

Now, the Norelco PCF-701 Color Television Film Camera provides broadcasters with the advantages of the Plumbicon tube, establishing a new and heretofore impossible standard of color performance.

The 3-Plumbicon* Norelco PCF-701 brings to film chain operation the same outstanding features that distinguish the famous Norelco PC-70 studio and field camera.

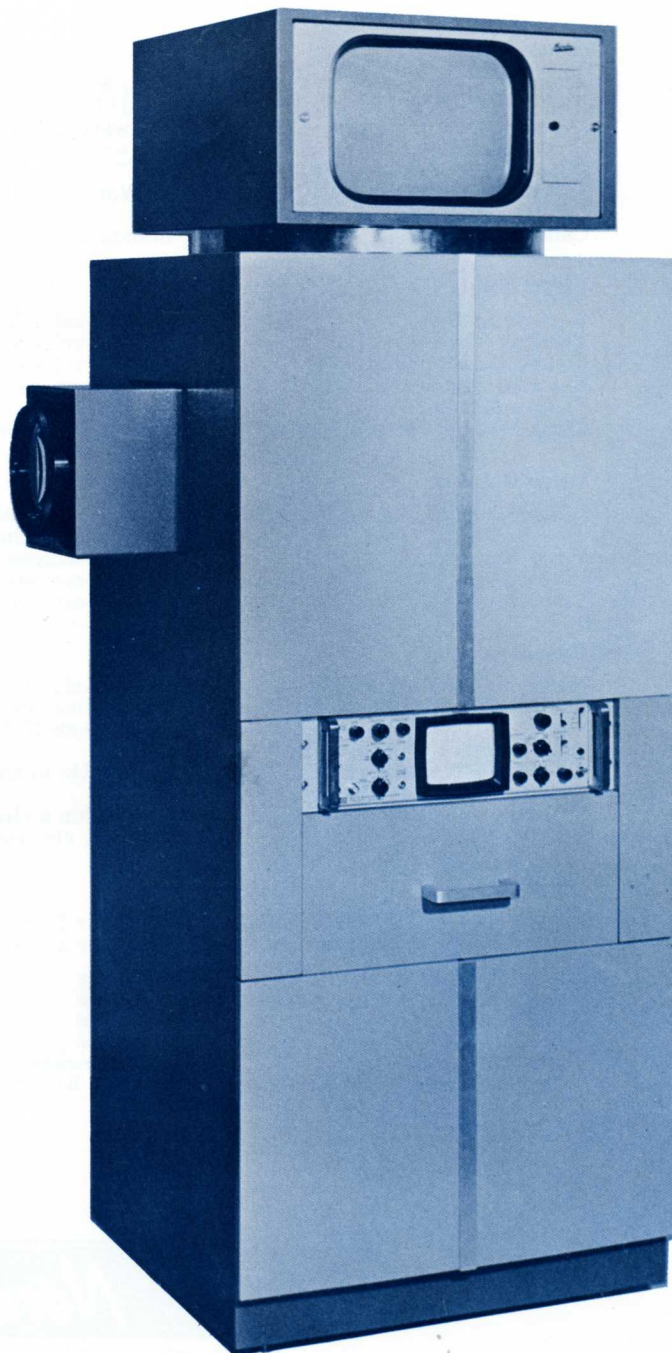
Emphasis on Simplicity, Convenience

- Plumbicon color, unequalled in television today. Linear transfer characteristics of the Plumbicon tube insure perfect color reproduction and tracking.
- Any or all electronics units may be removed from camera base and installed in rack or console.
- Most printed circuit board modules are interchangeable with the PC-70 camera chain.
- Built-in continuously variable neutral density light control disc is servo operated; located in common light path.
- Variable electronic gamma to match film base characteristics.
- Adapts to any projection and multiplexing system without external accessories.
- Sync pulse timing is compatible with monochrome systems. No external delays required.

The PCF-701 is a completely self-contained unit requiring Color Sync and driving pulses and AC input, and having 3 NTSC Color Composite outputs. Its rotatable picture monitor is at eye-level for ease of monitoring the picture, and the waveform monitor is visible on side of camera, providing for continual signal check.

Registration and operation panels are drawer-mounted below waveform monitor—convenient for set-up. A remote operations panel is available as an accessory.

*Reg. T.M. N.V. Philips of Holland



PCF-701 SPECIFICATIONS

General

Scanning System
A.C. Power Input less picture
and waveform monitors
Picture Monitor
(Conrac CLD - 14)
Waveform Monitor
Hewlett Packard 191A
Camera Cable

EIA, 525 lines, 60 fields per second or 625 lines, 50 fields per second
105-117-130 volts, 60 cycles, 375 watts or 210-234-280 volts, 50 cycles,
375 watts 180 watts
180 watts
70 Watts
Standard single cable TV 81N, 5 ft.

Video Inputs

Horizontal Drive
Vertical Drive
Composite Blanking
External Signal to
Picture Monitor
Cross-hatch to Picture Monitor

4.0 ± 2.0 volts negative peak-to-peak across 75 ohms
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0.7 volt non-composite across 75 ohms
0.7 volt non-composite across 75 ohms

Video Outputs

3 Video out

Video Red
Video Green
Video Blue

.7 volts non-comp. NTSC color signal across 75 ohms internal
strapping available to add sync to any and all outputs
.7V non-composite across 75 ohms
.7V non-composite across 75 ohms
.7V non-composite across 75 ohms

Picture Quality

Horizontal Resolution
Limiting Horizontal Resolution
Signal-to-Noise Ratio
(Peak signal to rms noise)
Amplitude Transfer
Characteristic
Scanning Linearity

100% modulation at 400 TV lines in Y channel
600 TV lines in center Y channel
Better than 42 db over 5 mc/s bandwidth in Y channel
Adjustable to any value between 0.45 and 0.95
.5% within a circle having a diameter equal to picture height; less
than 2% elsewhere

WEIGHTS AND DIMENSIONS

PCF-701 Self-Contained Color Film Camera
complete with picture monitor and waveform monitor

Height to top of cabinet	60 inches
Height to top of picture monitor	74 inches
Width of cabinet	26 inches
Projection for field lens	9 inches
Depth of cabinet	26-1/4 inches
Weight including PXM and WFM	Approx. 375 lbs.



Data subject to change
without notice
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270K5M
Printed in U.S.A.