

NearStream VM20 Pro 4K Streaming Camera



10x
Optical Zoom



8 MEMS
Microphone-Array



AI Noise-
Canceling



5-Meter Pickup
Distance



4K Video at
30FPS



Plug & Play
Setup

Product features

- **4K streaming:** 10x optical + 4x digital zoom (40x hybrid), 4K@30fps, Sony 1/2" 50MP CMOS sensor with autofocus.
- **AI noise cancelling:** 8-MEMS mic array with 360 spatial omnidirectional pickup, clear voice pickup up to 5m (16ft).
- **Flexible interfaces:** USB 3.0 Type-C, HDMI 2.0, RJ45 (PoE), SD card recording, Wireless AV via NA20 transceiver.
- **Standalone recording:** Capture 4K MP4 directly to MicroSD card (32GB-1TB), exFAT formatted, no PC required.
- **RF remote control:** 433MHz 360-degree RF remote for focus, HDR, preset positions, multi-device control.

NearStream VM20 Pro Datasheet

Contents		Technical specifications
Lens	Aperture	F 1.8~3.4
	Sensor	1/2 inches, Sony CMOS, 50MP
	Focusing Mode	10x optical zoom, 4x digital zoom (40x hybrid)
	Focal Length	f 6.9~55.2mm
	Non-Distortion Lens	Support
Microphone	Microphone type	8-MEMS microphone array, 360 Spatial Omnidirectional
	Sensitivity	-38dBV/Pa 94dB SPL@1kHz
	S/N	68dBV/Pa 94dB SPL@1kHz, A-weighted
Audio	Beamforming	Support
	AI Noise Suppression	Support
	AGC	Support
	Effective pickup distance	5-meter radius
Video	Anti-Flickering	Support
	Auto-Exposure	Support
	Auto White Balance	Support
	3D Noise Suppression	Support
	Max Resolution	4K
	Aspect Ratio	16:9
	Coded Format	NV12: 4K@25fps; MJPEG/MP4/H264(RJ45): 4K@30fps; H264(Wireless): 1080P@30fps
	HDMI	1080P@60fps
	RTSP	4K@30fps
	Image Style Adjustment	Support
	HDR	Support
Functions	Plug&Play	Support
	Charging Spec	5V-2A
	External Microphone	Support via USB-C Port, outputs 5V-100mA
	External Memory Card	Micro SD (32GB~1TB, UHS-I U3/V30 or above, exFAT)
	Multi-device Control	Support RF433 for controlling multiple devices
	Multi-device Connection	Support
	WIFI Spec	IEEE 802.11a/b/g/n/ac 866Mbps
Physical features	Product dimensions	139 x 72 x 98mm
	Package dimensions	195 x 160 x 98mm
	Net weight	595g
	Gross weight	1137g

Official website: www.nearstream.us