

Breeze Technologies BLUE Product Feature Set

BLUE (Lite Blue and Deep Blue encoders): BLUE stands for **B**reeze **L**ine of **U**niversal **E**ncoders. The encoders are designed from an in-depth understanding of the video markets and the video compression business.

The products are designated *universal* because they meet a very wide range of applications, provides a high degree of functionality and they meet the needs of markets ranging from broadcast and commerce to institutional and industrial.

There are currently two boards; the Lite Blue which is designed for general purpose broadcast, commercial, institutional and industrial applications and Deep Blue which is designed for broadcast and post production, offering SDI, embedded digital and balanced audio.

1. MPEG1, MPEG2 and MPEG4 encoding

BLUE products are high performance MPEG1, 2 and 4 encoders

- > The chip used for encoding is the very latest in processing technology and encoding algorithms.
- > Incorporating the three MPEG formats on the same board offers users the maximum flexibility and in some cases protection for the future.

2. MPEG1/2/4 decoding

BLUE boards are also high quality decoders and can be used as such across a wide range of streaming and archiving applications.

3. Codec & Preview

One of the benefits of having the luxury of encoding and decoding on the same board is that it can act as a codec. This allows users to monitor the encoding and provides added confidence when used in critical applications.

- > In addition to the codec functionality we have adding 'Video Preview'. This allows for a live preview of the encoder output irrespective of whether the codec is in use to switch between VGA (encode or decode) and composite video

4. Comprehensive choice of inputs and outputs

Across the Lite Blue and Deep Blue product a wide range of video and audio inputs and outputs are available

- > Lite Blue offers composite and S-Video and unbalanced audio. This will satisfy most general broadcast, corporate and industrial applications ranging from broadcast archiving through distance learning systems to industrial monitoring.
- > For the high end user Deep Blue offers SDI input, including embedded digital and balanced audio inputs/outputs

5. Pre-filtering

This is a special feature of the board which enables users with noisy tapes, say poor quality VHS or Umatic to remove much of the noise before encoding

- > There is a choice of filter levels

6. Time-base correction

Another special feature. The time base corrector offers three very distinct benefits to users

- > Firstly it works in conjunction with the pre-filtering, again when the source quality is suspect. In this case it performs as a video professional would expect in stabilising an unstable video source
- > Secondly and very importantly for streaming applications. The TBC avoids the encoder going into an unknown state if there is a loss of input and often encoders stop working requiring the system to be reset. This can be very inconvenient, particularly if the input video signal has to be switched or unplugged from time to time.
- > The third advantage of the TBC is that it allows a constant streamed output even when the input signal is lost, or switched.

7. On-Screen Display

Text and graphics overlay. This function provides users with the ability to either:

- > burn an ident or time code permanently into the picture
- > add a temporary caption on the encoder output for source ident at system set-up
- > be used in conjunction with the TBC, for example to warn of loss of input signal

8. Software

In addition to access for SDK and integration support the products are shipped with plug-and-play installation and operational software based on DirectShow architecture. The supplied software provides adjustments for:

- > Format settings
 - § MPEG1, 2, 4
 - § audio settings
 - § type of encoding (system, program, transport streams)
- > IP address and control
 - § Unicast
 - § Multicast
 - § Broadcast
 - § Stream or file
 - § Stream and file
- > Scheduling, time/date
- > Input settings
 - § Filtering
 - § TBC
 - § Overlay

9. Integration Support On-line

Access to help and support for system integration support and advise when required

10. Warrantee

Full 12 month product warrantee from date of shipment

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