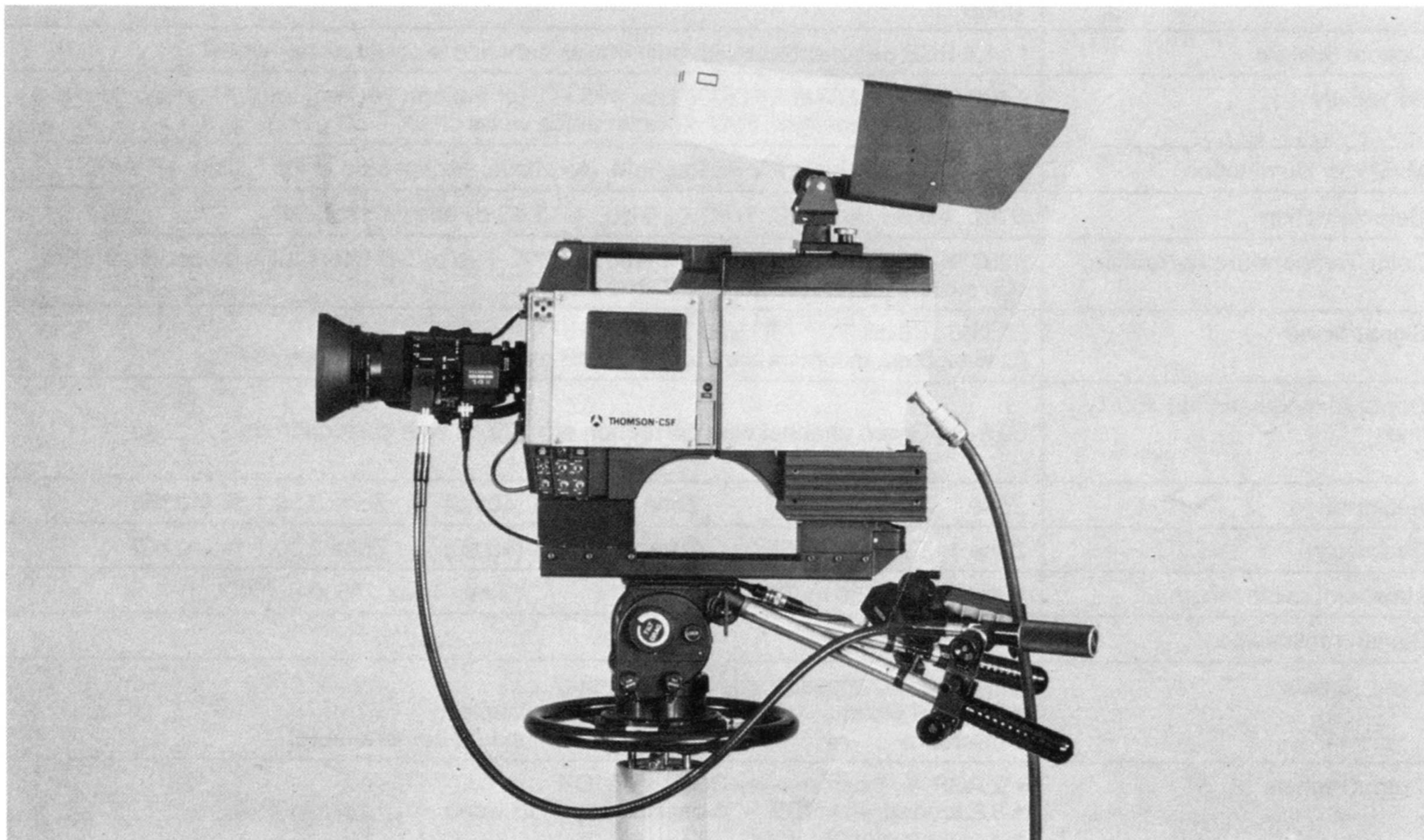


TTV 1525pc

Portable companion color camera



The TTV 1525pc is a lightweight camera head which combines the advantages of TTV 1525c and TTV 1624 features to realise a Portable Companion camera head to work with either existing or new TTV 1525c Studio/OB camera systems.

The TTV 1525pc is intended to satisfy the need for a lightweight camera head for use in production situations where it is difficult or impossible to use a standard camera head as a result of inaccessible location, confined space, or the need for exceptional camera mobility or hand-held shots. Operational control panel compatibility is maintained with the full-size TTV 1525c camera head.

The main features are :

- Lightweight : only 11.8 kg complete
- Excellent operational and engineering compatibility with TTV 1525pc studio/OB camera
- Uses standard TTV 1525c CCU and control panels
- Triax cable connection to TTV 1525c CCU
- Uses standard CA 1624 camera head with CA 73 rear module.
- No separate interface adapters
- Automatic Setup
- Independent contours out of red as well as green (option)
- Gives ultimate production flexibility

A TTV 1525pc camera integrates perfectly with TTV 1525c cameras working in the same system. Both the central Engineering Setup panel and Operational control panels used in a standard TTV 1525c system are compatible with the TTV 1525pc camera head.

The CA 73 rear module for the TTV 1623/1624 which realises this configuration is transparent to the control system ; the presence of the Studio/OB or Portable Companion camera head is automatically detected to optimise the control system for each camera to avoid operational inconsistencies which are unavoidable when a traditional EFP camera configuration is used as a portable companion camera. The comprehensive

setup, memory and diagnostic capabilities of the Central Engineering Setup panel (RIM 1525) and associated Memory and Display unit (VIM 1525) are retained.

The TTV 1525pc is a very cost-effective camera, particularly if TTV 1624 and TTV 1525c cameras are already in service. In this case only the CA 73 rear module is required to realise this important production tool.

ACCESSORIES

A full range of accessories is available for the TTV 1525pc camera including Headsets; Dust and Rain covers; Microphones; Test Charts and support equipment. Some specific accessories/options are listed below:

VE 1624 5.5 inch (14 cm) Viewfinder

This high brightness, high resolution viewfinder mounts on the CA 73 camera rear module. The superior performance reduces operator strain during extended operation while mounted on a tripod.

The 1.5 inch ENG viewfinder is supplied as standard equipment with the TTV 1623/1624 camera heads.

Lenses : (non-exhaustive list)

Any lens used on any other TTV 1623/1624 configuration may be used with the TTV 1525pc. However, to utilise the automatic setup system a lens equipped with a diascope is necessary. The same pattern as that used by the TTV 1623/1624 cameras with CA 33, 43, 53 and 63 rear modules is used thus maintaining equipment compatibility.

Angenieux	14 × 9
Canon	13 × 9, 14 × 8, 18 × 9
Fuji	14 × 9, 18 × 8.5

These lenses are available in Full servo, Semi-servo and Manual versions. Pan-bar control kits also available. New lenses will be introduced as they become available. Studio/OB lenses for TTV 1530 camera may be used (with support plate) with the TTV 1525pc.



THOMSON VIDEO EQUIPEMENT

TYPICAL PERFORMANCE CHARACTERISTICS

Transmission Standard	525/60 NTSC; 625/50 PAL, Secam
Tubes	2/3-in LOC Diode Gun, magnetic focus, magnetic deflection, Plumbicon® or Leddicon® (With TTV 1624) 2/3-in Triode Gun, static focus, magnetic deflection, Plumbicon® or Saticon® (with TTV 1623)
Optical System	f : 1.4 RGB beam-splitter with built-in bias-light and 4-position filter-wheel
Sensitivity	1400 Lux (130 FC) at f:4 (2000 Lux, 185 FC, for Saticon version) for 0.7 V video output. (3200 °K incident light, 89.9 % reflectance white chart, 0 dB gain.)
Minimum Illumination	22 Lux (2.0 FC) for 0.7 V video output. (As above, except lens at f:1.4, gain + 18 dB)
Gain Selection	0 dB, + 9 dB, + 18 dB. (0 dB, + 6 dB, + 12 dB by special request)
Color Temperature correction	3200°K, 5600°K, 5600°K + 1/4 ND, 5600°K + 1/16 ND filters, plus electronic correction system 2500°K to 10,000°K in 8 steps.
Signal/Noise	525/60 : 58 dB 625/50 : 57 dB (Unweighted, in luminance channel, 0 dB gain, correction signals off)
Depth of modulation at 400 TV lines	50 % in Green channel with correction off; 100 % with correction on.
Registration	Zone 1 : 0.05 % (20 nS) Zone 2 : 0.1 % (40 nS) Zone 3 : 0.1 % (40 nS)
Geometry	Zone 1 : 0.1 % (40 nS) Zone 2 : 0.1 % (40 nS) Zone 3 : 0.1 % (40 nS)
Maximum cable length	9 mm Triax : 750 m (2500 ft) 13 mm Triax : 1500 m (5000 ft)
Signal transmission	Wideband RGB
Input signals	<ul style="list-style-type: none"> • Genlock : composite video. (Loop input) • External video • Program audio • Intercom • Microphone (at camera head)
Output signals	<ul style="list-style-type: none"> • 2 RGB + 1 chroma-key RGB video, OR • 3 Encoded + 1 RGB + 1 chroma-key RGB video • 1 picture monitor video • 1 waveform monitor video • 1 microphone audio
Power requirement	110/120 V 60 Hz or 220/240 V 50 Hz, 280 W
Viewfinder	14 cm (5.5 in.) or 1.5 in. monocular

Physical	Camera head	CCU	Switching matrix	Central control panel	Operational control panel
Dimensions (L x W x H/W x H x D)	442 x 100 x 340 mm 17.5 x 4.3 x 13.4 in	480 x 220 x 475 mm 19 x 8.75 x 18.7 in	480 x 220 x 500 mm 19 x 8.75 x 19.7 in	380 x 140 x 420 mm 14.9 x 5.5 x 16.5 in	115 x 190 x 370 mm 4.5 x 7.4 x 14.6 in
Weight	11.8 kg (26 lb)	24 kg (53 lb)	16.5 kg (36 lb)	3 kg (6.6 lb)	5.2 kg (11.5 lb)
Environnement : Temperature Humidity	- 20/ + 45°C (note 1) - 4/113°F RH 95 % non-cond.	0/ + 45°C 32/113°F RH 95 % non-condensing			

Notes : 1) Zone 1 = circle 0.8 picture height ; Zone 2 = circle diameter equal to picture height ; Zone 3 = remainder of picture.
2) Ambient still-air shade temperature.

www.tvcameramuseum.org

® Leddicon is a registered trademark of English Electric Valve Company
® Plumbicon is a registered trademark of Philips
® Saticon is a registered trademark of Hitachi.

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