

FOREEYES 2020X2 PORTABLE VIDEO INSPECTION AND RECORDING UNIT IS NOW AVAILABLE WITH SMALL (6 OR 8MM) DIAMETER VIDEOSCOPIES FOR REMOTE VIDEO INSPECTION (RVI) APPLICATIONS.

DZ SERIES VIDEOSCOPIES; ADVANCED, PORTABLE AND ECONOMICAL

From Danatronics, a global manufacturer of industrial Remote Visual Inspection (RVI) and Ultrasonic Testing (U.T.) equipment, comes an advanced and portable Videoscope system that directly interfaces with the ForeEyes 2020X2 portable video inspection and recording unit.



For more information, call us at
978-777-0081 or email
sales@danatronics.com

or visit www.danatronics.com/dzseries
to arrange a demonstration.

■ TYPICAL APPLICATIONS

Jet Engine Inspection (on or off-wing), Airframes, Heat Exchangers, Boiler Tubes, Gas Turbines, Gear Boxes, Fuse Boxes, Re-circulator pumps, as well as covert and underwater applications.

■ It's PORTABLE

The ForeEyes 2020X2 weighs 2.4 lbs (1.09 kg), operates for up to four hours, and can display and record the equivalent to 80 full-length movies with narration, thanks to its built in 40 GB hard drive and 7.0 inch color TFT, or optional 3.8 inch display offered with 80 GB for 4 times the memory.

■ It's EASY TO USE

A single cable connects DZ Series Videoscopes to the ForeEyes 2020X2. The ForeEyes can be used with its unique carrying pouch and configured as a chest harness allowing one hand free to climb ladders and control the articulation of the Videoscopes. Best of all, the Videoscopes are interchangeable; any DZ Series Videoscope can be used with the ForeEyes.

■ It's ROBUST

The DZ Series Videoscope handpiece chassis is made of metal. Insertion tubes are sheathed with hard wearing tungsten braid.

■ It's ADVANCED

The latest in CCD (Charge-coupled device) solid-state camera and Metal-Halide lamp technology provide bright, high resolution images on the large TFT-LCD display. A built in hard drive video image storage and a USB port make image and audio recording simple.

■ It's AFFORDABLE

Ask your local sales representative for prices and we're sure you'll agree, It's Affordable!



ForeEyes™ 2020X2 Technical Specifications

| | | | | | | | | | |
|--------------------------------------|--|-----------------|---------|-----------------|---------|----------------|---------|----------------|---------|
| General ForeEyes 2020X2 | <ul style="list-style-type: none"> ■ 7 in (177.8 mm) color VGA-LCD available in 40 and 100 GB models ■ Record 160 hours of Video Inspection or the equivalent of up to 80 full-length movies with narration ■ Transfer recordings to and from your computer through a USB cable and simple transfer process ■ 480 x 234 color pixels, 262,000 color combinations ■ Anti-glare screen with backlight brightness adjustment High/Low and adjustable Contrast, Color and Hue ■ Video input/output- NTSC (60Hz.) or PAL (50 Hz.) ■ Video I/O port for heads-up display and external monitors ■ Total system weight - 2.4 lbs (1.09 kg) ■ Power requirements: AC Nominal input: 100-240 V, DC nominal input: 12V ■ System operating temperature -32°F to 122°F (0°C to 50°C) | | | | | | | | |
| Camera | <ul style="list-style-type: none"> ■ 1.2 in (3.0 cm) diameter removable CCD Camera with 4 White light LEDs and 16 variable adjustment ■ 512 x 492 Resolution with a 46 degree Field of View and a sensitivity of 10 lux ■ Waterproof to 100 ft (33m) | | | | | | | | |
| Power System | <ul style="list-style-type: none"> ■ Up to 4 hours continuous operation ■ Rechargeable Li-Ion for pocket recorder and rechargeable NimH batteries for the ForeEyes interface box ■ AC adapter is used to charge both the Pocket Recorder and ForeEyes interface box simultaneously ■ Low Battery indicator for pocket recorder and ForeEyes interface box | | | | | | | | |
| Attachments & Accessories | <ul style="list-style-type: none"> ■ Standard wand is 18 in (45.7 cm) length with 90 degree one way articulation and sure-grip handle ■ C-Mount Camera and eyepiece interface ■ 4 ft (1.2 m) flexible cable available also available in 30 and 100 feet ■ Telescopic expandable wands available in 2 to 4 feet, 4 to 7 feet and 8 to 15 feet ■ Convenient hand strap and Chest Harness included and sunshade for optimal viewing in the sun ■ Comes with Plastic Carrying case to hold parts and accessories | | | | | | | | |
| General DZ | <ul style="list-style-type: none"> ■ 6mm and 8mm Videoscopes available in a variety of lengths (see chart below) ■ Available with 2 or 4 way articulation or no articulation ■ Interchangeable AC and DC powered options available depending on length, diameter reflection and application ■ Metal Halide Light Source for AC powered inspections ■ Brilliant white LED Light Source for DC powered, completely portable inspections* ■ Videoscopes can be powered through ForeEyes interface box or through AC adapter ■ Side view prism tips also available ■ From remote tip to the handpiece, all DZ series scopes will withstand immersion in water, mineral and synthetic lubricating oils and hydraulic fuels, aviation fuel, kerosene, gasoline and diesel fuel <p style="font-size: small;">*Recommended for videoscopes up to 3 meters, dependent upon diameter, reflection and application</p> | | | | | | | | |
| Videoscope Resolution | <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">6mm NTSC</td> <td style="width: 25%;">410,000</td> <td style="width: 25%;">8mm NTSC</td> <td style="width: 25%;">270,000</td> </tr> <tr> <td>6mm PAL</td> <td>470,000</td> <td>8mm PAL</td> <td>320,000</td> </tr> </table> | 6mm NTSC | 410,000 | 8mm NTSC | 270,000 | 6mm PAL | 470,000 | 8mm PAL | 320,000 |
| 6mm NTSC | 410,000 | 8mm NTSC | 270,000 | | | | | | |
| 6mm PAL | 470,000 | 8mm PAL | 320,000 | | | | | | |
| Warranty | <ul style="list-style-type: none"> ■ One Year on parts and labor under recommended use for electronics; 90 days for all cameras. Articulation and light fibers excluded from warranty. Warranty applies to both FE2020X2 and the DZ. | | | | | | | | |



DZ Lite with battery operated brilliant white LED's and interchangeable with light guide cable to AC metal halide light source shown below.



24 watt AC metal halide light source with variable adjustments.

| Model | Diameter | Working Length | Articulation | Direction of View | Side View Prism Tip | Field of View |
|---------------------------------|------------------|-----------------|--------------|-------------------|---------------------|---------------|
| 6mm with articulation | | | | | | |
| DZ4-6-150 | 6.0mm (0.236 in) | 1.5m (4.9 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| DZ4-6-200 | 6.0mm (0.236 in) | 2.0m (6.6 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| DZ4-6-300 | 6.0mm (0.236 in) | 3.0 (9.8 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| DZ4-6-600 | 6.0mm (0.236 in) | 6.0 (19.7 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| 6mm with no articulation | | | | | | |
| DZ0-6-600 | 6.0mm (0.236 in) | 6.0m (19.7 ft) | None | 0° Forward | Yes | 58°/90° * |
| DZ0-6-800 | 6.0mm (0.236 in) | 8.0m (26.3 ft) | None | 0° Forward | Yes | 58°/90° * |
| DZ0-6-1200 | 6.0mm (0.236 in) | 12.0m (39.4 ft) | None | 0° Forward | Yes | 58°/90° * |
| DZ0-6-1500 | 6.0mm (0.236 in) | 15.0m (49.2 ft) | None | 0° Forward | Yes | 58°/90° * |
| 8mm with articulation | | | | | | |
| DZ2-8-100 | 8.0mm (0.315 in) | 1.0m (3.3 ft) | 2-way | 0° Forward | Yes | 58° |
| DZ2-8-150 | 8.0mm (0.315 in) | 1.5m (4.9 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| DZ2-8-200 | 8.0mm (0.315 in) | 2.0m (6.6 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| DZ2-8-300 | 8.0mm (0.315 in) | 3.0m (9.8 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| DZ2-8-500 | 8.0mm (0.315 in) | 5.0m (16.4 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| DZ2-8-600 | 8.0mm (0.315 in) | 6.0m (19.7 ft) | 4-way | 0° Forward | Yes | 58°/90° * |
| 8mm with no articulation | | | | | | |
| DZ0-8-600 | 8.0mm (0.315 in) | 6.0m (19.7 ft) | None | 0° Forward | Yes | 58°/90° * |
| DZ0-8-800 | 8.0mm (0.315 in) | 8.0m (26.3 ft) | None | 0° Forward | Yes | 58°/90° * |
| DZ0-8-1200 | 8.0mm (0.315 in) | 12.0m (39.4 ft) | None | 0° Forward | Yes | 58°/90° * |
| DZ0-8-1500 | 8.0mm (0.315 in) | 15.0m (49.2 ft) | None | 0° Forward | Yes | 58°/90° * |

*These Videoscopes are supplied with two forward view Objective Lenses (58° Black & 90° Red). Other Objective Lenses are available for special applications.

Specifications for the DZ Series are subject to change for product improvement without notice.