

Specification of SDI Video Capture Card

1. **SCOPE:** This specification lays down in the requirement of Video Capture Card for utilizing in PCR/OB/Earth Station chain at Doordarshan Kendra, Panaji.
2. **GENERAL:** The offered items should be professional quality and already should be using by leading broadcasters.

3. ESSENTIAL FEATURES:

3.1 SDI Video Capture Card

- 3.1.1 It should have One 6G-SDI connection, which supports SDI formats SD, HD-SDI, 2K and Ultra HD Supports.
- 3.1.2 The offered product should be 16ch embedded SDI audio inputs in HD/2K/4K.
- 3.1.3 The offered product should be 16ch embedded SDI audio Output in HD/2K/4K.
- 3.1.4 It should have Tri-Sync or Black Burst input.

4. TECHNICAL SPECIFICATIONS:

Sr. No.	Parameters	Values
4.1	SDI Video Capture Card	
4.1.1	Connections	
4.1.1.1	SDI Video Inputs	1x10-bit SD/HD/2K/4K. Supports 6 Gb/s 4:2:2 and 3Gb/s 4:4:4.
4.1.1.2	SDI Video Outputs	1x10-bit SD/HD/2K/4K. Supports 6 Gb/s 4:2:2 and 3Gb/s 4:4:4.
4.1.1.3	SDI Audio Inputs	16 Channels embedded in HD/2K/4K. 8 Channels embedded in SD.
4.1.1.4	SDI Audio Outputs	16 Channels embedded in HD/2K/4K. 8 Channels embedded in SD.
4.1.1.5	Sync Input	Tri-Sync or Black Burst.
4.1.1.6	Device Control	Sony™ compatible RS422 deck control ports. Serial ports Tx/Rx direction reversible under software control.
4.1.1.7	Computer Interface	PCI Express 4 lane generation 2, compatible with 4, 8 and 16 lane PCI Express slots.
4.1.1.8	Supported Codecs	VC-Intra, AVCHD, Canon XFMPEG2, Digital SLR, DV-NTSC, DV-PAL, DVC PRO 50, DVC PRO HD, DPX, HDV, XDCAM EX, XDCAM HD, XDCAM HD422, DNxHR & DNxHD, Apple ProRes 4444, Apple ProRes 422 HQ, Apple ProRes 422, Apple ProRes LT, Apple ProRes 422 Proxy, uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10 bit 4:4:4.
4.1.2	Video Standards	
4.1.2.1	SD Video Standards	525i 59.94 NTSC, 625i 50 PAL
4.1.2.2	HD Video Standards	720p 50, 720p 59.94, 720p 60, 1080p 23.98, 1080p 24, 1080p 25, 1080p 30, 1080p 50, 1080p 59.94, 1080p 60, 1080PsF 23.98, 1080PsF 24, 1080PsF 25, 1080PsF 29.97, 1080PsF 30 1080i 50, 1080i 59.94, 1080i 60
4.1.2.3	2K Video Standards (SDI Only)	2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p
4.1.2.4	Ultra HD Video Standards	2160p 23.98, 2160p 24, 2160p 25, 2160p 29.97, 2160p 30
4.1.2.5	4K Video Standards	4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p
4.1.2.6	SDI Compliance	SMPTE 259M, SMPTE 292M, SMPTE 296M SMPTE 372M, SMPTE 425M, SMPTE 2081, ITU-R BT.656 and ITU-R BT.601.

4.1.2.7	SDIMetadata Support	RP188/SMPTE12M-2andclosed captioning.
4.1.2.8	Audio Sampling	Televisionstandardsample rateof48 kHzat24 bit.
4.1.2.9	VideoSampling	4:2:2and 4:4:4* *4K is 4:2:2
4.1.2.10	Color Precision	10-bit.
4.1.2.11	Color Space	REC 601, REC 709.
4.1.2.12	Multiple Rate Support	SDIvideo connections areswitchablebetween SD/HD/2K andUHD.
4.1.3	Processing	
4.1.3.1	HDDown Conversion	Built-in high-qualityhardwaredownconverter outputs HD orSDonSDIoutput.Selectablebetweenletterbox, anamorphic 16:9 and center cut 4:3 styles.
4.1.3.2	RealTimeEffects	DaVinci Resolve, Final Cut Pro X internal effects. PremiereProCCMercuryPlaybackEngineeffects.Avid MediaComposerinternaleffects.

5. **ACCESSORIES:** All the essential accessories required to complete the system should be provide by the bidder. The bidder should certify the completeness of the system in all respect.
6. Bidder has to be upload **Bid Specific OEM Authorization** while upload the bid documents.
7. Point by point compliance statement to be uploaded while uploading the bid documents.

Bill of Material (BOM)

Sr. No.	Description of Items	Make	Model	Qty	Unit Price	Total Price
1	SDI Video Capture Card			01 Nos.		