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Engineering Release Notes

You can update your card by downloading the new Update software by going to the **Support>Firmware** link at www.cobaltdigital.com. Download "Firmware Update Guide", which provides simple instructions for downloading the latest firmware for your card onto your computer, and then downloading it to your card through DashBoard™.

Software updates are field-installed without any need to remove the card from its frame.

The table below lists released software versions and describes the corresponding functions additions, improvements and/or corrections.

Note: Date ranges are approximate.

Software Version (Date)	Description
Release 28 (12/21/2012 – present)	**Correction:** • Fixes potential de-embed audio corruption on analog audio outputs. • Fixes embedded audio to always use 24-bit depth for all supported input formats. **Known Issues:** • In some cases when the card is passing embedded audio, setting the **Reticules (Overlays) > Shadow** control to **Enabled** may result in audio corruption. Make certain this control is set to **Disabled** if the card is intended to be used with SDI video carrying audio. This known issue applies to **all** releases listed here.
Release 24 (6/4/2012 – 12/21/2012)	**Additions:** • Top line suppression control added to Scaler function. Allows up to 10 line suppression. **Known Issues:** • In some cases when the card is passing embedded audio, setting the **Reticules (Overlays) > Shadow** control to **Enabled** may result in audio corruption. Make certain this control is set to **Disabled** if the card is intended to be used with SDI video carrying audio. This known issue applies to **all** releases listed here.
Release 23 (1/25/2012 – 6/4/2012)	**Correction:** • Fixes erroneous audio reset of all four embedded audio groups when upstream enable/disable of one or more unused groups was effected. **Known Issues:** • In some cases when the card is passing embedded audio, setting the **Reticules (Overlays) > Shadow** control to **Enabled** may result in audio corruption. Make certain this control is set to **Disabled** if the card is intended to be used with SDI video carrying audio. This known issue applies to **all** releases listed here.
Release 22 (12/19/2011 – 1/25/2012)	**Additions:** • 5.1-to-2.0 downmixer added. Downmixed output available on embedded and/or analog audio outputs. **Known Issues:** • In some cases when the card is passing embedded audio, setting the **Reticules (Overlays) > Shadow** control to **Enabled** may result in audio corruption. Make certain this control is set to **Disabled** if the card is intended to be used with SDI video carrying audio. This known issue applies to **all** releases listed here.
Release 21 (3/23/2011 – 12/19/2011)	**Improvements:** • Improved audio performance/stability with input video timing instability. **Known Issues:** • In some cases when the card is passing embedded audio, setting the **Reticules (Overlays) > Shadow** control to **Enabled** may result in audio corruption. Make certain this control is set to **Disabled** if the card is intended to be used with SDI video carrying audio. This known issue applies to **all** releases listed here.
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Software Version (Date)	Description

Release 20 (2/23/2011 – 3/23/2011)	**Additions:**
	• Analog 4-ch audio output added.
	    Note: Analog audio output available only on hardware rev that supports analog audio outputs (board Rev F and higher)
	
	Improvements:
	• Improved performance of SD closed captioning. Allows passage of packet-based closed captioning even if packet is inadvertently marked as "inactive" by upstream device.
	
	Known Issues:
	• In some cases when the card is passing embedded audio, setting the **Reticules (Overlays) > Shadow** control to **Enabled** may result in audio corruption.
	    Make certain this control is set to **Disabled** if the card is intended to be used with SDI video carrying audio. This known issue applies to **all** releases listed here.