



Description

The RBD Instruments' Model 110 Scanning Interface Unit provides PC system control for the PHI® 590, 595, and 600 Scanning Auger Systems. The obsolete 18-170 and 18-070 scanning electronics and 18-075/18-175 keyboard are removed from the system. All scanning functions are performed by the PC via the Model 110 and RBD's software. The result is a system that is incredibly reliable, powerful, and easy to use.

Enhances the following PHI® Scanning Auger systems:

PHI 590
 PHI 595
 PHI 600

**PHI is a registered trademark of Physical Electronics*

Advantages

- ◆ Replacing the scanning electronics and keyboard, the electron gun operation becomes a breeze
- ◆ DEC™ computer and obsolete 20-137A are removed from the system
- ◆ Photos are now digitized and the Tektronix oscilloscopes are removed from the system
- ◆ System reliability and operation are greatly improved
- ◆ Compatible with RBD 147 PC Interface Unit
- ◆ Advanced software features make operation easy to learn and use
- ◆ Easy installation

Model 110 Scanning Interface Unit

Specifications

<i>Parameter</i>	<i>Min.</i>	<i>Typ.</i>	<i>Max.</i>	<i>Units</i>
General				
Weight		11		lbs
Dimensions (W x H x D)		19x3.5x11		inches
Power Supplies (supply to unit)				
Deflection high voltage		+/- 150	+/- 175	Vdc
Deflection high voltage current		12.8	16	mA
Deflection low voltage		+/- 20		Vdc
Control voltage		5		Vdc
Deflection Electronics				
Power Bandwidth		26		kHz
Output voltage swing	+/-Vs-12	+/-Vs-10		V
Slew Rate		40		V/ms
Current, peak (per amp.)	120			mA
Current, cont. (per amp.)	60			mA
Temperature range	-25		+85	deg. C
Input Range (X & Y Defl.)			+/-5	V
Beam Ref. Input Range	0		+15	V
Primary Gain (8 of 16 in octupole)		20.0		
Secondary Gain (8 of 16 in octupole)		8.27		
Stigmator Gain		5.00		

Related Equipment

- ◆ RBD 147 System Interface Unit
- ◆ RBD 147 Cable Kit
- ◆ RBD Model 21V
- ◆ PCMap1 Interface Card
- ◆ RBD AugerScan Software
- ◆ RBD AugerMap Software
- ◆ RBD 147 Software Driver
- ◆ ScanMap1 Installation Manual

RBD Model 110 System Diagram with ScanMap1

