

Falcon IP™ for IP and ISDN Networks

An Easy-to-Use Set-Top Appliance, Offering Advanced Functionality at Low Cost for both IP and ISDN Networks

Falcon IP is a dual-mode communication set-top appliance that operates over both IP and ISDN networks. It delivers group system quality and performance, is easy to use and has a small footprint. With advanced features like Interactive Multicast participant support, VCON PacketAssist™ Architecture and Ad-hoc conferencing support, Falcon IP is the best solution for users looking to start or grow their videoconferencing network with a TV-based set-top solution.

- ✘ IP Data Rates up to 768Kbps
- ✘ ISDN Data Rates up to 384 Kbps
- ✘ T.120 Data Sharing over ISDN
- ✘ PacketAssist™ Architecture for Enhanced QoS
- ✘ Interactive Multicast Participant
- ✘ Web-based Management, Configuration and Updates
- ✘ Call Transfer and Ad-Hoc Conferencing via VCON MXM
- ✘ Multiple Language Options
- ✘ Remote ISDN Call Initiation



Falcon IP is a compact, affordable appliance delivering advanced performance over IP and ISDN networks.

The versatility of the Falcon IP allows for multiple application uses with an intuitive user interface. Falcon IP's hand-held remote has a unique and user-friendly two-tier design, separating frequently used buttons from those required to control more complex functions. Dual-mode communications support not only allows both ISDN and IP conferencing, but also offers an investment protected migration path from ISDN to IP. Additionally, ISDN conferences can be further enhanced with data sharing applications via a simple laptop/PC connection.

Falcon IP, like all VCON videoconferencing products, features VCON's exclusive PacketAssist architecture, allowing Falcon IP to automatically adapt to network conditions, while ensuring that users experience the best possible audio and video performance. Falcon IP includes Interactive Multicast participant support, enabling the Falcon IP to join a VCON Interactive Multicast session with the click of a button. With VCON's award-winning Media Xchange Manager™ (MXM), Falcon IP can receive remote software upgrades, can be remotely configured and can take advantage of the MXM's video telephony features such as call transfer and call forward. In addition, Falcon IP supports MXM's Ad-Hoc Conferencing which allows a Falcon IP user, with the click of a button, to bring a 3rd party into a videoconference, making it a multipoint videoconference.

In addition to furthering VCON's IP leadership, Falcon IP has an elegant, industrial design, and features one of the smallest footprints in the industry. Overall, Falcon IP is an attractively priced, robust, simple-to-use videoconferencing system and represents an excellent all-round solution for the enterprise-wide network.

Products and Models



Falcon IP Model 1: 1 ISDN line (1BRI) up to 128 Kbps and IP up to 768 Kbps
 Falcon IP Model 3: 3 ISDN line (3BRI) up to 384 Kbps and IP up to 768 Kbps

Specifications ITU-T Standards: H.323 (Rev 2) - H.320 - H.281 - H.243 - H.221

Video:

Compression: H.261, H.263, Annex Q (FECC)
 Resolution: FCIF (352x288), QCIF (176x144)
 Inputs: Main Camera
 Doc Camera - S-Video
 2nd Camera - Composite
 VCR in - Composite (for playback)
 Outputs: Main Monitor - S-Video
 2nd Monitor - Composite
 VCR out - Composite (recording)

Graphics:

Resolution: H.261, Annex D
 H.263 4xFCIF
 Image capture: bmp File via Web Server

Audio:

Compression: G.711, G.722, G.728
 Inputs: Tabletop microphone (mini stereo)
 Line level L+R - RCA (VCR)
 Outputs: Line level L+R - RCA (Monitor)
 Line level L+R - RCA (VCR)

Full Duplex Audio:

Acoustic Echo Cancellation (AEC)
 Automatic Gain Control (AGC)
 Automatic Noise Suppression (ANS)

Ethernet Support:

10Mbps Ethernet Interface
 TCP/IP, DNS, WINS, DHCP

Network Interfaces:

Interface	Rates	Increments
H.320	56/64 Kbps - 384 Kbps	56/64 Kbps
H.323	64 Kbps - 768Kbps	64 Kbps

Main Pan/Tilt/Zoom (PTZ) Camera:

Image device: 1/4" CCD
 Pixels: NTSC - 768 x 494
 PAL - 752 x 585
 Lens: 10 x Zoom
 Focal length: 4.2 to 42 mm
 Automatic White Balance

Preset positions:

10 Preset positions for local camera
 10 Preset positions for far end camera

Remote Management:

Configuration, diagnostics and S/W upgrades via IP
 Uses Internal Web Server

Data:

T.120 Data Sharing over ISDN

Electrical:

Auto sense power supply
 Operating voltage: 100-250VAC / 50-60Hz

Operation:

Easy-to-use, hand-held remote control

Environmental:

Operating temperature: 0°C - 40°C
 Humidity: 15% - 80%

Physical Size: 34cm x 18.5cm x 11cm
 Weight: 1.8kg

Warranty: One year

Additional Key Features

- Supports Far End Camera Control (FECC)
- Moveable picture in picture (PIP)
- Auto swap PIP
- Still picture send/receive (Annex D)
- Supports mixed audio inputs
- Auto and manual call answer
- Manual dial, phone book and speed dial
- Software upgrade over IP networks
- English, French, Italian, German, Spanish (Spain and Mexico), Portuguese (Brazil and Portugal) & Japanese

MXM Supported Features

- Call Transfer
- Ad-Hoc Conferencing
- Online Directory
- Hunting Groups
- Simplified Gateway Dialing
- User Mobility
- Remote Software Upgrade
- Remote Configuration
- Remote Call Initiation (IP/ISDN)
- Remote Reboot
- View ISDN Status
- Endpoint Property Setting Lockout

What's In The Box?

- Falcon IP set-top unit
- Easy-to-use, hand-held remote control
- Tabletop microphone
- Quick Reference card, color-coded cables and universal power supply
- User's Guide
- Serial cables for maintenance

Optional Accessories

- 29" TV Monitor
- Cart
- Document camera

DOC 50067 Rev.4.07.02



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