

HP3556 4K 50/60P Encoder Modulator

— Home Version

A device that allows audio and video signal input in TV distributions with applications in home entertainment, Digital Signage for hotels, shops, restaurants etc...



Support CC (Closed Caption) /Teletext

Support Audio delay function

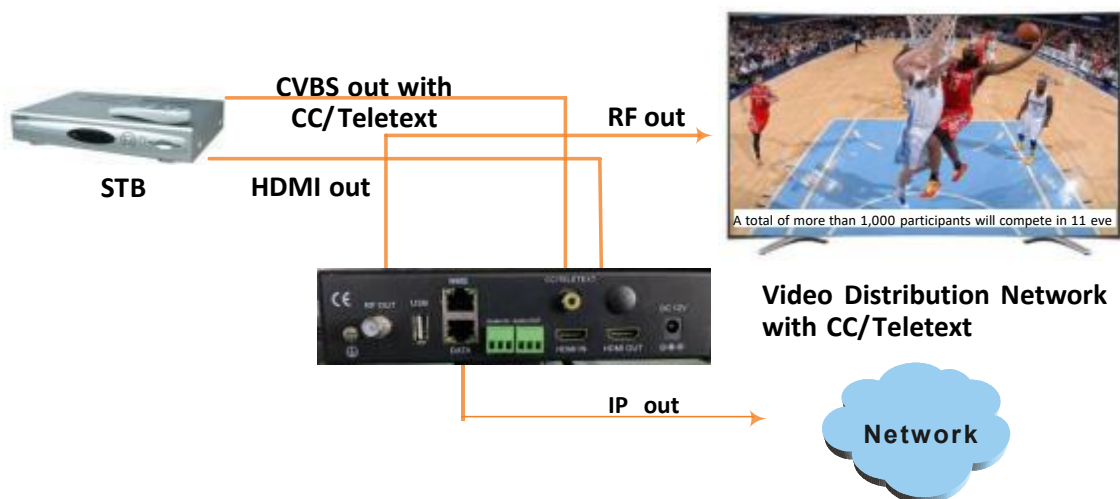


Teletext Standard as per EN300706 & EN300472

HP3556 Encoder Modulator can support

Teletext function to pushing text information such as domestic news, international news, sports news, weather forecasts, and TV program forecasts information etc.

CC/Teletext Example:



Key Features

- HDMI input with H.265/h.264 video (**4K encoding for H.265 only**)
- DVB-C/DVB-T/ISDB-T/ATSC RF OUT for order option
- IP output over UDP, RTP/RTSP from the 100/1000M self-adaptive data port
- Support AC3 Pass-through
- Support OSD (logo/QR Code) insertion , logo in PPT form is available
- Support CC (Closed Caption) /Teletext (**CC is not available for H.265 at present**)
- Support Audio delay function
- Support TS recording and playing via the USB disk (FTA 32)
- LCD Screen for easy management

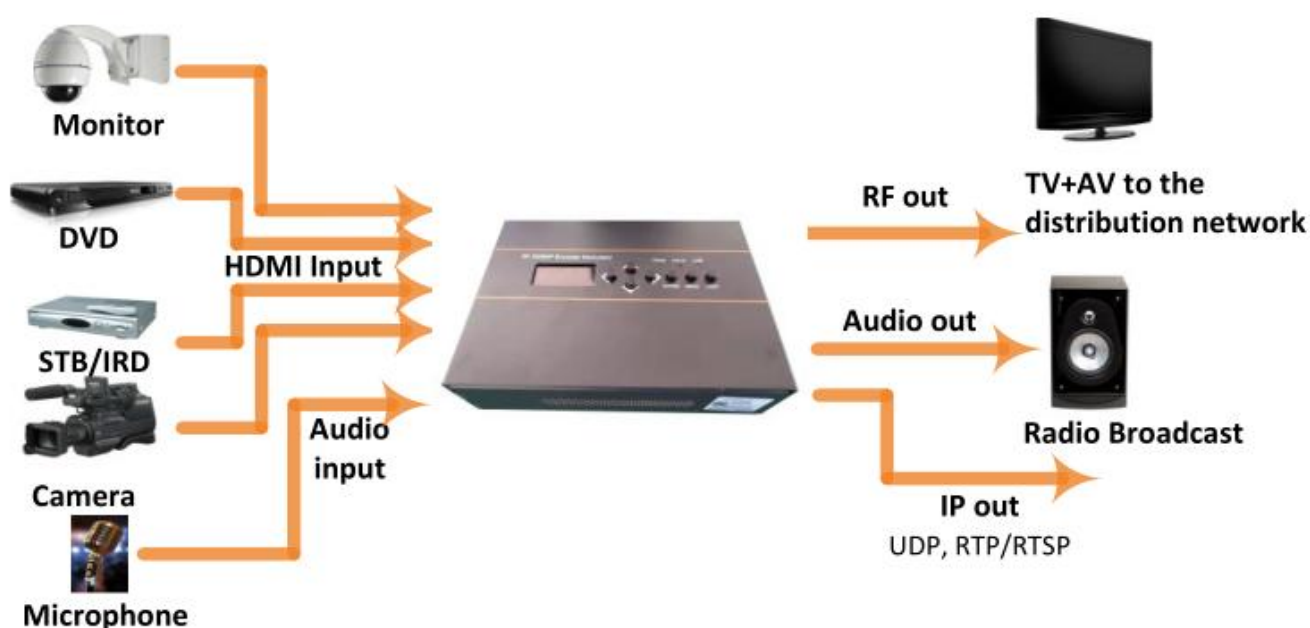
General Description

CATCAST HP3556 4K 50/60P encoder modulator is designed based on consumer electronics which allow HDMI signal input in TV distributions with applications in home entertainment, surveillance control, hotel Digital Signage, etc.

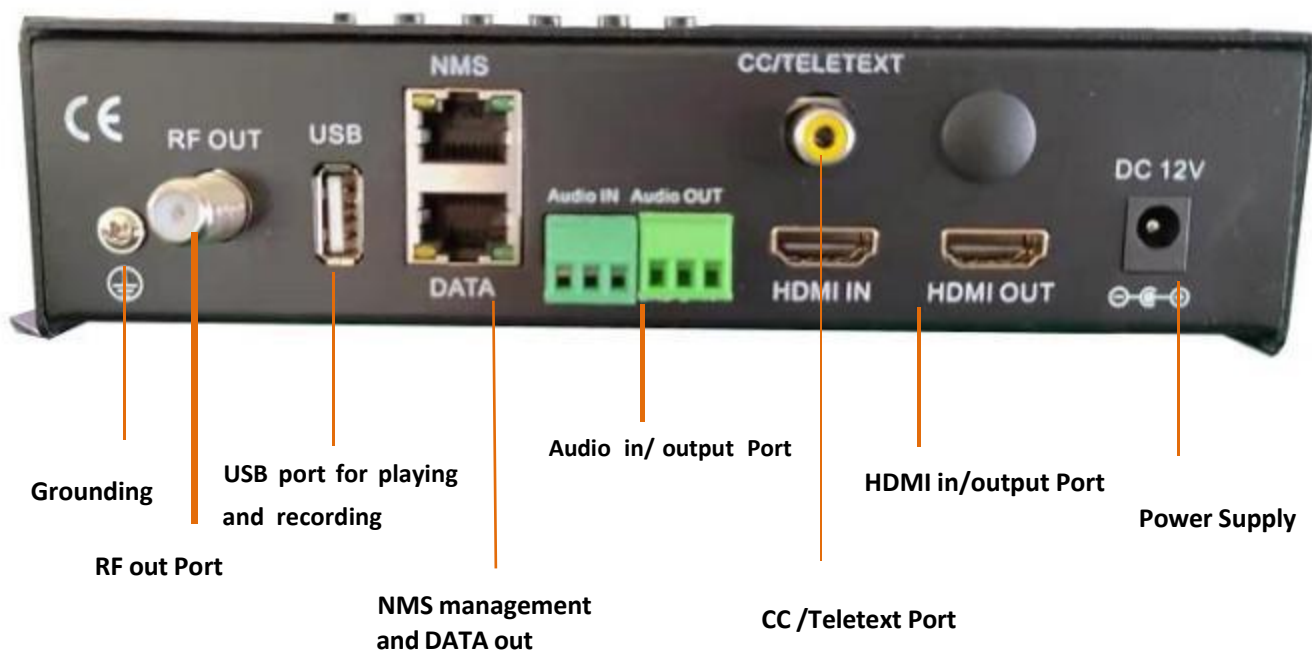
It is an all-in-one device integrating encoding and modulating to convert audio/video signals into DVB-C/DVB-T/ISDB-T/ATSC RF out.

The signals source could be from STB, satellite receiver, closed-circuit television cameras and etc. Its output signal is to be received by TVs or STBs etc.

System Connection



Appearance and Description



Technical Specifications

HDMI Encoding Section

| | | |
|-------|---------------|--|
| Video | Encoding | HEVC/ H.265 , MPEG 4 AVC/H.264 |
| | Interface | HDMI*1. HDMI loop out*1 |
| | Resolution | 3840*2160_60/50P(H.265 only), 1920*1080_60/59.94/50P, 1280*720_60/59.94/50P, |
| | Chroma | Input:4:4:4/4:2:2; output:4:2:0 |
| | Bitrate | 2Mbps~20Mbps |
| | Rate Control | CBR/VBR |
| | GOP Structure | IBBP, IPPP |

| | | |
|-------|-----------------|---|
| Audio | Encoding Format | MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2; AC3 Pass-through |
| | Sample rate | 32KHz,44.1KHz,48KHz |
| | Bit-rate | 48Kbps~384Kbps (MPEG-1 Layer 2 & LC-AAC) 24 Kbps~128 Kbps (HE-AAC) 18 Kbps~56 Kbps (HE-AAC V2) |

IP output

IP out over UDP (Unicast/multicast), RTP/RTSP, (RJ45, 100M/1000M self-adaptive)

DVB-C Modulator Section

| | | |
|-----------------|-----------------------------|-------------|
| Standard | J.83A (DVB-C), J.83B | |
| MER | ≥40dB | |
| RF frequency | 100-1000MHz, 1KHz step | |
| RF output level | -20~ -5dBm, 1dB step | |
| Symbol rate | 5.000~7.000Mspss adjustable | |
| | J.83A | J.83B |
| Constellation | 16/32/64/128/ 256 QAM | 64/ 256 QAM |
| Bandwidth | 8M | 6M |

DVB-T Modulator Section

| | |
|--------------------|-------------------------|
| Standard | DVB-T COFDM |
| Bandwidth | 6M, 7M, 8M |
| Constellation | QPSK, 16QAM, 64QAM |
| Code rate | 1/2, 2/3, 3/4, 5/6, 7/8 |
| Guard Interval | 1/32, 1/16, 1/8, 1/4 |
| Transmission Mode: | 2K, 8K |
| MER | ≥35dB |
| RF frequency | 100-900MHz, 1KHz step |
| RF output level | -63~ -16dBm, 1dB step |

| ISDB-T Modulator Section | |
|--------------------------|-------------------------|
| Standard | ARIB STD-B31 |
| Constellation | QPSK, 16QAM, 64QAM |
| Guard Interval | 1/32, 1/16, 1/8, 1/4 |
| Transmission Mode | 2K, 4K, 8K |
| Code rate | 1/2, 2/3, 3/4, 5/6, 7/8 |
| RF frequency | 100~900MHz, 1KHz step |
| RF output level | -63~ -16dBm, 1dB step |

| ATSC Modulator Section | |
|------------------------|-----------|
| Standard | ATSC A/53 |
| Constellation | 8 VSB |

| | |
|-----------------|-----------------------------------|
| RF output level | -63~-16dBm (44~91 dBμV), 1dB step |
| MER | ≥35dB |
| RF frequency | 100~900MHz, 1KHz step |
| RF output level | -63~ -16dBm, 1dB step |

| System | |
|------------|-----------------------|
| Management | Web-GUI, LED+Keyboard |
| Language | English |
| Upgrade | Web update |

| General | |
|--------------|--------------|
| Power supply | DC 12V |
| Dimensions | 203*144*52mm |
| Weight | < 1kg |

Typical Applications

...for communities of residents
an information channel on their television



...for restaurants
information about daily menus ,special deals,etc



...for hotels
meeting rooms,exhibitions,message,etc



...for hospitals
training courses, healthy guide, etc



...for Public Spaces
adversing,user information,news,etc



...for shopping centres
new collections,special deals,etc



**Create your own advertising and information channel
with HP3556 Encoder Modulator**