

120 series

Window on the Deep

3 channel thermal recorder

INTERFACE

Three channel interface with serial and parallel digital inputs as standard

SIMPLE

Intelligent Range-Adaptive-Gain gives repeatable, crisp high resolution images first time, every time

COMPATIBLE

Suitable for use with existing 3710 thermal paper

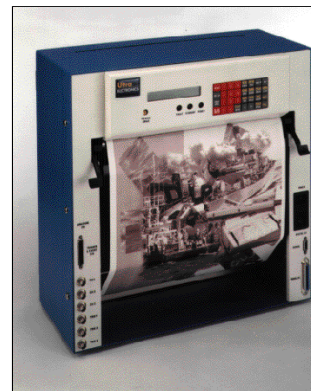
RUGGED

Sturdy, rack-mountable design

12" PRINT WIDTH

COMPENSATED TRUE GREY-SCALE PRINTING

Unique Ultra TRI-COMP technology provides compensation at all speeds, all temperatures and all grey levels across the full print width



Ultra
ELECTRONICS

innovation through experience

120 Series Specifications

PHYSICAL CHARACTERISTICS

Overall dimensions (upright)	443 mm high (17.45 inches), 430 mm wide (17 inches), 180 mm deep, (7.1 inches) excl feet
Weight	23kg (51 pounds), 19" rack mountable
Thermal Paper	100 metre roll, 315mm wide
Thermal Film	75 metre roll, 315mm wide

ENVIRONMENTAL

Operating Temperature	0 deg C to +50 deg C.
Storage Temperature	-20 deg C to +60 DEG C

PRINT CHARACTERISTICS

Print Width	12 inches
Line Spacing	200 lines per inch (200 dpi)
Horizontal Resolution	200 pixels per inch (200 dpi)
Pixels per line	2368
Maximum Print Speed	64 lines per second
Number of Grey Levels	From 16 to 256

PRINT COMPENSATION

Unique Ultra TRI-COMP technology provides compensation at all speeds, all temperatures and a grey levels across the full print width. Dynamic range on paper is 19dB, grey scale linearity is ± 1.5 dB, and density variations across the full print width are less than ± 1 dB. The use of thermal film increases the dynamic range to 23dB.

CONTROLS & INDICATORS

LEDs	Power on, Standby, Fault
Display	48 character alphanumeric LCD for all status and error messages.
Controls	Power on/off switch
Display Contrast Control	Pushbutton keypad to control all operations as follows: Reset, Test Pattern, On/Off line, Paper Advance, Status Printout, Load and Save current config., 1, 2 or 3 Channel Display, Event Marker and Annotation, Scale Lines, Paper Speed, Analogue Sensitivity, Contrast, Polarity, Print Direction, Int/Ext Trigger, Trigger Sensitivity, Sweep Time, Delay Time Setups are stored in non-volatile RAM.

DATA INTERFACE

Analogue Input	Three 50 ohm BNC Connectors
Input Impedance	1 Megohm
Input Sensitivity	500 mV to 10 Volts
Polarity	+, - or Bipolar
Protection -	100 Volts
Triggers Inputs/Outputs	Three BNC trigger input (TTL) plus trigger and event I/O on 25-way 'D' connector
Input Impedance	1 Megohm
Input Sensitivity	500 mV to 10 Volts
Input Protection	30 Volts
Digital Inputs	RS232/422 and Centronics fitted as standard allows real-time data transfer plus printer remote control and annotation inputs.
IEEE-488/GPIB interface	(optional) allows real-time data transfer plus printer remote control and annotation input.

POWER SUPPLIES

	90/132 Volts or 180/264 Volts
	AC 47Hz to 63Hz

OPTIONS

	OTHER digital interfaces, including custom/non standard all available. Call for information.
	A ruggedised transport case incorporating first-line spares available as an option.
	Detailed technical specifications for the above mentioned equipment can be provided on request.



Ultra Electronics Limited Ocean Systems
Waverley House, Hampshire Road
Granby Estate, Weymouth, Dorset DT4 9XD
Tel: +44 (0) 1305 784738 • Fax: +44 (0) 1305 777904

