



Innovation

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Digital HD Receiver **HD-400S**

- Supports MPEG-2, MPEG-4, H.264 and fully DVB compliant.
- Satellite receiver.
- 2 Slot smart card.
- DiSEqC 1.0, 1.1, 1.2 and USALS.
- Aspect ratio adjustment 4:3 (16/9 crop), 4:3 (16/9 letterbox), 16:9 (4/3 pillar box).
- User friendly OSD and operation.
- Total 5,000 Channels Programmable.
- Multi-language audio support
Multi-language 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 16 bit Color.
- Zoom Function in Pause.
- Dolby Digital Bitstream Out through S/PDIF(Optical & Coaxial).
- Seletable output for 1080i, 720P, 576P and 576i format.
- Multiple Video Outputs "HDMI, SCART (CVBS)".
- USB 2.0 Host (Access to HDD, USB memory, Others etc) : 1 port.
- Upgrade Software via SAT.

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Digital HD Receiver

HD-400S SPECIFICATIONS

I. Conditional Access Interface

SMART CARD	2 Slot ISO 7816, GSM11.11 and EMV (payment systems)compatibility
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II. Tuner & Channel

Input Connector	1 × 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
DiSEqC Control	Amplitude : 0.8 +/- 0.2V
Demodulation	QPSK
Input Symbol Rate	DVB-S QPSK : 2~45 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	---
Frequency Range	---
Signal Level	---
COFDM Spectrum	---
FEC Mode	---

IV. System & Memory

Main Processor	ALI M3602
Flash Memory	W25X32VSSIG (4MB)
Channel Capacity	Digital Channel: 5,000

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	VBI & OSD
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	CVBS, L, R Output with Volume control
VCR Scart In/Out	---
RCA Output	- CVBS, L, R Output(Yellow, White, Red Jack) with Volume Control
SPDIF	Dolby Digital Bitstream Out(Optical)
Data Interface	- USB : USB 2.0, Type A Connector, 1Port

VII. Power Supply

Input Voltage	AC 90V ~ 250V, 50Hz ~ 60Hz
Power Consumption	Max 30W
Standby Power Consumption	<= 10W
Protection	Separate Internal Fuse The input shall the lightning protection

VIII. Physical Specification

Size(WxHxD)	240mm x 40mm x180mm
Weight	1.5 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