

# TAYLOR- HOBSON

## VAROTAL III



### Varotal III

New concepts in optical design together with the manufacture of precision aspheric glass components have combined to produce a revolutionary new variable focal length zoom lens, the Varotal III, for versatile use in studios or on remotes.



# FEATURES

- ★ Unique dual range change from 4"—20" to 8"—40" by means of a small lever on the lens—without change of rear element or loss of picture focus.
- ★ Definition of same high quality as proved in the Varotal II intended for studio use and equal to the best produced by any fixed lens.
- ★ Fully colour corrected and equally good on both colour or monochrome cameras.
- ★ Absolutely no error in focus throughout entire zoom range of 4"—40".
- ★ Minimum object distance whilst holding true zoom reduced to 12 feet.
- ★ Fool-proof combined operators controls for ease of installation and operation.

	RANGE A	RANGE B
Equivalent focal length .. .. .	102 mm. to 508 mm. 4 in. to 20 in.	203 mm. to 1016 mm. 8 in. to 40 in.
Number of lens elements .. .. .	13 (8)	
Format covered .. .. .	Diagonal Nominally 40.0 mm. 1.6 in.	Frame 32 mm. × 24 mm. 1.26 in. × 0.95 in.
Maximum format covered .. .. .	45.7 mm. 1.8 in. diagonal	
Angular fields for 1.6 in. diagonal picture		
Diagonal .. .. .	23° to 4.5°	11.5° to 2.3°
Horizontal .. .. .	18° to 3.6°	9.0° to 1.8°
Clear aperture of front glass .. .. .	127 mm. 5 in.	
Clear aperture of back glass .. .. .	76.2 mm. 3 in.	
Optical back focal distance Mechanical clearance between rear of lens and focal plane .. .. .	to suit cameras	
Relative aperture .. .. .	<i>f</i> /4	<i>f</i> /8
<i>f</i> /stops engraved .. .. .	4—5.6—8—11—22—32	
Total angular rotation of iris ring .. .. .	87½° (14½° per stop)	
Minimum object distance .. .. .	12 feet from front of lens	
Nett weight of lens only .. .. .	33 lb.	
Nett weight of lens and transit case .. .. .	68 lb.	



DATA SHEET TV 20/360

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