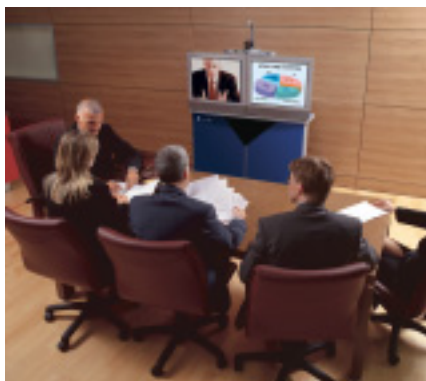# SUPERNOVA™ PRO 233

Enriches Collaboration
Integrated, multi-standard MCU connects up to 7 sites with Continuous Presence feature

Flexible
Complete system with monitor on an attractive rollabout stand for meeting rooms of any size

Superior Audio and Video
Delivers rich, full-duplex sound with echo cancellation and automatic noise suppression

OVERVIEW

Compact and convenient to maneuver, Supernova™ Pro 233 integrates a complete videoconferencing system in a professional, sleek rollabout, making it ideal for large and medium-sized conference rooms.
The integrated Multipoint Conferencing Unit (MCU) connects up to 7 sites in mixed mode (ISDN and IP), with convenient dial-out and dial-in (Meet Me) configuration. Continuous Presence feature enables participants at all sites to view one another simultaneously.

MULTIPLE NETWORK CONNECTIVITY
Supports 768 kbps over ISDN BRI and 2 Mbps over IP; as well as connections up to 2 Mbps over ISDN PRI and IP, or over leased lines (X.21, V.35, RS449, G.703).

SIMULTANEOUS DUAL-STREAM VIDEO
Convenient XGA input and output ports provide one-step PC plug-in or LAN connection for simultaneous dual-stream video and live PC presentations with enhanced images.

MULTIPOINT CONFERENCING
The built-in MCU, with Continuous Presence feature, can connect up to 7 sites over ISDN and IP. Timesaving dial-out and dial-in (Meet Me) configuration easily enables participants to join conferences in progress.

VOICE TRACKING PATENTED
Voice Tracking technology enables the camera to automatically track and frame the person who is speaking.

FEATURES AT A GLANCE

☐ Complete system, including monitor, on a single, rollabout stand

☐ Simultaneous dual-stream video

☐ Supports ISDN, IP, V.35/leased networks

☐ Integrated MCU with Meet Me configuration

☐ Embedded PowerPoint® presentations

☐ Patented Voice Tracking camera

☐ 360°, full-duplex, hands-free audio with echo cancellation

☐ Automatic Noise Suppression

☐ Embedded web capabilities for remote management, diagnostics and software upgrades

TECHNICAL SPECIFICATIONS

SUPPORTED STANDARDS
- ITU-T H.320   ISDN, leased networks
- ITU-T H.323   IP networks
- Video   H.261, H.263++ (I,J,T,F)
- Audio   G.711, G.722, G.728, G.723.1
- Data   T.120
- MCU compatibility H.243

TRANSMISSION
- Bit rate   56 ÷ 768 kbps over ISDN 6 BRI
    56 ÷ 2 Mbps over ISDN PRI*
    64 ÷ 2 Mbps over IP
    56 ÷ 2 Mbps over V.35/Leased

*in North America ISDN PRI/T1 at 1544 kbps (ANSI T1 recommendations)
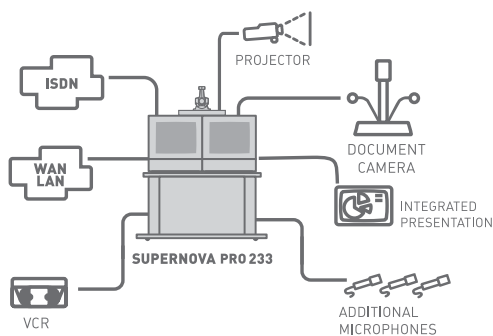- Simultaneous video motion coding and PC presentations from the XGA input

VIDEO
- Frame rate   15 frames per second @ 56–128 kbps
    30 frames per second @ 168 kbps – 2 Mbps
- Video resolution   4CIF 704x576 pixels
    FCIF 352x288 pixels
    QCIF 176x144 pixels
    4CIF 704x576 pixels for still images (H.261 Annex D)
    Up to 1024x768 over XGA in H.263
- Camera remote control   H.281 (H.320)
    H.282/H.283 (H.323)

AUDIO

Audio	Band	Bit rate
G.711	300 ÷ 3400 Hz	56 kbps
G.722	50 ÷ 7000 Hz	48/56 kbps
G.723.1	300 ÷ 3400 Hz	5.3/6.3 kbps
G.728	50 ÷ 3400 Hz	16 kbps

- Echo cancellation   Full-duplex
- Echo Return Loss Enhancement (ERLE)   30 dB
- Automatic Gain Control (AGC)   ±12 dB
- Automatic Noise Suppression
- Bi-amplified bass treble loudspeaker   2x40 W

AUDIO TRACKING
- Tracking   Enhanced Voice Tracking
- Coverage   max. 7 m, recommended 4 m
- Location   ±60° horizontal, ±25° vertical

DIGITAL MICROPHONE POD
- Range   360°
- Response   50 ÷7000 Hz
- Microphones   3
- Mute button
- Up to 2 pods in a daisy-chain configuration

CAMERA
- Resolution   752x582 pixels
- Presets   12 presets
- H. angle of view   6.6 to 65 degrees
- Zoom   40x (10x optical + 4x digital)

MONITOR
- TV set 33" – 100Hz
- Format PAL or NTSC
- Dual monitor, dual monitor + VGA
- PIP function

NETWORK INTERFACES
- ISDN
    6 BRI with integrated channel aggregator   6 RJ-45
    1 E1/T1 PRI with integrated channel aggregator   1 RJ-45
- Ethernet
    2-Port 10/100BASE-T full-duplex with integrated switch Ethernet   2 RJ-45
- Leased networks
    X.21/V.35/RS366/RS449/RS530   44 pin Hi/Den
    G.703   1 RJ-45

AUDIO/VIDEO INTERFACES
- Video input
    Main   S-video (Mini-DIN)
    3xAux   Composite (BNC)
    3xDoc. Cam.   S-video (Mini-DIN)
    XGA In   DB15 Hi/Den
- Video output
    Monitor 1   Composite (BNC)
        S-video (Mini-DIN)
    Monitor 2   Composite (BNC)
        S-video (Mini-DIN)
    VCR   Composite (BNC)
        S-video (Mini-DIN)
    XGA Out   DB 15 Hi/Den

- Audio input

Connection	Level	Connector
2xPod mic. 360°	Mic.	RJ-11 6/6
3xAux. mic.	Mic.	XLR
3xAudio In	Line	RCA

- Audio output

4xAudio Out	Line	RCA

AUXILIARY INTERFACES
- Voice Tracking   DB9
- Data RS232   DB9
- Diagnostics RS232   DB9
- VISCA RS232   Mini-DIN 8-pin supports Canon or Sony, aux PTZ camera
- PC card   1 PCMCIA, type III

USER INTERFACE
- Multilingual on-screen graphic user interface
- User selectable languages: Italian, English, French, Spanish, German, Portuguese, Norwegian, Swedish, Chinese
- Infrared remote control for full function control
- Contextual help
- Diagnostics and management functions
- Call progress monitoring
- Supports AMX™ or Crestron™ touch panels

MULTIPOINT FUNCTION
- Integrated MCU   H.320 and H.323 mixed mode
    7 participants   @256kbps
    5 participants   @384kbps
    4 participants   @512kbps
    3 participants   @768kbps
- Compatible with analog and mobile networks
- Video coding   H.261, H.263++
- Audio coding   G.711, G.722, G.728
- Chair control   H.243
- Dial-In/Dial-Out capabilities
- Continuous Presence

WEB MANAGEMENT
All the configuration, call, diagnostics and management functions are accessible using the following web browsers: Microsoft® Internet Explorer™, Netscape Navigator™

REMOTE DIAGNOSTICS AND MANAGEMENT

	Local	Web Browser	SNMP
Self test	Yes	Yes	Yes
Diagnostics	Yes	Yes	Yes
Configuration	Yes	Yes	Yes
Call	Yes	Yes	
Error tracking	Yes	Yes	Yes

INTEGRATED PRESENTATION
- Supported applications Microsoft® PowerPoint®
- Multimedia support   T.120

POWER SUPPLY
- 110-120 Vac 60Hz 8 A Max
- 220-240 Vac 50Hz 4 A Max

DIMENSIONS
- SUPERNOVA PRO 233
    Width   216 cm (85")
    Height   191 cm (75")
    Depth   74 cm (29")

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