

Visual Inspection
TubeCamera
with
Portable 2.5" Wide Screen TFT-LCD Monitor



Quick Start Guide

CAUTION:

You are Cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

PRECAUTION:

Do not open or modify

Do not disassemble the device, as it may cause damage to the unit. For internal repairs, consult your dealer or an Authorized Service Centre.

PACKAGE:

Please make sure the following accessory content:

TuboCamera / 2.5" Portable LCD Monitor / DC Power Adapter (DC 5V 2A) / Video Cable (TV Out).

SYSTEM REMOVAL:

Carefully remove insertion tube from the internal storage reel and lift handset from storage case.

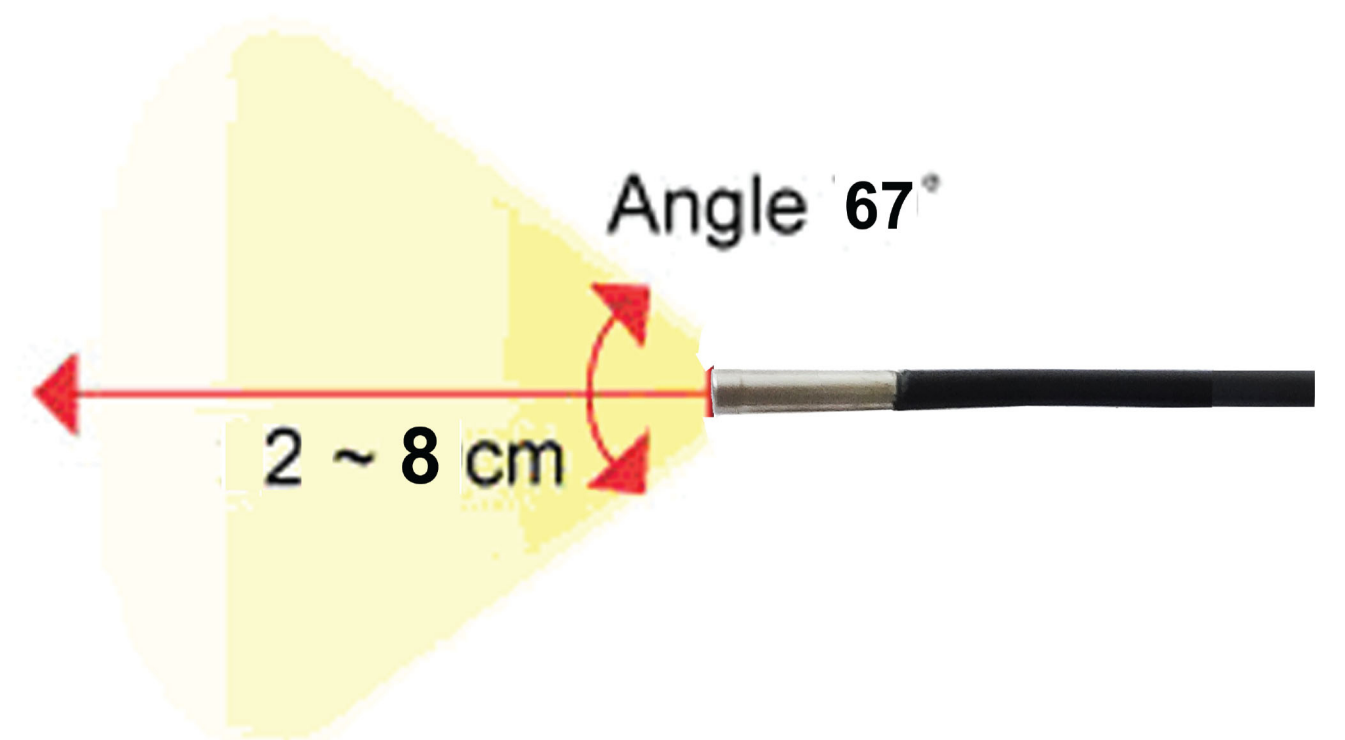
INDUSTRIES & APPLICATIONS

- ☆ **Security / Law Enforcement and Salvage.**
- ☆ **Air / Water Pipe Cleaning.**
- ☆ **Automotive.**
- ☆ **Aviation.**
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- ☆ **Engine Inspection**

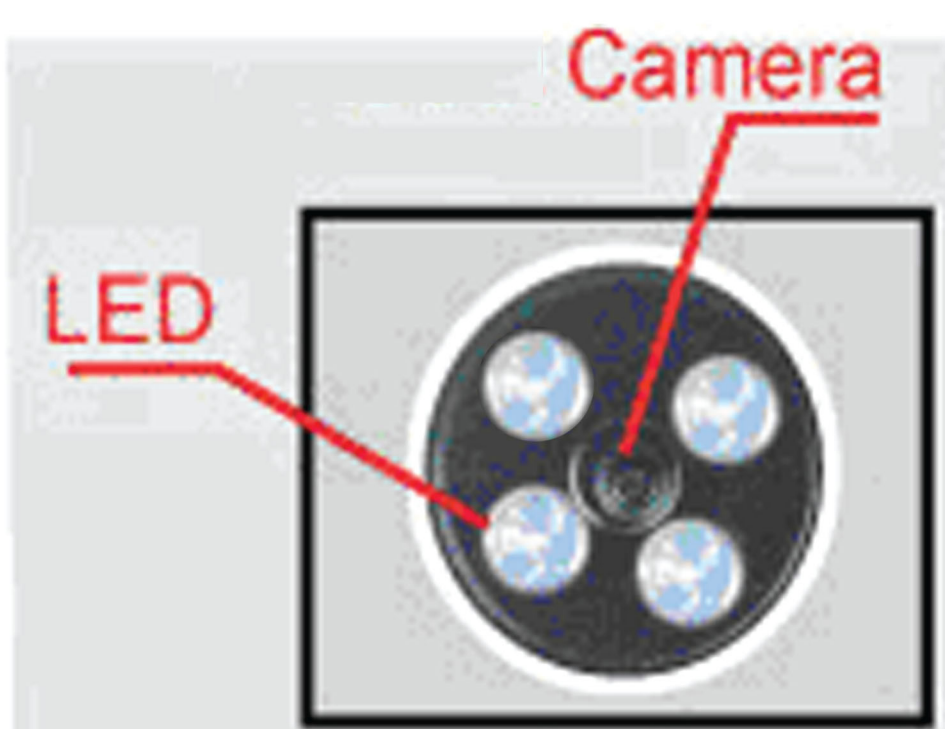
TUBOSCOPE & Portable 2.5" TFT-LCD Monitor

Properties and Feature:

- High Resolution up to 300,000pixels
- Wide visual viewing angle: 67° Degree
- Tube Cable length: 1m
- Long MTBF. 4pcs high intensity white LED, provide illumined adjusting.
- Durability in rigorous environment is improved.
- Camera cable Anti-leakage, corrosion.
- Camera distal flexible and able to bend in different direction.
- Provide military-grade M12 Water-Proof IP67 connector
- Portable 2.5inch Wide Screen TFT-LCD monitor.
- RCA type video output interface. Can be supplied to peripheral equipment such as video recorder, monitor...etc.
- High capacity rechargeable Li-Polymer battery built-in.
- Long time operation up to 4.5 ~ 5hrs.
- Video Display on the spot, 30fps/sec. Real Time.
- DC 5V Low Power Consumption.



Camera head: ϕ 5.5mm with 1m cable



4pcs High Illuminated LED surrounded.



Pliable and Stiff cable material

PARTS FUNCTION :



CHARGING BATTERY:

Plug AC to DC transformer into suitable AC power supply and connect DC output connector into Handset LCD Monitor (DC input flanked the handset). The battery's LED light will illuminate according to the charge attained. When fully charged, LED lights on battery will turn off.



Before first use, please fully charge the battery for 4 hours.

INSTALLATION:



Mistake-Proof Pin Design
M12 Type Water-Proof IP67 Connector

Connect the insertion tube with the portable LCD monitor. Place the unit facing inward and connect the insertion tube (marked with an arrow) by inserting it to the LCD monitor and screwed on. (Refer to picture)

★ **System Power On:** Switched the power switcher, LCD will light up, the system screen will display live video and screen prompts. The system is now ready for use.

TROUBLESHOOTING :

No Image on the LCD monitor after turn on the power:

If the battery is exhausted, turn power on and no action, please charge battery by AC Power Adapter.

No Image but LCD power is ON after turn on:

Please check connector if connected well.

No LED Light:

Please adjust the LED light adjustment.

SPECIFICATION:

Image Sensor	1/12 inch CMOS Chip		
Effective Pixels	720 (H) x 525(V) NTSC	720(H) x 625(V) PAL	
Resolution	More than 320 TVLines		
Effective Pixels	640 x 480		
Gamma	0.45		
LED Light	High Intensity WHITE LED's Light x 4pcs (Brightness Adjustable)		
LENS	1.8mm wide angle view lens		
Min. Illumination	0.5LUX @F1.8		
S/N Ratio	More than 45dB (AGC OFF)		
Camera Head Diameter	5.5mm	Cable Length	1M (Option: 1,3,5,10,20,30M)
Head Dimension	5.5mm(diam.) x 30mm (L)		
ViewAngle	67° Degree	Depth Field	2~ 8cm
Power Consumption	3.6V (±0.1V) 150mA	Storage Temp.	0°C ~ 65°C

WARRENTY / CARD

Customer: _____

Address: _____

Phone: _____

Fax: _____

Purchase Date: _____

Vendor Stamp:

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