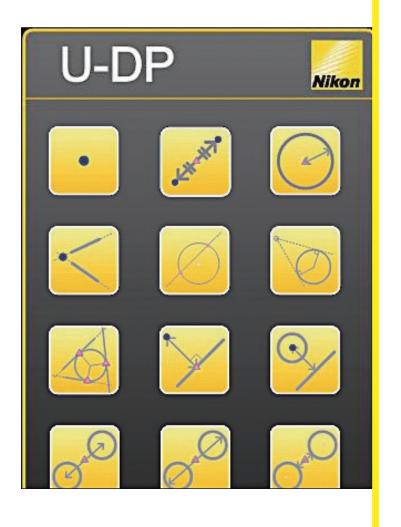


Nikon Metrology Software U-DP







The first browser-based metrology software for Nikon measuring microscopes and profile projectors

Nikon Metrology Software U-DP was designed for metrology engineers who need to make quick and easy measurements with Nikon measuring microscopes and profile projectors.

Easy-to-connect browser-based software

Nikon Metrology Software U-DP is browser-based geometric dimensioning software (patent pending). Nikon measuring instruments can be effortlessly connected to desktop PCs, laptops or PDAs via Ethernet or even WiFi through a Web browser such as Safari, Internet Explorer or Firefox.

Icon layout and size compatible with PDAs

Nikon Metrology Software U-DP is designed for compatibility with widely used PDA devices. Vertical or horizontal layout can be selected depending on PDA type. All icons are appropriately sized for touch panel interfaces.

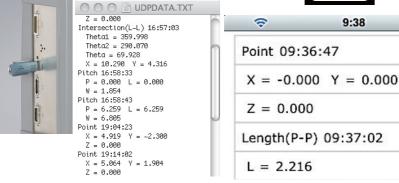
Interactive icons and navigation

Interactive icons and navigation enable immediate operation. Simply select tool icons and click on or touch the browser to enter points for geometrical construction and dimensioning.

Keep your measurement data with you

All measurement results are automatically saved on the USB flash disk and can be copied to a PC or PDA as ASCII data. To present numerical data, simply open the results file or copy the data to a memo pad.





Measurement results are saved on a USB flash disk

Data copy icon and results menu on a PDA screen

Results printout with serial cable connection

With a specified Nikon serial printer, measurement results can be printed for immediately available hard copies.



U-DP operation window on Safari Internet browser



Nikon Metrology Software U-DP on a WiFi PDA device



Nikon Metrology Software U-DP on a laptop PC



Serial printer for results output from U-DP

A variety of measurement tools to meet all metrology needs

Measurement tool menu - datum setting, feature, construction

A variety of measurement tools, such as 2-1 skew alignment, point, circle and point to line distance, are available to meet different metrology requirements.



2-1 skew alignment

Two points for line feature followed by one projected point to set datum

Feature measurement



Single-point XY coordinates



Mid-point XY coordinates from two



Circle diameter and XY coordinates from three points



The window shows "Aligned" mode when the skew is complete. Click "Clear Align" to return to mechanical coordinates.

Construction

Distance



Point to point distance with XY coordinate differences



Point to line distance with XY coordinates on projected point



Circle center to line distance with XY coordinates on projected point and circle diameter



Tangent

Inscribed circle tangent point coordinates inside three line features



coordinates from single point to circle





Circle to circle distance - nearest, center and farthest modes

Intersection







Intersection coordinates from line to circle

Pitch







Pitch distance measurement - single edge distance from line, mid point coordinate differences in X and Y directions

Coordinate reset



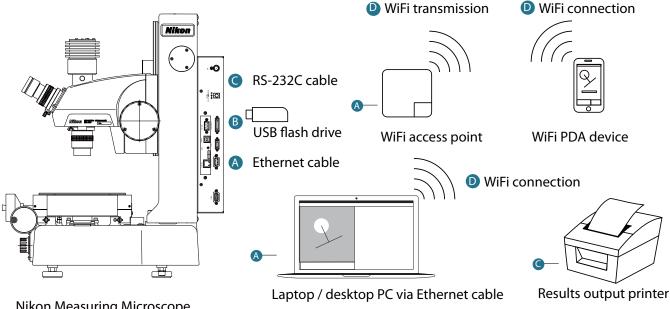


X and Y coordinate reset icons are handy for quick and remote reset of DRO values.

System requirements

Nikon measuring instruments	MM-200/400/800 with backpack controller interface models Nikon Profile Projector and previous Nikon measuring microscope models with a retrofit counter unit
Web browser	Compatible with widely used Internet browsers - Safari, FireFox, Internet Explorer
Ethernet connection	100 Base T
WiFi connection	Please consult Nikon or a Nikon distributor for recommended access points.
PDA devices	Compatible with WiFi communications devices such as PDAs and Internet communicators
Important notice	Nikon Metrology Software U-DP requires software license activation before use. Please contact your nearest dealer, distributor or Nikon branch for assistance.

System diagram



Nikon Measuring Microscope MM-400/800 with backpack controller

Retrofit counter unit for Nikon Profile Projector and Nikon Measuring Microscope MM-40/60 Nikon Metrology Software U-DP supplied on USB flash drive

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TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

ISO/IEC 17025 Certified

Nikon Corporation Instruments Company has been certified as an ISO/IEC 17025 accredited calibration laboratory for projectors and measuring microscopes by the Japan Accreditation Board for Conformity Assessment

Date of accreditation: September 8, 2006

Scope of accreditation: X/Y-axis indication accuracy of measuring microscopes X/Y-axis indication accuracy and magnification accuracy of projectors

Accredited section: CS 1st Engineering Section, Sales Department, Industrial Instruments Division

Calibration site: Customer's laboratory (field service)



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