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# Innovation your life Style&Quality



## HD-200 COMBO

- Supports MPEG-2, MPEG-4, H.264 and fully DVB compliant.
- Satellite & Terrestrial combo receiver.
- 1 Slots common interface for Viaccess, Irdeto, Cryptoworks, Nagravision, Conax, Mediaguard and etc.
- 1 Slot smart card.
- DiSEqC 1.0, 1.1, 1.2 and USALS(DiSEqC 1.3).
- Aspect ratio adjustment 4:3 (16/9 crop), 4:3 (16/9 letterbox), 16:9 (4/3 pillar box).
- Multi-Langual audio & digital closed caption support.
- User friendly OSD and operation.
- Total 5,000 Channels Programmable.
- Multi-lingual audio support  
Multi-lingual menu text support.
- Favorite channel selections.
- Parental Guide and rating control.
- EPG(Provider Electronic Program Guide) for On Screen Channel Information.
- On-Screen Display with 65,536 Color.
- Zoom Function in Pause.
- Dolby Digital Bitstream Out through S/PDIF(Optical & Coaxial).
- Selectable output for 1080i, 720P, 576P and 576i format.
- Multiple Video Outputs "HDMI, Component(YPbPr), SCART(RGB, CVBS), Composite(CVBS)".
- USB 2.0 Host (Access to HDD, USB memory, Others etc) : 1 Port.
- Upgrade Software & Update Channel Database through USB 2.0 Port and RS232.



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## I. Conditional Access Interface

SMART CARD	1 Slot ISO 7816, GSM11.11 and EMV (payment systems)compatibility
PCMCIA	1 Slot DVB Common Interface Standard (Viaccess,Irdeto,NagraVision,Conax,Cryptoworks,AlpahCryp...)

## II. Tuner & Channel

Type	1 x F Type, IEC169-24, Female
Frequency Range	950MHz to 2150MHz
RF Impedance	75 Ohm unbalanced
Signal Level	-65 to -25 dBm
LNB Power	13.5/18.5Vdc +/- 5%, 0.5Amax, Overload Protected
22KHz Tone	Frequency : 22KHz +/- 2KHz, 0.6Vpp +/- 0.2V
DiSEqC Control	Version1.0, 1.2, Tone burst A/B
Demodulation	QPSK, 8PSK
Input Symbol Rate	DVB-S QPSK : 1~45 Msps DVB-S2 8PSK/QPSK : 10~30Msps
FEC Decoder	1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 in DVB-S2 mode. 1/2, 2/3, 3/4, 5/6 and 7/8 in DVB-S mode.

## III. Tuner & Channel(DVB-T)

Type	IEC60169-2(VHF/UHF) female, 75? nominal
Frequency Range	VHF: 170MHz to 230MHz UHF: 470MHz to 862MHz
Signal Level	-78.5dBm ~ -25dBm (64QAM, Code Rate 2/3, Guard Interval 1/8,Gaussian Channel)
COFDM Spectrum	COFDM 2K/8K-Carrier
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8

## IV. System & Memory

Main Processor	STi7100
Flash Memory	8 Mbytes
System Memory	64 Mbytes
A/V Memory	64 Mbytes
Channel Capacity	Digital Channel: 5,000
Front	7-Keys, 7-SEGMENT DISPLAY

## V. MPEG Transport Stream & A/V Decoding

Transport Stream	13818-1 MPEG-2, H.264/AVC Transport stream Specification
Profile Level	MPEG-2 MP@ML, MP@HL, MPEG-4 H.264/AVC
Input Rate	Max. 90Mbit/s
Aspect Ratio	4:3, 16:9, Letter Box
Frame Rate	25Hz for PAL, 30Hz for NTSC
Video Resolution	576i, 576p, 720p, 1080i
Teletext	Through VBI
Audio Decoding	MPEG-1 Layer 1 & 2, Dolby Downmix
Audio Mode	Single Channel/Dual Channel Joint Stereo/Stereo
Frequency Response	20~20kHz, ←+/-2dB 60Hz ~ 18kHz ←+/- 0.5dB
Sampling Rate	32, 44.1, 48KHz

## VI. A/V & Date In/Out

HDMI	HD Video/Audio Output
TV SCART Output	RGB, CVBS, L, R Output with Volume control
VCR Scart In/Out	RGB, CVBS, L, R In / CVBS, L, R Out
RCA Output	- CVBS, L, R Output(Yellow, White, Red Jack) with Volume Control - Component Video(YPbPr) Out
SPDIF	Dolby Digital Bitstream Out(Coaxial, Optical)
Data Interface	- RS-232, Bit Rate: 115,200baud Connector: 9-pin D-sub Male type - USB : USB 2.0, Type A Connector, 1Port

## VII. Power Supply

Input Voltage	AC 90V ~ 250V, 50Hz ~ 60Hz
Power Consumption	Max 40W
Standby Power Consumption	≤ 10W
Protection	Separate Internal Fuse The input shall the lighting protection

## VIII. Physical Specification

Size(WxHxD)	290mm x 50mm x220mm
Weight	3 KG

## IX. Environmental Condition

Operating Temperature	0 °C ~ 40 °C
Storage Temperature	-10 °C ~ 50 °C
Operating Humidity Range	10~85% RH, Non-condensing
Storage Humidity Range	5~90% RH, Non-condensing

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chosen  
Excellence”