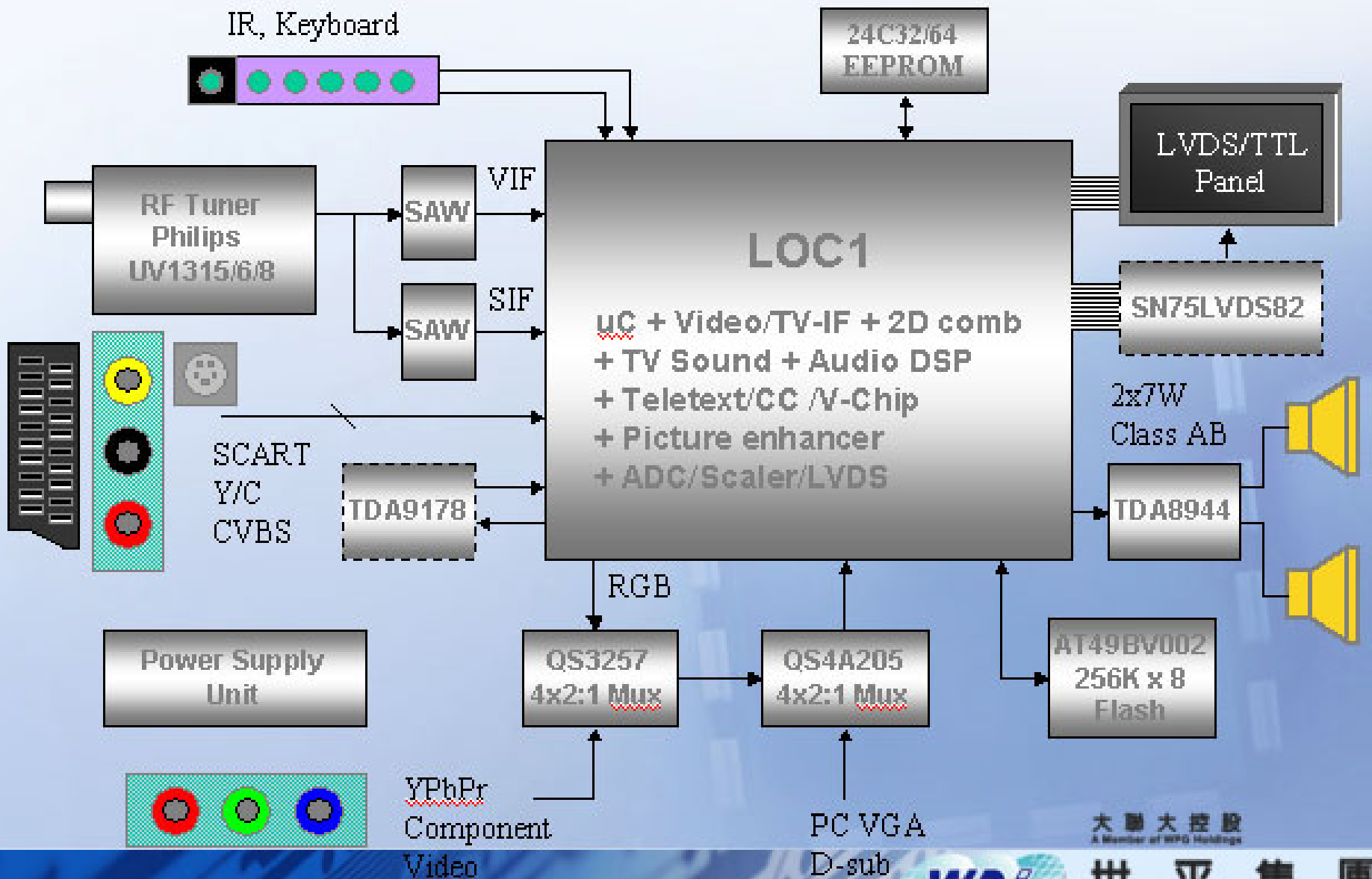


WPI LOC1 Solution Overview

- LOC1 system block diagram
- WPI LOC1 Reference Platform
- Platform functions and features
- S/W Tooling for LOC1 development

LOC1 system block diagram

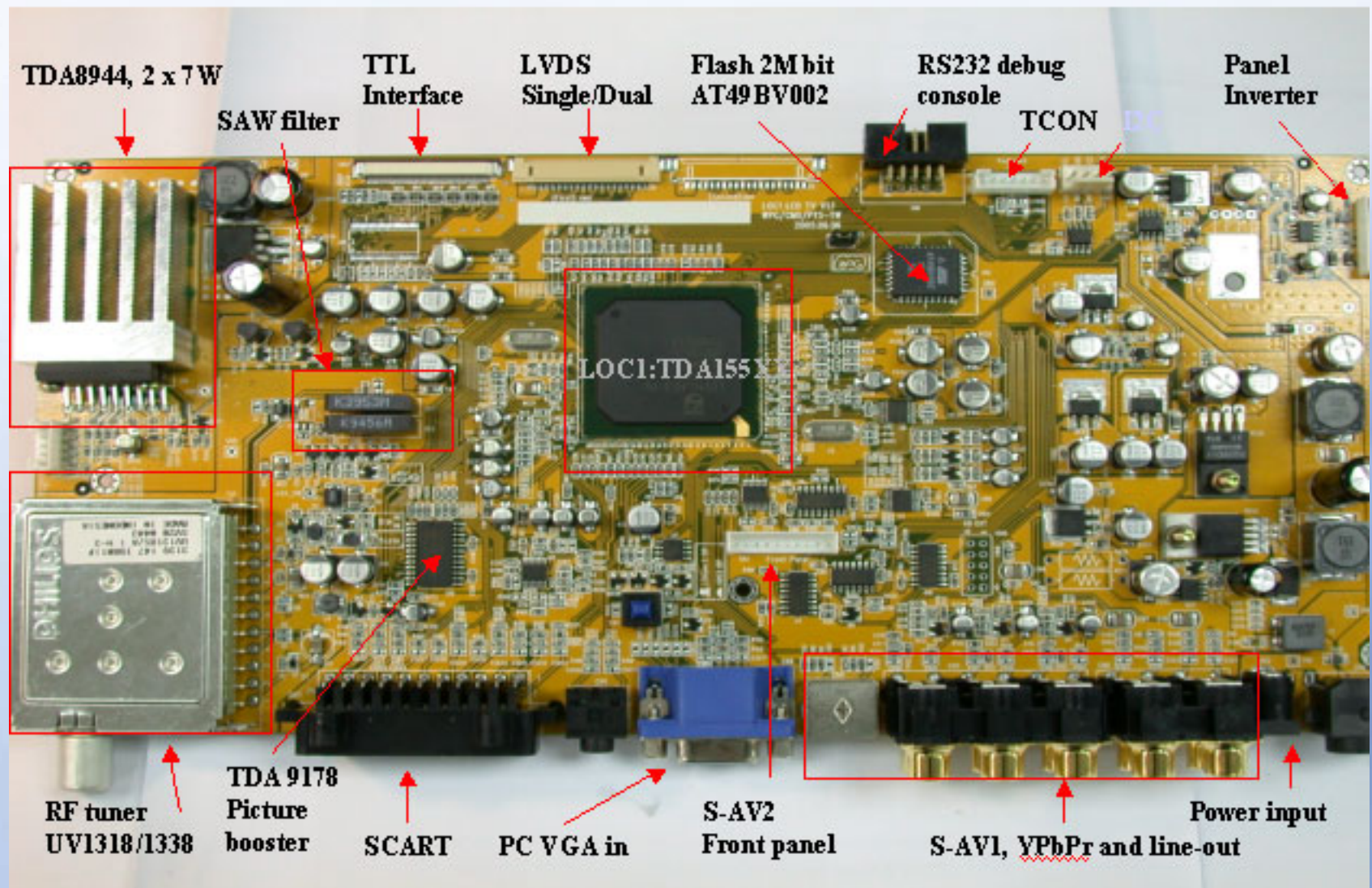


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WPI LOC1 Reference Platform

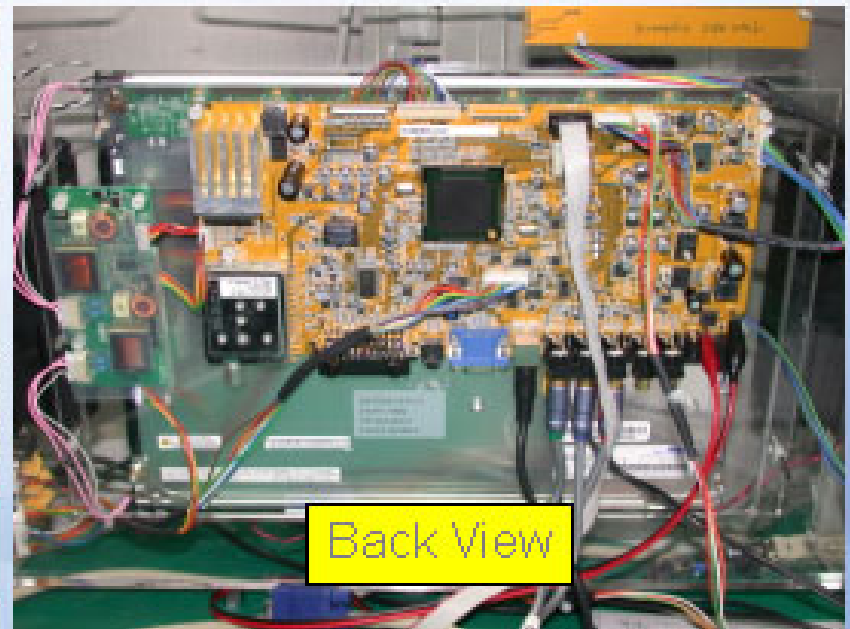
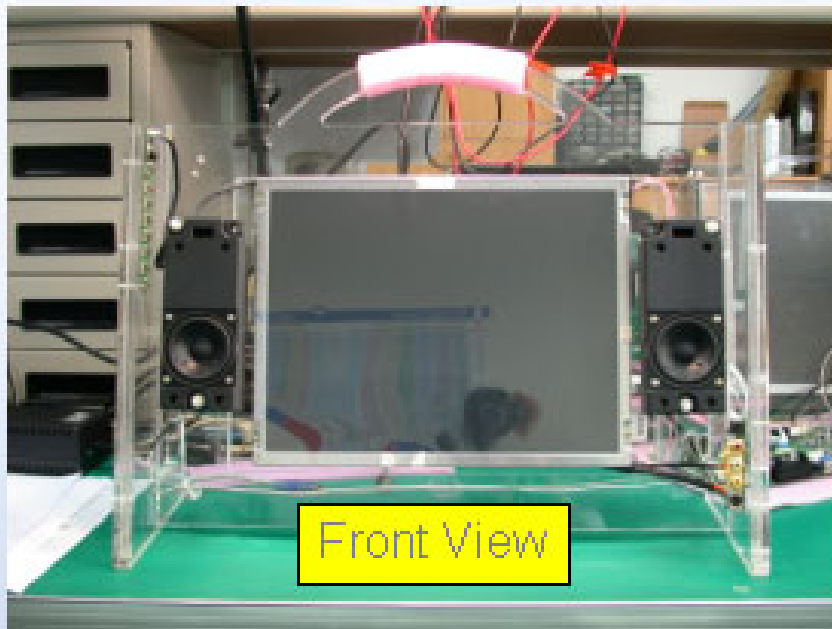


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WPI LOC1 Demo Set

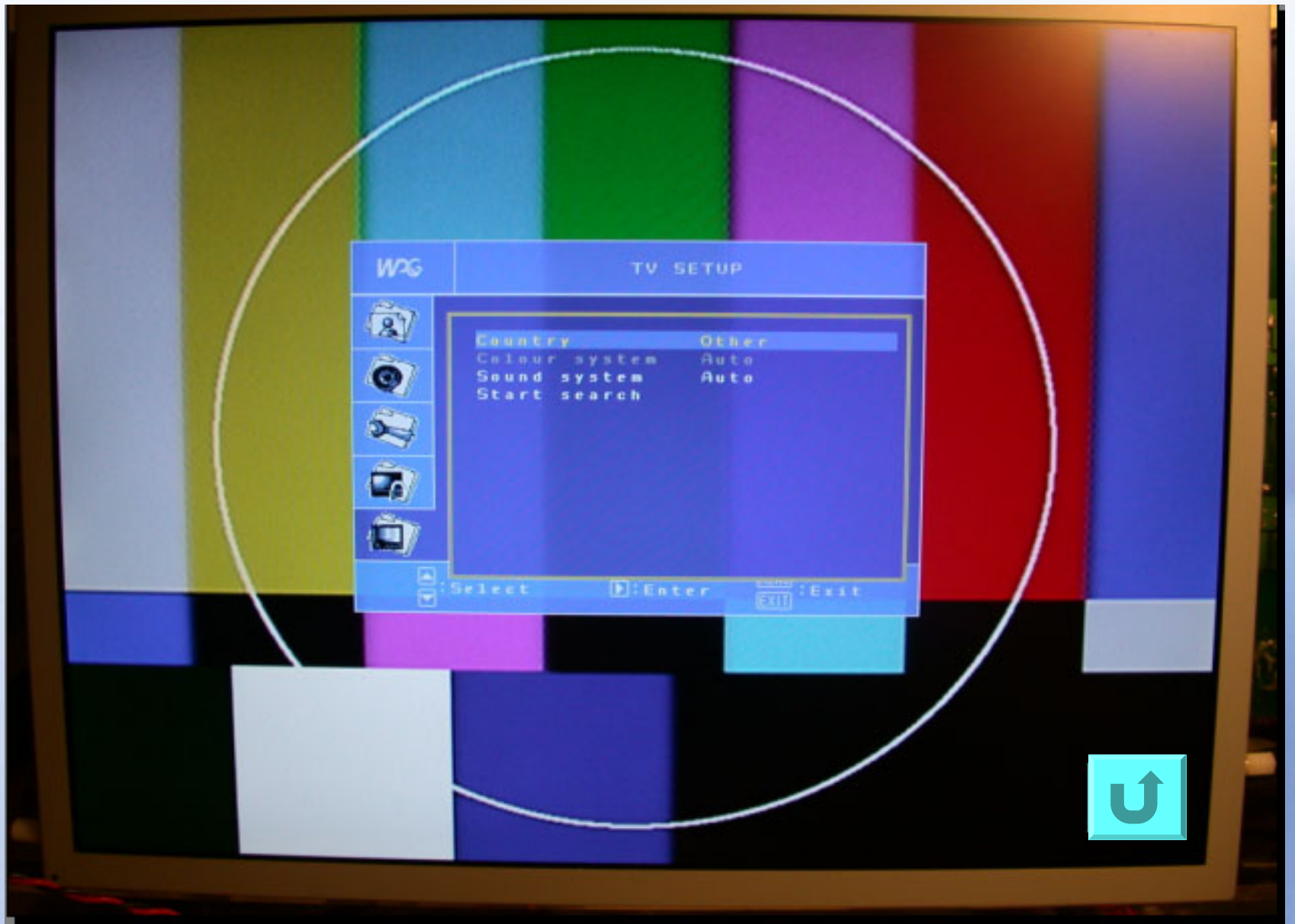


Platform Functions and Features

- Europe TV function specification
- Video function
- Audio function
- PC mode Features
- Panel Interface
- Power
- Other platform features

Europe TV function specification

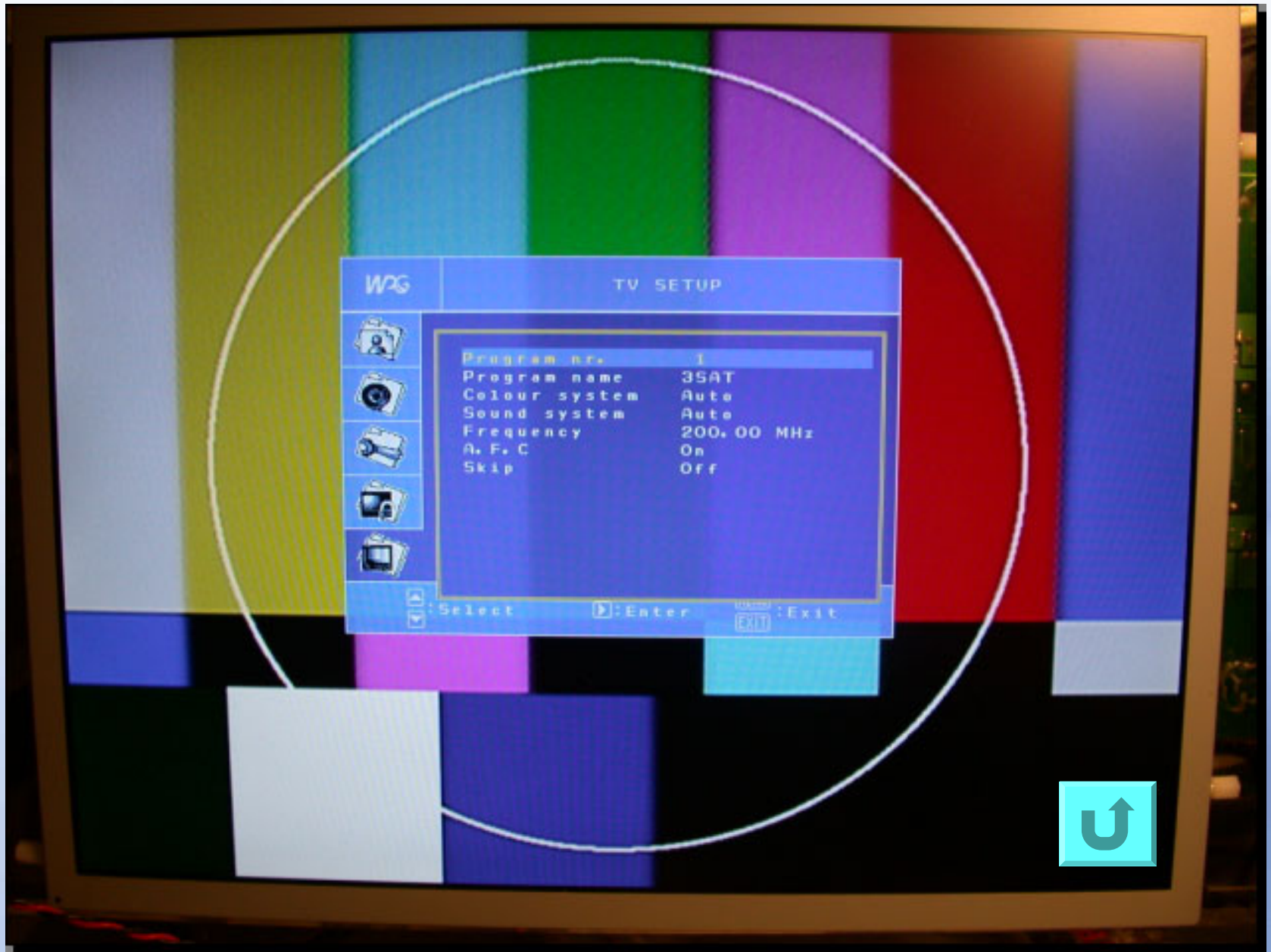
- Tuner frequency range: 44MHz to 863MHz
- Tuner type: Philips UV1318A / UV1316 RF tuner
- Color standard: PAL/SECAM/AUTO
- Sound standard: B/G, D/K, I, L/L' and AUTO mode
 - automatic A2/NICAM sound detection and switch
 - Independent sound mode for each program
- Country base auto program search 
- Manual program search with AFC function 
- Support ATS/ACI functions
- Easy-to-use program editor
- Support Child lock function 
- Support program sort/move/delete/skip function 



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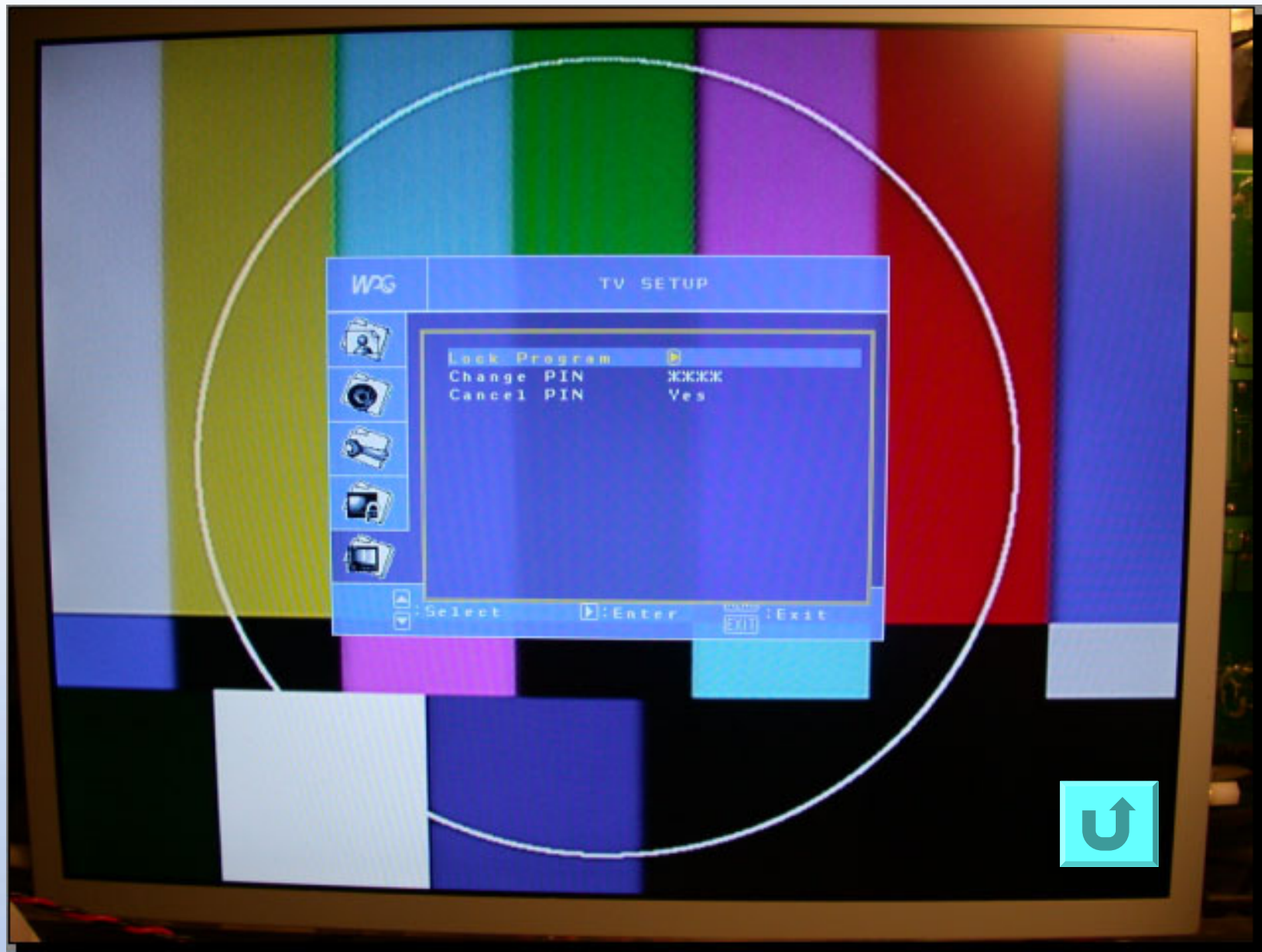
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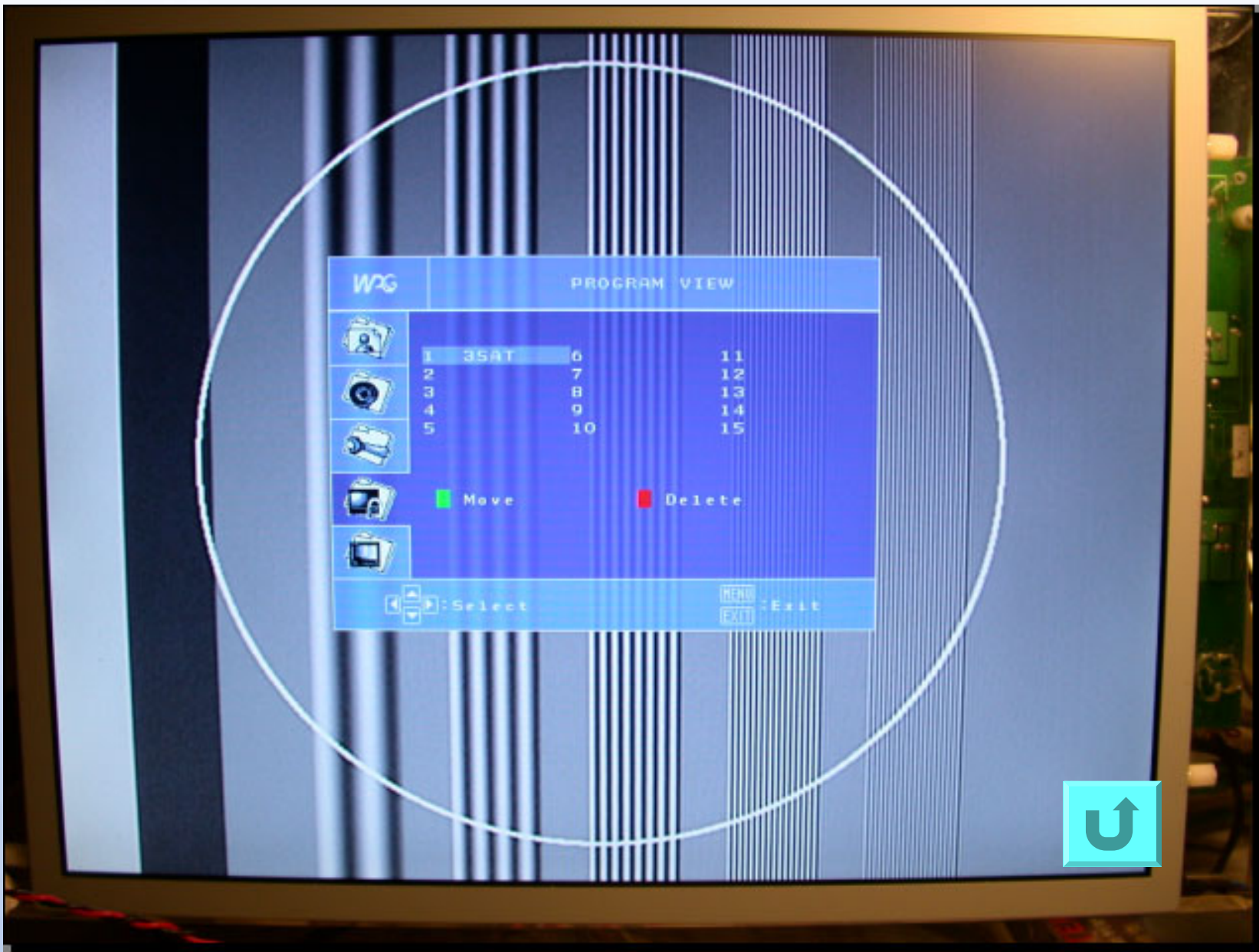
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WPG PROGRAM VIEW

1	3SAT	6	11
2		7	12
3		8	13
4		9	14
5		10	15

Move Delete

Select Exit




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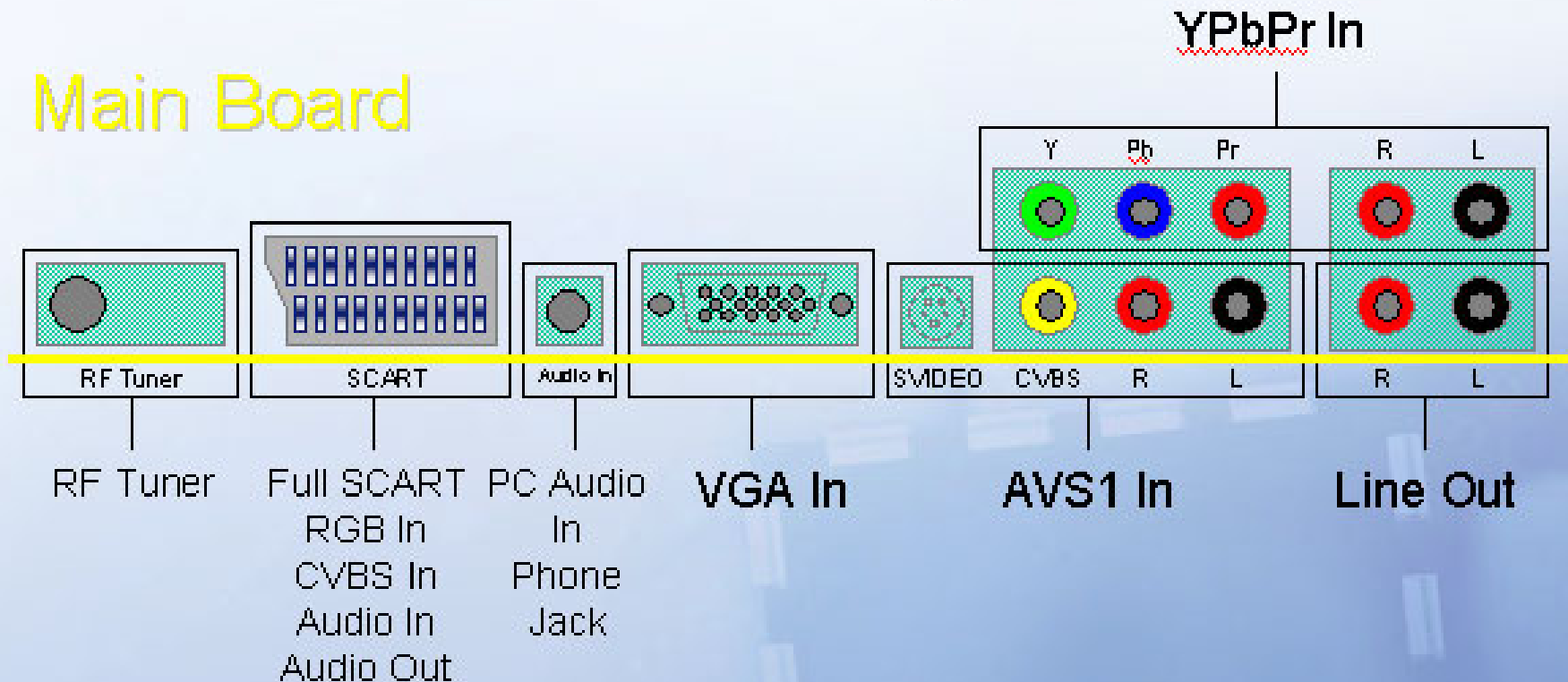
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Video Functions

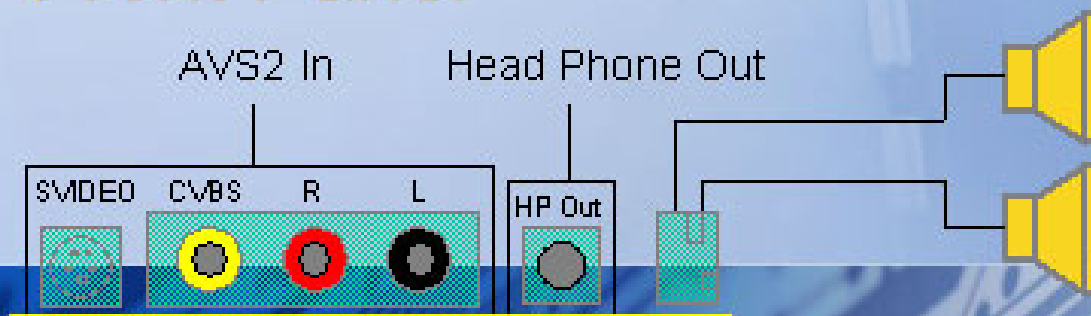
- One full SCART(RGB/CVBS) input with CANEL+ function support
- Two S-Video/AV inputs with automatic priority 
- One YPbPr component input with 480i/576i/480P/576P/720P/1080i format support
- Multi-color system support for S-Video/AV input,
 - NTSC : NTSC-M, NTSC4.43
 - PAL: PAL-BGDKIN(Nc), PAL-M
 - SECAM: SECAM BGDK, L/L'
- 10-page Teletext at level 1.5, four teletext languages/character set support (West/East/Greek/Cyrillic)
- 4 video preset modes (Personal/Movie/Sport/Game)
- Video Brightness, Contrast, Hue, Sharpness, Backlight control
- Three white-tone adjustments (Cool/Neutral/Warn)
- Three zoom mode support (Normal/Compress/Expand)

WPI LOC1 PCB Input/Output

Main Board



Front Panel



Audio Functions

- Baseband audio control: Volume/Balance/Treble/Bass/EQ
- 4 audio preset mode support:
Personal/Voice/Music/Theater
- 5 audio listening mode, selectable in Personal Preset mode
Normal/Incredible mono/Incredible stereo/SRS-3D/Surround
- 2 x 7W class AB BTL power amplifier, pop noise free

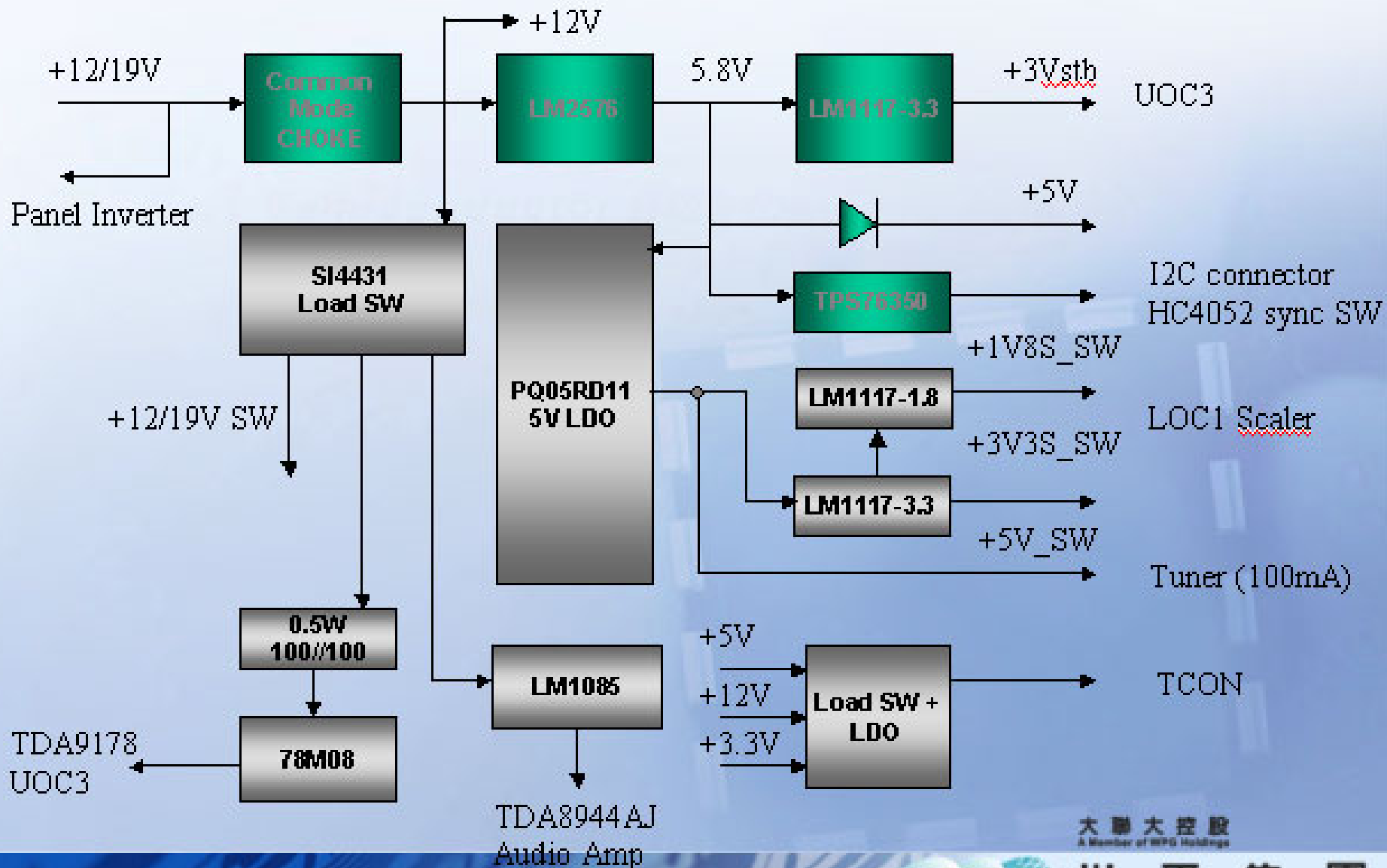
Panel Interface

- Display modes up to SXGA(1280x1024) and WXGA supported
- Single/dual pixel LVDS output
- Programmable LVDS signal and polarity
- TTL panel is supported by using TI SN75LVDS82 IC


PC mode Features

- Maximum supported input resolution: UXGA , 1600 x 1200
- Support most standard VESA timings
- Auto-Adjust function supported
- Adjustable PC standby timer (1 – 30 seconds)
- Low standby power, under 0.6W
- Standby wakeup by H/V sync detection mechanism
- SOG sync detection
- Memory function for 10 most recent PC timings
- 7 color temperatures supported:
user/5500K/6500K/7300K/8500K/9300K/11000K
- Independent backlight control

LOC1 system power distribution



Other platform features

- Multilingual OSD menu
- Remote Control format: NEC-R, RC5
- Source switch hotkey design
- Two-channel ADC keyboard, good noise immunity
special compound-key supported for system maintenance
- RS-232 console interface design, support up to 57600bps,
no ICE is needed, save development cost 
- S/W ISP function through VGA connector (UOCIII and Scaler)
- Universal SAW switch circuit design

ACDSee v4.0 - New Folder

WPI LOC1 Virtual Remote Controller

File Edit View I

Com Select: Com1 Com2 Com3 Com4 Com Free

BaudRate: 57600

Com Send: 00

Clear Buffer Timing: 0

WPI 世平集團股份有限公司 World Peace Industrial Co., Ltd.

Factory/Service mode

Remote

TV Status Sleep **Power**

PC 1 2 3

SCART 4 5 6

Video/AV 7 8 9

Yobpr Tone 0 RTN

Equalizer UP P+ Ext

Left VOL- Menu Right VOL+

PicPreset Down P- Mute

Zoom TeleText Sound

Red **Green** **Yellow** **Blue**

White Reveal Size Hold

Mix Cancel Time Sub Title

Reserve Reserve Reserve

Terminal

```

horizontal - 7a
vertical - 22
phase - a
clock - 80
horzlen - 80
vertlen - 80
--> State - b
--> State - 1
--> State - 1
--> State - 2
--> State - 2
--> State - 2
--> State - 2
--> State - 2
--> State - 2
--> State - 2
Set Source = 3
--> State = 3
--> State = 7
--> State = 9
BE LOCK = 1
--> State = a
--> State = b
--> State = b
--> State = b

```

Keyboard

Service/Factory Zoom/AutoAdj Down/P- Up/P+ Left/Vol- Right/Vol+ Menu Source Power

Key9 Key8 Key7 Key6 Key5 Key4 Key3 Key2 Key1

Total 0 files (0 bytes)

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S/W Tooling for LOC1 development

- Keil-C compiler V7.2 : 80C51 C-compiler
- GNU maker : Simulate UNIX environment on MicroSoft windows
- Philips ROM tool : combine banked hex and font files to target hex
- FlaMe V1.03 : Lithium-C scaler ISP tool
- WISP V2.6.2 : UOCIII ISP tool
- WIC32 V1.2.0 : UOCIII I2C register debugger
- DDS V4.2 : OSD font tool
- LibCoMa : Library Configuration Manager
- ScaTE V1.10 : panel timing and scaler configuration/debug tool
- GTV 3.4.1 : GTV software for LOC1