

PICO Neo 3 Series Product Comparison



VE HEADSETS:

MAIN PRODUCT GROUP	PNY PART NUMBER	MATERIAL DESCRIPTION
PICO	PHS-N3-PE1018580	VR Headset PICO Neo 3 Pro Eye
PICO	PHS-N3-P1018556	VR Headset PICO Neo 3 Pro
PICO	PHS-N3-E10288H	VR Headset PICO Neo 3

AVAILABLE ACCESSORIES:

MAIN PRODUCT GROUP	PNY PART NUMBER	MATERIAL DESCRIPTION
PICO	PAS-N3-2018446H	PICO Neo 3 Pro Left Controller
PICO	PAS-N3-2018448H	PICO Neo 3 Pro Right Controller
PICO	PAS-N3-1018405H	PICO Neo 3 Pro / Pro Eye Facepad
PICO	PAS-N3-125050	PICO Neo 3 Pro / Pro Eye Glasses Spacer

PICO NEO 3 VR STANDALONE HEADSET SPECIFICATION SHEET

CATEGORY		Pico Neo 3	Pico Neo 3 Pro	Pico Neo 3 Pro Eye
COMPUTE PLATFORM	CPU	Qualcomm XR2, Kryo 585, 8 Cores 64 Bit (4 x A77, 4 x A55), 2.84GHz, 7nm		
	GPU	Adreno 650, 587MHz		
	RAM	Standard: 6GB LPDDR4X, 2133MHz	6GB LPDDR4X, 2133MHz	8GB LPDDR4X, 2133MHz
		Supreme: 8GB LPDDR4X, 2133MHz		
	ROM	Standard: 12GB / 256GB, UFS 3.0	256GB, UFS 3.0	
		Supreme: 256GB, UFS 3.0		
	Wi-Fi	Wi-Fi 6, 2 x 2 MIMO, 802.11 a/b/g/n/ac/ax, 2.4GHz/5GHz Dual Band, Support Miracast and wireless streaming PC Steam VR games		
	Bluetooth	5.1 + HS		
	OS	Android 10		
SDK	PICO SDK			
DISPLAY	Display	Single 5.5 inch SFR TFT		
	Resolution	Almost 4K Resolution, 3664 x 1920, PPI: 773		
	Refresh Rate	72Hz / 90Hz (Future extension: 120Hz)		
OPTICS	FOV	98°		
	Lens Material	Fresnel, PMMA		
	Eye Protection	TUV low blue light certificated, selectable in settings		
	Myopia Adjustment	No physical adjustment, glasses compatible		
	IPD Adjustment	Default: 63.5mm, Three physical positions: 58/63.5/69mm, Range: 54-73mm GSGSFGS	Optical compatible: 55-71mm	
SENSOR	Hedset 9 Axis Sensor	1KHz sample rate		
	Headset P-Sensor	Wearing detection for screen sleep power saving		
CAMERA	Environment Camera	Fish-eye monochrome (640 x 480 @ 60Hz) x 4, FOV: 166°		
EYE TRACKING	Eye Tracking Camera	N/A	Monochrome (400 x 400 @ 90Hz) x 2	
INTERACTION	Headset	Totally new in-house, inside-out room scale tracking with millimeter-level tracking algorithm (more stable and more robust for complicated user home environments; improved tracking accuracy; faster safety area recovery); guardian system (larger range to support 10m x 10m); more realistic stereo vision, improved natural and smooth see-through feature; Up to 5 recordable play areas with faster recovery speed		
	Controller	6DoF motion controller x 2, within 1.2m from combination of Headset camera FOV: H238° V195°		
	Hands Gesture	28DoF Tracking, supports 5 kinds of Gesture (Q3/2021)		
	Voice	Dual Mic noise reduction and echo cancellation		
	Headset Keys	Power APP (Back) / Confirm / Home / Volume Up / Volume Down		
DESIGN AND ERGONOMICS	Weight	Without Headstraps: 395g; Total: 620g	Without Headstraps: 385g; Total: 660g	Without Headstraps: 370g; Total: 640g
	Straps	Adaptive top strap adjustment, easy and fast to wear		
		Soft and flexible headstrap makes it smaller and easier to store	Hard headband rotates so user can fit glasses with ease and adjust with a single hand	
	Face Cushion	Replaceable and washable fabric face cushion	Replaceable 3D PU sterilizable face cushion, antifouling and washable	
	Thermal	Includes silent cooling fan, breathable air flow designed to reduce fogging		
	Ergonomics	Reasonable front HMD and rear battery pack ergonomics design, more comfortable face experience; compatible with adults and kids, Asian, European, and American headsize		
	Light Shield Nose Pad	Bundle	N/A	
	Glasses Spacer	Bundle	N/A	
POWER	Charging	Qualcomm Quick Charge QC 3.0, USB PD 3.0		
	Battery Capacity	5300mAh, 2.5-3h (Video playing 3h, Game 2.5h)		
	3.5mm DC Jack	N/A		
AUDIO	Speaker	360° surrounding stereo speakers, supports 3D spatial effects, audio lower to 200Hz gives music game playing more lively	360° surrounding stereo speakers, supports 3D spatial effects, audio lower to 600Hz	
	Microphone	Omnidirectional dual microphone, up to 30dB environment noise reduction, and 50dB echo cancellation for clear voice application		
INTERFACE	USB Type-C 3.0	USB 3.0 (Requires USB 3.0 data cable, bundle is USB 2.0 data cable)		
		5V/1A OTG extendable power supply		
		USB 3.0 OTG extendable (Requires adaptor cable)		
	N/A	DP Output feature (Support USB DP to HDMI converter to connect and show VR content on Display or TV)		
	3.5mm Audio Jack	Support 3rd party stereo headphone, compatible with American and European standard audio jack		
Micro-SD	N/A			
Customized DP Interface(USB Type-C Like)	N/A	Optional Customized 5 meters long DP 1.3 Cable connect VR headset to PC to experience native 4K @ 90Hz Stream VR contents		
LED	LED Indicator	Three color LED to indicate power on/off and charging status		
CONTROLLER	Tracking Technology	Infrared		
	Tracking Accuracy	< 10mm (Within 1.2m from headset)		
	Tracking Latency	< 20ms		
	Sensor	Infrared sensors, 6 axis sensors (Gyroscope Accelerator)		
	Bluetooth	5.1		
	LNA Motor	Up to 1G vibration linear motors		
	Keys	Joystick / Trigger / Grip / APP (Back) / Home/ X/Y (Left hand) / A/B (Right hand)		
	LED Indicator	Three color LED to indicate power on/off and pairing status		
	Battery	Two AA dry batteries, up to 100h battery life		
	Battery Cover	Accessory extendable via battery case connector pins		
	Lanyard	Bundle		
	Weight	157g (Includes bundle battery)		

READY TO GET STARTED?

To learn more, Contact PNY at GOPNY@PNY.COM

PNY Technologies, Inc. 100 Jefferson Road, Parsippany, NJ 07054 | Tel 973-515-9700 | Fax 973-560-5590 | WWW.PNY.COM/PNYPRO

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