

BLINKOTV SPEC SHEET

Windows Xp/Vista application

No plans to release for another platform

System requirements

- Microsoft® Windows® XP Service Pack 2 or higher or
- Windows Vista (any)
- Intel Pentium® 3 or compatible processor; 933MHz or higher; (minimum)
- Intel Pentium® 4 or compatible processor; 3GHz or higher; (recommended)
- 256MB RAM minimum; 1GB recommended
- 40MB hard disk space
- 1024 x 768 Screen Resolution with 32 bit Color Quality
- Microsoft DirectX End-User Runtime version 9.0c
- Microsoft DirectShow-compatible video capture device(see below)
- High-speed internet connection
- Guaranteed upload bandwidth recommended
 - +More powerful computer configuration may be needed to encode in HD resolutions
 - +The application is able to take advantage of multiple core/cpu systems

Installer

- Nullsoft Install System

Video capture source

- DirectShow-compatible webcam, capture card, dv camera, virtual imaging software (i.e. splitcam)
- Analog tv tuner card/device
 - +Digital tuner support will be available in the future (for digital cable, digital over-the-air)
 - +Satellite tuner support will be available in the future (DVB-S)

Video properties

- Bitrate:
 - +Customizable, any bitrate can be set for upload
 - +Good results starting at 100kbit
 - +No imposed upper limit, successful high definition tests have been carried out for bitrates up to 5Megabit
 - +Multiple bitrate encoding (similar to windows media's intelligent streaming) will be available in a future release
- Resolution:
 - +Up to 1080p
 - +best results on recommended configuration for up to 480p
 - +source video(fixed size) can be scaled up or down to almost any dimension
 - +custom cropping of any edge will be available in the future
- Framerate
 - +Up to 60fps or video source's maximum
 - +best results on recommended configuration for up to 30fps
- Frame quality
 - +Customizable, minimum and maximum frame quality can be explicitly set in a value of quantizer (higher is worse) 0-63
 - +Default values for min and max are 45 and 4 (in the above 0-63 interval)
 - +if the minimum enforced frame quality cannot be achieved within the set bitrate the encoder starts dropping frames(see below)
- Frame dropping
 - +is enabled by default(permitted). can be made customizable (broadcaster will choose that frames are not to be dropped)
 - +if frame drop is not permitted yet minimum quality cannot be achieved the encoder has no other alternative (and will do so) but to exceed the set bitrate

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Audio properties

- Bitrate:
 - + Variable, ranges in between 20-224 kbps, depending on format, channels and sample rate
- Codec
 - + NellyMoser speech codec (http://en.wikipedia.org/wiki/Nellymoser_Asao_Codec_in_Flash)
 - + Mp3
 - + AAC will be available in the future
- Sample rate:
 - + 44100, 22050, 11025, 8000, 5000 Hz(samples/sec) for NellyMoser
 - + 44100, 22050, 11025 for mp3
- Channels:
 - + 1(mono), 2(stereo) for mp3
 - + 1(mono) for NellyMoser
 - + multiple channel audio will be available along with AAC compression

Delivery network

- Scalable infrastructure of Flash Media Server platforms
- Virtually no max audience limits.
- Streams and clients can be re-routed on the fly.
- Extra servers can be added or removed transparently during broadcasts.
- Reserve streaming power and servers are kept on standby at all time to cover for sudden audience changes (i.e. rush hour, favorite show)

*iPTV Hosting account with EyePartner required. Dealers and strategic partnerships are welcome. Please contact us!

