



MIUI 12

Yours alone

Kernel-level Technical Innovations

- Mi rendering engine
 - Advanced color blending
 - Real-time Gaussian blur
- Mi physics engine
 - Lifelike visual and tangible feedback
 - Simulates 3D curve

Design & Display

- System animations
 - G2 continuity curve seamlessly fitting hardware
 - Dynamically rounded corners
 - Layered icons that reflect movement trajectories
- Visualizations
 - Visualized status
 - Visualized data
- Upgraded control center
 - Control center
 - Notifications

Enhanced Privacy Protections

- Background permissions notifications
 - Alerts in status bar when apps access locations, microphone and camera
- High-risk permissions control
 - Provides restriction options for high-risk permissions
- Manages sensitive actions
 - Manages apps that request sensitive permissions
 - Stronger permission control on location, contacts, call history, calendar, storage, microphone
- Remove sensitive information on photos
 - Share without location information
 - Share without metadata

New features

- Floating windows
 - Open and close floating windows
 - Move floating windows
 - View in full screen
 - Minimize floating windows
- Casting
 - Minimize window
 - Cast with screen off
 - Hide private items
- Ultra battery saver
 - Restricts most power-consuming features to extend standby time
 - Maintains basic functions (e.g. calls, SMS, and network connection)
- App drawer
 - Place installed apps in App drawer
 - Sort apps by categories
- Dark mode
 - Supports system apps
 - Supports third-party apps
 - Options for individual apps
 - Adjusts contrast automatically



Enhanced privacy protection



Lifelike system animations and visualizations



A host of creative new features

Reinforced privacy protection makes the user informed and empowered

MIUI 12 brings enhanced privacy protection capabilities that will let the user stay informed of apps' behavior and take stronger control over permissions. MIUI 12 adds in a feature of permission notifications. Flaring alerts will appear in the status bar when sensitive apps including camera, location and microphone are running in the background. By clicking the alert, the user can change the permission settings and stop any suspicious background behaviors at any time. MIUI 12 grants the user stronger control over permissions which takes privacy protection to the next level. When individual apps ask for permissions, a wider range of options (such as "While using the app" and "Notify") is offered. Building on Android's rigorous permission control over location, MIUI 12 takes a step further to manage apps that request sensitive permissions. In addition to location, permissions to access camera, microphone, contacts, call history, calendar and storage are only allowed under "While using the app" mode. MIUI 12 also protects the user's privacy in photo sharing: location information and metadata can be removed before the items are sent.

Design and animations inspired by nature

MIUI 12 brings the OS experience to life with a revamped UI design and innovative system animations. System-wide, core scene animations are fully refreshed with kernel-level technical innovations. From the elegant opening and closing of apps to the smooth switching between apps, every detail mirrors a refreshing design methodology inspired by nature. With innovative system animations, MIUI 12 introduces a lifelike OS experience to users. By adopting realistic visualizations across the system, information and status are presented to users more efficiently and in a lively manner, making it easier to understand and keep track of the phone's operations. MIUI 12 introduces the visually stunning Super wallpapers featuring Mars and Earth, which artistically brings Home screen, Lock screen and Always-on display together into one immersive experience.

New features and improvements

- Floating windows: MIUI 12 brings state-of-the-art multitasking solutions to date with comprehensively enhanced floating windows. Once enabled, users can easily move, close, and minimize the floating windows with simple operations on the action bar.
- Casting: MIUI 12 provides users with a true presenter's starter kit with options including "Minimize window", "Cast with screen off" and "Hide private items".
- Ultra battery saver: With this feature on, most power consuming features will be restricted to extend the phone's standby time. Meanwhile essential functions such as calls, messages and network connectivity won't be affected to remain usable.
- Dark mode: The enhanced dark mode now adapts to both system apps and all third-party apps in MIUI 12. An option is offered to automatically adjust contrast to better fit into an ambient environment when brightness is reduced. Dark mode also reduces power consumption and helps to ease eye strain.
- App drawer: Once enabled, all installed apps will be placed in app drawer and users can customize their home screen and sort the apps by categories.

*Please refer to MIUI website for rollout schedule.