	Super Bright LED
Video Out	NTSC
Power	Battery Pack or 80-260v Switch mode power supply
Interchangeable probe	Standard or extended Probe of 300mm
Optional Extras	Image Grabber for PC Extended Barrel for chassis inspection
Available Tips	Universal (Most Connector Types) Patchcord Right Angle (Patchpanels with Guard Rails) LC MU Ribbon Cable E2000 Biconic

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Warranty

The AWT 200/300 family come with a one year limited warranty, this covers workmanship and defective material, any failures thereof will be replaced by Aerotech free of charge, this does not include units that have been modified or damaged through misuse.



Returning Equipment

All units to be serviced must be documented before dispatch.
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NOTES

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