

Wearable Force Plate **M3D-EL**



Motion 3D Evolution with the Small Mobile Force Plate

Features

- ◇ No restriction of places, allowing the user to walk around freely
- ◇ High sampling rate for easy accurate measurement
- ◇ Attached to a plain surface to receive force
- ◇ Ideal for the measurement of pedal force
- ◇ Small Force Plate worn directly on the foot

Applications



M3D-EL-FP-W (Toe)
95mm × 80mm

M3D-EL-FP-W (Heel)
80mm × 80mm

Infrared TRIG 【WTRC-T】

Master and Slave.
Can send a TTL signal
to the transmitter

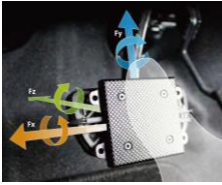
Transmitter

Communications and
power supply for two M3Ds



6-axis Pedal Force (60 × 60mm, t=9)

Compact model designed for the evaluation of pedals (gas / brake) while driving. Delicate movements of the toes can be evaluated with a 6-axis component detection.



Screw Holes on the Top Plate

Threaded holes on the top plate for easy mounting of devices and materials. Mounting holes can also be provided on the base plate for installation. Please consult us in advance for the mounting position.



External TRIG-in Function

An additional function to start recording by an external trigger signal (contact signal) to synchronize with other devices is optionally available.



Analog Output

M3D with 6-component force analog output for real-time feedback or an external A/D is also available.
*External amplifier

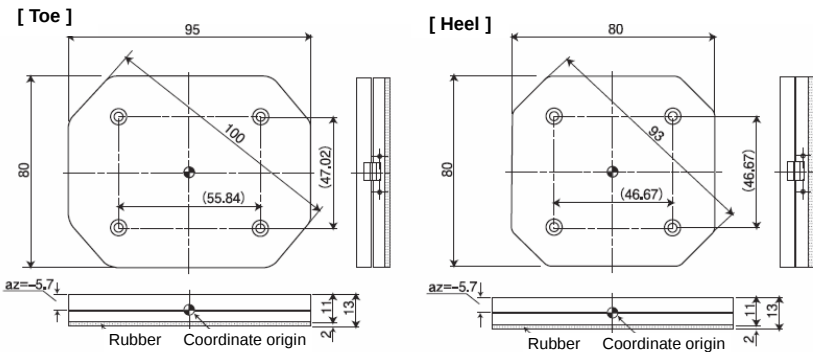


Specifications

Model	M3D-EL-FP-U
Rated capacity	$F_x=\pm 500\text{N}$, $F_y=\pm 500\text{N}$, $F_z=+1000\text{N}$, $M_x=\pm 30\text{N}\cdot\text{m}$, $M_y=\pm 30\text{N}\cdot\text{m}$, $M_z=\pm 15\text{N}\cdot\text{m}$
Non-linearity	$\pm 1.0\%$ of R.O.
Sampling frequency	Max. 1000Hz
Resolution	12-bit
Power supply	5V DC (USB bus power)
External dimensions & weight	Toe: 95(L) x 80(W) x 11(H) mm, 171g Heel: 80(L) x 80(W) x 11(H) mm, 150g (Excl. rubber parts and protrusions)
Integrated motion sensors	3-axis acceleration sensor: $\pm 2/4/8/16\text{G}$, 12-bit 3-axis gyro sensor: $\pm 2000\text{deg/s}$, 16-bit 3-axis geomagnetic sensor: [X/Y-axis] $\pm 1300\text{ }\mu\text{T}$, 13-bit [Z-axis] $\pm 2500\text{ }\mu\text{T}$, 15-bit

Dimensions

M3D-EL-FP



*The design and specifications are subject to change without prior notice.

Tec Gihan Co., Ltd.

1-22 Nishinohata, Okubo-cho, Uji-city, Kyoto 611-0033 Japan

Tel: +81-774-48-2334

E-mail: eigyo@tecgihan.co.jp

URL: <http://www.tecgihan.co.jp/>