European and American Television Cameras

Make	**Norelco**
Model	**PC-100 (A)**
Country	**USA**

Camera Type :
Studio Colour full facilities

Camera Description :
Low profile camera body with the tubes in a horizontal array, robust magnesium alloy castings with the viewfinder mounted on the top.

Data		Data	
Tube details	3 x Plumbicons 25mm.	Line standards	525/60
Lens details	Zoom	Colour standards	NTSC
Sig. to Noise	50dB.	Drives or locking	B&B or free run.
Sensitivity	1000LUX f2.8	Weight *	33.5Kg. V/F 8Kg. Lens 18Kg.
Resolution	40% @5Mhz*	Colours	Light grey with black trim
Viewfinder	7" tilts, swivels, elevates & detaches	Dimensions *	300H x 430W x 560L mm.
Camera cable	Triax to 1 mile and TV36	Date introduced	1970 (NAB)
Power supply	115/230Vac. 47-63Hz. 500watts		

*Excluding Lens & Viewfinder

Associated equipment
The CCU was a 4U high rack mounting unit with two rows of plug in modules, similar to that used on the LDK25 and LDK15 cameras. A 2U high cable power supply unit provides 100VDC to run the camera. The control panel was also a 19inch rack unit similar to the one used on the PC-72 camera.

Features
The Philips LDK5 family of cameras had unusual internal mechanical drive shafts for the lens, the focus control, seen above, connected to the lens via a spline socket and the lens just lifted off the camera with no messy cables! There was a similar arrangement on the other side of the camera for the zoom control.

PC-100 control console

General description

References
A paper presented at NAB March 1969, The Philips PC-100 camera.
"Television Broadcasting Camera Chains" page 85 & 190 by Harold Ennes 1971 Sams. Product Brochure.
"Philips Broadcast Cameras" edited by Richard Ellis.
"SMPTE" Journal Vol. 82 July 1973 page 547-551. Detailed description.

Innovations
It is thought that the camera Triax and digital control systems were based on the earlier PCP-90 portable camera design by CBS.

History

Notes
The PC100 camera system was relatively expensive and in 1969 a new specification was written leading to the production of the LDK5 camera.