

# Pre-Shipment Appearance and Functional Inspection SOP

No.	Category	Inspection Item	Inspection Method
1	Connection and Basic Identification	3uTools Check	Connect the device to a computer and open 3uTools. Verify device recognition, basic device information, and whether any abnormal prompts are present.
2	Connection and Basic Identification	Charging Port Plug/Unplug Check	Repeatedly plug and unplug the charging connector to confirm the charging port responds properly and maintains stable contact.
3	Connection and Basic Identification	Bidirectional Charging Port Response	Test both insertion directions of the charging connector to rule out one-sided charging or one-sided contact issues.
4	Display and Touchscreen	Touchscreen Check by	Drag home screen icons across the display to verify there are no dead zones, missed touches, or ghost touches.
5	Display and Touchscreen	Gray Screen Burn-In / Aging	Open a gray background screen and check for aging, ghosting, burn-in, or display uniformity issues.
6	Display and Touchscreen	Gray Screen Status Bar Ghosting Check	On a gray screen, specifically check for ghosting from the signal/status bar area.
7	Display and Touchscreen	Gray Screen App Icon Ghosting Check	On a gray screen, check whether app icons or interface elements have left ghost images.
8	Display and Touchscreen	Solid Color Pixel Defect Check	Use gray, white, and other solid color backgrounds to inspect for colored pixels, bright spots, or dead pixels.
9	Display and Touchscreen	Solid Color Pressure Mark Check	Switch through solid color backgrounds and inspect for pressure marks, ripple patterns, or localized unevenness.
10	Display and Touchscreen	White Screen Display Uniformity Check	Switch to a white background to reconfirm display uniformity and check for ink leakage or color tinting.
11	Camera and Imaging	Rear Camera 0.5x Lens	Open the camera and switch to the 0.5x lens to confirm normal activation and image output.
12	Camera and Imaging	Rear Camera 1x Lens	Open the 1x lens and verify normal basic imaging performance.
13	Camera and Imaging	Rear Camera 2x Lens	Open the 2x lens or other telephoto ratios and confirm lens switching works normally.
14	Camera and Imaging	Rear Camera Zoom Range	Check every zoom ratio individually to avoid missing a fault affecting only one lens.
15	Camera and Imaging	Rear Camera Distance Focus Check	Focus on a distant object to evaluate long-range autofocus speed and image clarity.

16	Camera and Imaging	Portrait Mode Check	In Portrait mode, check each zoom ratio for black spots or imaging abnormalities, especially at 2x.
17	Camera and Imaging	Rear Camera Close-Up Focus Check	Switch to nearby objects to verify close-range or macro focusing performance.
18	Camera and Imaging	Rear Camera Pixel / Dead Pixel	Inspect rear camera images for colored spots, black dots, white dots, or obvious pixel defects.
19	Camera and Imaging	Front Camera Launch Check	Open the front camera and confirm normal activation and preview. Also inspect Portrait mode at different zoom ratios for black spots or imaging defects.
20	Camera and Imaging	Front Camera Pixel / Dead Pixel	Inspect the front camera image for colored spots, dead pixels, or other obvious abnormalities.
21	Camera and Imaging/Flash light	Photo Capture Check	Take photos using both the front and rear cameras and confirm normal capture and file saving, flash light should be working.
22	Camera and Imaging	Video Recording Check	Record video with both front and rear cameras and verify stable image capture.
23	Audio and Microphone	Voice Recording Playback Check	Record a short voice clip while speaking toward the device, then play it back to check for low volume, noise, or no audio.
24	Camera and Imaging	Video Audio Pickup Check	Review video playback audio to check for weak sound pickup, noise, or no audio.
25	Audio and Microphone	Bottom Microphone Recording Check	Use the bottom microphone for a recording test and check for low volume, noise, or no audio.
26	Sensors and Wireless	Compass Function Check	Open the Compass app and verify normal launch and operation.
27	Sensors and Wireless	Measure App / LiDAR Activation Check	Open the Measure app to help verify the condition of the LiDAR sensor or ultra-wide camera.
28	Sensors and Wireless	Wi-Fi Function Check	Enable Wi-Fi and scan for wireless networks to confirm the module is functioning properly.
29	Sensors and Wireless	Bluetooth Function Check	Enable Bluetooth and verify that nearby devices can be discovered normally.
30	Audio and Microphone	Earpiece Audio Check	Check the earpiece for low volume, noise, or no sound.
31	Audio and Microphone	Loudspeaker Playback Check	Play audio or recorded content and check the loudspeaker for distortion, noise, or low output.
32	Buttons and User	Mute Switch Check	Toggle the mute switch and confirm correct switching behavior and system feedback.
33	Buttons and User	Volume Up Button Check	Press the Volume Up button and check tactile feel, response, and rebound.
34	Buttons and User	Volume Down Button Check	Press the Volume Down button and check tactile feel, response, and rebound.

35	Buttons and User	Vibration Feedback Check	Use the mute switch or system prompts to verify that vibration feedback operates normally.
36	Buttons and User	Power Button Check	Check whether the Power button responds normally for locking and waking the screen.
37	Buttons and User Interaction	About Device Warning Prompt Check	Open the About page and check for abnormal prompts such as unknown parts or location-related component warnings.
38	Buttons and User	Face ID Enrollment Check	Verify whether Face ID can be enrolled successfully and facial data can be created normally.
39	System and Stability	Battery Health / Status Check	Check battery condition, including battery health, power drain behavior, and abnormal power consumption.
40	System and Stability	Low Power Mode Check	Check low-power related behavior and confirm it can be triggered normally.
41	Cellular Connectivity	Single SIM Recognition	For models with SIM support, verify that a single SIM can be recognized normally and that signal reception is normal.
42	Cellular Connectivity	Dual SIM / Both Slots Check	For dual-SIM models, test both card slots and confirm that both SIM cards work normally.
43	Sensors and Wireless	Proximity Sensor Check	During a call or simulated call state, cover the top sensor area and verify that the screen turns off normally.
44	System and Stability	Overall Device Heat Recheck	After all tests are complete, check the device temperature by hand. If abnormal overheating is detected, perform additional
45	Screen Appearance	Display Glass Scratches	Check whether the display glass has any scratches.
46	Frame Appearance	Frame Scratches	Check whether the phone frame has any scratches.
47	Display-to-Frame Fit	Display Protrusion, Gap, and Glue	Check whether the display protrudes abnormally above the frame, whether the gaps around all four sides are even and free of large gaps, and whether there is any glue overflow.
48	Rear Glass Appearance	Rear Glass Scratches	Check whether the rear glass has any scratches.
49	Rear Glass-to-Frame Fit	Rear Glass Protrusion, Gap, and Glue	Check whether the rear glass protrudes abnormally above the frame, whether the gaps around all four sides are even and free of large gaps, and whether there is any glue overflow.
50	Camera Module	Dust and Scratches	Check whether the camera lens cover glass has any scratches and whether there is any dust inside.