

Vital signs monitoring vendor checklist

A concise guide for evaluating remote health monitoring providers.



Define what you need to measure

- ☐ Which markers do you require (HR, RR, HRV, BP, stress, trends)?
- ☐ What decisions will these markers support?
- ☐ Do you need single-point readings, trends, or both?
- ☐ Are you aiming to engage users, support clinicians, manage chronic care, or assess risk?



Verify accuracy and validation

- ☐ Are independent or peer-reviewed studies available?
- ☐ Are results benchmarked against medical-grade devices?
- ☐ Is performance documented across diverse skin tones and lighting?
- ☐ Does the vendor share real-world accuracy, not just lab data?
- ☐ Single modality or multimodal? (e.g., rPPG + rBCG)



Evaluate user friction

- ☐ Does the solution require hardware?
- ☐ How long does a measurement take?
- ☐ Can users complete a scan in non-ideal lighting?
- ☐ How much training is needed?
- ☐ Does the vendor share measurement success rates?



Assess integration and scalability

- ☐ Is the SDK/API modern, well-documented, and easy to work with?
- ☐ Does the vendor offer sample apps and test environments?
- ☐ Are iOS, Android, and web all supported?
- ☐ Can your team integrate it in weeks, not months?



Check security and data protection

- ☐ Is video processed on-device or in the cloud?
- ☐ Is raw camera data ever uploaded or stored?
- ☐ Does the architecture minimize regulatory burden?
- ☐ Are vitals the only data leaving the device?



Look for inclusivity and equitable performance

- ☐ How does the system perform across Fitzpatrick 1–6 skin tones?
- ☐ Is performance consistent across age groups and device types?
- ☐ Are there documented success rates in real-world lighting?



Compare breadth of insights

- ☐ Which vital signs are included today?
- ☐ Are trends, baselines, or risk markers supported?
- ☐ Can the system grow with your future needs?



Validate vendor claims through testing

- ☐ Request a sandbox or SDK trial.
- ☐ Run a small pilot with your actual users.
- ☐ Measure success rate, time-to-result, and failure rate.
- ☐ Evaluate responsiveness and quality of vendor support.



Evaluate cost vs. long-term value

- ☐ What is the measurement success rate?
- ☐ How likely are users to complete scans?
- ☐ What downstream value does the solution enable (retention, triage, underwriting accuracy, etc.)?



Final recommendation

Choose a vendor that delivers:

- ☐ strong, transparent accuracy
- ☐ low friction for users
- ☐ privacy-by-design architecture
- ☐ equitable performance for all demographics
- ☐ easy integration
- ☐ a roadmap aligned with your future needs

The best monitoring partner is the one that fits your workflows, serves your users, and can grow with your vision.