Original KW -Decca catalogue with Issue 478 1st March 1977 price list courtesy of David Shaw G4NOW.

Item lent for display at Cray Valley Radio Society ”local radio history” GB2CM exhibition stand at Crossness Museum (Abbey Wood, London SE2 9AQ**)** local history themed Steaming open days 31 Aug & 12 Oct 2014.

KW SEPARATES

KW 204 Transmitter

LSB, USB, CW and AM — Aux VOX available
Built-in Power Supplies — ALC
Silky Smooth Tuning — 180 watts PEP

SPECIFICATION KW204

Completely covers all amateur bands from 160 to 10 Metres in 500 KHz segments.

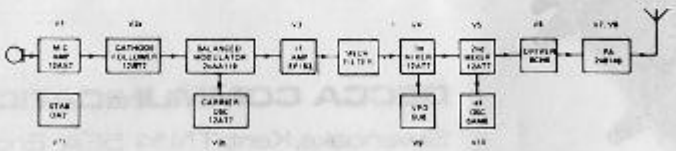
160 Metres - 1.8 - 2.3 MHz
80 Metres - 3.5 - 4.0
40 Metres - 7.0 - 7.5
20 Metres - 14.0 - 14.5 MHz
15 Metres - 21.0 - 21.5
10 Metres - 28.0 - 28.5
10 Metres - 28.5 - 29.0 MHz
10 Metres - 29.0 - 29.5
10 Metres - 29.5 - 30.0

Size: 13.9"W x 13.3D x 6.3H

Both Units can be used on SSB, CW or AM.

KW204 TRANSMITTER

Power Input:	SSB - 180 watts PEP CW - 150 watts AM - 75 watts
Power Output:	SSB - 100 watts nominal
Output Impedance:	52/75 ohms with SWR 2:1
Mic. Input	High Impedance
Freq. Response:	300-2500 Hz at 6 dB
Carrier Suppression:	50 dB
Unwanted Sideband:	45 dB
Third Order Distortion:	-30 dB
Power Requirement:	117 or 234v ± 5%. 45-65 Hz
Power Consumption:	Approx. 320 watts on transmit
Weight:	27 pounds



KW 204

Single Sideband Transmitter

FEATURES

* PANEL METER INDICATES PA CATHODE CURRENT OR RF OUTPUT VOLTS
* MECHANICAL FILTER FOR SSB
* BUILT IN ANTENNA SWITCHING
* SELECTABLE LOWER OR UPPER SIDEBAND
* TONE GENERATOR FOR CW MONITORING
* OPTIONAL PLUG IN VOX UNIT

The KW204 Transmitter is the proud successor of the KW Vespa. It uses much of the proven circuitry of the KW2000 series of transceivers. The output tubes are a pair of the respected, highly reliable 6146's. Complete shielding and isolation of circuits provides a maximum of TVI protection. True carrier insertion (not unbalancing a mixer) is used for tuning. CW and AM. The KW204 is prewired for the optional KW auxiliary VOX unit. Optimum loading of the final stage can be achieved by using the RF output voltmeter. For class B linear amplifiers, proper loading corresponds to maximum output into a matching load. The ALC circuit provides protection against excessive splatter even when crowding the mic as often happens when chasing DX.

For details of KW202 Receiver please turn over page.

KW 202

Single Sideband Am/Cw Receiver

FEATURES

* COMPLETELY COVERS ALL AMATEUR BANDS 160 METRES TO 10 METRES IN 500 KHz SEGMENTS
* TWO SPEED SILKY VFO TUNING
* MECHANICAL FILTER
* PLUG IN 100 KHz CRYSTAL CALIBRATOR
* BUILT-IN Q-MULTIPLIER WITH NOTCH OR PEAK FACILITY
* LSB, USB, CW and AM
* SIGNAL INPUT ATTENUATOR for optimum "cross-mod" reduction

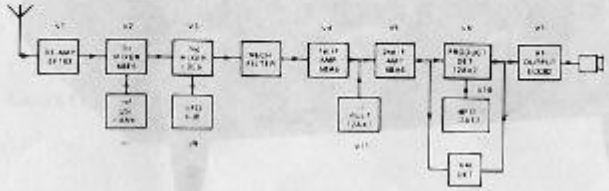
* SEPARATE SPEAKER AVAILABLE in matching case (see front cover)

KW SEPARATES

KW 202 Receiver

The KW202 Receiver replaces the famous KW201 and is a perfect match for the KW204 Transmitter. A built in Q multiplier provides additional selectivity to isolate a CW signal, or a deep notch to eliminate QRM. The 100 KHz calibrator provides strong harmonics right through 30 MHz. An RF attenuator in the antenna line helps eliminate front end overload in crowded urban areas. Complete coverage of all the HF amateur band plus silky smooth tuning makes operating a pleasure even during contest work. Reception of the occasional AM station is no longer difficult even if he is drifting. Merely flip over to AM and tune him in like a broadcast station. Certain commercial AM short-wave stations can be received outside the amateur bands with the KW202.

KW202 RECEIVER	
Sensitivity:	0.5 uV for 10 dB Signal to Noise
Selectivity:	2.4 KHz at 6 dB 5.0 KHz at 60 dB Q Multiplier - 200 Hz at 10 dB
Spurious Response:	Less than 1 uV equivalent antenna signal
Audio Output:	Loudspeaker - 3.2 ohms Headphones - 500 ohms Power - 1.5 watts
Input Impedance:	52/75 ohms
Weight:	17 pounds



KW 1000 Linear Amplifier

The KW1000 Linear Amplifier is designed to be driven by the KW2000E or similar medium powered SSB Transceivers or Transmitters. Good Linear operation is achieved for Single Sideband or CW with useful power gain.

The Unit employs a pair of T160L tubes in grounded-grid with Pi-input matching circuits for each band. The driving power required is approximately 40 watts PEP. The HT supply is built-in and uses semi-conductors producing 2.4 KV which can run the PA at over 1000 watts on CW and up to 1200 watts PEP SSB. The Amplifier operates on the 10, 15, 20, 40 and 80 metre bands. The antenna output is low impedance from a Pi-section filter and the antenna is connected automatically to the exciter when the Linear Amplifier is switched off.

The meter measures PA plate current,high voltage and SWR. The PA stage is completely screened (double screened with cabinet) and a small fan is used for tube cooling. Front panel controls are clearly marked and three chromium plated and coloured indicator lamps are marked "MAINS ON", "FORWARD" and "REFLECTED" (SWR Power).

Tubes 2 x T160L: Output Socket SO239: Line Voltage 105-120v or 210-240v AC 45-65 Hz: Case 12⅛" deep, 6" high, 13½" wide: Weight approx. 40 lbs.

KW DUMMY LOAD

The KW Dummy Load is air convection cooled and has been designed as a purely resrstive load up to 30MHz. The power dissipation is limited by the skin temperature of the resistor which must not exceed 300°C under any conditions. When dissipating 50 watts in the load this temperature is reached in about 20 minutes, for 100 watts about 6 minutes, for 1 KW about 5 seconds. These powers are about equivalent to transmitter input powers of 200W PEP, 400W PEP and 4 KW PEP. When ordering specify 52 or 75 ohm impedance.

DECCA COMMUNICATIONS Ltd.

AGENTS for the following Companies:

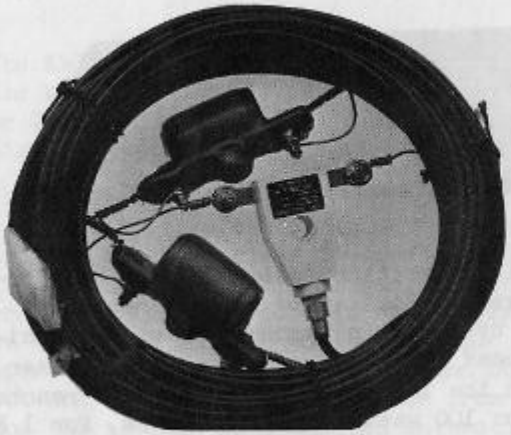
HY-GAIN ELECTRONICS CORPN. (USA)
Manufacturers of Antennas for the Radio Amateur and Professional Systems for Commercial, Military and Government Agencies.

DOW KEY (USA) Co-axial Relays

KOKUSAI ELECTRIC COMPANY (JAPAN)
Mechanical Filters

CDR (USA) Antenna Rotators and Control Units.

KW TRAP DIPOLE



The G8KW Multi-band Dipole has been specially designed to meet the requirements of those who desire operation on any of the HF bands and have only limited space available for antenna erection. The antenna consists of a centre fed dipole with a 108' top and utilises two resonant traps, one on either side of the feeder point and 65' apart. Each trap consists of a high 'Q' inductance and a capacitor specially designed to withstand high voltage and high circulating RF current. The tensile strength of these traps has been tested to 350 lbs. and they are impregnated to withstand extreme weather conditions. The traps act as insulators on 40 metres (7MHz). On 80 metres (3.5-4.0MHz) the traps act as loading inductances giving an electrical half-wave length on 80 metres. On frequencies higher than 7MHz the traps act as series capacitors. On 160 metres, the antenna may be used as a top loaded Marconi by joining the inner/and outer feeder connections together and loading against ground.

KW TRAPS & TEE PIECE

KW 107 Supermatch

The KW SUPERMATCH combines the features of the famous KW E-Z Match, the KW Antenna Switch, the KW Dummy Load and the KW103 SWR/PWR Meter. Plug-in binding post connectors are provided for balanced feeders, as well as 2-SO 239 connectors for coaxial feed lines. Transmitters with power inputs as high as 1KW PEP can be used if the natural SWR is less than 1.8:1 (50 ohms line). For high impedance, end fed antennas, the power input should be limited to 350 watts PEP. The proven KW E-Z Match circuitry is used in the SUPERMATCH and will efficiently match complex antenna fed impedance from approximately 30 to 2500 ohms on 20, 15 and 10 metres, and 30 to 1000 ohms on 40 and 80 metres. A small adjustment in feeder length will usually allow a match to be made. The transmitter is just tuned into the dummy load. Preliminary settings of the SUPERMATCH Controls are made by tuning a received signal for maximum. Then, using a low transmitter power and maximun sensitivity on the built-in SWR meter, the SUPERMATCH Controls are adjusted for minium SWR.

KW 109 SUPERMatch.

The KW109 Supermatch is a High Power version of the World famous KW107. It will handle RF input powers of up to 1KW.

SPECIFICATION

Frequency Coverage:	80-10 metres with additional coverage on each side of these Bands.
Matching Range:	30-1000 ohms resistive on 80 and 40M; 30-2500 ohms resistive on 20, 15 and 10M.
SWR Meter Sensitivity:	Will calibrate with as little as 15 watts on all Bands.
Power Meter:	100 watts & 1000 watts full scale ranges.
Dummy Load:	Temperature limitations 300°C. Convection cooled, temperature limit reached in 6 minutes with 100 watts, 1 minute at 300 watts and 5 seconds at 1 KW.

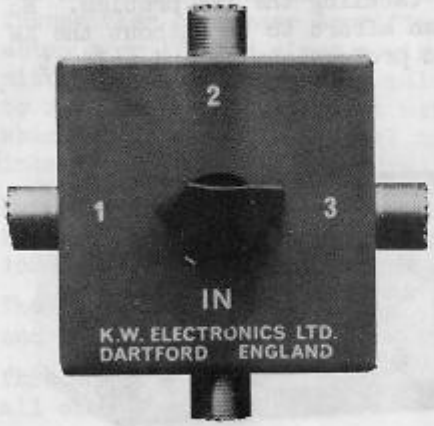
KW BALUN MK. I

The KW Balun is broadband - 3 to 30MHz - and is waterproof, for use with all types of antennas fed with unbalanced co-ax. It will handle up to a kilowatt of power, with virtually no insertion loss. It is compact, lightweight and with a performance achieved only by the use of modern ferrite techniques. The Balun is designed for 50/75 ohms unbalanced co-ax input with 1:1 impedance ratio, for installation at the feed point of a dipole, beam or similar balanced type antenna.

Size: 4" long x 1¼" diameter. Weight (4 oz.)

(See Also Balun MK. II on page 14)

KW ANTENNA SWITCHING UNIT



The KW Antenna Switch is designed to provide an efficient, simple and convenient means of selection from three coaxial inputs. The unit uses a heavy duty ceramic rotary switch, housed in a robust steel case fitted with SO239 UHF connectors. Mating connectors are the PL259.

KW 103

Combined Swr/Rf Power Meter

The KW103 is an instrument for measuring on a coaxial line feeding an Aerial System or Dummy Load

(1) Standing Wave Ratio.

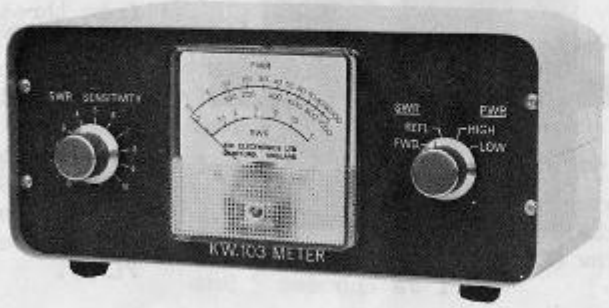
(2) RF Power (with two ranges 0-100 & 0-1000W).

Units are available for 52 or 75 ohm impedance and are fitted with SO239 type UHF connectors.

The units are finished in KW Duo-grey which matches the KW2000B & E, KW1000 L/A and the KW202/204 series. All knobs are also matched. The unit measures approximately 4" x 9" x 4½" deep.

The insertion loss is minimal over the range 1.8 - 30 MHz and it is possible to leave the unit permanently connected in the feeder line.

Make sure your SWR is at a minimum - it is a step in the right direction when tackling the TVI problem. No modern Amateur Station can afford to be without the KW 103 or KW101. It is used professionally and sold at "Amateur" prices.



KW 108 Monitorscope

The KW108 "Monitorscope" is a convenient instrument allowing "on-the-air" monitoring and testing of an amateur radio transmission on all bands from 160M through 10M.

The Monitorscope is designed to be connected between the Transmitter or Linear Amplifier antenna socket and the antenna or ATU and gives a visual display of the transmitter envelope which will allow the Tx to be "talked up" to full power output whilst watching for flat-topping which would cause the signal to "splatter" creating interference to Stations on adjacent frequencies and TVI.

By using the 2-tone Test Generator, the Transmitter may be adjusted to ensure that it is operating in a linear condition, necessary for good quality SSB transmission.

The KW108 is designed in the attractive KW G-Line style and matches all other of the famous G-Line products.

This equipment is finished in Duo-grey which also matches all other KW equipment.

BROAD BAND BALUN MK. II

Can be used with any Beam or dipole type antenna in the range 3 to 30 MHz.

The Decca Mk. II ferrite Balun provides a way to couple a 52 ohm unbalanced transmission line into a 50 ohm balanced system (Beam or dipole Antenna). It improves the transfer of energy to the Antenna, eliminating stray RF from the feedline and supporting tower. When a Beam or dipole Antenna is directly fed from a co-axial line, there is an unbalanced condition, due to currents flowing down the outside (shield) of the co-axial cable. These currents radiate and thus affect both the radiation pattern and the front-to-back ratio. In addition they cause TVI and drain away effective power.

MECHANICAL SPECIFICATIONS

Weight:	approx. 8 oz (250gr)
Dimensions:	approx. 5" x 3" x 1⅛" (13cm x 7.6cm x 2.8cm)
Input connector SO239 to take PL259	
Output:	Standard Terminal Lugs.
Weather protection:	Internally sealed.
Housing material:	High Impact Injection. Moulding, Cycolac Plastic.
Stress between the two strainer screws (used in a Dipole):	in excess of 500lb (240kg).

ELECTRICAL SPECIFICATION

Bandwidth:	3-30 MHz continuous.
VSWR:	1:1 (when terminated with a balanced 50 ohm Load).
Power Rating:	1Kw D.C. (2Kw p.e.p. SSB).
Impedance Transformation Ratio:	1:1 at 50 ohms
Input connector:	SO239
Insertion loss:	Negligible
Feed-through loss:	Negligible

KW E-Z MATCH

Most modern day transceivers need a proper termination of 50ohms in order to function satisfactorily. The KW E-Z MATCH is designed to transform a high impedance or mismatched transmission line to 50ohms resistive. The circuitry and components used allow this to be done with a minimum loss. Modern transmitters and transceivers will meet their spurious and intermod specifications only if worked into a proper load. A Low Pass Filter is almost useless for harmonic reduction if it is not terminated in a proper impedance. The KW E-Z Match will match 30-2500 ohms on 20, 15 and 10 metres and 30-1000ohms on 80 and 40 metres. Impedances outside these limits can also be matched depending on the magnitude of the reactive component. Transmitters with power inputs as high as 1 KW PEP can be used if the natural SWR is less than 2:1 on a 50ohm line. For high impedance and end fed antennas the safe maximum transmitter input power is 350 watts PEP. The limitation is basically one of peak RF voltage and is dependent on the reactive component of the load. Tuning is simple and straightforward. For best results the transmitter should first be tuned into a dummy load. Preliminary tuning of the KW E-Z Match is done by adjusting the controls for maximum signal on receive. Then using the lowest power (for minimum interference) final adjustments are made to bring the SWR to as near unity as possible. The dial readings of the KW E-Z Match are then logged for easy reference. Connections are provided for balanced feeders to the antenna and a UHF coaxial connector (SO239) for input. There is also provision for mounting an additional coax connector when the antenna feedline is coaxial.

OTHER DECCA-K.W. PRODUCTS

KW2000CAT 4-channel SSB Transceiver 2-12 MHz. 180 watts PEP (Transistor Version).

KW1000C Linear Amplifier 4-channel. 2-18 MHz. 1000 watts PEP.

DECCA "SAFCOM" Emergency Marine Radio-Telephone-Beacon Equipment for 2182 KHz.

DECCA ATU Type 15 Mobile 6-channel 12 volt Aerial Tuning Unit for use with KW2000CAT and a Whip Aerial.

The DECCA "VOYAGER" holds the Department of Posts and Telecommunications "Type Approval" Certificate for the design and production of Marine SSB/AM Transmitter/ Receiver to Spec. 1217.

KW TRAP DIPOLE - 2, 3, 4 Frequency - Single 52 ohm co-ax feed. 200 watt or 1000 watt rating.

ANCILLARY EQUIPMENT for the above, also "Custom-built" arrangements. K.W. equipment is used by Government Services, Oil Companies, Airlines including BOAC and BEA.

KW specialises in complete Communications Systems also Installations (equipment and Antennas) at Embassies and Consulates.

Decca Communications Limited

CRAMPTONS ROAD, SEVENOAKS, KENT TN14 5EA
Telephone Sevenoaks 50911 (5 lines) Cables DECCACOM SEVENOAKS

Registered Office 9 Albert Embankment London SE1 7SW
Registered in England No 845825

Our Ref
Your Ref

Date

K.W. PRODUCTS	CASH	+	V.A.T.	=	TOTAL	POST OR U.K. CARRIAGE INC. V.A.T.
KW1000 Linear Amplifier	£220.00		£27.50		£247.50	Extra
KW204 Transmitter	£250.00		£31.25		£281.25	Extra
KW202 Receiver	£210.00		£26.50		£236.50	Extra
KW202 Speaker	£ 18.00		£ 2.25		£ 20.25	£0.76
KW107 Antenna Tuning Unit	£ 85.00		£10.63		£ 95.63	£1.95 (inc. insurance)
KW108 Monitorscope	£ 85.00		£10.63		£ 95.63	£1.95 (inc. insurance)
KW109 Antenna Tuning Unit (High Power Version)	£105.00		£13.12		£118.12	£1.95
KW DC PSU for 2000A/B/E with connecting lead	£ 95.00		£11.88		£106.88	£1.73

The above prices are subject to variation without prior Notice.

Express carriage via Securicor (24 or 48 hr. Service) can be arranged on all items, we shall be pleased to quote.

H.P. Terms

H.P. is available to U.K. Residents only, on all items value £40.00 or over. Since the change in Government Legislation, we can accept a minimum deposit of one third. The balance for new equipment may be spread over 12, 18 or 24 monthly instalments. It is quite in order to add say a KW E-Z Match and a Trap Dipole to the account but the deposit must be a minimum of one third of the total. We shall be pleased to quote exact details upon request. If a higher deposit than one third can be managed, this will, of course, reduce the amount paid on monthly instalments.

NOTE: This Price List, Issue 478 supersedes all previous price lists. With effect 1st March, 1977.

KW ANCILLARY EQUIPMENT	CASH	+	V.A.T.	=	TOTAL	U.K. POSTAGE & VAT
KW VOX Unit for KW Atlanta/204	£12.00		£1.50		£13.50	£0.39
KW 103 VSWR Meter and Combined Power Meter 52 ohm	£17.00		£2.15		£19.15	£0.81
KW E-Z Match 10/80M Antenna Match Unit Mk. II	£29.00		£3.63		£32.63	£1.52
K.W. Dummy Load 52 ohm.	£19.50		£2.43		£19.93	£0.67
KW Trap Dipole (Standard Model) 20 metres feeder	£29.00		£3.63		£32.63	£1.52
KW Trap Dipole 20 metres 75 ohm Feeder fitted Balun	£34.00		£4.25		£38.25	£1.52
KW Trap Dipole fitted Balun, 52 ohm Feeder	£35.00		£4.38		£39.38	£1.52
KW Traps c/w "T" Piece	£ 8.50		£1.06		£ 9.56	£0.67
Balun Mk. II 1:1 Ratio, 1KW Dual Impedance 52/75 ohm in sealed case c/w co-ax PL259 connector	£ 8.50		£1.06		£ 9.56	£0.43
KW Low Pass Filter 52 or 75 ohm Specify PBC Channel 1-5	£18.00		£2.25		£20.25	£0.67
KW Antenna Switch 3 position coaxial (PL259 connector extra at 50p. + 70p. VAT each) Reducers (if required) 16p + 2p. each.	£ 8.00		£1.00		£ 9.00	£0.59
KW ALC Kit for KW 2000/Vespa/2000A	£ 3.20		£0.40		£ 3.60	£0.23
KW RF Choke	£ 1.00		£0.13		£ 1.13	£0.23
KW Pi Tank Coil 100 watt	£ 3.60		£0.45		£ 4.05	£0.59
KW Cable Connector for DC PSU	£ 4.20		£0.53		£ 4.73	£0.23

DELIVERIES IN U.K - The amount shown includes postage and V.A.T.

WE QUOTE POSTAL CHARGES ABROAD with pleasure. (Value Added Tax, does not apply).

OVERSEAS CUSTOMERS - Please ignore V.A.T. Prices. This Tax only applies to U.K. residents. Please contact us for quotation for carriage by Air or Seafreight. smaller items such as the KW103, KW107, KW109 etc. can be sent by Air Parcel or Surface Parcel Post.