16 SERVICE MENU SETTINGS

In order to reach service menu,
- First Press **"MENU"**
- Then press the remote control code, which is **"4725"**

16.1 Video Setup

- *Panel Select <..................................>*
    - *CHI MEI 16/9 32 inch*
    - *LG 16/9 26 inch*
    - *SAMSUNG 16/9 32 inch*

- **Picture Mute <*.....*>**
    *If "Yes" selected, **"Picture mute"** feature is active.*
- ***Blue Screen <*.....*>***
    *If "Yes" selected, **"Blue Background"** item is seen in **"Feature"** menu.*
- **YC Delay <*...........*>**

- ▪ **Tuner PAL <.....>** *Value between -8 to+7*
- ▪ **Ext PAL <.....>** *Value between -8 to+7*
- ▪ **SECAM <.....>** *Value between -8 to+7*
- ▪ **NTSC <.....>** *Value between -8 to+7*
- **AGC (dB) <.....>** *Value between 0 to+8*

16.2 AudioSetup

- **Equalizer <.....>**

  If "Yes" selected, "Equalizer" item is seen in "Sound" menu.

- **BBE**
- **SRS WOW**
- **Virtual Dolby Surround <.....>**

  If "Yes" selected, Virtual Dolby Surround feature is seen in "Sound" menu with selected Virtual Dolby Text.

- **Virtual Dolby Text** *The selected item is seen as Virtual Dolby Srround Text.*
  - ▪ **3DS**
  - ▪ **Virtual Dolby**
  - ▪ **3D Panorama**
- **AVL <.....>**

  If "Yes" selected, "AVL" item is seen in "Sound" menu.

- **Carrier Mute <.....>**

  If "Yes" selected, "Carrier mute" feature is active.

- **Audio Delay Offset**
- **Prescale**
  - ▪ **FM Presc. AVL On <.......>** *Value between 0 to +127*
  - ▪ **AM Presc. AVL On <.......>** *Value between 0 to +127*
  - ▪ **NICAM Presc. AVL On <.......>** *Value between 0 to +127*
  - ▪ **I2S Presc. AVL On <.......>** *Value between 0 to +127*
  - ▪ **SCART Presc. AVL On <.......>** *Value between 0 to +127*
  - ▪ **FM Presc. AVL Off <.......>** *Value between 0 to +127*
  - ▪ **AM Presc. AVL Off <.......>** *Value between 0 to +127*
  - ▪ **NICAM Presc. AVL Off <.......>** *Value between 0 to +127*
  - ▪ **I2S Presc. AVL Off <.......>** *Value between 0 to +127*
  - ▪ **SCART Presc. AVL Off <.......>** *Value between 0 to +127*
- **Dynamic Bass <.....>**

  If "Yes" selected, "Dynamic Bass" item is seen in "Sound" menu.

- **Subwoofer <.....>**

  If "Yes" selected, "Subwoofer" item is seen in "Sound" menu.

16.3 Options1

- **VCTP Version <.......>**
  - ▪ **Basic+**
  - ▪ **Basic**
- **Double Digit <.....>**

  If "Yes" selected, "Double Digit" button is active for channel selection.

- **TEA6415C Available <.....>**

  If "Yes" selected, video switch IC is active on hardware.

- **TEA642X Available<.....>**

If "Yes" selected, audio switch IC is active on hardware.

- **Power-Up Mode <.......>**
  - **StandBy** *If selected, TV opens in stand by mode.*
  - **L.State** *If selected, TV opens in Last State mode.*
- **TV Open Mode <.......>**
  - **Source**
  - **1st TV**
  - **Last TV**
- **Select Languages <.......>** *"Yes" selected languages are seen as option under the **"Language"** item in **"Feature"** menu*
  - **Language Set 1**
    - **German <.......>**
    - **French <.......>**
    - **Spanish <.......>**
    - **Italian <.......>**
    - **Danish <.......>**
    - **Finnish <.......>**
    - **Swedish <.......>**
  - **Language Set 2**
    - **Greek <.......>**
    - **Norwegian <.......>**
    - **Dutch <.......>**
    - **Portuguse <.......>**
    - **Polish <.......>**
    - **Turkish <.......>**
    - **Russian <.......>**
    - **Czech <.......>**
  - **Language Set 3**
    - **Hungarian <.......>**
    - **Slovak <.......>**
    - **Slovenian <.......>**
    - **Romanian <.......>**
    - **Bulgarian <.......>**
    - **Croatian <.......>**
    - **Serbian <.......>**
    - **Hebrew <.......>**

- **First APS <.......>**
  If "Yes" selected, first time TV opens by asking APS.
- **APS Volume <.......>** *value between 0 to+63*
- **Burn In Mode <.......>**
  If "Yes" selected, TV opens with Burn-In mode. This mode is used in manufacturing.
- **APS Test**
- **HDMI WP <.......>**
  If "Yes" selected, HDMI EDID ROM is write protected.

16.4 Options 2

- **Autostore <.......>**
  If "Yes" selected, Channel is automatically stored.
- **Led Type <............................>**
  - **1 Led 1 Colour**
  - **1 Led 2 Colours**
  - **2 Led 2 Colours**
- **PC PIP <.......>**
- **PC Stand By <.......>**

16.5 Service Scan/Tuning Setup

- **Search for L/L' <.......>**
- **Pref. Search Standard <...........>**
  - **BG, DK, I**
  - **L/L'**
  - **M**
- **Station Ident <.......>**
- **ATS Delay Time (ms) <.......>** *Value between 20 to 250*
- **Color Killer Threshold <.......>** *Value between 0 to +255*
- **Tuner Options <.......>**
  - **Control Byte <.......>** *Value between 0 to +255*
  - **Low-Mid – Low Byte <.......>** *Value between 0 to +255*
  - **Low-Mid – High Byte <.......>** *Value between 0 to +255*
  - **Mid-High – Low Byte <.......>** *Value between 0 to +255*
  - **Mid-High – High Byte <.......>** *Value between 0 to +255*
  - **BSW1 <.......>** *Value between 0 to +255*
  - **BSW2 <.......>** *Value between 0 to +255*
  - **BSW3 <.......>** *Value between 0 to +255*

16.6 External Source Settings
- **DTV <.......>**
- **DVD <.......>**
- **Ext 2 S-Video <.......>**
- **Ext 3 <.......>**
- **Ext 3 S-Video <.......>**
- **FAV <.......>**
- **BAV <.......>**
- **S-Video <.......>**
- **HDMI 1 <.......>**
- **HDMI 2 <.......>**
- **YPbPr <.......>**
- **PC <.......>**

16.7 Picture Mode
- **Sources <.......>**
  - **Tuner**
  - **CVBS**
  - **RGB**

- **SVHS**
- **HDMI**
- **YPbPr**
- **PC**
- **PIP**

- *Picture Mode <.......>*
  - **Dynamic**
  - **Natural**
  - **Cinema**

- *Colour Temp <.......>*
  - **Cool**
  - **Normal**
  - **Warm**
- *Contrast <.......> Value between 0 to +63*
- *Brightness <.......> Value between 0 to +63*
- *Sharpness <.......> Value between 0 to +15*
- *Colour <.......> Value between 0 to +63*
- *Backlight <.......> Value between 0 to +255*
- *R <.......> Value between -63 to +63*
- *G <.......> Value between -63 to +63*
- *B <.......> Value between -63 to +63*

16.8 Reset TV-Set

- *Initialize NVM from ROM*
  - *Press green button to reset the NVM from ROM*

17 SOFTWARE UPDATE DESCRIPTION

17.1 Analog Software Update Via I^{2}C

Step.1
Short the second and third pins of PL_402. Power ON and keep shorting the pins 3-5 seconds.
Step.2
Then connect the I^{2}C update tool to parallel port of PC.
Step.3
Connect the other end of the tool to PL_402.
Step.4
Run Cosima_VCTP Visual I^{2}C software update program.
Step.5
When you click to box near **"0"** at **"Bootloader Version"** item, you will see **"42".**
If you couldn't see **"42"** or a **"No Acknowledge from Slave!"** is appeared,
  There may be a connection problem sourced from PC port, or update tool.
  Or you may forget to power ON.

Step.6
After **"42"** is seen, Click **"Erase Flash"**
Step.7
Select the bin. file from near the **"Load Bin"**
Step.8
Click **"Load Bin"** and load the required bin. file.
Step.9
Unpick the I^{2}C cable from Chasis
Step.10
Power off and on again TV set to produce hard reset.
Step.11
Initialize the NVM from "**Reset TV-set"** item from service menu

17.2 Analog Software Update Via UART

Step.1
Connect the serial cable from PC Com port to PL104 connector on 17PRG01-1 module card.
Step.2
Connect the programming cable from SCART(PL103) on 17PRG01-1 module card to SCART1 connector on TV chassis side.
Step.3
Run a RS232 terminal tool like Hyper Terminal.
Step.4
Following settings of the terminal tool are necessary:
Protocol: Xmodem
Port: COMx
Baud Rate: 115200
Data Bits: 8
Parity: none
Stop Bits: 1
Com. Control: none
Step.5
Load the bin file from **"Browse"** and Click **"Send"**
Step.6
Power off and on again TV set to produce hard reset.