

QM-Data200

SERIES 264 — 2-D Data Processing Unit

Technical Data

Resolution:	0.0001mm
Program functions:	Part program creation, execution, editing
Statistical processing:	Number of data, maximum value, minimum value, mean value, standard deviation, range, histogram
Element memory:	Maximum of 1000 elements
Element recall:	Point, line, circle, distance, ellipse, rectangular hole, slotted hole, intersection and intersecting angle
Element key-in:	Point, line, circle
Display system:	Monographic LCD (320 x 240 dots, with back light)
Measurement result file output:	RS-232C/USB output (CSV format, MUX-10F format)
Display language:	Japanese/English/German/French/Italian/Spanish/Portuguese/Swedish/Polish/Dutch/Hungarian
Data input:	RS-232C/USB, X/Y/Z-axis signal, Footswitch
Data output:	RS-232C/USB
Power supply:	120V AC, 50/60Hz
Mass:	2.2kg (stand-mount type) 2.1kg (arm-mount type)

QM-Data200

Order No.: 264-155A (stand-mount type)

Order No.: 264-156A (arm-mount type)

Order No.: 264-159A (for Hyper MF/MF-U)

The QM-Data200 is a geometric readout/analysis unit for optical instruments like a profile projectors. This features powerful 2-D coordinate measurement capabilities with unmatched simple key operation. The QM-Data200 improves operator productivity, minimizes errors and save a total measurement time and production cost.

FEATURES

- Various graphic displays on the large colored LCD screen for easy measurement operations.
- One-key operation for combined measurements that are often used (circle-circle distance, etc.)

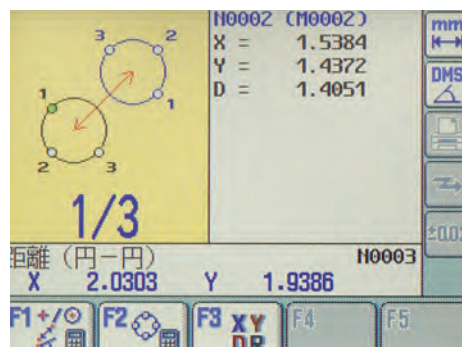
- The AI measurement function (automatic identification of measuring item) eliminates switching between the measurement command keys.
- Equipped with the measurement procedure teaching function and the measuring position navigation in Repeat mode.
- The user menu function allows user to register measurement commands or part programs to create his/her own menu.
- Tolerance zone measurement of data processing result and various statistical processing for each item are available.
- Measurement result output to "MS-Excel" in spreadsheet (CSV) format.
- The measurement procedure and measurement result can be saved, using a USB drive.
- Two models are available: a stand-alone type with tilt system and a flexible arm type that can be mounted on a Profile Projector.



QM-Data 200
Stand-mount type

• Graphic display

Measurement information and data are visualized on the back-lit colored LCD display with graphical interfaces. The geometric feature that you selected is displayed with the probing navigator. The measurements map and blink indication show you the probing points and sequences. Simply probe points and click by following the blink indicator the measurement can be easily completed even a beginner. This improves operation accuracy and reduces errors and time.



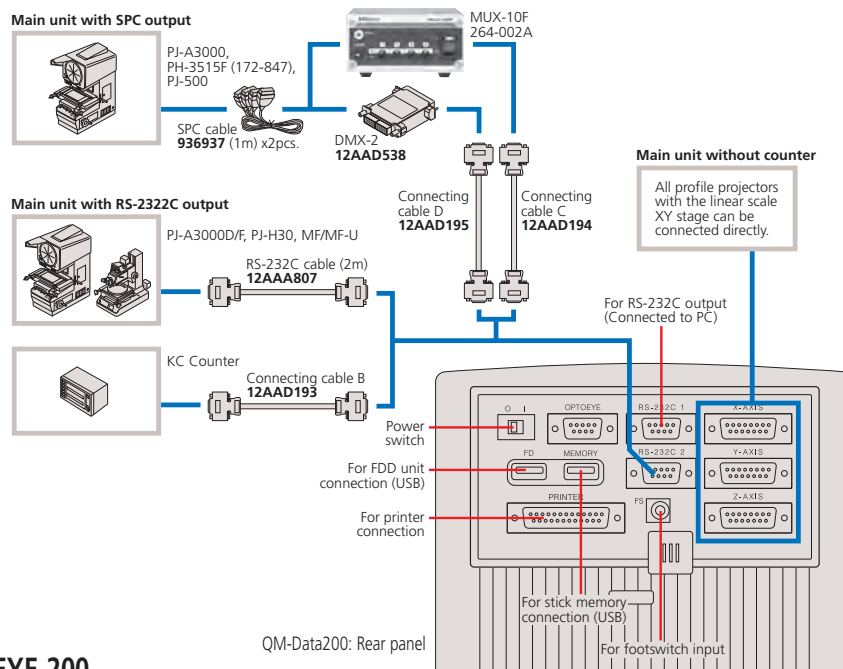
• Intuitive panel design

The QM-Data200 employs the "Geometry Keys" to accelerate the measurement process. The probing routine of standard geometric features and combinations are designed with Geometry Keys on the front panel. Click of a key that you need and capture features you can complete the measurement quickly and accurately. This improves operator productivity, reduce errors and save operation time and cost.

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SYSTEM DIAGRAM



OPTOEYE-200

The OPTOEYE-200 Image Edge Sensor eliminates human errors which may be involved in visual alignment, ensuring speedy, accurate, and consistent measurements, regardless of operator's skill.

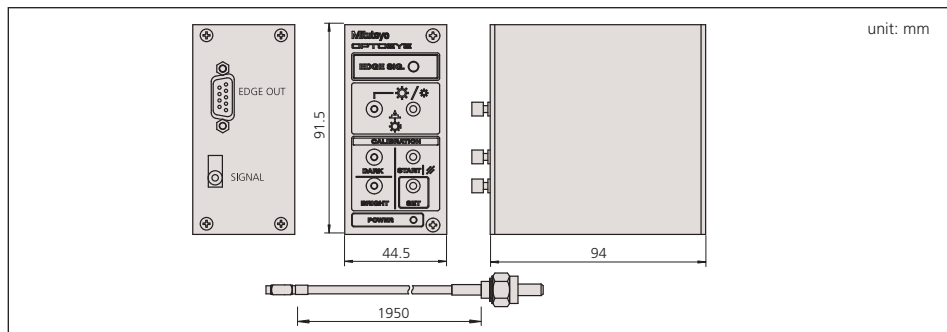
FEATURES

- OPTOEYE-200 adopts a thin fiber-optic cable for detector connection to offer easy set-up and smart operation without obstructing your view.

- Bright and dark buttons allow easy calibration.
- OPTOEYE can be powered by QM-Data200 via the connecting cable. It means that no AC adapter is required.
- The brightness of the chart can be adjusted.



DIMENSIONS



Optional Accessories

- 12AAH035: Floppy disk drive unit (USB type)
- 12AAD034: Receipt printer (for 120V)
- 908353: Printer paper for receipt printer
- 12AAA804: Printer cable (2m)
- 937179T: Foot switch
- 12AAD193: Connection cable B
- 12AAD194: Connection cable C
- 12AAD195: Connection cable D
- 12AAA807: RS-232C cable (2m)
- 12AAA920: RS-232C cable (3m)

Main unit without counter
All profile projectors with the linear scale XY stage can be connected directly.

Technical Data

Image detection

- Directivity: Non-direction
- Min. diameter: $\varnothing 2\text{mm}$ on the screen
- Min. width: 1mm on the screen
- Max. moving speed: 1000mm/s

Applicable illumination

- Type: Surface / Contour illumination
- Range: 30Lx to 1500Lx on the screen
Bright-Dark field difference: 20Lx

Repeatability:

Function: 1 μm in contour illumination
Error in detection of illumination change
Supporting a contour illumination brightness selector switch of projector

Optional Accessories

12AAE671:

Detector attachment (A)

PJ-A3000, PJ-H30, PH-3515, PH-A14 series
(Adaptation diameter of a screen:
10" / $\varnothing 250$ to 14" / $\varnothing 350\text{mm}$)

12AAE672:

Detector attachment (B)

PJ-500, PV-5110, PV-600A series
(Adaptation diameter of a screen:
20" / $\varnothing 500$ to 24" / $\varnothing 600\text{mm}$)

