



EMI ELECTRONICS LTD

Serving Science and Industry

INSTRUMENT DIVISION



Television Camera Type 8

Television has many valuable uses in commerce, industry, science, medicine and education. With the development of the type 8 camera, which can be used with standard receivers, EMI has broken the price barrier thus making available to all the far reaching advantages offered by closed circuit systems.

Type 8 is a completely self-contained television camera: to use it one has simply to connect to a.c. mains (or a 12 volt car battery) and plug the cable into the aerial socket of a receiver—there are no other connections. The camera is very versatile as it weighs only 10lb (4.5Kg) and can be used at a distance of up to one-fifth of a mile (0.3Km) from the receiver without loss of picture quality. Type 8 has very high sensitivity and resolution ; brilliant pictures are obtained under normal lighting conditions and additional lighting is only required where demanded by special applications. Standard accessories can be used and lenses are interchangeable ; the camera is supplied with a one inch (25.4mm) lens (f 1.9), wide angle and telephoto lenses are available as extras.

The latest techniques using all transistor circuitry have been employed to provide long life and low power consumption. Little servicing is required and the camera will work for long periods without adjustment. Type 8 embodies all the experience gained by EMI in producing a long line of studio and industrial cameras.

SPECIFICATION

The type 8 camera, a completely self-contained vidicon camera using transistors throughout, has been designed for industrial and commercial use and can be operated from a.c. mains or 12V d.c. batteries. The output at radio frequency is suitable for feeding a normal domestic receiver tuned to any channel in Band I. An alternative low level output at video frequency is available and this may be used to feed a suitable video monitor.

System

The camera can be supplied for operation in any one of the following systems: when ordering please state system required.

405 lines	50 fields positive modulation		<i>British Standard</i>
625 lines	50 fields positive modulation		<i>European and others</i>
625 lines	50 fields negative modulation		
525 lines	60 fields negative modulation		<i>North American</i>



Rear view of camera showing controls and connections

<i>Interlace</i>	Random
<i>Output</i>	Maximum distance of cable between camera and receiver: At r.f. — 1000 ft (300 m) At video — 100 ft (30 m)
<i>Bandwidth</i>	5 Mc/s
<i>Sensitivity</i>	With a scene illumination of 10 ft candles (assuming 50% subject reflection) and lens aperture of f 1.9 a normal contrast picture is obtained.
<i>Power Supply</i>	100—120 V a.c. 50 or 60 c/s 200—250 V a.c. 50 or 60 c/s 12 V d.c. Consumption 15 watts Battery drain 1 amp.
<i>Dimensions</i>	11 x 7 x 5 in (28 x 18 x 13 cm)
<i>Weight</i>	10 lb (4.5 Kg)
<i>Finish</i>	Grey and two-tone green
<i>Lenses</i>	The camera when supplied is fitted with a 1 inch f 1.9 lens. A standard C mount is used enabling other lenses to be fitted if so desired.
<i>Working Temperature</i>	0°—38°C (32°—100°F) ambient
<i>Camera Mounting</i>	A ¼ inch Whitworth bush is provided in the base for mounting the camera to a tripod.
<i>Optional Extras</i>	These include camera tripod, remotely controlled pan and tilt head and special types of housing such as weatherproof and dustproof (these are usually supplied to order).
<i>Price</i>	Includes lens and vidicon camera tube.

The Company reserves the right to modify these designs and specifications without notice



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