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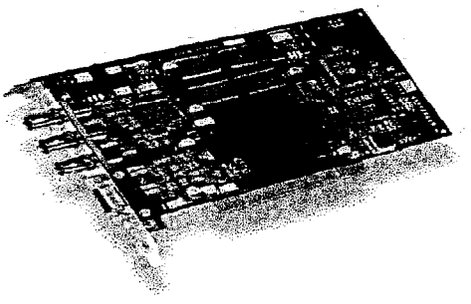
FutureTel®

Congratulations on choosing FutureTel's PrimeView ™ NS series MPEG compression solution. PrimeView encoders are recognized worldwide for their reliability and high quality A/V output.



PrimeView NS 325-C

Identical to the NS 325, but adds support for Component analog video (YUV) and balanced audio as input options for applications that require professional video inputs. It includes advanced video filtering options. The NS 325-C supports Full-D1 encoding up to 15 Mbps.

System Requirements

The minimum system hardware requirements for the PrimeWare Recorder are as follows:

For Single-channel Encode and Preview

CPU	Pentium-II 300 MHz and above (66 MHz Bus)
Memory	64 MB SDRAM minimum
Hard Disk	Ultra DMA/33 IDE or SCSI-2 or Ultra-SCSI with a minimum of 256K cache
Graphics Card	Standard AGP-2x video card and display drivers that support Microsoft DirectShow 5.2 and DirectDraw.
MPEG-2 Decoder	Any DirectShow compliant MPEG-2 Decoder, e.g. Sigma Designs Netstream-2000. Also, supported non-DirectShow decoders.
Operating System	Windows NT 4.0 or Windows 2000.

For Multi-channel (3) Encode and Preview :

CPU	Pentium III 733 MHz (100 Mhz System Bus)
Memory	128MB SDRAM
Hard Disk	4-6 GB Ultra-SCSI with a 512KB cache.
Graphics Card	STB Velocity 128 (AGP-2x)
MPEG-2 Decoder	Any DirectShow compliant MPEG-2 Decoder, e.g. Sigma Designs Netstream-2000. Also, supported non-DirectShow decoders.
Operating System	Windows NT 4.0 or Windows 2000.

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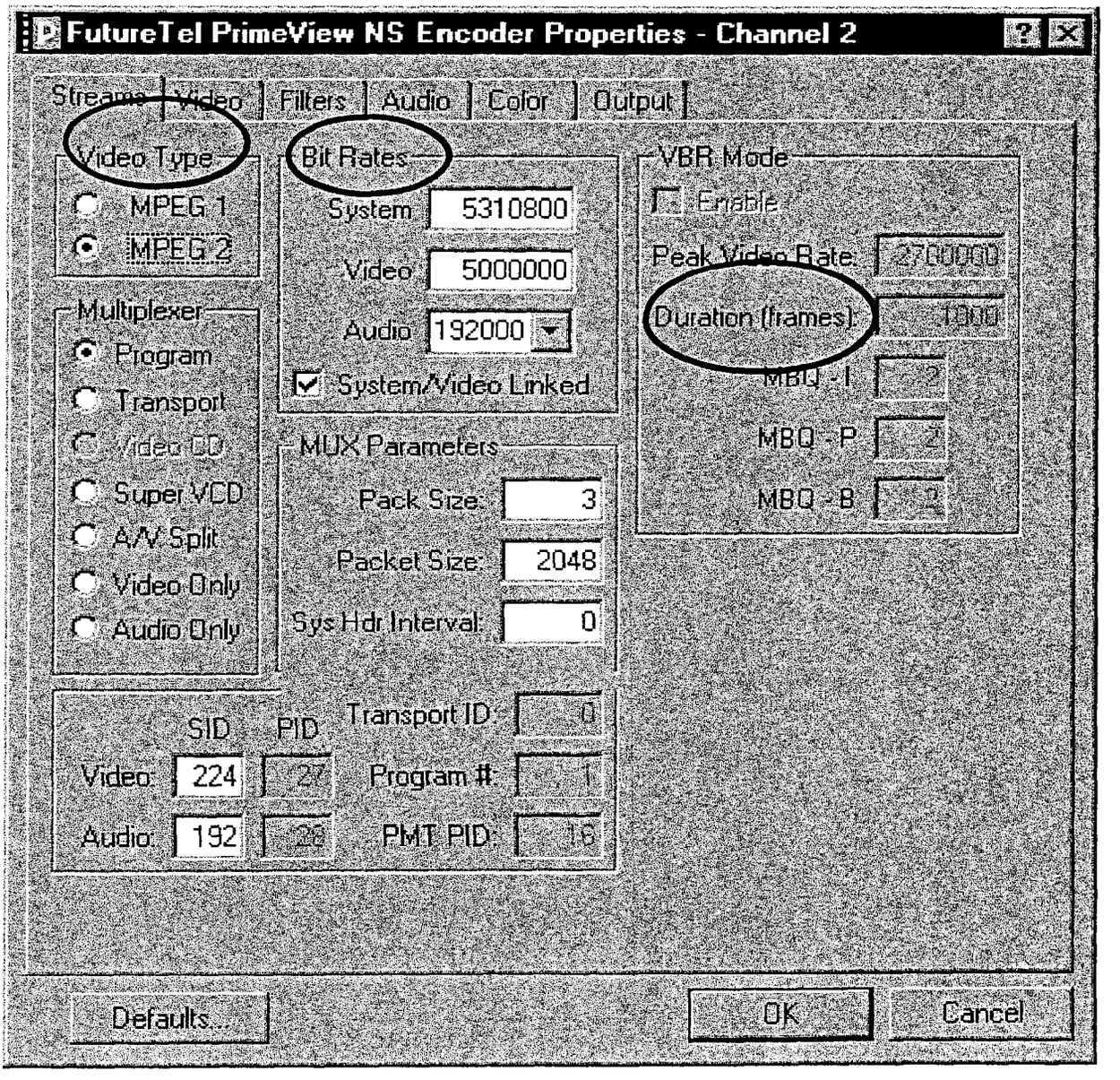
Streams Tab

The following section describes the function of each setting on the Streams Tab. These include the selection of Video Types, Multiplexer options, and Audio, Video and System Bit Rate options.



Video Type Settings

- **MPEG-1:** Defines that the encoded stream will be MPEG-1. MPEG-1 video resolution defaults to SIF. Alternatively, quarter-resolution QSIF resolutions may be selected.

- **MPEG-2:** Defines that the encoded stream will be MPEG-2. This setting defaults to the maximum horizontal resolution for the model of encoder in use. Other resolutions may be set, depending on the characteristics of the encoder. Refer to Horizontal Resolution in this section.

Bit Rate Settings

The Bit Rate settings specify the rate in bits per second (bps). A higher bit rate means less compression and better video quality. Conversely, a lower bit rate mean higher compression and less video quality.

- **System**: The System setting defines the overall multiplexed bit rate. If you change this setting, the Video bit rate will be automatically re-calculated. The System bit rate is the sum of the video and audio bit rates plus multiplexer overhead. If the Multiplexer is set to A/V split, Video Only or Audio Only, this field does not apply.

- **Video**: The Video setting defines the video bit rate. If you change this setting, the overall System bit rate will be automatically re-calculated. If the Multiplexer is set to Audio Only, this field does not apply.

- **Audio**: The Audio setting defines the audio bit rate. Audio bit rate values permitted by the MPEG standard appear in the pull-down menu. The available settings may vary depending upon other settings; e.g., Audio Mode. If you make a change to the Audio bit rate, the video bit rate will be automatically adjusted within the constraints of the System bit rate setting.

VBR Mode

- **Duration (frames)**: Specifies the duration of the content being encoded (in frames). This value is required for the VBR single-pass algorithm to efficiently achieve the specified Average Bit Rate. An approximate duration is sufficient.

  Example: For a VBR encoding of a 1 hour and 10 minute movie, calculate the total number of frames, thusly: *1:10 = 70 minutes = 4200 sec;*

  For PAL: 4200 x 25 fps = 105000 frames
  For NTSC: 4200 x 30 fps = 126000 frames

  Note: **Duration** is not used by PrimeWare to automatically stop the encoder. If the encoding is terminated by the operator early, or runs past the time specified, the bit stream may have an Average Bit Rate different than specified.