

UV Monitor App

Your Personal UV Exposure Assistant

Stay safe in the sun with real-time UV monitoring and personalized recommendations

Why UV Monitoring Matters

The Problem:

-  Generic weather apps give rough UV indices
-  Don't account for shade, clouds, or micro-environments
-  People don't track cumulative UV exposure
-  Overexposure increases skin cancer risk
-  Underexposure leads to vitamin D deficiency

The Solution:

Real-time, personalized UV monitoring with your own sensor device

What This App Does For You

-  **Real-time UV Monitoring** - Connect to your UV sensor via Bluetooth
-  **Personalized Recommendations** - Based on your skin type
-  **Historical Tracking** - View recent UV readings and trends
-  **Smart Alerts** - Get notified when UV levels are too high
-  **Skin Type Assessment** - Take a quick quiz for personalized advice

Getting Started

First Launch

When you first open the app, you'll see:

- The main UV Monitor dashboard
- A button to connect your UV sensor device
- Options to take the skin type quiz
- Your UV reading history (empty at first)

Tip: Take the skin type quiz first for the best experience!

Connecting Your UV Sensor

Step 1: Enable Bluetooth

1. Make sure Bluetooth is turned on
2. Grant the app Bluetooth and location permissions
3. Turn on your UV sensor device

Connecting Your UV Sensor

Step 2: Scan for Devices

1. Tap the "Connect Device" button in the app
2. Tap "Scan for Devices"
3. Wait a few seconds while the app searches
4. Your device will appear in the list

Connecting Your UV Sensor

Step 3: Pair Your Device

1. Tap on your device in the list
2. Wait for the connection to establish
3. Once connected, you'll see a green indicator
4. UV readings will start streaming automatically!

Troubleshooting:

- Device not appearing? Make sure it's within 10 feet
- Connection failing? Try turning Bluetooth off and on
- Still issues? Restart both the app and your sensor

Understanding the UV Monitor Screen

UV Monitor Features

Real-Time UV Display

- Large UV Index Number - Current UV reading
- Color-Coded Levels - Easy to understand at a glance
 -  Green (0-2): Low - Minimal protection needed
 -  Yellow (3-5): Moderate - Use sunscreen
 -  Orange (6-7): High - Protection required
 -  Red (8-10): Very High - Extra protection needed
 -  Purple (11+): Extreme - Avoid sun exposure

UV Monitor Features

Recent Readings History

- View your last 50 UV readings
- Track trends throughout the day
- See timestamp for each reading
- Data persists even when you close the app

Taking the Skin Type Quiz

Why Personalize?

UV tolerance varies greatly by:

-  Genetics and skin type
-  Eye and hair color
-  Tanning vs burning tendency
-  Recent sun exposure

Generic advice doesn't work for everyone!

Starting the Quiz

1. Tap "**Take Skin Type Quiz**" on the main screen
2. You'll see a welcome screen explaining the process
3. Tap "**Find my skin type**" to begin

Quiz Questions

The quiz asks about:

- Eye color
- Natural hair color
- Unexposed skin color
- Freckles
- Sun reaction (burning/tanning)
- Recent sun exposure

Takes just 2-3 minutes!

Understanding Your Results

After completing the quiz, you'll learn:

- **Your Skin Type** (Very Fair, Fair, Medium, Olive, Brown, or Dark)
- **Burn Time** - How quickly your skin burns
- **Characteristics** - What this means for you

Personalized Recommendations

Based on your skin type and current UV level, you'll receive:

Safe Exposure Times

- How long you can safely be in the sun
- Adjusted for your specific skin type

Protection Advice

- SPF recommendations
- Whether to seek shade
- Clothing suggestions
- Sunglasses and hat reminders

Example Recommendations

UV Index 3 (Moderate) + Medium Skin Type

-  Safe for 30 minutes
-  Use SPF 15+ sunscreen
-  Wear sunglasses on bright days

UV Index 9 (Very High) + Fair Skin Type

-  Safe for only 5-10 minutes
-  Use SPF 50+ sunscreen
-  Seek shade during midday
-  Wear protective clothing

Setting UV Alerts

Customize Your Threshold

1. Tap the settings icon
2. Adjust the **UV Alert Threshold** slider
3. Default is UV Index 6.0
4. You'll get a notification when UV exceeds this level

Tip: Set lower thresholds if you have fair skin or burn easily!

Managing Your Settings

Current Features:

-  UV alert threshold customization
-  Device connection management
-  Skin type quiz retake option
-  Clear reading history

Your Data:

- All readings stored locally on your device
- No cloud sync or external sharing
- Privacy-focused design

Tips for Best Results

1. Keep your sensor nearby for continuous monitoring
2. Retake the quiz if you've changed your routine or tanned
3. Check readings regularly throughout the day
4. Act on recommendations - they're personalized for you!
5. Battery life - Bluetooth connections can drain battery

Stay Safe in the Sun! ☀️

Key Takeaways

- 📱 Connect your UV sensor for real-time readings
- 💊 Take the skin type quiz for personalized advice
- 📈 Monitor your UV exposure throughout the day
- 🛡️ Follow the protection recommendations
- ⚡ Set alerts to stay aware of dangerous levels

Remember: A little prevention goes a long way for healthy skin!

Questions?

Need help? Check the app settings for more information or reach out to your instructor/developer team.

Enjoy your safer sun experience! ☀