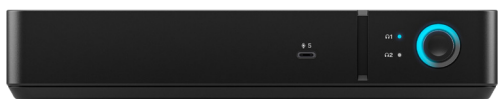


RØDECASTER VIDEO CORE™

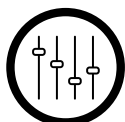
VIDEO AND AUDIO PRODUCTION CONSOLE

The RØDEcaster Video Core is an innovative all-in-one console for video and audio production, delivering a complete solution for producing professional content. Designed for software-based control or as part of a modular production system with RØDEcaster Sync, it offers the same advanced capabilities of the RØDEcaster Video in a streamlined form factor, combining powerful video switching, recording and production tools with a fully integrated professional audio mixer. Providing seamless integration across RØDE audio devices including the RØDEcaster Pro II and RØDEcaster Duo, the RØDEcaster Video Core offers maximum flexibility and ensures broadcast-quality results for video podcasts, live streams and studio productions.

- Switch between up to four video sources and five fully customisable scenes
- High-performance octa-core CPU video and audio processor
- Three full HD (1080p) HDMI inputs with auto frame rate conversion and one configurable HDMI output for viewing program, preview and multi-view
- Two flexible USB-C ports for connecting select video and audio devices
- Two studio-grade Neutrik® combo jacks with ultra-low noise, high-gain Revolution Preamps™ for capturing pristine audio from XLR microphones, instruments or any other audio source
- Powerful APHEX® audio processing, including an EQ, compressor, noise gate, high-pass filter, de-esser and the legendary Aural Exciter™, Big Bottom™ and Compellor™ effects
- Connect to a RØDEcaster Pro II or Duo using RØDEcaster Sync, creating a fully integrated video and audio system, with hands-on control over your entire production alongside expanded inputs and outputs
- Support for network cameras (including PTZ operation) with up to four NDI inputs® and one output via Ethernet, plus dual-cam streaming with the free RØDE Capture app for iOS devices
- Connect an external SSD via USB to record video or output directly to a computer via UVC
- Timeline Export for DaVinci Resolve via OpenTimelineIO (OTIO), enabling reconstruction of cuts, cross-fades, scene layouts, overlays and logos for faster post-production editing
- Media playback, keying, transitions, multi-source scenes, graphic overlays, audio mixing and advanced configuration via the RØDEcaster App
- Remote control, user-assignable graphics and media, custom scene building, audio mixing and effects, and other advanced configuration options via RØDEcaster App
- Intelligent auto-switching for seamless hands-free switching of video sources and scenes based on audio inputs
- Dual USB-C audio interfaces for simultaneous connection to two computers and/or mobile devices
- Stream directly to all major platforms via Ethernet and record directly to an external USB storage device, including isolated (ISO) recording for complete post-editing flexibility.
- Designed and made in RØDE's state-of-the-art facilities in Sydney, Australia



BROADCAST GRADE VIDEO



STUDIO QUALITY AUDIO



STREAMING AND RECORDING



FLEXIBLE INPUT OPTIONS



WHAT'S IN THE BOX



RØDEcaster Video Core



Power Supply



SuperSpeed USB-C Cable

VIDEO SPECIFICATIONS

Video Input Feeds:	4 simultaneous
HDMI Inputs:	3 type-A (HDMI 1.4b)
USB (UVC) Inputs:	1 multi-function USB-C for UVC video
HDMI Outputs:	1 configurable – Preview, Program, Multiview, Inputs 1 - 4
Video Input Frame Rates:	1920×1080p: 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 (HDMI only) 1920×1080i: 25, 29.97, 30
Video Output Frame Rates:	1920×1080p: 24, 25, 30, 50, 60
Video Streaming Standards:	1920×1080p: 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Video Engine Format:	4:4:4 RGB / 8-bit
HDMI Input Format:	4:4:4 RGB, 4:4:4 YUV, 4:2:2 YUV / 8, 10, 12-bit
USB (UVC) Input Format:	4:2:2 YUV, 4:2:0 YUV (NV12)
HDMI Output Format:	4:4:4 RGB, 4:4:4 YUV / 8-bit
USB (UVC) Output Format:	4:2:2 YUV / 8-bit
USB (UVC) Input Formats:	YUV (NV12), YUY2 and MJPEG
Format and Frame Rate Converters:	On all HDMI and USB inputs
NDI Protocols:	Single TCP, Multicast
NDI Formats:	Hx2, Hx3
NDI Hx + Alpha:	Supported for a single input (no alpha output support)
NDI Video Codecs:	H.264, HEVC/H.265, 4:2:0, 8-bit
NDI Audio Codecs:	AAC-LC, L-PCM Stereo 2.0 at 48kHz
NDI Interfaces:	Wired Ethernet

SWITCHING SPECIFICATIONS

Total Number of Layers:	9 simultaneous in Preview and Program
Downstream Keyers:	2 (overlays and logo)
Chroma/Luma Keyers:	2 (Green, Blue, Luma)
Media Players:	2 simultaneous
Transitions:	SMPTE wipes, dip and fade
True Preview:	Display complete scenes and overlays simultaneously in preview and program
Generated Borders:	All scenes
Multiview:	<ul style="list-style-type: none">• Program and preview• Live inputs, scene and media thumbnails• Audio mixer and channel status• Recording, network and storage status• Run time, date and time information
Media Player:	24GB on-board storage Videos: MP4 Images: PNG, JPG Audio: WAV

AUDIO SPECIFICATIONS

Analog Audio Inputs:	2 combo jacks (microphone, line or instrument) with Revolution Preamps™
Digital Audio Inputs:	<p>USB 1: 2-in/2-out or multichannel (20-in) output</p> <p>USB 1 Chat (uses USB 1 port): 2-in/2-out with mix-minus</p> <p>USB 2: 2-in/2-out with MFi support</p> <p>USB 4 & 5: compatible with RØDE USB microphones and RØDECaster Pro II and Duo</p>
Analog Audio Outputs:	2 headphone outputs (1/4-inch)
Audio Processing:	<p>APHEX® VoxLab™ Processing: per channel</p> <p>Advanced APHEX® granular processing on each channel: Compressor, Equaliser (EQ), De-esser, Panning, Noise Gate, High-pass Filter, Aural Exciter™, Big Bottom™</p>
Preamps:	<p>Frequency range: 20Hz – 20kHz</p> <p>Input gain: up to 76dB Input</p> <p>Equivalent Input Noise: -131.5dBV (A-weighted)</p>
Streaming Sample Rate / Bit Depth:	48kHz / 32-bit
Recording Sample Rate / Bit Depth:	48kHz / 24-bit
Audio Mixer:	<p>16 possible audio sources (9 stereo channels simultaneously): combo 1 and 2 (can be combined for stereo), video clips, sounds, HDMI 1, 2 and 3 (each can be split for two mono), 3 USB audio interfaces (computers), 2 hosting USB audio device (USB microphone), 4 network</p> <p>11 Outputs with Custom Routing: live mix, headphone 1, headphone 2, recording, USB 1 Chat, USB 1, USB 2, USB 4, USB 5, HDMI A, Network</p> <p>Note: Each output can be independently configured with custom level, mute status and level offset settings for each of the 9 inputs.</p>

STREAMING, RECORDING AND SOFTWARE SPECIFICATIONS

Direct Streaming:	Real Time Messaging Protocol (RTMP) over Ethernet
Supported Platforms:	<ul style="list-style-type: none"> • Youtube Live • Twitch Live • Facebook Live • Twitter/X Live • Custom server
Network:	Ethernet (10/100/1000 BaseT) for streaming, configuration, remote control with computer and over-the-air updates
RØDECaster App Companion Software:	<p>Scene builder: advanced construction of scenes and remote control of device</p> <p>Auto-switching: configuration of automatic switching based on audio input</p> <p>Audio mixer: advanced configuration and control of audio sources, processing and routing</p> <p>Stream profiles: configuration for streaming settings and profiles</p> <p>Device configuration: advanced settings and customisations</p>
Storage Media:	External USB mass storage device (exFAT format) for recordings
Video Recording:	Program feed as H.264/AVC or H.265/HEVC MP4 file with embedded AAC stereo mix
Isolated (ISO) Video Recording:	4 video inputs and 1 Program feed as independent H.264/AVC or H.265/HEVC files (up to 1080p30)
Audio Recording:	Stereo mix WAV audio file
Multitrack Audio Recording:	9 independent stereo WAV audio files
Compatible Operating Systems:	macOS 11 or later Windows 10 Version 1803 or later, Windows 11

POWER AND MECHANICAL SPECIFICATIONS

Power Supply Requirements: USB-C PD 45W, 20V 2.25A

Weight (grams): 705

Dimensions (millimetres):
Length: 239
Width: 125
Height: 45.5
(44 mm with feet removed
for rack mounting)

DIMENSIONS

