**Key Features**

- 16ch pentaplex real-time DVR
- Up to 16ch of IP Cameras (TBD)
- Supports HD-SDI/AHD/TVI/CVI/CVBS camera input
- Adaptive 3D Comb Filter for analog video input
- All channel real-time live monitoring & recording
- Individual network streaming (H.264 & MJPEG)
- HDD: 5 internal + 1 eSATA
- eSATA for storage extension (up to 5 more HDD)
- Advanced mirroring (dual recording) built in
- HDMI/VGA simultaneous output
- CVBS output for spot or dual monitor
- Health checking (FAN speed & failure checking, temperature sensing HDD smart)
- Sensor-triggered PTZ action
- User privilege to control the access on cameras live/playback/copy etc.
- Linear digital zoom for live and playback
- Panorama search
- Integrated search, copy and playback
- Direct AVI formatting for copy
- Multiple GUI resolution adjustable to various monitor type (HDMI, VGA)
- Low transmission latency
- Date/time adjustment by DST, NTP
- 2-way full duplex audio
- Auto port forwarding (uPNP), DNS, Login/out
- Configurable resolution, quality & fps for network streaming directly from client
- RA (Remote Agent), VMS
- Web-based remote setup & viewer
- H.264-based mobile device support: iOS/Android

**Technical Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>UK-HDF16XA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Mode</td>
<td>QUADplex</td>
</tr>
<tr>
<td>Live Display Speed (NTSC/PAL)</td>
<td>Realtime (480/400 fps)</td>
</tr>
<tr>
<td>Recording</td>
<td>480/400 fps</td>
</tr>
<tr>
<td>Network</td>
<td>Individual Streaming (H.264/150M)</td>
</tr>
<tr>
<td>Video Input</td>
<td>No of IP: 15</td>
</tr>
<tr>
<td>Video Output</td>
<td>HDMI, CVBS/BN'C</td>
</tr>
<tr>
<td>Screen Division</td>
<td>1/4, 1/8 Split Screen</td>
</tr>
<tr>
<td>Audio</td>
<td>4 line in (RCA)/4 line out (RCA) &amp; HDMI</td>
</tr>
<tr>
<td>Alarm</td>
<td>16 x 1 out (Relay)</td>
</tr>
<tr>
<td>Storage</td>
<td>eSATA</td>
</tr>
<tr>
<td>Archive</td>
<td>USB Device (HDD, Flash Drive), NAS &amp; Remote via Network</td>
</tr>
<tr>
<td>USB Port</td>
<td>2 Ports</td>
</tr>
<tr>
<td>Motion Area</td>
<td>64x64</td>
</tr>
<tr>
<td>Ethernet Port</td>
<td>DIP, DINS, P2P, UPnP, HTTP, RTP, SNTP, SMTP, ONVIF, Push Notification</td>
</tr>
<tr>
<td>Power (Adaptor)</td>
<td>Adaptor (12V/5A or higher)</td>
</tr>
<tr>
<td>Remote SW's</td>
<td>CMS / RMS Web / MAC OSX / Android / iOS</td>
</tr>
<tr>
<td>Case</td>
<td>2U (430 x 443 x 88), Rack Mount Support</td>
</tr>
</tbody>
</table>

**Advanced Features**

- Dedicated Network Streaming: H.264 with various resolution (5x5/Quad Quality/FPS control from various viewers)
- Mirroring: Configurable Dual Recording by channel & by event
- Playback Mode: Calendar / Time / Event / Panorama (Motion, Alarm, V-Loss)
- Event Channel Popup
- Sensor Triggered PTZ Activation
- Motion Sensor Display
- PTZ Tour, Event Preset
- S.M.A.R.T HDD Check
- Email with Snapshot
- Recording Time Limit
- Log Out Function
- Log View
- HDD & S.M.A.R.T Status
- Privacy Zone Masking
- Copy
- Digital Zoom
- REC Quality, FPS Control per Channel

**System with HD Analog cameras and HD-SDI cameras**

![Diagram of system with HD Analog cameras and HD-SDI cameras]

**Diagram Notes:**
- HD Analog Camera
- HD-SDI Camera
- Light
- Door
- Power
- Camera
- UK-HDF16XA
- DVR System
- WAN
- CMS
- Web
- Mobile App

**Full HD Penta 1080p**

**Freedom Full Pentaplex Standalone Digital Video Recorder**