Multi-Channel Video Transmitter

Bandwidth Managed VB-40 Series

What it is
The VB-40 is a powerhouse unit that provides multi-channel, reliable live video feeds with full manual and automatic bandwidth adaption to suit low cost network connections such as GPRS, 3G, ADSL/DSL and Satellite.

The VB-40 series can be configured to accept up to 16 analogue video inputs or unlimited IP camera inputs. It uses Vemotion technology to compress and transmit live video over a variety of networks, including low bandwidth networks from location to location, typically remote CCTV hubs back to a central control room and, optionally, out to other deployed operatives for remote access if required.

The VB-40 has been designed for maximum capacity and throughput. The ability to connect multiple cameras and configure multiple outputs gives maximum power, flexibility and efficiency of resources. VB-40 can be ‘dropped’ into location and give immediate access to camera systems already in place. For example, from a private CCTV hub for temporary remote access, or to connect multiple locations and control rooms together where other network options would be cost prohibitive.

How it works
The VB-40 series requires power, multiple video inputs (16 analogue, unlimited IP) and a network via a separate 3G, Ethernet or satellite router.

Inputs and outputs (16 maximum outputs per unit) are configured and transmitted over the network to the control hub. The unit will connect to the server application and then, by installing a multi screen viewer application on a PC or mobile device, you can view multiple live video feeds from wherever you are. Full telemetry for control of cameras is provided and automatic bandwidth adaptation offers maximum flexibility. For example, 16 simultaneous streams can be viewed from each VB-40 unit and the operator can choose to increase the resolution of any of the feeds to provide enhanced video quality. The VB-40 will respond by automatically changing the video quality of other feeds in order to give the required channel the most bandwidth. Then, after the event, the operator can return the VB-40 to normal operation which will share the available bandwidth between all feeds once more.

This means that a fixed bandwidth can be intelligently distributed across all the video feeds in order to provide the optimal operating solution for the user.

Reliable stream technology provides live video
View live video transmitted from remote locations to the control room over GPRS/3G
Connectivity even in the most demanding network conditions
Multi-screen view of video feeds
3G not required for connection
Ease of use increasing speed of set up and accessibility
No special SIM cards or airtime contract required
Automatic bandwidth and video quality management
Reliable – supports unattended operation
Fixed bandwidth ceiling
The benefits of Vemotion

Vemotion’s highly efficient H.264 based video compression is optimised for very low bandwidths, meaning live video will be delivered reliably, even from the most challenging areas. The system is designed to be ‘plug and go’, is highly reliable and does not require any specialist SIM cards or expensive airtime contracts. Furthermore, allowing you to control the bandwidth used at any time means you are in complete control. As with all transmission technologies, seeing is believing - so call us for a demonstration.

The Vemotion VB-40 provides reliable and quality video transmission over low cost networks. Up to 16 analogue inputs, unlimited IP inputs (subject to licensing). Up to 16 simultaneous output streams.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>185mm x 384mm x 410mm&lt;br&gt;Power Input Voltage: 200 to 240V AC&lt;br&gt;Configuration Interface: Local UI and remote&lt;br&gt;Max Power Requirements: 1.25a (300w)</td>
<td>Suitable for control room use</td>
</tr>
<tr>
<td>Local recording</td>
<td>16 analogue input streams&lt;br&gt;16 simultaneous output streams&lt;br&gt;Capable of unlimited IP inputs&lt;br&gt;Remotely programmable encoding programs</td>
<td>Powerful but flexible&lt;br&gt;Allows multiple operational options</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>GPRS/3G/CDMA, Ethernet, Serial</td>
<td>Flexible&lt;br&gt;International / Global capability&lt;br&gt;No need for fixed infrastructure</td>
</tr>
<tr>
<td>Low bandwidth support</td>
<td>Compression optimised H.264</td>
<td>Bandwidth efficient&lt;br&gt;Configurable&lt;br&gt;Flexible operation</td>
</tr>
<tr>
<td>Client server architecture</td>
<td>Control functions and processing retained on central server</td>
<td>Highly secure&lt;br&gt;Rapid response&lt;br&gt;Control retained at highest level</td>
</tr>
<tr>
<td>Resource activity status</td>
<td>Multiple simultaneous streams</td>
<td>Monitor additional CCTV feeds&lt;br&gt;Directed operator attention</td>
</tr>
<tr>
<td>User management</td>
<td>Resource activity status&lt;br&gt;Remotely programmable encoding programs&lt;br&gt;Remote snapshot&lt;br&gt;Remote telemetry (multiple protocols)</td>
<td>Flexible operation&lt;br&gt;Remote control&lt;br&gt;Directed operator activity and monitoring</td>
</tr>
<tr>
<td>Stream management</td>
<td>Auto reconnections and communications management</td>
<td>Serves multiple operators&lt;br&gt;Increased flexibility&lt;br&gt;Efficient use of resources</td>
</tr>
</tbody>
</table>

*Some features are model dependent. Contact us for more details.*

W: www.vemotion.com  T: +44 (0) 1845 52 11 12  E: info@vemotion.com