

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! 🌞