LEO COMPUTERS LTD.

GENERAL DETAILS OF LEO II

Number Base	Binary	Mode	Serial
Pulse Rate Frequency	Computer - 525 Kilocycles	Store and buffers - 2.1 Megacycles	
Word Length	Short - 18 Bits + sign (40 microseconds) Long - 38 Bits + sign (80 microseconds)		
Instruction Type	Single address - 19 Bits - 32 basic actions of which 16 are modifiable.		
Quick Access Store	Mercury delay - 2048 short words with 160 microseconds access and immediate access for 14 long words.		
Auxiliary Internal Storage	Magnetic drums - maximum of 4 drums, up to 65,536 words Average access - 5.48 milliseconds		
Arithmetic Unit	14 registers (including 3 modification registers) - Add and Subtract - 0.34 milliseconds Multiply - 0.6 to 3.5 milliseconds Divide - 3.5 milliseconds		
Input	4 channels (max.) (all buffered) - Punched card - 200 cards per minute Paper Tape - 200 characters per second Magnetic Tape - up to 8 decks - 100 inches per second.		
Output	3 channels (max.) (all buffered) - Printers - Hollerith 100 lines per minute Powers 300 lines per minute Card Punch - Hollerith 100 cards per minute Magnetic Tape - up to 8 decks, 100 inches per second		
Auxiliary Printing	Punch card operated electric typewriter - 7 characters per second.		
Miscellaneous	Automatic conversion and reconversion between binary, decimal, and sterling. Buffer storage to allow simultaneous input, output and computation, and transfer to and from magnetic drums and magnetic tape. Marginal checking facilities.		
Price	Varies according to equipment required; a complete installation, including ancillary and data preparation equipment, may cost between £90,000 and £150,000.		

February, 1958.