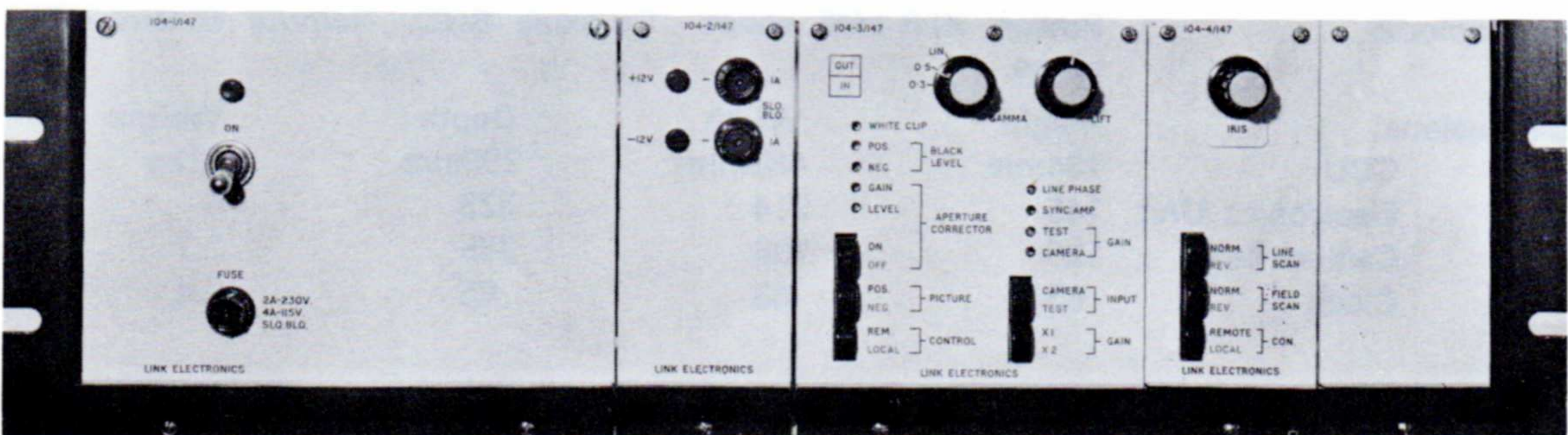


The type 104 television camera is designed for use as a caption or telecine camera, or as a non-viewfinder camera for use in remote unattended studios. It is designed to full broadcast standards and is the same basic channel as used in the type 103 studio/O.B. camera. This simplifies spares stocking and maintenance where the 103 and 104 cameras are used together.

30mm lead oxide picture pick-up tubes are normally used but versions can be supplied to accept 25mm tubes of the Vidicon, Lead Oxide, Silicon Diode Array target or other similar types.

The camera channel is constructed in three parts. The compact camera head, which carries the yoke and tube assembly and the head amplifier only. Secondly, the camera head electronics unit, which carries the scan generators, etc.; this is coupled to the camera head by a short cable. Thirdly, the camera control unit and power supply. This may be up to 600 metres from the electronics unit. A phase servo loop corrects the timings automatically for different camera cable lengths.

With the Plumbicon tube some form of light control is necessary, and where the scene illumination is not controlled a servo iris system is usually fitted to the camera lens. Lens details should be supplied if the servo is required.



# LINK

ELECTRONICS

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Cables: LINKELEC ANDOVERHANTS



## Features:

- ★ Multi way socket on camera head makes provision for servo controlled iris.
- ★ Compact camera head.
- ★ Plug-in printed cards for fast maintenance and simple spares holding.
- ★ Level dependent aperture correction and gamma correction.
- ★ Optional remote control panel for main channel functions.
- ★  $\frac{1}{2}$ " (13mm) dia. camera cable.
- ★ Optional tube hours counter.
- ★ Video output at camera head for local monitors.
- ★ Excellent long term stability for full "hands off" operation.

## SPECIFICATION

Power:	230V $\pm 10\%$ (115V $\pm 10\%$ to order).			
Pulses:	Bridging. Mixed syncs and blanking. 0.7 to 6 volts negative going.			
Outputs:	Two. Each 1 volt composite from 75 $\Omega$ . Each may be independently wired comp or non-comp.			
Resolution:	Using 30mm tube, approx. 40% at 400 lines. With aperture correction, 100% at 400 lines.			
Signal/Noise:	RMS noise typically -45dB on 0.3 $\mu$ A peak signal.			
Geometry and Linearity:	1% zone A, 2% remainder. No rapid changes.			
Gamma correction:	Switchable between unity, 0.5 and 0.3.			
Aperture correction:	Level dependent phase equalised aperture correction to +10dB at 5MHz.			
Channel gain:	Sufficient to give 1 volt output for 0.1 $\mu$ A signal current. Built in calibration sawtooth generator for line-up purposes. XZ gain switch on CCU.			
Scan generators:	Adjustable $\pm 10\%$ ; reversible at CCU.			
Polarity and Clipper:	Pos./Neg. switch at CCU. Clipper adjustable to $\pm 25\%$ of peak white.			
Camera cable length:	600m max.			
Camera head cable length:	3m max.			
Camera tubes:	30 or 25mm Plumbicon or Vidicon type, to order.			
Lenses:	A wide range of lenses is available to suit most requirements, with servo iris control when required.			
Camera Control Unit:	Rack mounting, $5\frac{1}{4}$ " of 19" rack. Carries day to day line up and operating controls which may be removed to a remote control panel: Lift, Iris, Pos./Neg. and scan reversal switches.			
Connectors:	Power: XLR-LNE series. Co-axial: BNC. Remote control: 'D' range.			
Dimensions:	Height	Width	Depth	Weight
CCU	134mm	483mm	299mm	11kg
Electronics Unit	146	214	328	6
Camera head	125	106	265	2.7
Clock	63	63	65	0.4