

## ND 120 QUADRA CHEK

The ND 100 digital readouts have a monochrome flat-panel screen for displayed values, dialogs and inputs, graphics functions, and soft keys. With its sturdy housing and splash-proof membrane keyboard, the ND 120 is built for the workshop. It handles 2 or 3 axes, is capable of measuring complex geometries, graphical display of measured parts, linear, segmented and nonlinear error compensation, and features USB output.



ND 120

## ND 1100/1200 QUADRA CHEK

The ND 1200 QUADRA-CHEK digital readouts have a monochrome flat-panel screen for displayed values, dialogs, and inputs. Graphics functions of the 1200 series include automatic calculation of radii, circles, angles, lines, points, and distance, and function as measuring computers for 2-D geometries.



ND 1100

### Features:

- ✓ X and Y axes digital display
- ✓ Optional Q axis
- ✓ RS-232C PC communication interface
- ✓ USB port for printers or flash memory connectivity
- ✓ Incremental and absolute modes
- ✓ Inch/Metric selectable
- ✓ Min/max value storage
- ✓ LED display
- ✓ Geometric functions (1200 series only)
- ✓ Optional edge detection



ND 1200

## ND 1300 QUADRA CHEK

The digital readouts of the ND 1300 series are characterized by the large color touchscreen. The innovative operator guidance provides self-explanatory information about the various functions. Geometric functions include automatic calculation of radii, circles, angles, lines, points, and distance.



ND 1300

### Features:

- ✓ X and Y axes digital display
- ✓ Optional Q axis
- ✓ RS-232C PC communication interface
- ✓ USB port for printers or flash memory connectivity
- ✓ Incremental and absolute modes
- ✓ Inch/Metric selectable
- ✓ Min/max value storage
- ✓ Touchscreen display
- ✓ Geometric functions
- ✓ Optional edge detection
- ✓ CNC motion control option

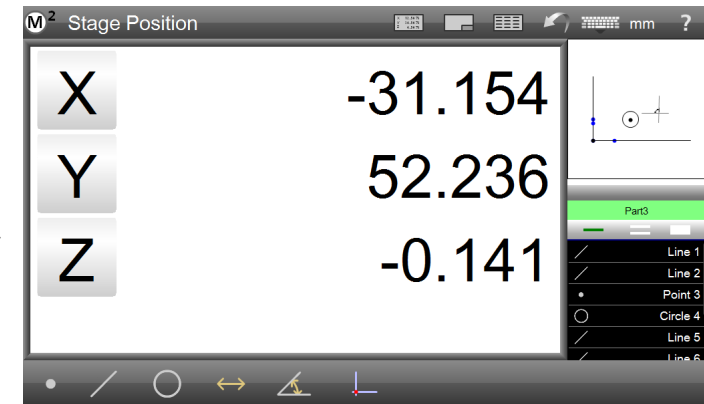


**HEIDENHAIN**

Metlogix M2 software can be installed on an all-in-one touch screen PC with Microsoft Windows 7, 8.1, or 10.

## METLOGIX M2 MEASURING SOLUTION FEATURES

- ✓ Clean, intuitive design
- ✓ Available in horizontal or vertical formats
- ✓ Support for optical edge or crosshair measuring systems
- ✓ Designed for multi-touch software control
- ✓ Advanced crosshair probe toolbox
- ✓ Graphics based "Part View" constructions
- ✓ Feature detail graphics
- ✓ Geometric tolerancing
- ✓ Part programs and playback
- ✓ Presentation quality reports via local file, Wifi, or LAN

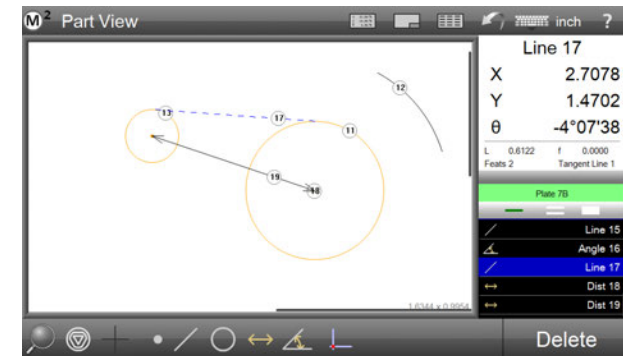


## GRAPHICS-BASED "PART VIEW" CONSTRUCTIONS

Generate popular construction types, such as Distances and Tangent Lines, from within the graphical part view itself. Constructions with multiple sub-types can be toggled quickly with the "change feature type" command.

Supported construction types include:

- ✓ Average
- ✓ Mid/Center Point(s)
- ✓ End Point(s)
- ✓ Intersections
- ✓ Shortest Distance
- ✓ Farthest Distance
- ✓ Tangent Line(s)
- ✓ Gage Circle(s)
- ✓ Bolt Circle
- ✓ Angle Compliments
- ✓ Perpendicular/Parallel Line(s)
- ✓ Offset Skew Lines

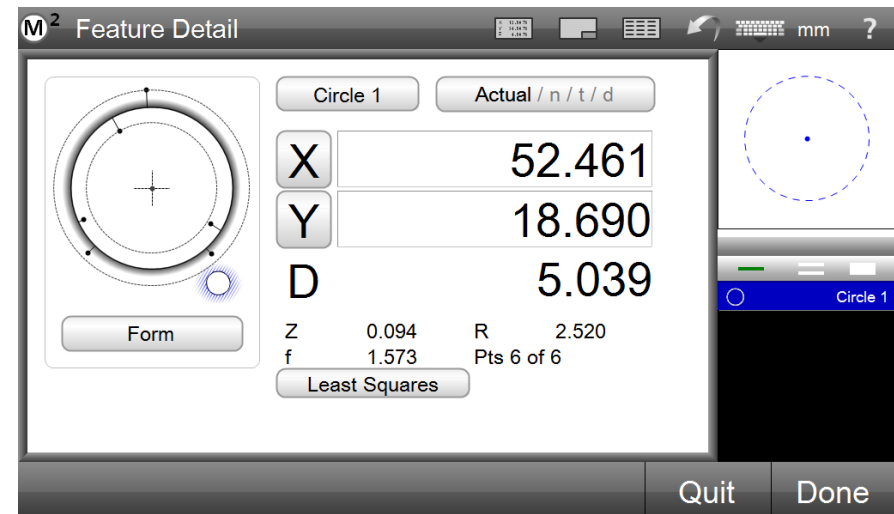


## METLOGIX CNC OPTION

The **MetLogix CNC option** provides closed loop control of optical comparators. The CNC option enables automatic and repetitive part measurement, boosting productivity and helping to reduce operator subjectivity.

## FEATURE DETAIL GRAPHICS

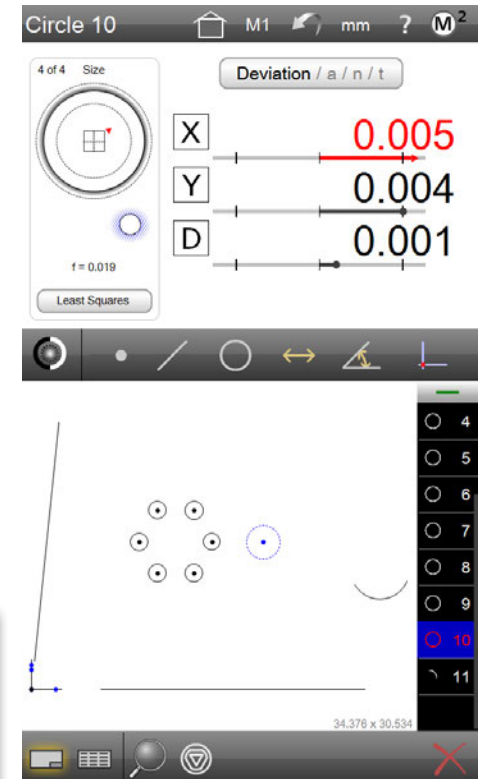
Individual feature views provide informative drawings displaying point cloud distributions as well as nominal deviations and tolerance results. Scroll through your measured features list from this view for a feature-by-feature display of Actual, Nominal, Tolerance, and Deviation results. Set the desired data fit type from the "Actual" screen using the "fit toggle" button.



You may measure features, set nominals, apply tolerances, and view deviation results with only a few quick clicks. You may also apply a variety of popular tolerance types to features in the standard “feature-to-feature” fashion, or utilize the “place tolerancing” system for applications where tolerances are specified in a block tolerance style call out. For these cases, the M2 software lets you enter and apply universal tolerance values according to your feature resolution groupings.

## SUPPORTED TOLERANCES INCLUDE:

- ✔ X/Y/Z Positional
- ✔ Diameter/Radius/Length/Width Size
- ✔ Theta (Angle)
- ✔ Form
- ✔ Parallelism
- ✔ Angularity
- ✔ True Position (LMC/MMC Modifiers)
- ✔ Straightness
- ✔ Perpendicularity
- ✔ Roundness
- ✔ Concentricity
- ✔ Runout



## LENS TECHNICAL SPECIFICATIONS

14" SCREEN				16" SCREEN				24" SCREEN				32" SCREEN				NIKON 20 +			
LENS MAGNIFICATION	METRIC (mm)			LENS MAGNIFICATION	METRIC (mm)			LENS MAGNIFICATION	METRIC (mm)			LENS MAGNIFICATION	METRIC (mm)			LENS MAGNIFICATION	METRIC (mm)		
	A	B	C		A	B	C		A	B	C		A	B	C		A	B	C
5X	58	81	162	5X	106	138	276	5X	158	220	440	5X	196	315	630	5X	120	73	146
10X	54	81	162	10X	58	80	160	10X	79	138	276	10X	117	158	316	10X	70	79	158
20X	47	81	162	20X	40	82	164	20X	68	138	276	20X	117	109	218	20X	50	85	170
25X	40	70	140	25X	40	70	140	25X	68	118	236	25X	117	92	184	50X	50	51	101
31.25X	34	56	112	31.25X	35	56	112	50X	68	100	200	31.25X	117	79	158	100X	50	51	101
50X	28	51	102	50X	30	53	106	100X	68	48	96	50X	117	60	120				
100X	27	43	86	62.5X	30	50	100	200X	20	24	48	62.5X	117	52	104				
				100X	30	43	86					100X	117	48	96				

