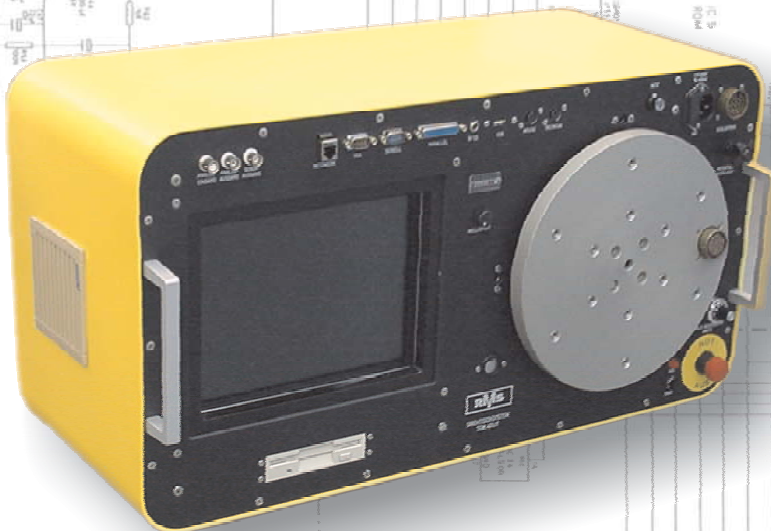


Mobile Rate Table System SDK 431/7



for vertical...



...and horizontal operations



Screen POSITIONING



Screen SINUSSOIDAL MOTION



Screen RATE

Operating Modes:

- Position Command absolute / relative
- Rate Command (Rotation at constant velocity)
- Synthesized Motion / Sinusoidal Motion
- Analog target value control
- Sequencing from file
- Automatic Self Test

Mobile Rate Table System SDK 431-7

- TFT Display with Touch Screen
- Windows XP embedded Operating System
- High Bandwidth State Feedback Controller
- Low Power Processor / Flash Drive
- Slip Ring with 27 lines
- Power Supply 110-230V, 50-400Hz



**SDK-431-7
with safty cover**

Technical Data

Rate

Resolution	0,00001 dgr/s
Absolute (measured at n x 360 dgr.)	<±0,0002%
Repeatability	<±0,0002%

Stability (average)

over 360 dgr.	<±0,001%
over 50 dgr.	<±0,01%
over 5 dgr.	<±0,1%
over 1 dgr.	<±0,1%

Positioning

Resolution	0,00001 dgr
Accuracy	<±10 arc seconds
Repeatability	<±10 arc seconds

Sinusoidal Motion

Frequency Range	0,1 Hz - 100 Hz (within system limits)
Frequency Accuracy	< 0,5%

External Analog State Demand

Max. Input Voltage	±10V (differential input)
Resolution	0,3mV entspr. 16 Bit
Accuracy	<0,05%
Parameterization	programmable

Sequencing

Data file Length	max. 1000 steps
Syntax	similar to RS232 operation

Kinematics

Drive	direct drive brushless torque motor
Torque	approx. 14 Nm max.
Rate Angle	0-360 dgr. continous race CW, CCW
Rate Velocity	0 bis 1000 dgr./s, max. 2000 dgr./s
Rate acceleration	0 - 15000 dgr./s depending upon the payload
Bandwidth (-3dB)	max. 50 Hz

Interfaces

Remote Control	RS232 serial (free parameterization)
Standard PC Interfaces	RS232,Parallel, USB, RJ45 Ethernet, PS2 Mouse, -Keyboard

Outputs

Signal of encoder 16384 cycles per revolution
 analog velocity signal 10V max.
 free scalable
 positioning analog signal 10V max.
 free scalable

Inputs

Analog input max. ± 10V,
 Full scale for operating mode analog external command