



Don't miss your favourite programs again...



*simply record to the built-in HDD and watch later
or "Time Shift" for untimely interruptions*

Key Features:

- Two Tuners
- One recording and playback simultaneously
- Picture In Picture supported
- VFD (Vaccum Fluorescent Display)
- USB 2.0 supported
- Jukebox (MP3 music box) supported
- Brilliant OSD (On Screen Display)
- MPEG-2 & Fully DVB Compliant
- MPEG-2 Video (MP@ML),
MPEG-1 Audio Layer 1, Layer2
- RF-Modulator UHF21~69
- LNB controlling logic
- SCPC/MCPC Receivable from C/Ku-Band
- Digital Tuner with Loop-through
- Wide symbol rate 1~45Mbps & frequency input 950~1300MHz
- DiSEqC 1.2 supported
- Component (YUV) Video
- S/PDIF AC3 audio
- User friendly OSD menu with full function
- 256 color GUI (Graphic User Interface)
- Multi-language menu
- Variable aspect ratio (4:3, 16:9) with Letter Box
- EPG (Electronic Program Guide) supported
- Teletext and Subtitle supported (VBI & OSD)
- Installation by Easy Setup Guide
- Capacity for storing multi channel (4000 channels, 1000 transponders)
- RS232C port and OTA (Over-the-Air) for upgrading system software

**160GB HDD
DUAL
TUNER**

**PVR
Personal Video
Recorder**



Dual Common Interface Slots



Front Panel Control



VFD (Vaccum Fluorescent Display)



Tuner & Demodulator

Input Frequency Range	950MHz to 2150MHz
RF Input Signal Level	-25 to -65dBm
RF Impedance	75Ω
IF Bandwidth	55MHz/8MHz(under 5Msps)
LNB Power	13/18DC, 14/19V +/-5%, 0.5A max, 0.8A peak overload protected
LNB Tone Switch	22kHz +/-2kHz, 0.6Vpp +/-0.2V
DiSEqC Control	Version 1.2, Tone burst A/B/C/D
Demodulation	QPSK
Symbol Rate	1~45Msps

MPEG

Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Input Rate	Max 15Mbit/s
Video	MPEG-2 MP@ML
Audio	MPEG-1/2 Audio Layer 1,2
Aspect Ratio	4:3, 16:9
Video Resolution	720x576(PAL), 720x480(NTSC)
Audio Mode	Stereo, Dual Channel, Joint Stereo, Mono
Audio Sampling Frequency	32/44.1/48kHz

Connector

LNB IF Input	F type, IEC 169-24 Female
LNB IF Loop-Through Output	F type, IEC 169-24 Female
TV Scart	RGB, CVBS, YUV; Audio L,R
VCR Scart	CVBS; Audio L,R
Serial Port	RS232C D-sub male type

RF Modulator

RF-Connector	75Ω IEC 169-2, Male/Female
Frequency	470MHz to 860MHz
Output Channel	CH 21-69 for the Demodulator
TV Standard	PAL B/G/I/D/K Selectable by Menu Setting

Power Supply

Input Voltage	90~260VAC(SMPS)
Power Consumption	Max 40W
Weight	Approx 1.5KG
Operating Temperature	0°C~40°C
Storage Temperature	-40°C~65°C

Conditional Access Interface

PCMCIA	2 Slot Common Interface
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HDD Noise

Idle Mode	5.0dB (typical), 5.4dB (max)
Quiet Seek Mode	5.6dB (typical), 6.0dB (max)
Operating Mode	6.8dB (typical), 7.4dB (max)

SCART Socket

Pin No	TV	AUX
1	Audio Out Right	Audio Out Right
2	-	Audio In Right
3	Audio Out Right	Audio Out Left
4	Audio Ground	Audio Ground
5	Blue Ground	Blue Ground
6	-	Audio In Left
7	Blue Out	Blue In
8	Function Control Out	Function Control In
9	Green Ground	Green Ground
10	-	-
11	Green Out	Green In
12	-	-

Pin No	TV	AUX
13	Red Ground	Red Ground
14	Fast Blanking Ground	Fast Blanking Ground
15	Red(C) Out	Red(C) In
16	Fast Blanking Out	Fast Blanking In
17	CVBS Ground	CVBS Ground
18	CVBS Ground	CVBS Ground
19	CVBS(Y) Out	CVBS Out
20	-	CVBS(Y) In
21	Ground	Ground

