# Digital Height Gage
# Digimatic® Height Gage

**Bulletin No.1950**
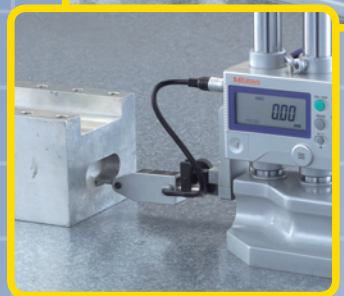


12" model    24" model    40" model

**Height gages feature improved ease of operation and enhanced functionality**
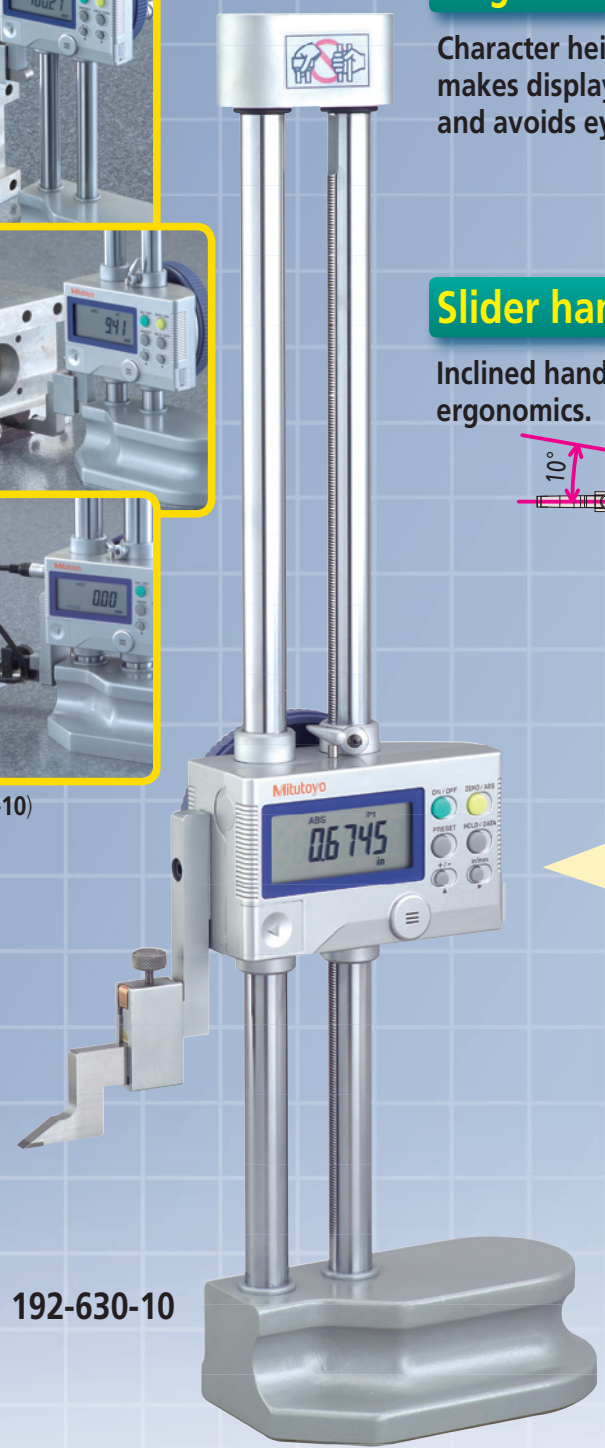
**Mitutoyo**

# Best-selling Models
## with double-column construction
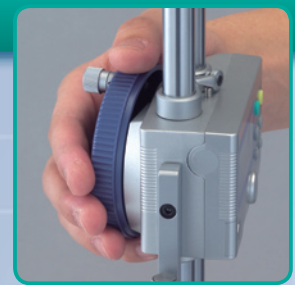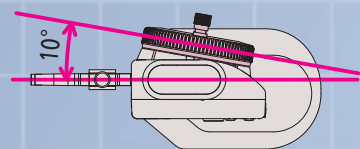
# Digital Height

(Photo: **192-663-10**)

**192-630-10**

## Large LCD characters

Character height of 11 mm makes display easy to read and avoids eyestrain.

**Actual size**

ABS    P1
3.17 mm

## Slider handle

Inclined handle improves slider ergonomics.

10°

## HD-30AX display

• Design registration pending

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ABS    P1
3.17 mm

ON / OFF    ZERO / ABS
PRESET    HOLD / DATA
+ / −

• Large function buttons. Frequently used buttons are positioned on the right-hand side of the panel for easy operation.
• Uses the proven alarm system as used on previous models.

## Base

Base is shaped to offer a secure grip

# Mitutoyo

## Resolution switchable to 0.01 or 0.005 mm

**Simple switching operation**

## Output function for all models

**Connectable to the Digimatic Mini-processor DP-1VR, or to a PC via the input tool**

SPC Data output cable
1m：**No.905338**
2m：**No.905409**

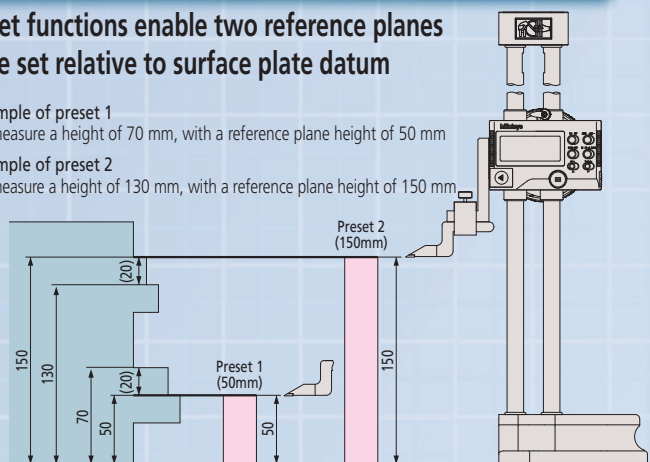**No.264-504-5A**
**DP-1VR**
(optional)

Input tool
**No.264-012-10**
(optional)

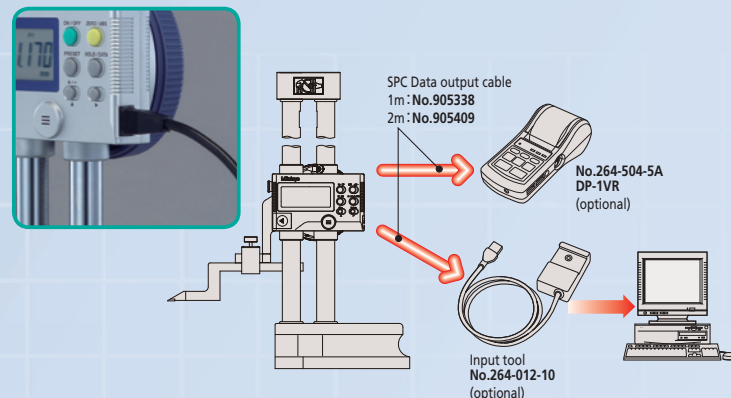## Highly efficient operation plus preset-function convenience

**Preset functions enable two reference planes to be set relative to surface plate datum**

- Example of preset 1
  To measure a height of 70 mm, with a reference plane height of 50 mm
- Example of preset 2
  To measure a height of 130 mm, with a reference plane height of 150 mm

Preset 2
(150mm)

Preset 1
(50mm)

**Functions**
- Zero-set
- Two preset reference heights
- Direction switching
- ABS measurement system (origin setting function)
  (Re-setting of the origin is not required after power-off.)
- Hold
- Data output
- Probe-ball diameter correction (HDM-AX only)

■ **Options**

- **Bidirectional touch signal probe for Multi-function type**

| Code No. | metric | inch |
|---|---|---|
| | **192-007** | **192-008** |
| Measuring direction | Two-directional | |
| Contact method | Normally open | |
| Prove overtravel | 1.5 mm | |
| Probe tip type | ø3 mm carbide ball | |
| Repeatability (σ) | 2μm | |
| Cable length | Approx. 150 mm | |
| Measuring force | 0.4 N | |
| Standard accessories | Holder arm, clamp | |

* The Multi-function type has a probe-ball diameter correction function.
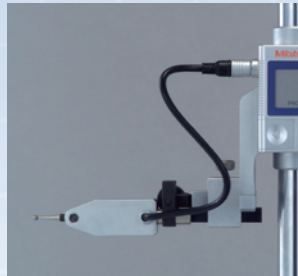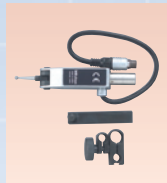
- **Connecting cable**

**Part No.905338**: 1 m
**Part No.905409**: 2 m

# Digimatic® Height Gage

## Standard type with SPC Data output

■ **Specifications**

**192-630-10**

* Quantizing error: ±1, without count

| Code No. | metric | | | inch / metric | | | |
|---|---|---|---|---|---|---|---|
| | 192-613-10 | 192-614-10 | 192-615-10 | 192-630-10 | 192-631-10 | 192-632-10 | 192-633-10 |
| Measuring range | 0-300mm | 0-600mm | 0-1000mm | 0-12"(0-300mm) | 0-18"(0-450mm) | 0-24"(0-600mm) | 0-40"(0-1000mm) |
| Resolution | Switchable between 0.01 and 0.005 mm | | | .0005"(0.01mm) [.0002"(0.005mm) switchable] | | | |
| Display | 7-digit LCD, character height: 11 mm | | | | | | |
| Accuracy* | ±0.02mm | ±0.05mm | ±0.07mm | ± .001"(±0.02mm) | ±.002"(±0.05mm) | ±.002"(±0.05mm) | ±.003"(±0.07mm) |
| Repeatability | 0.01mm | | | .0005"(0.01mm) | | | |
| Response speed | About 500 mm/s | | | | | | |
| Power supply | One SR44 battery (silver oxide button cell)  No.938882 | | | | | | |
| Battery life | About 3,500 hours | | | | | | |
| Operating temperature range | 0°C to 40°C | | | | | | |
| Weight | 4.7kg | 8.3kg | 15.7kg | 4.7kg | 7.5kg | 8.3kg | 15.7kg |
| Scriber No. | 07GZA000 | | | 900258 | | | |
| Scriber clamp No. | 05GZA033 | | | 901385 | | | |
| Standard accessories | Scriber, scriber clamp, battery | | | | | | |

## Multi-function type with SPC Data output, a bidirectional touch signal probe can be used

■ **Specifications**

**192-670-10**

* Quantizing error: ±1, without count

| Code No. | metric | | | inch / metric | | | |
|---|---|---|---|---|---|---|---|
| | 192-663-10 | 192-664-10 | 192-665-10 | 192-670-10 | 192-671-10 | 192-672-10 | 192-673-10 |
| Measuring range | 0-300mm | 0-600mm | 0-1000mm | 0-12"(0-300mm) | 0-18"(0-450mm ) | 0-24"(0-600mm) | 0-40"(0-1000mm) |
| Resolution | Switchable between 0.01 and 0.005 mm | | | .0005"(0.01mm) [.0002"(0.005mm) switchable] | | | |
| Display | 7-digit LCD, character height: 11 mm | | | | | | |
| Accuracy* | ±0.02mm | ±0.04mm | ±0.06mm | ± .001"(±0.02mm) | ±.0015"(±0.04mm) | ±.0015"(±0.04mm) | ±.0025"(±0.06mm) |
| Repeatability | 0.01mm | | | .0005"(0.01mm) | | | |
| Response speed | About 500 mm/s | | | | | | |
| Power supply | One SR44 battery (silver oxide button cell)  No.938882 | | | | | | |
| Battery life | About 3,500 hours | | | | | | |
| Operating temperature range | 0°C to 40°C | | | | | | |
| Weight | 5.7kg | 8.3kg | 15.7kg | 5.7kg | 7.5kg | 8.3kg | 15.7kg |
| Scriber No. | 905200 | | | 905201 | | | |
| Scriber clamp No. | 05GZA033 | | | 901385 | | | |
| Standard accessories | Scriber, scriber clamp, battery | | | | | | |

## Standard type with SPC Data output

■ **External dimensions** (unit: mm)

**0-12"[0-24"]**
**(0-300mm [0-600mm])**

(30[32])  (63[70])

30

(475[802])  (83[84])

32

9

(45[54])

(91[120])  (135[180])

**0-40"**
**(0-1000mm)**

40  213

35  60

1228  84

32
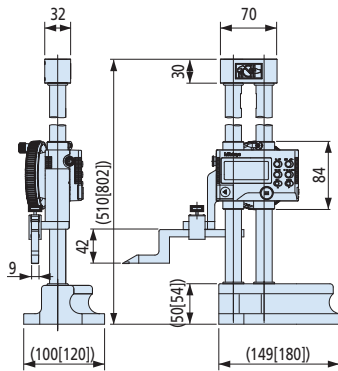
9

65

150  250
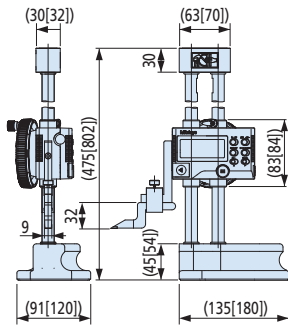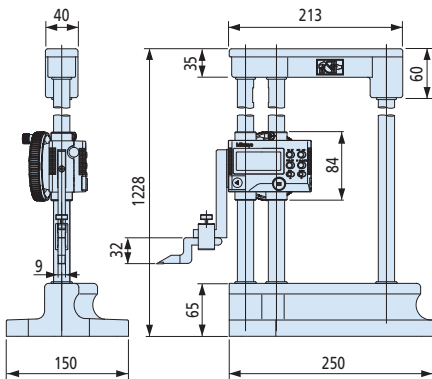
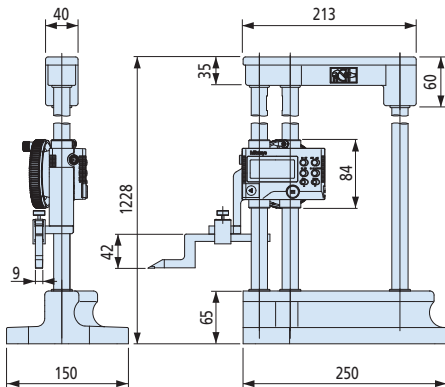192-613-10     192-614-10     192-615-10

## Multi-function type with SPC Data output, a bidirectional touch signal probe can be used
■ **External dimensions** (unit: mm)

**0-12"[0-24"]**
**(0-300 mm [0-600 mm])**

32  70

30  84

(510[802])

42

9

(50[54])

(100[120])  (149[180])

**0-40"**
**(0-1000mm)**

40  213

35  60

1228  84

42

9

65

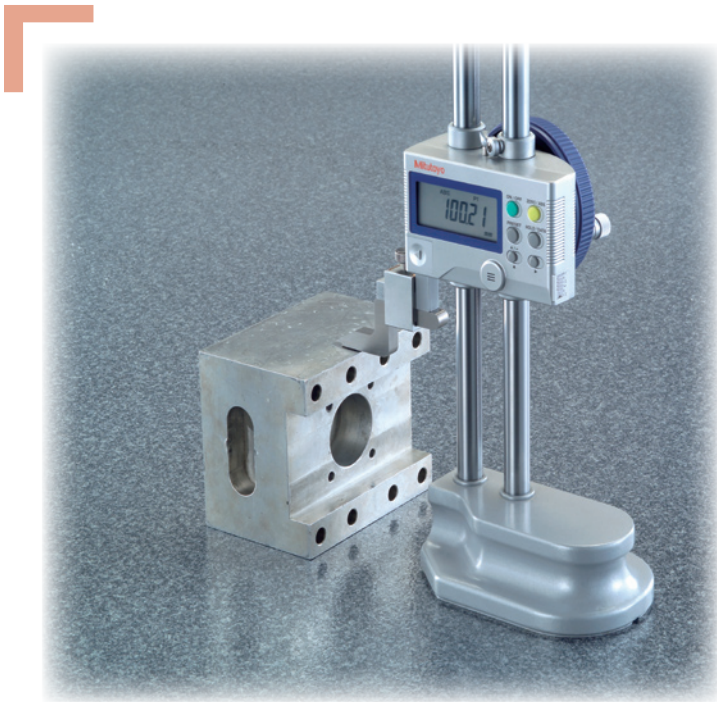150  250

192-663-10     192-664-10     192-665-10

- Coordinate Measuring Machines
- Vision Measuring Systems
- Form Measurement
- Optical Measuring
- Sensor Systems
- Testing Equipment and Seismometer
- Digital Scale and DRO Systems
- Small Tool Instruments and Data Management

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