

**UltraPlus<sup>®</sup>**



# 780 miCro-PVR

DIGITAL SATELLITE RECEIVER



**KIS**  
KOREA  
IT  
SHOW  
2007

THE  
BEST  
PRODUCT  
AWARD



# UltraPlus 780

## Features & Specifications



### Main Features

- Max. 500GByte external USB 2.0 Host HDD supporting for Time Machine & Live Recording or Playback simultaneously & Powerful Trick mode Scheduled(Event) recording through Electronic Program Guide (EPG)
- Time shift up to 2 hours if external HDD is connected.
- Support Extended 9-Day EPG
- Premium Grade VFD displaying 8 character(CH name & Local Time), Recording mode(Record & Play mode), Status Icons (TV/Radio, Dolby Sound, CAS, Sleep, Time manager, Rock Channel and USB contents)
- Dual USB 2.0 Host Slot(MP3 Player & JPEG Viewer)
- MPEG-II Digital & Fully DVB Compliant
- True Blind Scan
- Multi-LNB Controlled by DiSEqC Control Version 1.0, 1.1, 1.2 and USALS Compatible
- Multi-Satellite Search
- On-Screen Display with 65535 Color Full Resolution
- Favorite Channel Groups
- Powerful Channel Control by Favorites, Lock, Skip, Move and Delete
- Channel Sorting by Alphabet, Transponder and CAS
- Multi-language Supported (OSD & Menu)
- Teletext / Sub Title Supported
- Maximum 10,000 Channels Programmable
- Multi-picture Display
- Parental Lock / Receiver Lock
- CVBS Video & Audio Output via RCA
- Component Y/Pb/Pr Output via RCA
- S-VHS Video Output
- Optical & Coaxial Output for Digital Audio
- Software & Channel Database Upgrade via RS-232 & USB
- Premium Grade Universal Remote Control
- Smartcard Reader

### Specifications

#### • Tuner & Channel Decoder

|                   |   |
|-------------------|---|
| Input Connector   | F-type, IEC 169-24, Female                            |
| Loop through out  | F-type, IEC 169-24, Female                            |
| Frequency Range   | 950MHz ~ 2150MHz                                      |
| Input Impedance   | 75 $\Omega$ , unbalanced                              |
| Signal Level      | -65 to -25dBm   |
| LNB Power         | 13/18VDC, max.400mA                                   |
| 22KHz Tone        | (22 $\pm$ 2)KHz, (0.6 $\pm$ 0.2)V                     |
| DiSEqC Control    | V1.0/1.2/USALS Compatible                             |
| Demodulation      | QPSK  |
| Input Symbol Rate | 2 ~ 45 Ms/s   |
| FEC Decoder       | 1/2, 2/3, 3/4, 5/6 and 7/8 with Constraint Length K=7 |

#### • MPEG Transport Stream A/V Decoding

|                  |                                  |
|------------------|----------------------------------|
| Transport Stream | MPEG-II ISO/IEC 13818            |
| Profile Level    | MPEG-II MP@ML                    |
| Input Rate       | Max. 15Mbit/s                    |
| Video Formats    | 4:3 LetterBox, 4:3 PanScan, 16:9 |
| Video Resolution | 720 x 576, 720 x 480             |
| Audio Decoding   | MPEG/MusiCam Layer I & II        |
| Audio Mode       | Streo/Joint stereo/Mono          |
| Sampling Rate    | 32KHz, 44.1KHz and 48KHz         |

#### • Main System

|                |   |
|----------------|---|
| Main Processor | Conexant Virgo (32-bit RISC CPU 180 MIPS) |
| Memory         | Flash-ROM : 2 MBytes, SDRAM : 32 MBytes   |

#### • Front Panel

|         |                                    |
|---------|------------------------------------|
| Slot    | 1 Smart Card Slot, 1 USB Host Slot |
| Buttons | 3 Buttons (CH UP/DOWN, STANDBY)    |
| Display | VFD(Vacuum Fluorescent Display)    |

#### • Audio / Video & Data IN/OUT

|           |  |
|-----------|--|
| Video     | CVBS Video Output (RCA)<br>S-VHS Video Output (Mini-DIN)<br>Y/Pb/Pr Video Output (RCA) |
| Audio L/R | RCA(Volume and Mute Control)<br>AC-3 Dolby Digital (RCA & Optical)                     |
| RS-232C   | 9 pin D-SUB (Male) type, Transfer rate 115Kbps   |
| USB       | USB 2.0 Host Support(2 Slots)  |

#### • RF Modulator

|                |   |
|----------------|---|
| RF Connector   | 75 $\Omega$ , IEC 169-2, Male/Female"       |
| Frequency      | 470 ~ 860MHz                                |
| Output Channel | CH 21 ~ 69 for the Remodulator              |
| TV Standard    | PAL G/I/K Selectable by Menu                |
| Preset Channel | CH 36 (or TBD), Software changeable by Menu |

#### • Power Supply

|                   |  |
|-------------------|--|
| Input Voltage     | AC 100 ~ 250V, 50/60Hz                       |
| Type              | SMPS   |
| Power Consumption | Max. 20W                                     |
| Standby Power     | Max. 8W                                      |
| Protection        | Separate Internal Fuse & Lighting protection |

#### • Physical Specification

|                  |                                     |
|------------------|-------------------------------------|
| Size (W x H x D) | 260mm X 55mm X 210mm                |
| Weight (Net)     | 1.2 Kg                              |
| Operating Temp.  | 0 $^{\circ}$ C ~ +45 $^{\circ}$ C   |
| Storage Temp.    | -10 $^{\circ}$ C ~ +70 $^{\circ}$ C |