

SERVICE MENU

The service menu is entered by pressing the <SUB-PAGE> key on the RC and VOLUME-DOWN key on the TV simultaneously when the TV is in TV- mode. The service menu is left by pressing the <TV> key.

When entering the service mode the first menu item is IF (selection of normal IF). Next items can be selected using the keys <PROGRAM-UP> and <PROGRAM-DOWN>. The value of each item can be changed using the keys <VOLUME-UP> and <VOLUME-DOWN>. The item values are displayed as decimal values, except for the tuner-band-selection, BITS and option items.

They are displayed as hexa-decimal values. All values are stored in non-volatile memory when the service menu is left. The "INIT CTV832U" item initializes the NVM: It clears all names and tuning information of all programs and writes default values for the service alignments and preset values in NVM. While doing so, the OSD displays "BUSY". When the initialization is finished, the message "READY" is written on the screen.

Item	Default	Explanation
IF	38.9	IF selection (58.8, 45.8, 38.9 or 38.00 MHz)
IFL1	33.9	IF for SECAM-L1 selection (33.4 or 33.9 MHz)
HP	31	Horizontal parallelogram
HB	31	Horizontal bow
EW	37	East-west Width for picture setting 16:9
PW	18	East-west Parabola for picture setting 16:9
UCP	13	East-west Upper Corner parabola for picture setting 16:9
LCP	13	East-west Lower Corner parabola for picture setting 16:9
TC	28	East-west Trapezium for picture setting 16:9
HP4:3	31	Horizontal parallelogram for picture setting 4:3
HB4:3	31	Horizontal bow for picture setting 4:3
EW4:3	45	East-west Width for picture setting 4:3
PW4:3	15	East-west Parabola for picture setting 4:3
UCP4:3	35	East-west Upper Corner parabola for picture setting 4:3
LCP4:3	25	East-west Lower Corner parabola for picture setting 4:3
TC4:3	31	East-west Trapezium for picture setting 4:3
HS	31	Horizontal Shift
VS	31	Vertical Slope
VA	31	Vertical Amplitude
SC	31	S-Correction
VSD	off	Vertical Scan Disable
VSH	31	Vertical Shift
VX	25	Vertical zoom (East-west only)
BLR	7	Black Level Red
BLG	7	Black Level Green
WPR	31	White point correction Red
WPG	31	White point correction Green
WPB	31	White point correction Blue
Ys	15	Y-delay adjustment for SECAM
Yn	8	Y-delay adjustment for NTSC
YP	0	Y-delay adjustment for PAL

Yo	0	Y-delay adjustment for external sources
AGC	4	AGC take over
CL	4	Cathode drive level
Bits	00	(ACL=0; FCO= 0; SVO= 0; HP2= 0; FSL= 0; OSO= 0)
Bits1	00	(FFI= 0; TV= 0; AV-1= 0; AV-2= 0; AV-2S= 0; AV-3= 0; AV-3S= 0; AV = 0)

OptByte1		(Default=E3)
PAL-BG	=	Selection PAL-BG (1)
PAL-DK	=	Selection PAL-DK (1)
PAL-I	=	Selection PAL-I (0)
PAL-M	=	Selection PAL-M (0)
PAL-N	=	Selection PAL-N (0)
NTSC-M	=	Selection NTSC-M (1)
NTSC-443	=	Selection NTSC-443 (1)
SECAM-BG	=	Selection SECAM-BG (1)

*(1) Selected, (0) Not Selected

OptByte2		(Default=07)
SECAM-DK	=	Selection SECAM-DK (1)
FRANCE	=	Selection FRANCE (1)
WEB	=	Enable/Disable (1/0)
PalBG Scr	=	When the PalBG Scr selected, TV searches only PalBG. Otherwise it searches all. (0)
AV2	=	Selection AV2 (0)

*(1) Selected, (0) Not Selected

OptByte3		(Default=E8)
	=	(0)
JR	=	(0)
HP	=	(0)
Vol Bar	=	(1)
Sub Wof	=	(0)
Presets	=	(1)
Lock	=	(1)
Hotel	=	(0)

When the Hotel mode selected, It's impossible to
nter menu settings.It selects the Hotel mode. (1)

*(1) Selected, (0) Not Selected

OptByte4		(Default=B8)
16:9	=	Set 16:9 mode active (1)
110	=	Selection 110/90 Tube (1/0)
Hpol	=	Default (0)
Vpol	=	Default (0)
Field	=	Default (1)
FE-Out	=	Default (1)
Sw-on	=	When the power on the TV, it Enables or Disables Standby Mode. (1/0)
Vg-Check	=	Default (1)

*(1) Selected, (0) Not Selected

OptByte5		(Default=09)
Clock	=	Enable/Disable Clock Menu (1)
AM/PM	=	(1)
AVL	=	Auto Volume Level (1)
	=	(0)
1-norma	=	Default (0)
Flof-Txt	=	(0)
TR	=	(0)
DVD Start	=	(0)

*(1) Selected, (0) Not Selected

OptByte6			(Default=00)
UOC-J	=	Default	(0)
ignrSUP	=	Default	(0)
ignrNDF	=	Default	(0)
Pal-BG/DK	=		(0)
Pal-L	=		(0)
Eco	=		(0)
WEB ST	=		(0)
WSS	=		(0)

TSL	45	Start frequency of the low-band in MHz
TEL	118	End frequency of the low-band
TSM	118	Start frequency of the mid-band
TEM	400	End frequency of the mid-band
TSH	400	Start frequency of the high-band
TEH	863	End frequency of the high-band
TBL	03	hex Value needed for switching to the low-band
TBN	06	hex Value needed for switching to the mid-band
TBH	85	hex Value needed for switching to the high-band

16:9 / 4:3 Adjustment

The CTV832U software uses two sets of parameters for the registers HP (horizontal parallelogram), HB (horizontal bow), EW (EW width), PW (parabola/width), UCP (upper corner parabola), LCP (lower corner parabola) and IC (EW trapezium). They occur in the service menu for 16:9 screen with the listed abbreviations.

For the 4:3 screen there is a second set of these registers. They occur in the service menu with the extension '4:3' (i.e. HP4:3, HB4:3,...).

Each register set must be adjusted under the right conditions i.e. the 16:9 settings are adjusted with a 16:9 picture - the 4:3 settings with a 4:3 picture.

The inenu items EW, PW, UCP, LCP, TC, HP4:3, HB4:3,... TC4:3 and VX will only be in the service menu if the option 16:9 is set in 4 th option byte.

TUNER PARAMETER IN SERVICE AND DEFINITION		PHILIPS	OREGA	TEMIC	SAMSUNG	ALPS
TSL	Start frequency of the low-band in MHz	45	45	45	45	45
TEL	End frequency of the low-band	160	118	150	150	180
TSM	Start frequency of the mid-band	160	118	150	150	180
TEM	End frequency of the mid-band	440	400	440	425	465
TSH	Start frequency of the high-band	440	400	440	425	465
TEH	End frequency of the high-band	863	865	865	865	900
TBL	hex Value needed for switching to the low-band	A1	03	01	01	01
TBN	hex Value needed for switching to the mid-band	92	06	02	02	02
TBH	hex Value needed for switching to the high-band	34	85	04	08	0C