CrackCheck®

PHOENIX SERIES
Smart LED UV Lamp

Data Streaming

ASTM E3022
ISO 3059
RRES 90061
NADCAP
AITM6-1001

ASTM E2297
ASTM E3022
ASTM E1444
ASTM E1417
ISO 3059

A Smart UV LED Lamp Beyond Your Imagination

Phoenix Eye

Phoenix Supreme
with connection to Phoenix Eye

The Phoenix Supreme is the second generation of the Smart UV LED lamps innovated by CHiNDT. Based on the unique features of the first generation PX-45C, more cutting-edge technologies are incorporated into the Phoenix Supreme, such as real-time remote streaming, precise dimension measurement of small defects and UV or WL endoscopic viewing. These new features make the Phoenix Supreme not only a great tool for fluorescent inspections, but also an indispensable device for PSM-5 panel degradation tests and inner wall inspection of tubes. The newly added OTG function enables the Phoenix Supreme compatible with more intelligent hardware in the future!

Changeable Lens	Android-Based	Zooming Multiple Touch	Precise Measurement	PSM-5 Panel Degradation Test	UV/WL Endoscope

4.98mm

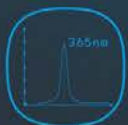|					
Main & Battery	Power Indicator	Real-time Data Stream	OTG Extension	Phoenix Eye– Dimension Measurement	Endoscope
Safe Spectrum	Large and Uniform Beam	Prime Standards Compliant	Android-Based	High Resolution	Customized Camera by Sony

365nm

ISO

android

ISO9001 CE RoHS

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Contact CHiNDT US team for product demonstration and trial!

About Phoenix Family

The **Phoenix Supreme** is the 2nd generation of the CrackCheck Smart UV LED Lamps. With the unique features inherited from the first generation PX-45C (perfect integration of UV LED lamp and Android OS), the Phoenix Supreme is also updated with new features like: OTG function, intelligent accessory connection, real-time data streaming, crack dimension measurement (connected with Phoenix Eye), etc.

The **Phoenix Eye** is a special crack dimension measurement and evaluation accessory compatible with the Phoenix Supreme with UV and white lighting, while at the same time can be connected with laptops as well. Linked with the Phoenix Supreme, the Phoenix Eye is able to work as an UV/WL endoscope and take photos of the finest cracks with a clear display and high resolution. The cracks can be measured through the built-in app in the Phoenix Supreme or our dedicated PC software.

Phoenix Supreme Features

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

- **Certified to Meet International Standards**

  ASTM E1417、ASTM E1444、ASTM E709、ASTM E2297、ASTM E3022, RRES90061

Camera & System Performance

- **Smart Operating System**

  Customized Android system. Unlimited online software. Wi-Fi, Bluetooth and USB transmission.

- **Real-time Data Streaming**
  - *Real-time data streaming via Wi-Fi and USB connections,*
  - *Special PC software designed for real-time graphic synchronization between a PC and the Phoenix Supreme.*
  - *Introduce the supportability of remote inspection and further analysis*
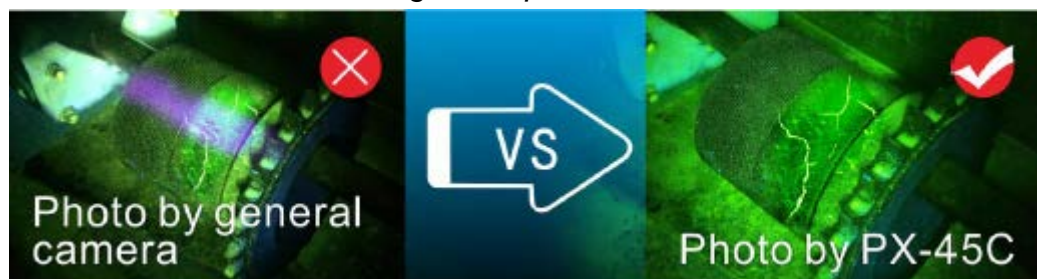
- **Crack Dimension Measurement**
  - *Crack dimension measurement through the Phoenix Eye and software on the Phoenix Supreme or on a PC.*
  - *Measurement Range:0.01-7mm*

- **Touch Screen: Zoom In & Out**
  - *Zoom in and out. 12X magnification*
  - *Screen Resolution: 720*720*

- **HD Camera with UV Filter**
  - *Customized Samsung Camera Lens with a 13 Mega-Pixel CCD.*
  - *Built-in UV filter to avoid glare of photos*

Extension Performance

- **OTG Function**
  - *Connects the Phoenix Supreme and Phoenix Eye.*
  - *Other potential extensions (Power bank, Monitor, USB data driver, etc.)*

Phoenix Eye Feature

- **Built-in High Resolution Camera**
  Customized Sony Camera with 2 Mega-Pixel CCD.
- **UV Light and White Light Switch**
  2 UV LEDs and 2 White Light LEDs
- **Adjustable Intensity**
  Continuous intensity adjustment for different fluorescent brightnesses for optimal graphic output
- **Paired with Phoenix Supreme or PC**
  - *Precise dimension measurement of fine defects*
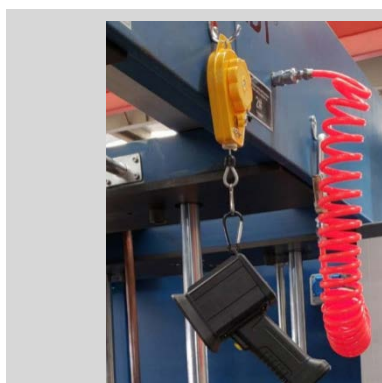 - *Great tool for PSM-5 (TAM) panel degradation test*
- **Endoscope**

Specification

Optical & Electrical Specification	
Model	PX-45C SUP
LED	3 UV LEDs, 1 White LED
Intensity	4500uw/cm^2 at 38 cm (15 in)
Visible Light	< 5Lux
Peak Wavelength	365-370nm
Minimum Beam Diameter	170mm(≥1000uw/cm2 UV-A intensity) 250mm(≥200uw/cm2 UV-A intensity)
Minimum Working Distance	≤13cm
Expected LED Lifespan	20,000 hours
Weight	880g (2 lb)
Power Supply Type	Battery and Mains
Battery Type	2* Rechargeable Lithium Battery(18650)
Electrical	AC 110-240V 50/60 Hz
Complies with ASTM E1417, ASTM E1444, ASTM E709, ASTM E2297, ASTM E3022, RRES90061	

Camera & System Specification	
Camera Pixel	13 Mega Pixels
Screen Dimension	3'
Screen Resolution	720*720
Touch Screen	Capacitive Screen, Multiple-touch
Internal Storage	32GB TF Card
Photo & Video	Playback Support
Data Transmission	USB, Wi-Fi, Bluetooth
White Balance	Automatic White Balance
Focus	Auto Focus and Manual Focus
APP	Special Designed APP for Dimension Measurement Unlimited Online APPs (Email, Facebook, Twitter, etc.)
Language	English, French, Germany, Italian, Chinese, etc.,
Operating System	Android 6.0
OS for PC Software	32 Bit Windows & 64 Bit Windows
Crack Measurement Range	0.01-7mm

Phoenix Eye Specification	
Camera Pixel	2 Mega Pixels
Power Source	Connect PC or Phoenix Supreme via USB
LED Source	2 UV LEDs, 2 White LEDs
Weight	300g

Phoenix Supreme Mounting Methods

Mounting with spring balance and hook

Mounting with CHiNDT FlexArm

Phoenix Supreme Accessories & Protection

UV Shield Glasses

UV Shield Mask

UV Shield Gloves

UV Shield Clothes

White Light and UV Meter

Phoenix Family Package

Safety Case

Phoenix Supreme

Phoenix Eye

Power Adapter

Battery Charger

Screw Driver

4 Rechargeable Batteries

UV Shield Glass

Lens

USB Cord