VIEW POINT SYSTEM

MAKING FUTURE REALITY



VPS NEXT: SPECIFICATIONS

VPS NEXT EYE TRACKING		
TRACKING METHOD	Technology Mode Eye camera FOV	Patented 2-camera video oculography (VOG) system, dark pupil tracking with light robustness Binocular eye tracking (one IR camera per eye) D = 95°
SAMPLING & DATA	Sampling rate Pupillometry Data export	60 Hz or 120 Hz (true captured eye camera images per eye) Pupil position and pupil diameter; IPD derivable from pupil positions Dedicated Gazefile (tsv) Streaming via RestAPI (Basic or Advanced)
CONNECTION	Interface Wireless connection Software updates	2x USB-C 3.0 ports (1 to glasses, 1 free for external devices) Wi-Fi (IEEE 802.11 a/b/g/n/ac), Bluetooth 5.0 Over-the-air (OTA)
CALIBRATION & ACCURACY	Procedure Slippage compensation Parallax compensation Gaze accuracy	Auto-calibration or one-point user calibration Yes, 3D eye model Automatic Mean 1.8° with auto-calibration Mean 1.2° with one-point calibration

VPS LITE UNIT

PLATFORM	Operating system Chipset CPU AI Accelerator Memory/Storage	Linux (Kernel 5.15) NXP i.MX 8M Plus, 1.8 GHz ARM Cortex-A53 (Quad-Core), 1 x Cortex-M7 Real-Time Core (800 MHz) Integrated NPU up to 2.3 TOPS 4GB LPDDR4 RAM/ 8GB eMMC Flash Memory for Operating System
STORAGE	Storage medium Video format	Removable SD Memory Card (64GB, formatted FAT32) mp4
CONNECTION	Interface Wireless connection Software updates	2x USB-C 3.0 ports (1 to glasses, 1 free for external devices) Wi-Fi (IEEE 802.11 a/b/g/n/ac), Bluetooth 5.0 Over-the-air (OTA)
USER INTERFACE	Operating controls Status indicators Date, Time Web Interface	1 power button, 1 multi function button for recording (start/stop), snapshot & Hotspot mode 3x RGB LEDs, buzzer Real-time clock with battery back-up System configuration, live view, remote streaming, snapshot, recording, gallery with playback and download
BATTERY	Swap battery Capacity Operation time	Rechargable Li-ion Battery (18650) 3400 mAh up to 3 hours (depending on application)
HOUSING	Dimensions L x W x H Weight Protection class	84 x 58 x 33 mm from 95g IP 54

INSTANTLY USABLE & EASY TO OPERATE

SMALL, LIGHT, ROBUST

3-IN-1 DESIGN THE ULITMATE FLEX

VPS NEXT GLASSES

FRONT CAMERA	Resolution Frame rate Field of View Video Format	Videos variable up to 1920 x 1080 pixel and Snapshots up to 4000x3000 pixel 30 fps (frames per second) H 86° V 71°; diagonal 112° (video & snapshot) Mp4 (Option to include eye cam video in 2nd track)
AUDIO	Microphone	Omni-directional miniature MEMS Microphone External audio headset can be connected (USB-C / Bluetooth)
CONNECTION	Cable connection	USB 2.0 Type C
USER INTERFACE	Operating controls Status indicators	Single dual function button for recording (start/stop) and snapshot 2x RGB LEDs
SENSORS (VERSION-DEPENDENT)	IMU Light sensor	9 DOF: Accelerometer, Gyroscope, Magnetometer Ambient light sensor
DIMENSIONS	L x W x H	170 x 162 x 48 mm
WEIGHT	(excluding spectacle lenses)	39 g (full frame), 36 g (frame without bottom)

ACCESSORIES

CORRECTIVE LENSES	Exchangeable optical lenses, optional from -4 to +4 diopters, and prescription optical lenses
NOSE PADS	6 sizes
TEMPLES	Exchangeable
ASSEMBLY	Belt clip, arm mount, helm mount, VELCRO® mount
LIGHTNING	Clip-on torch

CERTIFICATIONS & STANDARDS

EU / USA / JAPAN EYE SAFETY EYE PROTECTION	CE / FCC / PSE, MIC EN 62471 VPS Next SAFETY: EN ISO 16321 - impact level C (45 m/s)



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Subject to technical changes and printing errors.