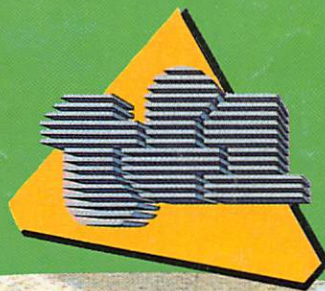


# MEGAHERTZ

M A G A Z I N E

PACKET RADIO: LA  
GAMME KANTRONICS

COURS DE MORSE  
SUR AMSTRAD CPC



M6

LA CINQ  
5



2  
FR 2

CANAL+

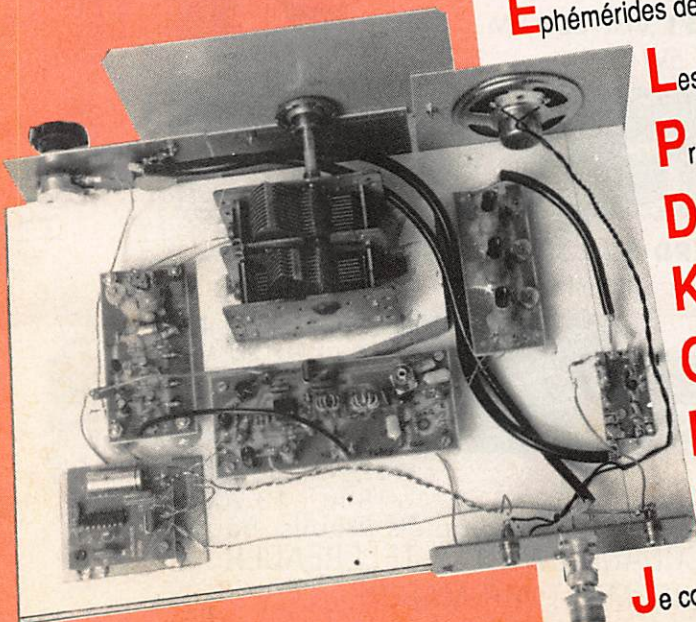
**DOSSIER:**  
**INTERFERENCES**  
**ET BROUILLAGE**

M 2135 - 64 - 20,00 F



# SOMMAIRE

<b>E</b> ditorial	5
<b>U</b> n mois de communication	8
<b>A</b> ctualité	10
<b>R</b> ubrique amateurs	12
<b>R</b> ubrique CB	14
<b>C</b> lubs et associations	16
<b>R</b> ubrique juridique	18
<b>R</b> adiodiffusion	20
<b>S</b> hopping	22
<b>B</b> ibliothèque	23
<b>D</b> ossier : interférences et brouillage	24
<b>L</b> e diplôme de l'Europe	30
<b>S</b> WL ou le grand silence	32
<b>T</b> rafic	35
<b>E</b> phémérides des satellites	38
<b>L</b> es nouvelles de l'espace	40
<b>P</b> ropagation	41
<b>D</b> X-TV : les nouvelles	44
<b>K</b> antronics et le packet-radio	46
<b>C</b> artes QTH locator	50
<b>L</b> ecture au son sur Amstrad CPC	53
<b>L</b> a construction pratique des récepteurs JR	59
<b>J</b> e construis mon émetteur BLU	64
<b>P</b> etites annonces	80



```

10 '*****
20 '* LECTURE AU SON DU CODE M O R S E *
30 '* Auteur J.Vandenberghe 26:12:86 *
40 '*****
50 '---PRESENTATION---
60 GOSUB 1460
70 '---INITIALISATIONS---
80 BORDER 10 :n=72 :f=880 :p=5 :t=3*p :s=0 :c=1 :DIM a(100)
90 FOR j=3 TO 7:READ v(j):NEXT
100 DATA 100,88,81,75,69
110 '---MENU---
120 MODE 2:LOCATE 23,2:PRINT"-ENTRAINEMENT A LA LECTURE AU SON-"
130 LOCATE 34,4:PRINT"* M E N U *X"
140 LOCATE 15,8:PRINT"[1] Regler la note et la vitesse.."
150 LOCATE 15,10:PRINT"[2] Lecture au son (100 caracteres aleatoires).."
160 LOCATE 15,12:PRINT"[3] Lecture au son d'un texte a saisir.."
170 LOCATE 15,14:PRINT"[4] Retour au basic.."
180 LOCATE 31,18:PRINT"*VOTRE CHOIX (1 a 4)*X"
190 r$=INKEY$:IF r$="" THEN 190
200 r=VAL(r$):IF r<1 OR r>4 THEN 120
210 ON r GOTO 880,1200,250,230
220 '---FIN---
230 CLS:END
240 '---SAISIE D'UN TEXTE A TRADUIRE EN MORSE---
250 CLS:LOCATE 31,1:PRINT "X*ENTREZ VOTRE TEXTE*X"
260 LOCATE 6,3:PRINT"Caracteres autorises: Lettres de A a Z"
270 LOCATE 28,4:PRINT"Chiffres de 0 a 9"
280 LOCATE 28,5:PRINT"Signes : ; ? . = / , "
290 PRINT:PRINT"Taper < pour le point . > pour la barre de fraction / @ pour la virgule ,"
300 PRINT STRING$(80," ")
310 LOCATE 1,10:INPUT " ",tx$:tx$=UPPER$(tx$)
320 FOR j=1 TO LEN(tx$)
330 a=ASC(MID$(tx$,j,1))
340 IF a=32 THEN GOTO 860
350 ON a-47 GOSUB 430,440,450,460,470,480,490,500,510,520,530,540,550,560,570,580,590,600,610,620,630,640,650,660,670,680,690,700,710,720,730,740,750,760,770,780,790,800,810,820,830,840,850
360 NEXT j
370 LOCATE 7,25:PRINT"<ESPACE> Nouveau texte :<COPY> Meme texte :<ENTER> pour retour menu"
380 r$=INKEY$:IF r$="" THEN 380
390 IF r$=CHR$(13) THEN 120
400 IF INKEY(9)=0 THEN 320
410 LOCATE 1,10:PRINT STRING$(80," ") :GOTO 310
420 '---TABLE DES SIGNAUX MORSE---
430 SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,t:RETURN
440 SOUND c,n,p:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,t:RETURN
450 SOUND c,n,p:SOUND c,s,p:SOUND c,n,p:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,t:RETURN
460 SOUND c,n,p:SOUND c,s,p:SOUND c,n,p:SOUND c,s,p:SOUND c,n,p:SOUND c,s,p:SOUND c,n,t:SOUND c,s,p:SOUND c,n,t:SOUND c,s,t:RETURN
470 SOUND c,n,p:SOUND c,s,p:SOUND c,n,p:SOUND c,s,p:SOUND c,n,p:SOUND c,s,p:SOUND c,n,p:SOUND c,s,p:SOUND c,n,t:SOUND c,s,t:RETURN

```

**Attention :**

Remplacez les X par  $\bar{X}$  dans les lignes 130, 180, 250, 880, 1040 et 1920.

$\bar{X}$ s'obtient en tapant simultanément CTRL et X.

## S'ABONNER A MEGAHERTZ

*c'est :*

- Recevoir chaque mois la revue à domicile.
- Recevoir un cadeau.
- Renforcer notre pouvoir d'action.

Voir bulletin d'abonnement page 82.

### SATELLITES TV

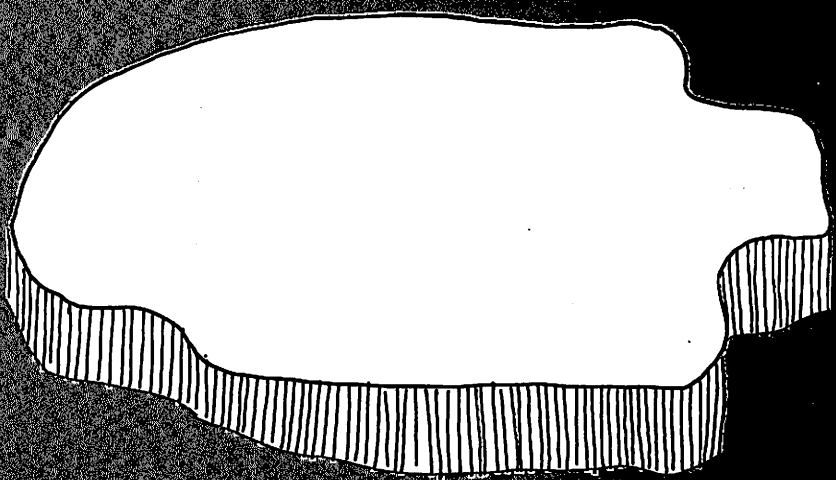
LNB : 1.8 - 2 dB max	1000,00 F
1.6 - 1.8 dB max	1500,00 F
1.3 - 1.5 dB max	2000,00 F
Télécom	1600,00 F
4 GHz	1250,00 F
Connecteur	1.20 F
POLAR ROTOR	800,00 F
MOTOR 18"	1200,00 F
<b>SYSTEME COMPLET MOTORISE (1,2 OFF)</b>	
Récepteur ROCKDALE	2000,00 F
DRAKE 324	2300,00 F
ECOSTAR 4500 SR	5000,00 F
<b>M. BALAY</b>	
24, rue de la Grande-Armée	
13001 MARSEILLE	
<b>TEL. 91 50 70 18</b>	

# INFORMATIQUE

```

490 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi RETURN
495 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi RETURN
500 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi RETURN
510 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi RETURN
520 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi RETURN
530 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,
n,pi SOUND c,s,ti RETURN
540 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,
n,pi SOUND c,s,ti RETURN
550 SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,
n,ti SOUND c,s,ti RETURN
560 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
570 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,
n,ti SOUND c,s,ti RETURN
580 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,
n,pi SOUND c,s,ti RETURN
590 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,
n,ti SOUND c,s,ti RETURN
600 SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
610 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
620 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
630 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
640 SOUND c,n,pi SOUND c,s,ti RETURN
650 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
660 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
670 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
680 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
690 SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
700 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
710 SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
720 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
730 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
740 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
750 SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
760 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
770 SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
780 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
790 SOUND c,n,ti SOUND c,s,ti RETURN
800 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
810 SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
820 SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
830 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
840 SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,ti RETURN
850 SOUND c,n,ti SOUND c,s,pi SOUND c,n,ti SOUND c,s,pi SOUND c,n,pi SOUND c,s,pi SOUND c,n,pi SOUND c,s,ti RETURN
860 SOUND c,s,4;pi BOTO 360
870 "-----REGLAGE DE LA NOTE-----"
880 MODE 1;LOCATE 10,3;PRINT:XI REGLAGE DE LA NOTE XI
890 LOCATE 9,6;PRINT CHR$(240);" Augmente la frequence"
900 B0SUB 1680
910 LOCATE 9,10;PRINT CHR$(241);" Diminue la frequence"
920 LOCATE 3,13;PRINT "<ESPACE>" Pour apprecier votre choix"
930 LOCATE 4,15;PRINT "(vous ecoutez CQ)= Appel general"
940 LOCATE 6,20;PRINT<ENTER>" Pour regler la vitesse"
950 c4=INKEY:IF c4="" THEN 950
960 IF c4=CHR$(13) THEN 1040
970 IF INKEY(2)=0 THEN n=n+2;f=f/2;B0SUB 1680
980 IF INKEY(0)=0 THEN n=n/2;f=f*2;B0SUB 1680
990 IF n<18 OR n=576 THEN n=72;f=980;B0SUB 1680
1000 B0SUB 620
1010 B0SUB 760
1020 BOTO 950

```



```

1030 '----REGLAGE DE LA VITESSE----
1040 CLS:LOCATE 9,3:PRINT"X REGLAGE DE LA VITESSE X"
1050 LOCATE 9,6:PRINT CHR$(243);" Augmente la vitesse"
1060 GOSUB 1670
1070 LOCATE 9,10:PRINT CHR$(242);" Diminue la vitesse"
1080 LOCATE 3,13:PRINT "<ESPACE> Pour apprecier votre choix"
1090 LOCATE 7,15:PRINT"(vous ecoutez VE = Compris)
1100 LOCATE 6,20:PRINT"<ENTER> Pour retour au menu"
1110 e$=INKEY$:IF e$="" THEN 1110
1120 IF e$=CHR$(13) THEN 120
1130 IF INKEY(8)=0 THEN p=p+1:GOSUB 1670
1140 IF INKEY(1)=0 THEN p=p-1:GOSUB 1670
1150 IF p<3 OR p>7 THEN p=5:GOSUB 1670
1160 GOSUB 810
1170 GOSUB 640
1180 GOTO 1110
1190 '----GENERATEUR DE CARACTERES ALEATOIRES----
1200 CLS
1210 LOCATE 29,12:PRINT"ATTENTION C'EST PARTI"
1220 FOR j%=1 TO 100
1230 RANDOMIZE TIME
1240 i%=INT(100*RND):IF i%<48 OR i%>90 THEN 1240 'ELSE PRINT i%;" ":"ASCII
1250 a(j%)=i%
1260 NEXT
1270 flag=0
1280 FOR j=1 TO 100
1290 ON a(j)-47 GOSUB 430,440,450,460,470,480,490,500,510,520,530,540,550,560,570,580,590,600,610,620,630,640,650,660,670,680,690,70
0,710,720,730,740,750,760,770,780,790,800,810,820,830,840,850
1300 flag=flag+1:IF flag=5 THEN flag=0:SOUND c,s,4*p
1310 NEXT
1320 CLS:LOCATE 1,9:PRINT"X Voici les 100 caracteres qui viennent d'etre transmis.. Controlez votre copie..X"
1330 PRINT
1340 flag=0
1350 FOR j%=1 TO 100:PRINT CHR$(a(j%));:flag=flag+1:IF flag=5 THEN PRINT " ";;:flag=0
1360 NEXT
1370 LOCATE 2,18:PRINT"NOTA: Pour < lire ."
1380 LOCATE 10,20:PRINT"Pour > lire /"
1390 LOCATE 10,19:PRINT"Pour @ lire ,"
1400 LOCATE 7,25:PRINT"<ESPACE> Nouvel essai :<COPY> Meme texte :<ENTER> pour retour menu"
1410 r$=INKEY$:IF r$="" THEN 1410
1420 IF r$=CHR$(13) THEN 120
1430 IF INKEY(9)=0 THEN 1270
1440 GOTO 1200
1450 '----PRESENTATION----
1460 MODE 0:BORDER 16:INK 0,1:INK 1,24:PAPER 11:CLS
1470 PEN 12:x$=" Lecture Au Son "
1480 e=220
1490 GOTO 1520
1500 PEN 0:x$=" Assistee par C P C "
1510 e=150:d=0:b=0
1520 l=LEN(x$)/2
1530 ll=1*2 MOD 2:IF ll<>0 THEN l=1+0.5
1540 TAG
1550 FOR i=1 TO 1 STEP-1
1560 b=b+16:d=d+2
1570 FOR j=1 TO 25:NEXT:SOUND 1,20,5:SOUND 1,0,5
1580 MOVE 320-b*2,e:PRINT MID$(x$,i,d);
1590 NEXT
1600 TAGOFF
1610 IF e=220 THEN 1500
1620 LOCATE 3,22:PRINT CHR$(164)" J.Vandenberghe"
1630 FOR i=1 TO 3000:NEXT
1640 BORDER 2:PAPER 0:PEN 1
1650 RETURN
1660 '-----
1670 LOCATE 1,8:PRINT"Environ";v(p);"Car./minute ":RETURN
1680 LOCATE 1,8:PRINT f;"Hz ":RETURN

```

