SatKing

USER'S MANUAL

SK-790

CONTENTS

1. GUIDE

1.1 IMPORTANT SAFETY INSTRUCTIONS

Thank you for choosing our product. Before installation, we would like to remind you some notes, which is very important for operating safely and properly, as follows:

- This product is electrically powered and there are hazardous voltages inside. Under no circumstances should the casing on this product be opened whilst connected to power. Only trained technicians are able to repair this product so opening of the case by unqualified personnel will void the warranty.
- Do not use accessories that are not recommended by the product manufacturer.
- Do not use this product near water or outside and exposed to the elements.
- Do not place this product on an unstable surface for example portable cart or tripod. This product should be affixed solidly as any fall or movement whilst plugged in may affect the performance or damage the unit. Mounting should be done using industry standard mounting fixings.
- Adequate clearance around the product should be maintained. This product is fitted with ventilation slots to dissipate heat built up from the operation of the components inside.
- This product is powered from an external power supply which is supplied with the unit. Use of any other rated power supply is not advised and damage to the product may occur. The warranty is void if an incorrect rated power supply is used and the unit is damaged as a result.

1.2 GENERAL DESCRIPTION

This is a composite video input standard definition DVB-T HD modulator which provides COFDM RF signal in range of 50-860MHz.

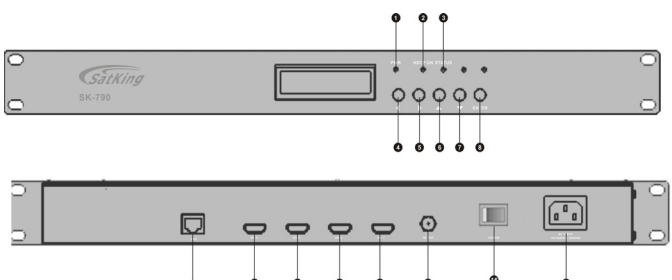
It consists of A/D, Coding, Modulation, Frequency conversion which provides bandwidth of 6/7/8MHz to select.

It is designed to achieve HD input, and it only supports standard H.264 encoding.

It is an excellent choice to transport HD signals from TV satellite receivers, surveillance camera or video/media players to a LCD TV or set-top-box.

It can be used in series with other modulator so the number of channels in the coaxial cable no the SMATV system can be increased as desired.

1.3 PRODUCT OVERVIEW & ILLUSTRATION



No	Description	Function
1	PWR	Power indicator light

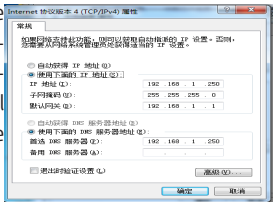
No	Description	Function
2	HDCP ON	HDCP indicator light
3	STATUS	Status indicator light. It will light up when inilization completed
4	◀	Switch settings in menu / cursor left / return previous menu
5	▶	Switch settings in menu / cursor right
6	▲	Switch settings in menu / cursor up
7	▼	Switch settings in menu / cursor down
8	ENTER	Enter submenu / OK key
9	HD 4	HD signal input port4
10	HD 3	HD signal input port3
11	HD 2	HD signal input port2
12	HD 1	HD signal input port1
13	RF OUT	RF signal output
14	LAN	Connet to PC Ethernet interface for modifying parameters of modulator
15	AC INPUT	100~240V 50/60Hz AC Input port
16	POWER	POWER Switch

2. FEATURES

- Integration of H.264/AVC HD Encoder and DVB-T Modulator in a 19" 1U rack mount system
- Quad HD video inputs
- Adopt multiple audio formats
- 1 x DVB-T RF out
- Support Low Delay
- LCN (Logical Channel Number) support
- Excellent modulation quality
- User friendly configuration interfaces including LCD with buttons

3. OPERATING ADJUSTMENT VIA WEB BROWSER

The web browser will allow the user to fully configure the SK-790 unit via an Ethernet connection. Your computer will require a static IP address in the range 192.168.1.XXX.



1. Connect the PC to the LAN port of the SK-790 unit.
2. Launch the web browser and delete browsing history.
3. Enter the SK-790 IP address.

4. Click on ENTER to access the welcome screen. Enter the default password: 1234.

- **RF Parameters**

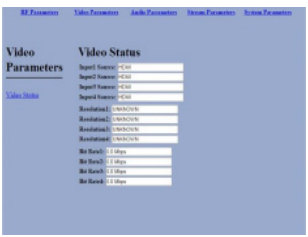
Setup RF Output

Using the interface left set the required RF settings, once complete click Save Settings to save.

Advanced RF Setting

Using the interface left set the advanced RF settings. If required, click Save Settings to save.

- **Video Parameters**



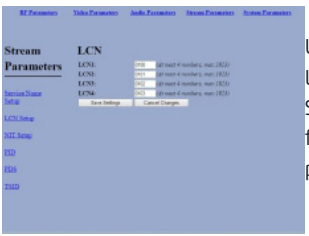
- **Audio Parameters**

- **Stream Parameters**

Set Service Name

Using the interface left set the service name of each port. If non 14 characters, please press the spacebar to make up, click save Settings to save.

Set LCN



Using the interface left set the LCN for each port, click Save Settings to save.Using the interface below set the LCN for each port, click Save Settings to save.

Set NIT

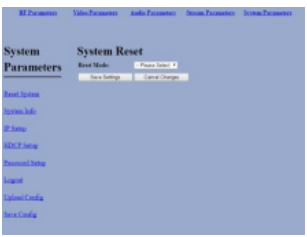
PID

PDS

TSID

- **System Parameters**

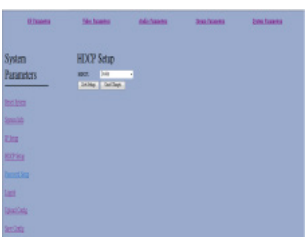
System Reset



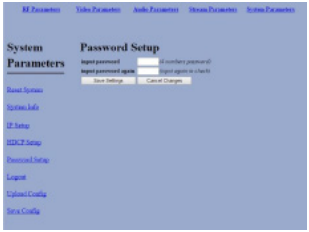
System Information

IP

HDCP Setup

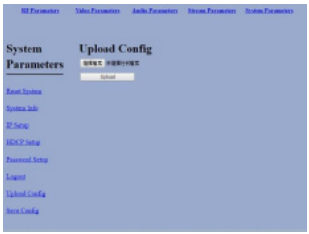


Password Setup



Logout

Upload Configuration



Save Configuration

Note: It's necessary to use S/W Reset after modifying parameters.

4. TECHNICAL SPECIFICATION

INPUT	
VIdeo Input	4 x HDMI(HDCP): Type A receptacle
Audio Input	4 x HDMI type A receptacle
Encoding	
Video Resolution	1080p @30p/25p
Video Compression	H.264/ AVC
Audio Compression	MPEG-1 Audio layer II (ISO/IEC 11172-3)
PID Setting	PMT/ Video/ Audio/ PCR
PSI	NID/ ONID/ P.D.S./ TS ID
LCN	At most 4 numbers, max:1023
Service Name	At most 15 characters
GENERAL CHARACTERISTICS	
Type	19 inch rack mount
Dimensions	480×180×44mm
Power Supply	AC 100~240 V
Power Consumption	15 W
Operation Temperature	0 ~ +45°C
MODULATION	
Transmission Mode	8K
Guard Interval	1/32
Code Rate	7/8
Constellation	64QAM

OUTPUT	
Standard	DVB-T (ETSI EN 300 744)
Frequency Range	100-860 MHz
Output Level	90~105 dBuV
Bandwidth	6, 7, 8 MHz
MER	>36 dB
Connector Type	'F' Female
CONTROL	
Local operation	LCD panel, control buttons
User Interface	10/ 100M IP Web Browser

Note: Specifications are subject to change without notice.