

730V-xW, V-Dipole Antenna for 7MHz Expanded Band

V-Dipole AntennawithBS41MatchingTunerfor7MHzExpandedBand
RemotelyOperate4-BandSwitchingEnablestoCovertheExpanded-Bandon7MHz
byRemotelyControlling4-BandSwitcher

730V-1W (7, 14, 21, 28MHz)

730V-1AW (7, 14, 21, 28, 50MHz)

Power handlingisthesameasthatofstandardmodel730V-1x.

730V-2W (7, 21, 28MHz)

730V-2AW (7, 21, 28, 50MHz)

Power handlingisthesameasthatofstandardmodel730V-2x.



BS41. It builds in matching circuit and balun transformer.

4-Band Remote Switch
(Supplied As An Assembly Kit)

This new type V-Dipole antenna both730V-1W and 730V-2W makes it possible to operate not only on the bands existing so farbut
alsonewlyassignedtheexpanded-bandon7MHz.

(For bandswitching,a13.8VDCpowersupplyandaremotecableof4-conductorsarerequired.)

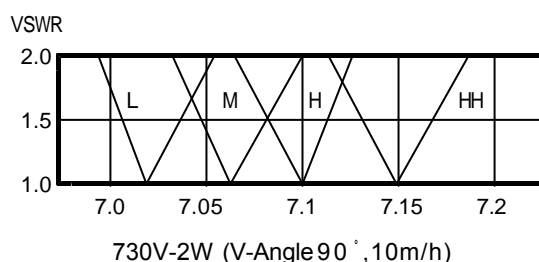
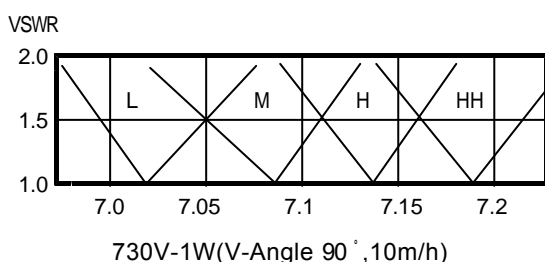
Other than 7MHz, it contributes also to improve to maintain lower VSWR on other frequencies band that 730V-series allows. By
conductingthe band switching,itmakesitpossibletoresonancetheantennatuninginmoreprecisely,thosehigherfrequenciesinthe
ham band assignedforSSB,FMbandetc.

Ex: AtthebestVSWRpointon14MHzof730V-1W, operationalfrequencyrangeexpands from14.15upto14.35MHz.

AtthebestVSWRpointon28MHzof730V-2W, operationalfrequencyrangeexpands from28.5upto29.0MHz.

Asbeing the fact, takingtherecentcaseinJapan,forexample,therulesandregulationshasbeen revised to beabletooperate7.060
~ 7.140MHz forthePHONE(eitherAMorSSB)operation in All JAContestasof2010. In coupledwith thebandexpansion,needing
such an antenna 'ready-for-operation' will help a lot to meet the requests. The same is true of those applicationsandenthusiasts,
seeking for wider bandwidth ofoperation in upperside of frequencies,forcontest, DX-hunting,by determining to band selectingand
switching the antenna swiftly into a preferable frequency desired, and quickcontacting friends, rag-chewing with a favorite group or
partyavoidinganunwillingnoiseandQRM,hencethe730V-1W,730V-2Wwillmeettherequests.

VSWR for7MHz (Typical)



Thoseuserswhohavealreadyownedeither730V-1xor730V-2x,theantennatunerBS41expandedkitfor7MHzbandisonlyrequired
Exceptslightreadjustmentintipelement,noparticularmodificationontheantennaitselfisrequiredasnoelectricalaffectationis given by
attachingthisunit.

BS41, Matching Tuner for 7MHz Expanded Band for 730V Series

This BS41 is a matching tuner designed for the existing 730V-series enable to operate the newly assigned expanded band on 7MHz. By attaching this unit to the model 730V-1x allows to expand the bandwidth on 7MHz. (No modification is required in the antenna.)

Attaching this unit brings to help the VSWR improvement for the other band other than 7MHz too. The VSWR characteristic for those higher bands (assigned for SSB, FM bands) tend to obtain a better VSWR.

Ex: 14MHz of 730V-1 enables to cover 14.15 ~ 14.35MHz bandwidth at the best VSWR point.
28MHz of 730V-2 enables to cover 28.5 ~ 29.0MHz bandwidth at the best VSWR point.

Not only those who own the existing 730V-series for expanding it for 7MHz, but also those who wish to set up V-dipole seeking to operate on the newly assigned expanded frequencies on the 7MHz together, such as Contest lovers, DX-huntings, rag-chewing with friends, meeting QSO group or party on the air, this antenna meets the demands and is indispensable.

For the details for the BS41, refer to the page for 730V-xW.



WIDEBANDWIDTH, YAGI BEAM ANTENNA

Enable to Operate 7-Entirely 7.0~7.2MHz

Efficient Radiation by use of T-Wire Element

CY402 2-Element

CL40B-5 3-Element

CL40DX 4-Element



Model CY402, 2-Ele. Yagi Beam Antenna



ATU. / Driven



ETU, DTU./ Reflector· Director

These models CY402, CL40B-5 and CL40DX are reduced type, Yagi beam antennas assuring a high performance. In the reduced scale type of antenna, a high efficiency will be expected when designing it to set narrow space. Usually the bandwidth is accordingly related to the length of elements, hence these 2 antennas are being applied the entire band by dividing them into 3 bands for the model CY402, while dividing it into 2 bands, by which a high performance are ascertained to derive. In the center section of the each element is equipped with a band turning switching unit, that enables to change and select the band which is remotely controlled. In the tip of element end for which determines the radiation efficiency and performance, a capacitor rod is attached that gives high loading efficiency, works as electrically equal value of 1.6m longer length than mechanical length for both models, that almost as good performance as a full-sized antenna presents, along with using a low-loss loading inductor. Mechanically, utmost consideration is taking into account, a swaged and light weight tubing rod of high strength for element, and alumo-welded capacitor rod are using for reducing an unwanted weight and minimize a wind surface area. Each model is required with 13.8VDC power supply for band switching.

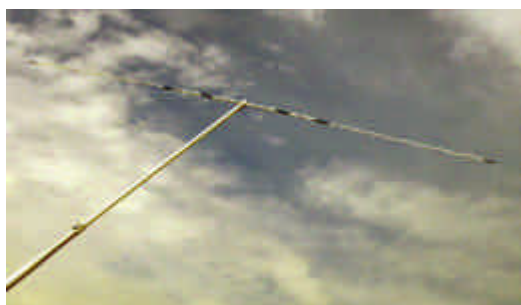
Model	CY402	CL40B-5	CL40B-5
Frequency MHz	7~7.2	7~7.2	7~7.2
Band	3	2	2
No. of Elements	2	3	4
Gain dBi	8	9.8	11
F/B, Ave. dB	20	22	20
Input, PEP kW	3	4	4 (CL40DX-1) 8 (CL40DX-2)
Boom Length m	4.98	10.3	15.2
Element Length m	14.0	15.8	16.0
Rotational Radius m	7.5	9.5	10.9
Wind Surface Area m ²	0.9	1.7	2.2
Weight kg	19	50	68
Control Cable (13.8VDC)	3-Core	2-Core	2-Core



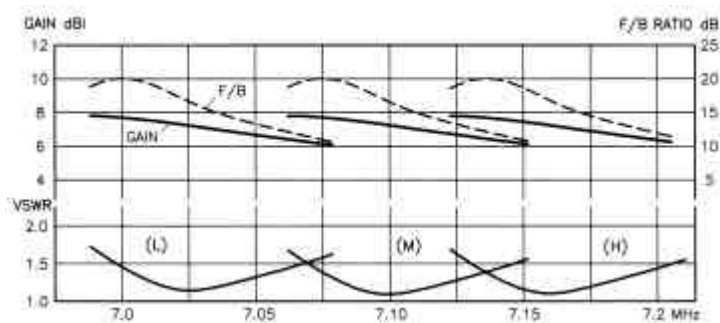
C1/BS-41 Controller

3-band controller for CY402.
This is a assembly kit.

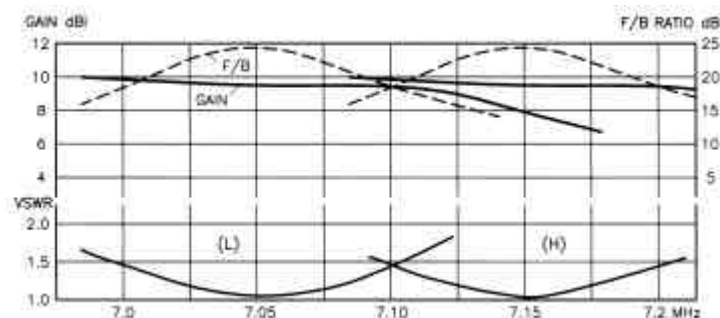
CL40B-5 and CL40DX does not include controller as it is only switching ON-OFF type.



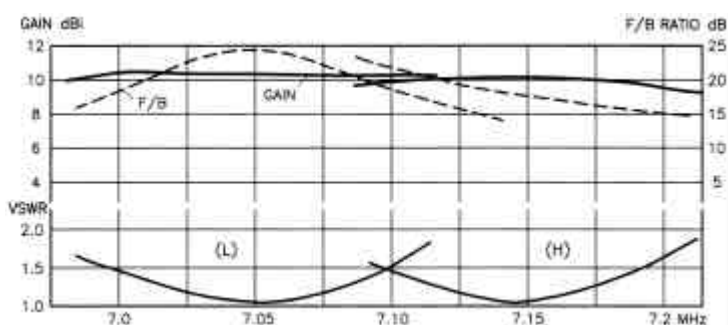
T-Wire •Element



CY402, VSWR, Gain, F/B Ratio



CL40B-5, VSWR, Gain, F/B Ratio



CL40DX, VSWR, Gain, F/B Ratio



Model CL40B-5, 3-Ele. Yagi Beam Antenna



Model CL40DX, 4-Ele. Yagi Beam Antenna

Upgrade Kit: For those who currently use AFA40 and CL40B-4, a modification kit enable them tougrade andoperatefortheexpandedband,isalsoavailable.