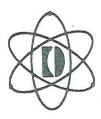


- "Plug-In" circuit boards to facilitate field maintenance
- Versatile design provides full measuring capabilities in manual, electronic signal and automatic modes
- Extremely fast response time with improved stability
- Logic Option provides binary signal that may be fed directly into a computer

MODEL D-696 TWO AXIS AUTOMATIC AUTOCOLLIMATOR

This unique and highly advanced electro-optical instrument monitors angular changes of an external reflector simultaneously in both the azimuth and elevation axes. Accurate readings of these changes may be taken manually, automatically utilizing the dials for continuous reflection observations, electronically for accurate nulling or meter readout and electronically utilizing the optional logic option circuit board which provides a binary coded signal for direct input into a computer. Also AC and DC error signals are provided with outputs on the back of the electronics cabinet.



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Page 6-10

6

DETAILED SPECIFICATIONS

Sensitivity

Accuracy

Automatic Position

Meter Position

Measurement Range

Cross Coupling

Acquisition Range

Response Time Automatic Tracking

Meter and DC Error

Signal

AC Error Signal

Warm-up Time

Acquire

Power Requirements

Analog Potentiometer

Electronics

Lens Aperture

Overall Dimensions

Autocollimator

Mounting Tube

Electronic Unit

Support Stand

Shipping Weight

Finish

± .1 second of an arc.

± .2 second of an arc over 10 second range. ± .75

second of arc over 100 second range (with minimum

1.0 diameter reflector).

Accurate to within 20% in the analog range

(± 6 seconds of an arc). AC Error Signal 20%. DC Error Signal 20%.

(Meter in conjunction with dial for nulling). ± .1 second of arc over 10 second range.

.75 second of arc over 100 second range.

100 seconds of an arc.

± 1 second of an arc.

90 minutes, decreasing to approximately 100

seconds at a distance of 130 feet.

40 seconds of arc per second of time.

Response varies with time constant control.

.05 second of time.

10 minutes to achieve normal sensitivity.

The acquire lamp illuminates when image is within

the acquisition range.

120 ± 2 1/2 volts, 60 Hz, 80 watts.

Accurate to 0.75% of the total range.

Solid State

2 inches.

Length 18 5/16", Width 11", Height 9 3/8".

2.863" dia.

24" Width, 9 3/4" Height, 16 1/4" Depth.

Elevation adjustment only ± 3 degrees.

135 lbs.

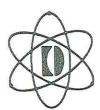
Ivory and Black

NOTE: The specifications and description contained in this bulletin also pertains to the Model D-697 Single Axis Automatic Autocollimator

Options

D-239 INSTRUMENT STAND
Digital Meter Readout

Voltage Regulator



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