

HDTV/EDTV



1250

PROSCAN.LIGHT



**THOMSON VIDEO EQUIPMENT**

THE IMAGE OF PROGRESS



EXTENSIVE EXPERIENCE IN THE BROADCAST CAMERA FIELD IS BEHIND RECENT DEVELOPMENT BY **THOMSON VIDEO EQUIPEMENT** OF TWO ADVANCED **HDTV/EDTV** CAMERAS: THE **HD 1250 PROSCAN**, WHICH IS SPECIFICALLY DESIGNED FOR VIDEO PRODUCTION EITHER IN THE STUDIO OR IN OB APPLICATIONS, AND THE **HD 1250 LIGHT**, WHICH IS A PORTABLE VERSION SUITED TO CINEMA OR VIDEO PRODUCTION. BOTH CAMERAS DELIVER HIGH QUALITY PICTURES WITH TWICE VERTICAL RESOLUTION OF STANDARD INTERLACED AND EXTENDED HORIZONTAL RESOLUTION. OPTIMISED VIDEO PROCESSING RESULTS IN VERY CLEAN, PINSHARP PICTURES AND EXCELLENT REPRODUCTION OF CONTRAST AND COLOUR.

## HD 1250 PROSCAN

The HD 1250 Proscan is a full facility HDTV/EDTV camera. An automatic setup system associated with a dynamic lens distortion correction facility provides accurate adjustments of the registration and the geometry.

- designed to be used in 2 modes :  
interlaced scanning 1250/50/2/1 or 1050/59.94/2/1  
progressive scanning 625/50/1/1 or 525/59.94/1/1
- switchable 16/9 and 4/3 aspect ratio
- full auto setup with lens distortion correction
- Flexibility of operation :  
individual or centralized
- RGB and components outputs
- full talkback facilities.
- 7" high resolution and high brightness viewfinder



## 1 st HD TRIAX

AFTER PIONEERING TRIAX CONNECTIONS FOR BROADCAST CAMERAS IN 1970, THOMSON VIDEO EQUIPEMENT TODAY IS THE FIRST COMPANY TO INTRODUCE TRIAX TO THE WORLD OF HIGH-DEFINITION TELEVISION. THE NEW HDTV TRIAX LINK ALLOWS FOR FULL QUALITY TRANSMISSION OF HIGH-DEFINITION PICTURES OVER DISTANCES OF UP TO 1500 M, THEREBY OFFERING USERS THE FREEDOM THEY NEED TO PRODUCE VARIOUS TYPES OF HIGH-DEFINITION PROGRAMS.





## HD 1250 LIGHT

The HD 1250 Light is a portable, lightweight EDTV/HDTV camera suitable for cinema or video production. The HD 1250 Light is the ideal portable companion to the HD 1250 Proscan, and can also be used as a portable single camera. The HD 1250 Light is operated with an intermediate back-pack installed between the camera head and the camera control unit.

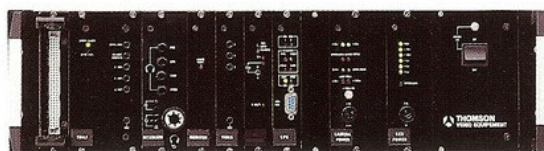
- ergonomic design
- compact and lightweight
- flexibility of operation : individual or centralized
- RG Band components outputs



BOTH CAMERAS USE THE SAME CAMERA CONTROL UNITS AND REMOTE CONTROL PANELS. THE COMPATIBILITY OF THE REMOTE CONTROL PANELS AND THE CAMERA CONTROL UNITS THROUGHOUT THE RANGE ENABLES THOMSON VIDEO EQUIPMENT TO OFFER USERS THE FREEDOM THEY NEED TO CONCEIVE AN ENTIRE SYSTEM ADAPTED TO SPECIFIC NEEDS.

## BASE STATION

- RGB, components outputs.
- RGB or components chromakey out put
- Rack mountable 19" 3U
- HD triax



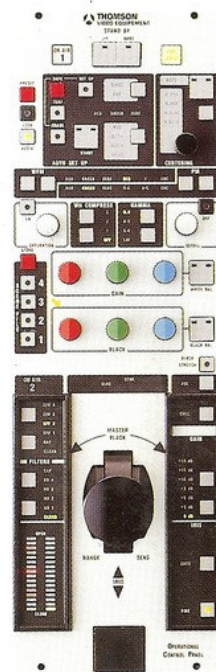
- **MCP** (Master Control Panel)  
For multi-camera operation the MCP ensures central control of all set-up functions.



- Control of up to 64 cameras
- 8 studios and "32 scene file" management.

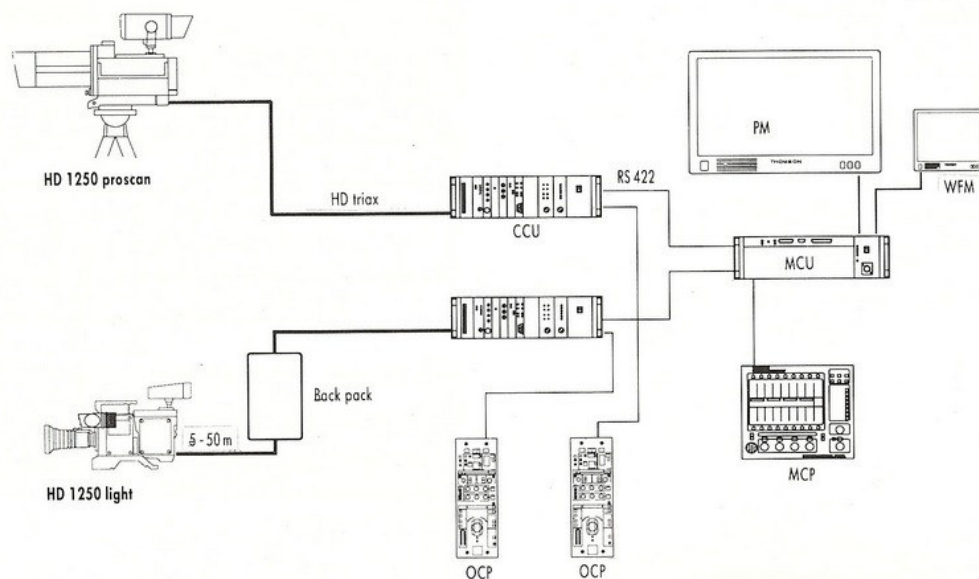
## ■ OCP (Operational Control Panel)

- Joystick control of iris and master black
- Full painting facilities
- Monitoring
- Filters, gamma, white compress selection
- Detail control





# SPECIFICATIONS



## CAMERA HEAD

### Standard

Interlaced scanning  
1250/50/2/1 or 1050/59.94/2/1  
Progressive scanning  
625/50/1/1 or 525/59.94/1/1

### Sensor

3 2/3" SATICON® tubes, diode gun, LOC.

### Optical system

f/1.4 RGB beam splitter with integral quarter wave filter.

### Filter wheels

Neutral density: clear, 1/2, 1/4, 1/8, 1/16, cap.  
Special effects: clear, day, star 4, star 8, center focus, fog.

### Sensitivity

2200 Lux at f/4 (90% reflectance)

### Minimum illumination

70 Lux, lens at f/1.4 and gain 12 dB.

### Signal noise ratio

625/50/1/1 - 47 dB (15 MHz bandwidth)  
1250/50/2/1 - 43 dB (20 MHz bandwidth)

### Depth of modulation

40% green channel at 13.7 MHz

### Registration

Zone 1: 0.05%, zones 2 and 3: 0.1%

### Geometry

Zone 1: 0.1%, zones 2 and 3: 0.2%

### Weight

HD 1250 Proscan: 28 kg approx - HD 1250 Light:  
5.5 kg approx/Back-pack: 8 kg approx

### Sizes L x W x H mm

HD 1250 Proscan: 460 x 250 x 380  
HD 1250 Light: 276 x 120 x 280  
Back-pack: 260 x 130 x 430

### Environment temperature

-20°C + 45°C

## CCU

### Power requirements

AC 100/120 V - 60 Hz; AC 220/240 V - 50 Hz

### Power consumption

Max 150 W

### Operating temperature

-20°C + 45°C

### Weight

14 kg approx.

### Sizes

19" 3U

### Input signals

Genlock (loop through)  
Return video (loop through)  
Mix video  
Program audio

### Output signals

1 RGB  
1 RGB/Y(R-Y)(B-Y)  
1 RGB/Y(R-Y)(B-Y) for Chromakey  
2 Picture Monitor (R, G, B, Y, R-Y, B-Y)  
2 Waveform monitor (R, G, B, Y, Seq)  
2 Staircase  
1 mic

### Others

Double intercom (RTS/2 W/4 W)  
On air 1 & 2  
RCP/MCP  
Audio indication

### HD triax

Components transmission  
Y: 20 MHz  
Cr, Cb: 7 MHz

## VIEWFINDER

HD 1250 Light: Viewfinder 1.5" or 5.5".  
HD 1250 Proscan: Viewfinder 7"

## LENSES

### EFP LENSES (2/3")

- Angenieux: 14x8, 14x9
- Canon: 14x8, fixed focus: EJ6, EJ10, EJ24, EJ35
- Fujinon: 14x8

### STUDIO LENSES (2/3")

- Angenieux: 15x6,5; 20x8,5; 40x9,5
- Canon: Super 16x8; super 20x7,5, Super 55x9,5
- Fujinon: 15x8, 18x8, 20x7, 34x20,5, 44x9,5, 55x9,5

www.tvcameramuseum.org