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YUSUN SMART Smart Mirror Technical Documentation | Fitness, Yoga, Beauty & Advertising

INTRODUCTION

YUSUN-SMART AI SMART BEAUTY MIRROR

YUSUN-SMART AI Smart Beauty Mirror is a commercial-grade intelligent beauty analysis mirror built for beauty salons, spa centers, cosmetic retail stores and high-end commercial projects. Powered by the Rockchip RK3588 industrial mainboard with high-performance NPU computing capability, this mirror enables local-run facial detection, skin condition analysis and interactive beauty application experience.

Equipped with multi-color adjustable professional beauty LED lighting, 10-point low-latency capacitive touch screen and high-definition 8MP facial-capture camera, it restores real skin tone and delivers smooth human-machine interaction. Optional IP44 / IP65 waterproof sealed housing adapts to long-term humid and dust-filled beauty-salon working environments. Reinforced thermal design supports stable **7×24-hour non-stop commercial operation**.

Multiple expandable peripheral options are available: microscopic scalp & hair-detection camera, fill-light module, 5G communication module, human-presence sensor and environmental sensors. Customers can customize display sizes, waterproof rating, mainboard solution and accessory combinations for OEM & ODM bulk hospitality and beauty-industry projects.

All hardware undergoes complete factory function testing before shipment to guarantee stable batch quality for global wholesale and custom projects.

Official Standard Parameter Table

Product Model: YUSUN-BEAUTY-SMART-MIRROR

Note: This is a typical reference configuration. Final specifications shall be confirmed during project quotation & technical review.

Category	Item	Specification
Basic Information	Available Size	15.6inch / 21.5inch / 32inch / 43inch, custom sizes supported
	Main Control Board	RK3588 mainboard, customizable alternative solution
	Housing Waterproof Grade	Optional IP44 / IP65 waterproof aluminum alloy housing
	Mirror Glass	High quality optical mirror glass
	LED Light	3 color adjustable professional beauty LED light
	Touch Display	Capacitive multipoint touch screen, size customizable
	Standard Accessories	Power supply, speakers, connecting cables and auxiliary parts
LCD Display	Screen Size(Reference)	custom sizes supported
	Resolution	1920(RGB) × 1080 custom sizes supported
	Aspect Ratio	16:9
	Brightness	500 cd/m ² (Typ.)
	Contrast Ratio	800:1 (Typ., Transmissive)
	Viewing Angle	Full viewing angle
	Display Colors	16.2 M

	Response Time	30 ms (Typ., Tr+Td)
Mainboard Hardware	CPU	Octacore 64bit(4×CortexA76 + 4×CortexA55), 8nm, up to 2.4GHz
	GPU	ARM MaliG610 MP4 Quadcore GPU
	NPU	Up to 60 TOPS; Optional lightweight 0.5TOPS for facial & skinanalysis
	Memory	4GB / 8GB /16GB LPDDR4 / LPDDR4x (max 32GB)
	Storage	32GB / 64GB /128GB eMMC (standard:32GB)
	Operating System	Android 12.0
	Network	Gigabit Ethernet, WiFi, BT5.2
	Audio	Leftright channel output for 8Ω/5W speakers
	Special Functions	Hardware watchdog, scheduled poweron/off, dualscreen different display
Mainboard Interfaces	Output Ports	TYPEC, USB2.0 ×5, USB3.0 ×1, HDMI2.0Out, HDMIIn, EDP, LVDS, MIPI
	Network Port	1×100/1000M adaptive Ethernet
	Serial Port	3TTL, 1Debug,1RS232
Touch Panel	Touch Type	10point capacitive touch
	Feature	Lowlatency, Android compatible
Power System	Input Voltage	DC 12V

	Max Power Consumption	90W
	Protection	Overvoltage, overcurrent, shortcircuit, reverseconnection protection
Builtin Camera	Resolution	8MP wideFOV front camera
	Function	Facial & skin image capture, max 30fps
Waterproof Structure	IP65 Version	Aluminumalloy frame + full silicone sealing, waterproof connectors for camera / LED / wiring cutouts, dustproof & waterjet resistant for humid salon environment
	IP44 Version	Costoptimized optional version
Thermal Performance	RK3588	Reinforced heat dissipation, support 7×24h continuous operation without thermal throttling
	RK3568	Standard thermal solution
Optional Accessories (Not included standard)		50~200X microscopic scalp hair detection camera、microcamera filllight module、5G module、humanpresence sensor、temperaturehumidity sensor
Warranty Remark		Subject to formal project contract; optional extendedwarranty for bulk orders

Standard Application & Execution Explanation

All technical parameters above are official reference standards for YUSUN SMART AI Smart Beauty Mirror, applicable to beauty salons, spa centers, cosmetic retail stores, hotel beauty rooms, and commercial beauty-analysis projects. This mirror combines HD touch display, adjustable LED beauty lighting, 8MP facial imaging camera, and RK3588 AI mainboard to support facial detection, skin analysis, and interactive beauty applications. Its optional IP44/IP65 waterproof housing and reinforced thermal design ensure stable long-term operation in humid commercial environments. Final specifications, sizes, and accessories can be customized according to project requirements.

Disclaimer: All technical comparisons and project suggestions are for reference only. YUSUN SMART reserves the right to update product solutions and technical standards without prior notice according to industry iteration and project requirements.

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Factory Visit	Welcome · Please contact us to schedule an appointment

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