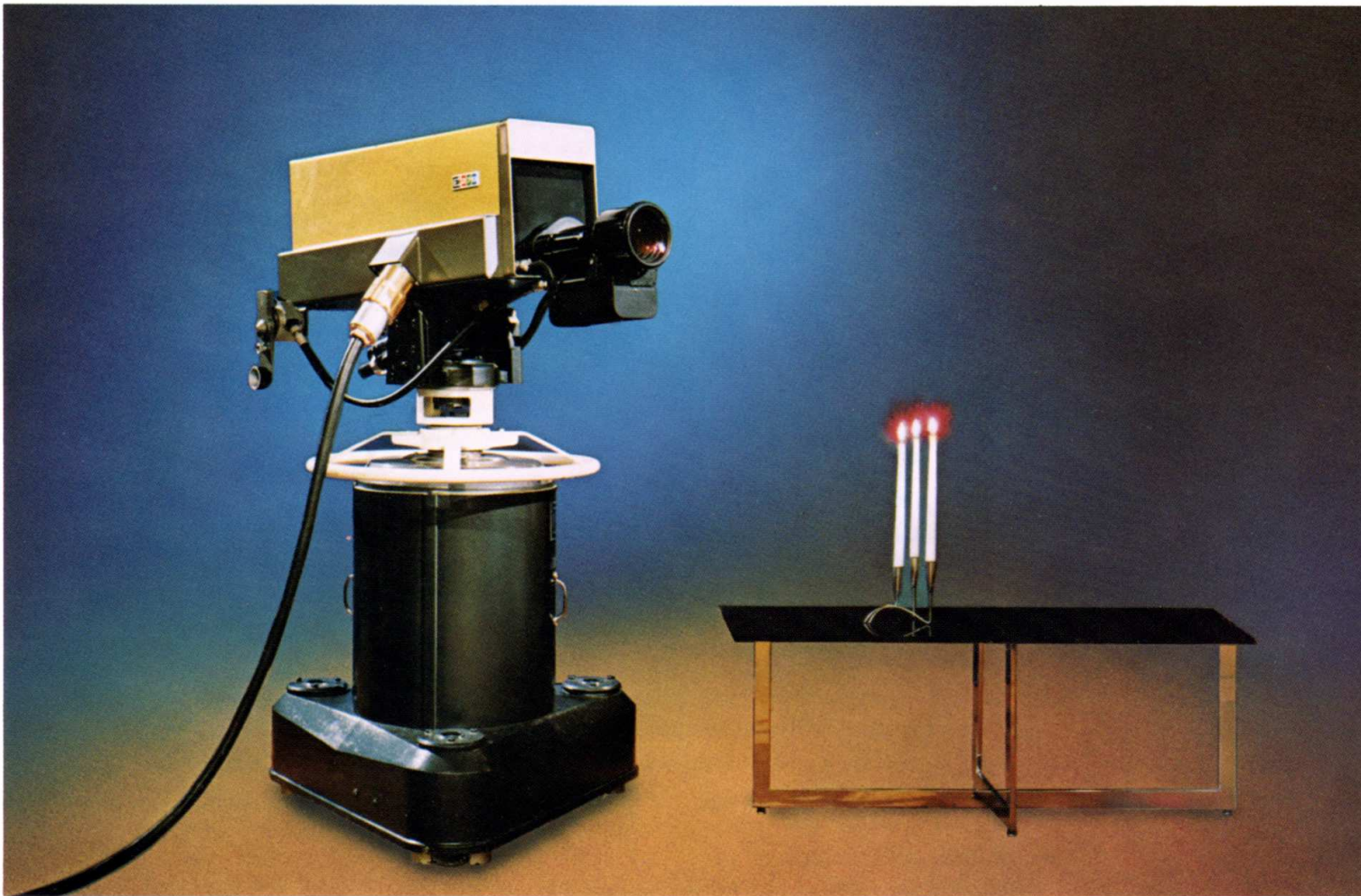


**BROADCAST
COLOR
TELEVISION CAMERA**

CEI-270



The CEI 270 is a professional broadcast color television camera. Outstanding in sensitivity, stability and packaging, it offers twice the camera at half the cost. From the roughest inside remotes to broad daylight, the CEI 270 gets you where the action is!

The CEI 270 is capable of handling any lighting situation from 5 footcandles up, solving one of the most serious limitations with existing color cameras. This extra sensitivity is especially meaningful when doing remotes, where lighting is usually very poor and only controlled with cumbersome, obtrusive and costly lighting set ups. It's meaningful in the studio, also. Substantial savings in lighting and air conditioning costs can be realized with the CEI 270.

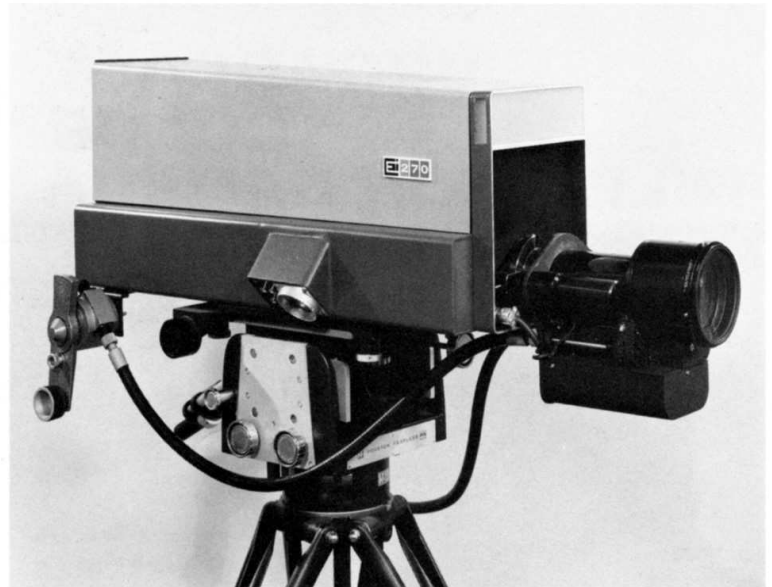
Outstanding stability is achieved through a sound mechanical and electronic design approach. A rugged tool plate optical bench, built to precision tolerances,

houses a factory adjusted, sealed optics system. High quality temperature-stable electronic components are used throughout the design to provide long-term performance stability. Just turn the CEI 270 on and its ready to work for you.

Accurate colors are inherent with the CEI 270 because of the wider spectral response of the SEC camera tubes. State-of-the-art beam splitting and signal processing, together with a fully adjustable matrix masking system, insure repeatability and camera matching.

The CEI 270 is a compact camera, yet it is designed for easy access to all mechanical and electronic assemblies. Over 90% of all electronic components are on plug-in modules. All set up controls and routine test points are front panel mounted. Extender cards for detailed board testing are self-contained.





Scanning Standards	525/60 or 625/50	
Resolution	Green channel with aperture correction, limiting 600 lines.	
Sensitivity & Signal-to-Noise Ratio	At f/4 with 5 footcandles incident light at 3200° K on 60% reflectance white, peak signal to RMS noise is better than 44 db over 4.2 MHz bandwidth with no aperture correction.	
Contour Enhancement	Contours-from-Green.	
Gamma	Adjustable from 0.4 to 0.7.	
Masking	Full RGB adjustable matrix masking insures accurate color matching while retaining white and black balance.	
Shading	Adjustable parabola and H and V sawtooth on each channel.	
Registration Controls	Height, width, H and V position; H and V linearity, parabola and H and V sawtooth on each channel.	
Viewfinder	Seven inch diagonal, high brightness (200 ft. lamberts with 50% transmission filter), high resolution, removable unit; adjustable viewfinder hood.	
Intercom	Two channels plus program.	
Camera Controls	Lens iris; focus and zoom; filter insertion (two 4-position wheels for neutral density and color correction, including one cap position); back focus; tally light defeat; local/remote iris selection.	
Remote Control Panel	Iris; R, G, B, Y and external picture and waveform selection; tally indicator; master on/off; intercom; horizontal phasing; R & B registration; R, G, B gain; master beam, pedestal and focus.	
Camera Tubes	Three Westinghouse WL-31683 pick-up tubes.	
Optics	Standard lens is Rank Taylor Hobson Varotal f/4, 28 to 280 mm zoom lens with iris servo. Extenders, close-up attachments and other lenses available.	
Outputs	NTSC composite and non-composite; color bars and white test signals provided. RGB, non-composite.	
Inputs:	Video: Non-composite program video may be routed to camera viewfinder, bridging input.	
	Pulses: Sync, blanking, subcarrier, horizontal and vertical drive, bridging inputs.	
Stability	No set up adjustments required after 20 minutes of operation for a period of 10 hours over temperature range $\pm 15^\circ$ F.	
Camera Cable	TV81 or TV81 mini-cable, CEI mini-cable.	
Mechanical Data	Camera head, less lens:	13"H x 12-1/2"W x 31-5/8"L 95 pounds
	Mounting:	Three 3/8-16 holes in sole plate. Built-in carrying handles.
	Remote Control Panel:	3-1/2"H x 19"W x 15"L 12 pounds
Power Requirements	105-125 volts, 60 Hz, 130 watts.	

Specification subject to change without notice.

www.tvcameramuseum.org



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