

## digitale Messprojektoren der Hybrid-Serie



### Beschreibung

Der digitale Messprojektor aus der Hybrid-Serie von Chotest ist ein überaus fortschrittliches, hochmodernes und vollautomatisches Messgerät. Der Messprojektor kombiniert die Vorzüge eines elektronischen Zoomobjektivs und eines doppelten telezentrischen Objektivs und kann daher exakte Messungen vollautomatisch und effizient durchführen.

Der Messprojektor kann in den Bereichen Maschinenbau, Elektronik, Formen, Spritzguss, Hardware, Gummi, elektrische Niederspannungsgeräte, magnetische Materialien, Präzisionsstanzen, Steckverbinder, Anschlüsse, Terminals, Mobiltelefone, Haushaltsgeräte, Leiterplatten, medizinische Geräte, Uhren, Schneidwerkzeuge, Mess- und Prüfgeräte sowie in vielen anderen Bereichen eingesetzt werden.

### Technische Daten:

| Model No.                                        |                                         | Hybrid432                                                         | Hybrid562                | Hybrid682                |
|--------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|--------------------------|--------------------------|
| Travel range                                     | X                                       | 400 mm                                                            | 500mm                    | 600 mm                   |
|                                                  | Y                                       | 300 mm                                                            | 600mm                    | 800 mm                   |
|                                                  | Z                                       | 200 mm                                                            | 200mm                    | 200 mm                   |
| Structure Type                                   |                                         | Column                                                            | Bridge                   | Bridge                   |
| Base Material                                    |                                         | Granite                                                           |                          |                          |
| Monitor                                          |                                         | 24" LCD (1920x1080)                                               |                          |                          |
| Resolution of Glass Scale                        |                                         | 0.1µm                                                             |                          |                          |
| Guide Rail                                       |                                         | Precision linear guide rail                                       |                          |                          |
| High-resolution<br>Electric Zoom<br>Lens         | Lens                                    | 13.3X Motorized lens                                              |                          |                          |
|                                                  | Magnification <sup>*1</sup>             | Optical zoom: 0.6~8.0X, Image Zoom: 17~232X                       |                          |                          |
|                                                  | Image Sensor                            | HD colorful industrial camera                                     |                          |                          |
|                                                  | Single F.O.V.                           | 1mm×1mm~12mm×12mm                                                 |                          |                          |
|                                                  | Measuring Range                         | 360×310mm                                                         | 410×600mm                | 610×800mm                |
|                                                  | Meas. Accuracy (XY) <sup>*2</sup>       | (1.8+L/200)µm                                                     | (2.0+L/200)µm            | (2.2+L/200)µm            |
|                                                  | Meas. Accuracy (Z) <sup>*3</sup>        | (2.8+L/200)µm                                                     |                          |                          |
|                                                  | Bottom                                  | Telecentric transmission Illumination (Green Light)               |                          |                          |
|                                                  | Ring                                    | 6 rings and 8 segments light (White light)                        |                          |                          |
|                                                  | Coaxial Light                           | LED light                                                         |                          |                          |
| Double Telecentric<br>Wide F.O.V<br>Optical Lens | Lens Spec.                              | Φ100mm double telecentric lens                                    |                          |                          |
|                                                  | Single F.O.V.                           | 90×90mm                                                           |                          |                          |
|                                                  | Measuring Range                         | 460X330mm (4 Angles R50)                                          | 480X600mm (4 Angles R50) | 580X800mm (4 Angles R50) |
|                                                  | Accuracy of Single F.O.V. <sup>*4</sup> | ±4µm                                                              |                          |                          |
|                                                  | Stitching Accuracy <sup>*2</sup>        | (4+L/200)µm                                                       | (5+L/200)µm              | (6+L/200)µm              |
|                                                  | Back Light                              | Telecentric transmission Illumination (Green)                     |                          |                          |
| Max Speed                                        | XY                                      | 500 mm/s                                                          |                          |                          |
|                                                  | Z                                       | 100 mm/s                                                          |                          |                          |
|                                                  | Size                                    | 860×1350×1670mm                                                   | 1050×1520×1700mm         | 1150×1720×1700mm         |
| Weight                                           |                                         | 650kg                                                             | 1000kg                   | 1300kg                   |
| Loading Capacity                                 |                                         | 25kg                                                              | 50kg                     | 50kg                     |
| Power Supply                                     |                                         | 2000W                                                             | 2500W                    | 2500W                    |
| Motion Control                                   |                                         | Servo control system                                              |                          |                          |
| Software                                         |                                         | Vision X                                                          |                          |                          |
| Input                                            |                                         | AC200~240V, 50/60Hz                                               |                          |                          |
| Working Environment                              |                                         | Temp. 20°C±2°C, Humidity 20~80%, Vibration<0.002g, Less than 15HZ |                          |                          |

Note :

\*1 Image magnification is approximate and depends on monitor size and resolution.

\*2 In the focus position, the environment temperature is +20 °C ± 1.0 °C, and the load on the table is 5 kg or less; L is the moving range of the table in mm.

\*3 It is mechanical accuracy, and actual accuracy depends on object surface where lens focuses.

\*4 In the focus position, the environment temperature is +20 °C ± 1.0 °C.