

CrackCheck<sup>®</sup>



Changeable Lens



Android Based



Zooming

**Phoenix(PX) Series**  
**Smart LED UV Lamp with Camera**  
*Check the Crack with CrackCheck<sup>®</sup>*

# PHOENIX(PX) Series

## Smart LED UV Lamp with Camera

CrackCheck® PHOENIX (PX) Series UV LED lamp with Camera is a hand-held UV LED Lamp with white light and UV light emissions as per to ASTM E3022. PHOENIX boasts for its 12.8 Mega-Pixel HD Camera with UV filter and is a good mate to take photos or videos for the cracks. The intelligent operation system of PHOENIX is Android 4.4 and the data can be transmitted via Built-in Wi-Fi or Micro-USB. Two models are available: PHOENIX Standard and PHOENIX Pro. Changeable lens and filters are applicable for PHOENIX Pro for better imaging.



### IP 67 Protection

Water and dust proof. Durable under all conditions.



### Multiple Charging

Powered by both electrical mains and built-in batteries with power indication.



### • Models •

PX-45C Standard  
PX-45C Pro

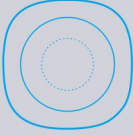


# Optical & Electrical Performance



## Safe and Pure UV-A

Safe and pure UV-A emissions with peak wavelength of 365-370nm. Negligible visible light to safeguard visual inspection.



## Wide and Uniform Beam

Wide coverage area and uniform beam with NO hot spots.



## Certified to meet International Standards

ASTM E1417, ASTM E1444, ASTM E709, ASTM E2297 and the latest ASTM E3022. Also compliant with RRES 90061 standards.

## Optical & Electrical Specification

Model	PX-45C (Standard/Pro)
LED	3 UV LEDs, 1 white light LED
Excitation Irradiance (347-382 nm)	Aviation Model 4500uw/cm <sup>2</sup> General Model 6000uw/cm <sup>2</sup>
Visible Light	< 5 Lux
Peak Wavelength	365-370 nm
Wavelength Drift (at elevated temperature)	≤ 5 nm
Emission Spectrum	
Full Width at Half Maximum (FWHM)	≤ 15 nm
Longest Wavelength at Half Max (LWHM)	≤ 377 nm
+/- Width at Half Maximum	≤ ± 8 nm
Full Width at 10% Maximum (FW10%)	≤ 25 nm
+/- Width at 10% Maximum	≤ ± 12 nm
Minimum Beam Diameter	170mm(≥ 1,000 uW/cm <sup>2</sup> UV-A intensity) 250mm(≥ 200 uW/cm <sup>2</sup> UV-A intensity)
Minimum Working Distances	WD ≤ 13 cm
Expected LED Lifespan	50,000 hours
Weight	820 g(Standard) / 880 g(Pro)
Power Supply Type	Battery and Mains
Battery Type	2* Rechargeable Lithium Battery(18650)
Electrical Mains	AC 110-240V 50/60Hz

# Camera & System Performance



## Smart Operation System

Customized Android system. Unlimited software Online. WiFi and USB transmission.



## Touch Screen: Zoom In & Out

Zoom In and Out. 12X magnification.  
Screen Resolution :720\*720.



## HD Camera with UV Filter

Customized Sony Camera Lens with 12.8 Mega-Pixel CCD.  
Built-in UV filter to avoid glare of photos.



## Camera & System Specification

Camera Pixel	12.8 Mega Pixels
Screen Dimension	3'
Screen Resolution	720*720
Touch Screen	Capacitive Screen, Multiple-touch
Internal Storage	32GB TF Card
Photo & Video	Playback Support
Button	Power, Select, Enter, Back
Data Transmission	USB, WiFi
White Balance	Automatic White Balance
Focus	Auto Focus Function
Other APP	Calculator, Email, Facebook, Twitter and more
Language	English, French, German, Italian and more
Operating System	Android 4.4