

## HP39xD HD IRD



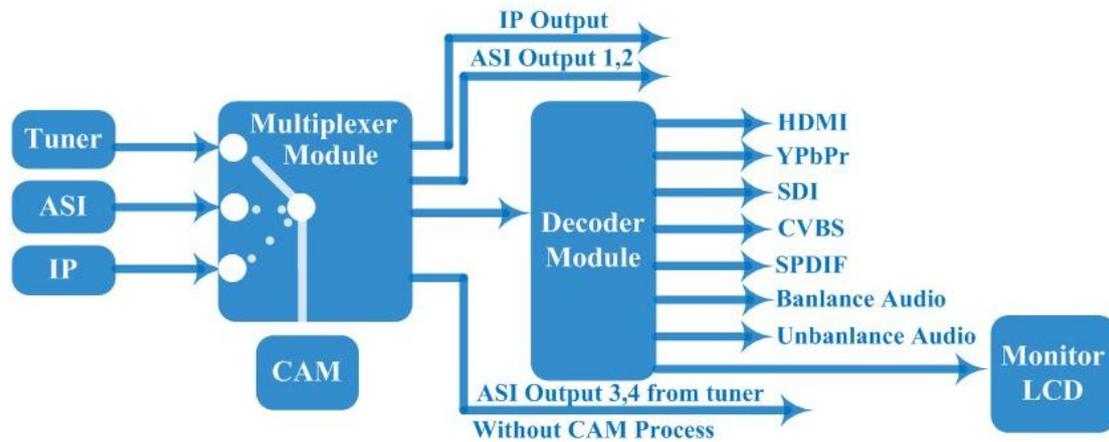
### Outline

HP39xD HD IRD is Catcast's new design IRD with LCD video monitor equipped on the front panel. It can receive signals from tuner (DVB-C, DVB-T/T2, DVB-S/S2, DMB-T, ISDB-T, and ATSC-T optional), ASI and IP sources. After multiplexing and de-encryption with CAM module, it gives content out through ASI, IP as well as various video/audio interfaces. Its video/audio outputs support professional HD/SD-SDI, YPbPr, HDMI, stereo balanced audio, stereo unbalanced audio and S/PDIF digital audio and CVBS, which can greatly satisfy the professional users' needs. With the CAM/CI slot, HP39xD can support one channel (Tuner, ASI or IP) de-scrambling and give transparent signal output. User can operate the device by using front panel LCD or NMS/SNMP software or Webpage-based NMS. Moreover, users can choose to have an optional ASI output which can pass through the encryption data source directly from tuner.

### Features

- Support DVB-C, DVB-T/T2, DVB-S/S2, DMB-T, ISDB-T, and ATSC-T RF Input optional
- Real-time video Monitor LCD in the front panel
- MPEG-2 & H.264 video decoding
- Support AC3 pass through (for SDI interface only)
- Re-multiplexer embedded
- Support Tuner, IP, ASI Input at the same time
- Support IP, ASI, Decoding output at the same time
- Support 1 MPTS or 8 SPTS output
- Support CAM/CI card insert
- Support BISS descrambling: Mode 1 and Mode E
- Support CC (Closed Caption) – for SDI and CVBS interfaces
- Support Front Panel and NMS/SNMP network management and Web management

## Principle Chart



## Specifications:

Input	Tuner	1 Tuner (DVB-C/DVB-S/ DMB-T/DVB-T/ DVB-S2/ ISDB-T/ATSC-T / DVB-T2 optional)  DVB-C: 47 MHz~860 MHz, 16/32/64/128/256 QAM  DVB-S: 950 MHz~2150 MHz, symbol rate: 2~45Mbauds  DMB-T: 146MHz ~862 MHz, 6/7/8 M bandwidth  DVB-T: 146MHz ~862 MHz, 6/7/8 M bandwidth  DVB-S2: 950 MHz~2150 MHz, symbol rate: QPSK 1~45Mbauds, 8PSK 2~30Mbauds  ISDB-T: 153 MHz ~862 MHz, 6/7/8M bandwidth  ATSC-T:54MHz~858MHz, 6M bandwidth  DVB-T2:44MHz ~1002 MHz, 6/7/8 M bandwidth
	ASI	1 ASI IN
	IP	1 IP over UDP, RTP/RTSP (100M, RJ45 Port)
Output	ASI	2 separate groups of output ports (each group has 2 channels)
	Video	1xHD/SD-SDI(BNC):1080i@25, 29.97, 30fps; 720p@50, 59.94fps; 576i@25fps; 480i@29.97fps
		1 x HDMI: 1080i@25, 29.97, 30fps; 720p@50, 59.94fps

		1xCVBS(BNC): 576i@25fps, 480i@29.97fps
		1xYPbPr(BNC): 1080i@25, 29.97, 30fps; 720p@50, 59.94fps
	Audio	Stereo unbalanced audio: BNC interface Stereo balanced audio: XLR interface Digital audio: SPDIF
Video Decoding	MPEG-2, MPEG-4AVC/H.264	
Audio Decoding	MPEG1 layer 2, AC3, HE-AAC(v2), LC-AAC	
NMS Port	Ethernet Port	10/100M
	Protocols	TS Over IP : UDP NMS : UDP
System	Management: front panel (LCD + Keyboard); Network (NMS/SNMP); Web Management	
	English and Chinese interface conversion	
	Ethernet port for CPU/FPGA upgrade	
	USB port for decoder upgrade	
	LCD Monitor for decoding video	
Miscellaneous	Dimensions ( L×W×H)	482mm*360mm*44mm
	Approx weight	3.5kg
	Power	100-240VAC,50Hz, 20W(Max)
	Temperature	0~45°C(Operating),-20~80°C(Storage)

### Ordering Guide:

HP39xD, 'x' should be interpreted as different digits which indicate tuners of different standard.

HP391D DVB-C HD IRD

HP392D DVB-S HD IRD

HP394D DVB-T HD IRD

HP395D DVB-S2 HD IRD

HP396D ISDB-T HD IRD

HP397D ATSC HD IRD

HP398D DVB-T2 HD IRD