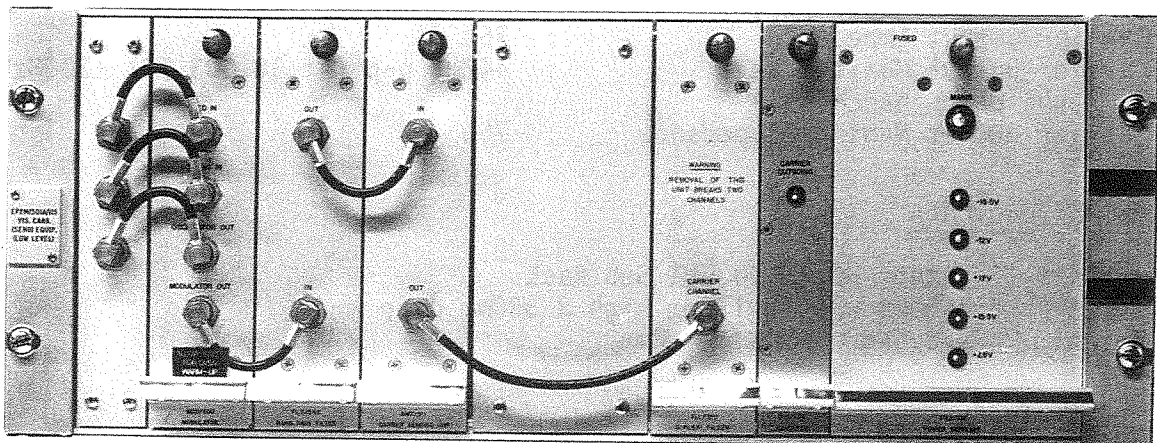




Vision Carrier Sending Equipment EP2M/501 and 501A



This Equipment is used in conjunction with the Vision Carrier Receiving Equipment EP2M/502 or 502A (see EDI Sheet No.10260) to provide a second vision circuit on an existing unrepeated coaxial cable, which has already been equipped for baseband or video operation. The second video signal is amplitude modulated on to a 10MHz carrier and then combined with the existing baseband circuit in a diplexing filter, before feeding to the cable. The direction of transmission of the baseband circuit can be opposite to that of the carrier if required.

Two versions are available: The EP2M/501 which provides a high level carrier output suitable for use on cables with high attenuation, e.g. up to 7.5km of 9.5mm cable and the EP2M/501A which provides a lower level signal for use on circuits with less attenuation, e.g. up to 5km of 9.5mm cable.

To facilitate maintenance the EP14M/506 Vision Carrier Test Equipment has been developed (see EDI Sheet No.10271). This is essentially a reference modem which can be switched to provide various performance checks. The Test Equipment can also be used operationally to monitor the outputs of up to 10 Sending Equipments by remote selection.

This information is for use within the BBC only and must not be disclosed in any way to a third party.

PERFORMANCE DATA

Baseband circuit

Similar to performance without carrier equipment

Carrier Sender

Video Input Level : 1V p-p
Video Input Impedance : 75Ω
Locking Input and Output Levels : 225mV p-p (at 10,003,931 \pm 200Hz)
(Optional facility)
Locking Input and Output Impedances : 75Ω
Carrier Output Level EP2M/501 : 7V p-p (at 10,003,931 \pm 200Hz)
(On chrominance bar)
Carrier Output Level EP2M/501A : 1.25V p-p (at 10,003,931 \pm 200Hz)
(On chrominance bar)
Carrier Output Impedance : 75Ω
Carrier Output Monitor Level : 442mV p-p (at 10,003,931 \pm 200Hz)
(On chrominance bar)
Carrier Output Monitor Impedance : 75Ω

MECHANICAL DATA

Chassis : Imhof Bedco 4U CDX Sub Rack
Size : 483mm wide x 178mm high x 330mm deep
Weight : 12.5kg

INSTALLATION DATA

Power Requirement : 240V \pm 20V a.c. mains : 55 watts for EP2M/501;
30 watts for EP2M/501A.
Sub-units contained : AM7/510 (for EP2M/501) or AM7/511 (for EP2M/501A),
FL1/520, FL2/545, IN6/506, MD2/509, PS2/131.
Connectors : Cannon XLR-LNE-32 (Power)
Painton 159 11 pin (Carrier Fail Indication: pins
5 and 9 short circuit)
Musa (Signals)
Chassis Extender : CH1A/39
Ambient Temperature : 0°C to 50°C
Range

For further information please refer to Designs Department Handbook No.
6.126(76) or contact A.R. English, Room 516, Western House, (PABX BH Extn.4692)