

## iTES-PDT-07

## Small Size Single Axes Precision Turntable with 0.7 Nm Torque

iMAR manufactures gyroscopes and inertial measuring systems in all classes of per-

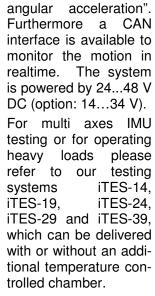
formance. Beside of our sensor and navigation products we also provide gyro test equipment.

With the iTES-PDT07 iMAR provides a high precision single axis angular rate system for testing of gyroscopes and smaller IMUs (e.g. MEMS based IMUs) under laboratory conditions.

iTES-PDT07 comes with a RS232 interface, which is used

to control the turntable. Commands are

available like "constant rate", "angular step", "absolute angular position" or "adjust





## Technical Data of iTES-PDT-07-SV [-A]:

Mounting Area / Table Top:

Mounting Threads on Mounting Platen:

Diameter d=200 mm

M6, all 25 x 25 mm²

Number of threads: 45

Table Drive: Brushless Direct Drive System with high-res angular incremental encoder

Torque:  $T_n = 0.7 \text{ Nm}$   $T_{max} = 3.0 \text{ Nm}$ 

Rate: 250 min<sup>-1</sup> (1500 deg/s); [option -A: 120 min<sup>-1</sup>]

Inertia of Table Top:  $I = 4,33 \cdot 10^{-3} \text{ kgm}^2$ 

Angular Resolution: 5.5 arcsec [option -A: 0.55 arcsec]

Number of Slip Rings / Current: 24 slip rings, each 2 A (SubD25 connector) Interfaces: RS232 (57.6 kBd) for command, CAN (500 kBd)

Size and Weight / max. Payload: D = 250 mm, H = 160 mm

approx. 5.6 kg / max. payload 4 kg

Power Supply: 24...48 V DC; [option -LV: 14...34 V DC], max 150 W

Please do not hesitate to contact us for further information.

iMAR GmbH • Im Reihersbruch 3 • D-66386 St. Ingbert / Germany Phone: +49-(0)-6894-9657-0 • Fax: +49-(0)-6894-9657-22 <a href="http://www.imar-navigation.de">http://www.imar-navigation.de</a> • sales@imar-navigation.de