

Delivering precise articulation control, portability and ease of use for following

Automotive:

OA/OC and assembly inspections for engines, frames, sub-assemblies and components.

HVAC:

Inspection of boiler tubes, heat exchangers, valves, pipe welds and ducts.

Industrial Machinery:

Inspection and repair of gear boxes, conveyors, hydraulic systems and engines.

Power Generation:

Turbine and reciprocating engine inspections, heat exchangers, pipe corrosion, weld integrity inspections.

Engineering / Construction:

Internal inspections of walls, ceilings and floors, Structural inspections of bridges, tunnels and foundations.

Water Treatment Facilities:

Corrosion and condition inspections of pipes, joints, valves and pressure vessels.

Research / Security / Other Fields:

Police, Military, R&D, education, food and chemical processing.

Railway / Shipping / Aviation :

Inspection and repair of turbine, gasoline and diesel engines, along with structural components, airframes and ground support equipment.

Specifications

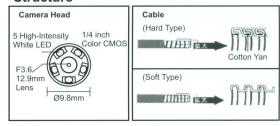
| Insertion Tube | Outer Diameter | Ø 3.9mm | Ø 6.9 mm | |
|--|---|--|--|--|
| insertion rube | Length (meter/inch) | 1.5m (59") | 1.5m (59") / 3.0m (118") / *5.0m (197") | |
| | Exterior | Stainless Steel Braid | Stainless Steel Braid | |
| | Waterproof | Insertion Tube and Tip | Insertion Tube and Tip | |
| | Chemical Compatibility | Machine Oil, Heating Oil, Engine Oil, 3.5% Concentrated saltwater, Diesel Fuel | Machine Oil, Heating Oil, Engine Oil, 3.5% Concentrated saltwater, Diesel Fuel | |
| Optics | Field of View (HV) | 70° / 70° | 72° / 54° | |
| | F No. | F 5.3 | F 6.0 | |
| | Depth of Field | 15mm ~ ∞ | 15mm ~ ∞ | |
| | Illumination Method | 6 Super High-Intensity White LEDs | 4 Super High-Intensity White LEDs | |
| Articulation | Articulation Angle | 360°(over 90°in every direction) | 360°(over 90°in every direction) | |
| | Articulation Control | Joystick with "Direct Control" Mechanism | Joystick with "Direct Control" Mechanism | |
| | Rigid Distal End Length | 13mm | 15mm | |
| LCD Monitor | | 3.5 inch Color Digital LCD | 3.5 inch Color Digital TFT | |
| Observation Function | | N/A | 2x Digiţal Zoom | |
| | | N/A | External Temperature Display (Celsius/Fahrenheit) | |
| | | N/A | Temperature Alarm Display | |
| LED Output Adjustment | | 5 Levels | 5 Levels | |
| Still Capture / Record Function | | Still Image (No LED Flash Capturing) | LED Flash Capturing (Still image) | |
| | | Time-lapse Recording (Video) | Time-lapse Recording (Video) | |
| Input / Output Terminal | | Ø 2.5m Stereo Mini Jack for RCA Video Output (NTSC/PAL) | Ø 2.5m Stereo Mini Jack for RCA Video Output (NTSC/PAL) | |
| | USB Output | Mini B Terminal Ver. 2.0 Video Capture Output (Includes Driver / Viewer Software) | Mini B Terminal Ver. 2.0 Video Capture Output (Includes Driver / Viewer Software) Monaural Flat Jack for Hands-free Earphone | |
| | Audio Output | Monaural Flat Jack for Hands-free Earphone | | |
| | Microphone Input | Monaural Flat Jack for Hands-free Microphone | Monaural Flat Jack for Hands-free Microphone | |
| Storage | Storage Media | MicroSD Card (Max. 2GB) | MicroSD Card (Max. 2GB) | |
| | Still Image | JPEG 400x400 pixels | JPEG 640x480 pixels | |
| | Video | Motion JPEG (AVI file extension) 400x400 pixels 15~30fps Voice recording function via the attached microphone | Motion JPEG (AVI file extension) 640x480 pixels 15~30fps Voice recording function via the attached microphone | |
| | Storage Capacity (with 1GB MicroSD Card) | Still Image: Max. 500 pictures Movie Recording Approx 60 minutes (Normal Mode) / Approx 9 hours (Time-lapse Mode) | Still Image: Max. 500 pictures Movie Recording Approx 60 minute Normal Mode / Approx 9 hours (Time-lapse Mode) | |
| Playback Function | | Still Image : Thumbnail 9-image Display/Full Screen Display Video : Play, Pause | Still Image : Thumbnail 9-image Display/Full Screen Display Video : Play, Pause | |
| Menu Operation | | Image Adjustment (Brightness, Contrast, Hue, Sharpness) | Image Adjustment (Brightness, Contrast, Hue, Sharpness) | |
| | | Delete Stored Image | Delete Stored Image | |
| | | Time and Date Setting | Time and Date Setting | |
| | | Language : Japanese/English | Language : Japanese/English | |
| | | USB Mass Storage | USB Mass Storage | |
| Operating Temperature (Insertion Tube) | | In Air:-30°C~60°C (-22°F~140°F) In Liquid : 10°C~30°C (50°F~86°F) | In Air:-30°C~60°C (22°F~140°F) In Liquid : 10°C~30°C (50°F~86°F) | |
| Power Suply | DC | DC 6V (four AA alkaline batteries) | DC 6V (four AA alkaline batteries) | |
| | AC | 100V~240V | 100V~240V | |
| Operating Time | | Max. 1.5 hours (with four AA alkaline batteries) | Max. 1.5 hours (with four AA alkaline batteries) | |
| Weight | | 480g (without batteries at 1.5m length) | 570g / 20 oz (without batteries at 1.5m length) | |
| Carrying Case | | 495 x 420 x 145 mm | 495 x 420 x 145 mm (19 x 17 x 5 inch) | |

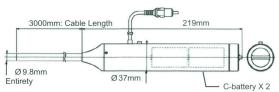
| A VAL | UE | BASED | ON | TRUST |
|-------|----|-------|----|--------------|

| Insertion Tube | Outer Diameter | Ø 9.8 mm | | |
|----------------|-------------------------------|---|--|--|
| | Length (meter/inch) | Standard:: 3m(118") | | |
| | | Possible extension up to 30m (98"5") | | |
| | Armor | Polyurethane | | |
| | Waterproof | Insertion tube and tip | | |
| Light | View Angle | 63"/49" | | |
| Source | Lens | f=2.9mm | | |
| | F No. | F 3.6 | | |
| | Focal Distance | 40mm(±10mm) | | |
| | Luminance | 7500mcd | | |
| Camera | Image Sensor | 1/4inch CMOS | | |
| | Total Pixels | 811 (H) X 508 (V) | | |
| | Effective Pixels | 768 (H) X 494 (V) | | |
| | Pixel Size (H X V) | 7.86µm(H) X 6.25µm(V) | | |
| | Effective Sensor Size (H X V) | 3.6mm (H) X 2.7mm(V) | | |
| | Resolution | 525(H) X 480(V) TV | | |
| | Brightness | AGC 0 to + 24dB | | |
| | Normal Shutter | AEC 1/60 sec to 1/15,000sec | | |
| Hand-Piece | Signal System | NTSC (15.734kHz/59.94Hz) | | |
| | Synchronizing | Internal Synchronizing | | |
| | Wireless Output | 1.2GHz microwave | | |
| | Operating Temp | -10°C to 40°C | | |
| | Video S/N Ratio | 45dB | | |
| | Power Supply | C-battery X2 | | |
| | Operating Time | 10 hrs max. | | |
| | Power Consumption | 360mA | | |
| | Weight | 738g (1.6 lb) *Batteries are not Includ | | |



Structure







Inspired by dreams.

RF SYSTEM lab.

Nagano, Japan

CHINO

Corporation India

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