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About Managing Ancillary Data Line Number Locations

The table below lists typical SDI video VANC line number locations for various ancillary data items that may be present on an SDI stream. These items need to be managed such that no two items are ever directed onto the same VANC line.

Typical Ancillary Data Line Number Locations/Ranges

Item	Typical Default Line No. / Range	
	SD	HD
AFD	12 (Note 2)	9 (Note 2)
ATC_VITC	13 (Note 2)	9/8 (Note 2)
ATC_LTC	—	10 (Note 2)
Dolby® Metadata	13 (Note 2)	13 (Note 2)
SDI VITC Waveform	14/16 (Note 2)	—
Closed Captioning	21 (locked)	10 (Note 2)

Notes:

1. Most cards do not check for conflicts on a given line number. Make certain the selected line is available and carrying no other data.
2. While range indicated by a card may allow a particular range of choices, typically the actual range is automatically clamped (limited) to certain ranges to prevent inadvertent conflict with active picture area depending on video format. Typical limiting ranges for various output formats are as follows:

Format	Line No. Limiting	Format	Line No. Limiting	Format	Line No. Limiting
525i	12-19	720p	9-25	1080p	9-41
625i	9-22	1080i	9-20		

Because line number allocation is not standardized for all ancillary items, consideration should be given to all items when performing set-ups. The figure below shows an example of improper and corrected VANC allocation within an HD-SDI stream. On Cobalt 9000-series cards that process ancillary data (such as timecode, closed captioning, AFD, and so on), the submenus (DashBoard “tabs”) for these items have line number controls which allow you to choose the VANC line number over which the item is inserted and/or outputted.

