


European and American Television Cameras

	Make	Philips & Norelco
	Model	PCP-90 (u)
	Country	USA
	Camera Type : Portable colour camera Camera Description : Tall shoulder carried portable camera with self contained radio backpack.	

Data	Data
Tube details 3 x Plumbicons 25mm.	Line standards 525/60 & 625/50
Lens details Canon 6 to 1 of Angenieux 10 to 1	Colour standards NTSC & PAL
Sig. to Noise 42dB. in Y channel, 5Mhz. Bandwidth	Drives or locking Genlock
Sensitivity 125 –250 ft. candles	Weight * 18.5lbs camera 32lbs backpack
Resolution 400 lines 100% in picture center.	Colours Gray
Viewfinder 3" with magnifying lens	Dimensions * 430H x 108W x 430L mm.
Camera cable Radio or Triax to 1 mile	Date introduced 1968 (drawings)
Power supply 117Vac @ 400W + 24Vdc @ 3A. head	

*Excluding Lens & Viewfinder

Associated equipment

Camera Backpack, battery and transmitter, 14.5Kg. Local Plug in control panel. Large portable base station in two stackable flight cases. There were also interface backpack units to enable the camera to work to PC-70 and PC-100 camera control units.

Features

Fully self contained radio linked operation with digital control of the camera system using 57bit words. 9 start bits, 24 bits data and 24 bits parity. A Radio range to 10 miles line of sight was claimed.

General description

This camera was very advanced for the period with digital controls, triax, radio linking, but a very big camera with a backpack and battery that had a radio link back to the command and control equipment. The outgoing vision was on a microwave frequency of 2Ghz, 7Ghz. or 13Ghz. were options. The control of the camera was on a 950Mhz carrier with various sub carriers. Triax cable could be used in areas unsuited to radio signals.

References

Philips & Norelco Brochures.
 "Television Broadcasting Camera Chains" by H. Ennes, 1971, Samms.

History

This PCP-90 camera was developed by CBS laboratories and was manufactured and marketed by Philips who branded it Philips, Norelco, Pye and possibly Peto Scot for different markets. It was probably the worlds first broadcast radio colour camera.

Notes

Philips dubbed this camera the "PCP-90 Minicam" a relative term!



Base station control units

Used By

BBC Outside Broadcasts, who made good use of it on golf tournaments.