ProdLens Specification Guide (Vectorization Reference)

MONITOR SPECIFICATIONS

size: Diagonal measurement of the display in inches. A larger size offers better immersion, while smaller ones save space.

curve_radius: Curvature of the monitor measured in radius (e.g., 1000R). Lower radius values mean a deeper curve, enhancing immersion.

wall_mount: Supported mounting pattern (e.g., VESA 100x100). Important for ergonomic setups.

bezel_size: Width of the border around the screen. Thinner bezels improve aesthetics and multi-monitor immersion.

pixel_type: Panel technology used (VA, IPS, OLED). Each affects contrast, color accuracy, and response time.

subpixel_layout: Arrangement of subpixels (e.g., RGB, RGWB). Affects text clarity and sharpness.

back_light: Type of illumination (Edge, Direct, or None for OLED). Impacts brightness uniformity and HDR performance.

native_contrast: Contrast ratio between light and dark tones. Higher ratios provide deeper visuals.

local_dimming: Feature allowing selective dimming zones for improved contrast and HDR.

brightness: Measured in cd/m²; determines visibility and picture punch under different lighting conditions.

color_accuracy_white_balance_dE: Color deviation metric (∆E). Lower values mean more accurate colors.

native_refresh_rate: Frequency (Hz) at which the display updates per second. Higher values provide smoother motion.

aspect_ratio: Width-to-height ratio (e.g., 16:9, 21:9). Affects viewing experience and workspace.

native_resolution: Pixel dimensions of the display (e.g., 3840x2160). Determines image sharpness.

hdmi_ports/display_ports/usbc_ports: Connectivity options that determine device compatibility.

MOUSE SPECIFICATIONS

coating: Surface finish (Matte or Glossy). Impacts grip and comfort.

length/width/height: Physical dimensions that define ergonomics and handling comfort.

default_weight: Overall weight of the mouse. Lighter for agility, heavier for control.

ambidextrous: Whether the design supports both left and right-handed use.

number_of_buttons: Count of programmable buttons. Important for gaming and productivity.

connectivity: Type of connection (Wired/Wireless). Wireless offers flexibility; wired ensures zero latency.

battery_type: Indicates if battery is rechargeable or replaceable (AA/AAA).

switch_type: Click mechanism (Mechanical/Optical). Influences tactile feedback and lifespan.

os_compatibility: Lists supported systems (Windows, MacOS, etc.).

KEYBOARD SPECIFICATIONS

size: Layout type (Full-size, TenKeyLess). Influences portability and key availability.

keycap_material: Keycap composition (PBT/ABS). Affects durability and texture.

switch_type: Key switch technology (Mechanical, Optical, Magnetic). Defines typing feel and speed.

connectivity: Wired or wireless connection type.

backlighting: Presence of LED or RGB lighting for visibility and aesthetics.

media_keys: Dedicated or shared keys for media control.

pre_travel/total_travel: Distance a key moves before actuation and total press distance.

os_compatibility: Compatibility across Windows, MacOS, and Linux.

SHARED TABLES

brands: Lists manufacturers with origin and website. Used for brand-based filtering.

categories: Groups products by type (Monitor, Mouse, Keyboard).

products: Central catalog table linking categories, brands, and specifications.

reviews: User-generated feedback for quality assessment.

professional_ratings: Expert ratings from trusted review sources like RTINGS.

sales: Tracks product sale data, quantity, and region.

features: Describes unique attributes such as 4K or RGB lighting.

product_features: Mapping between products and their associated features.