

Operation Manual

OM_EcoKit_EN_01

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Please read this information carefully before operating!

Read the operating manual carefully before using the iFlex Fiberscope.

EcoKits by IT Concepts are designed for a diversified field of applications in industry, building and science.

Caution! The EcoKits have not to be used in specially designated or prohibited areas (e.g. explosion prevention).

Caution! The EcoKits have to be employed by skilled and qualified personnel appropriate to the application. Only use the EcoKits as intended.

Scope and light source are not water resistant.

Description

IT Concepts portable EcoKits offer more performance for less money than any other comparable product! The Kits are available in the following versions:

| Itemnumber | Version |
|-------------------|--|
| 305-15020-0041 | Rigid Ecokit 200 <ul style="list-style-type: none">- rigid Borescope KL5.5-200 (Ø: 5.5mm / L: 200mm / DOV: 0° - 90° (Ø:6.5mm) / FOV: 55°)- 90° side view prism tip- 3W LED-Light source- Eco carrying case |
| 305-15040-0041 | Rigid Ecokit 400 <ul style="list-style-type: none">- rigid Borescope KL5.5-400 (Ø: 5.5mm / L: 400mm / DOV: 0° - 90° (Ø:6.5mm) / FOV: 55°)- 90° side view prism tip- 3W LED-Light source- Eco carrying case |
| 305-08006-0055 | Flexible EcoKit I <ul style="list-style-type: none">- Semi flexible Fiberscope 24AK-K (Ø: 8.0mm / L: 660mm / DOV: 0° - 90° / FOV: 60°)- 90° side view mirror tip- 3W LED Light Source- Eco carrying case |
| 305-08006-0056 | Flexible EcoKit II <ul style="list-style-type: none">- Semi flexible Fiberscope 24AK-K (Ø: 8.0mm / L: 660mm / DOV: 0° - 90° / FOV: 60°)- 90° side view mirror tip- 75W Halogen light source- Light guide cable ^{3.0} (Ø: 3.0mm / L: 1,800mm)- Eco carrying case |
| 104-28006-0051 | Flexible articulating EcoKit <ul style="list-style-type: none">- Semi flexible articulating Fiberscope 24AK-AS (Ø: 8.0mm / L: 660mm / DOV: 0° / FOV: 60° / articulation ±120°)- 75W Halogen light source- Light guide ^{3.0} (Ø: 3.0mm / L: 1,800mm)- System carrying case |

For digital image capturing CCD & digital Cameras can be mounted with several adapters available in the IT Concepts product range. The shown pictures can be rendered to Monitors and LCD Screens. This combination of integrated technologies amounts to a robust, easy-to-use and versatile remote visual inspection tool.

Operation

a.) Connection of the Light Source

EcoKit with LED light source:

For connecting the light source to the scope take out the 3W LED light source and the scope of the foam fitted case. Screw the light source on the thread of the light post from the scope until the end. The light post has a ACMI Adapter witch provides the attachment of different light sources with an external light guide Cable

b.) Operation with 90° Side view tip

Rigid EcoKit 200 and 400:

The 90° Prism in Prism Side View Sleeve is intend for side view inspections like pipelines or cavities. For connecting the 90° Side View Sleeve to the Scope take the sleeve and the scope out of the foam fitted case. Put the insertion tube of the scope in the sleeve until the sleeve locks at the end of the scope. During the inspection the Prism in Prism sleeve can easily rotate with one hand.

EcoKit with 75W Halogen light source:

For connecting the light source to the scope take out the 75W Halogen light source and the scope of the foam fitted case. Connect light source with the AC adapter to the power line and connect the adapter plugs of the external light guide cable to the light post of the fiberscope and to the light port of the 75W Metal Halide light source.

Flexible EcoKit I and II:

The 90° Side View Mirror Tip is intend for side view inspections like in pipelines or in small cavities. For connecting the 90° Side View Mirror Tip to the Scope, take the Tip and the scope out of the foam fitted case. Release the thread protection ring of the distal end of the scope and screw the 90 Side View Mirror Tip up to the end.

Care and Storage

a.) Care

Wipe dust and dirt off with a soft cloth or paper towel. Clean the end tip with a Q-Tip® damped in alcohol. Do not use abrasive or soiled cloth for cleaning! Wipe dust and dirt off with a soft cloth or paper towel. Please clean Ecokit after every inspection. Failing to clean the Fiberscope could lead to rust and damage.

b.) Storage

EcoKit with LED light source:

Due to the bright LED the user is not forced to replace the bulb of the light source. The Light Source is powered by 4 AA standard batteries. To replace the batteries unfasten the housing screw and slowly remove the housing of the light source. Please notice the polarity of the batteries before replacing them.

EcoKit with 75W Halogen light source:

To avoid injuries please allow the lamp to cool down before replacing it. Please only use original authorized dealer supplied replacement lamps.

Turn the light source off and unplug the power supply. Remove the 2 screws on each side of the housing and pull the front plate

including light port adapter and lamp slowly and carefully out of the housing. Push the lamp slightly backwards out of the frame and the retaining springs and disconnect the plug. Connect the new lamp to the plug, push it carefully into the frame and the retaining

springs, regarding that the alignment pin fits into the bottom slot of the frame. Replace the housing cover, fasten the 2 housing screws on each side of the housing again.

Technical Specifications

Scope:

| EcoKit: | Type: | Description: |
|------------------------------|--------------|---|
| Rigid EcoKit 200 | KL 5.5 - 200 | 5.5 x 200mm, rigid stainless steel Insertion Tube, Light post: ACMI |
| Rigid EcoKit 400 | KL 5.5 - 400 | 5.5 x 400mm, rigid stainless steel Insertion Tube, Light post: ACMI |
| Flexible EcoKit I / II | 24AK-K | 8.0 x 660mm, semi flexible stainless steel Insertion Tube, Light post: ACMI |
| Flexible articulating EcoKit | 24-AK-AS | 8.0 x 660mm, semi flexible stainless steel insertion Tube, Articulation: $\pm 120^\circ$, Light post: ACMI |

Light source:

| Type: | Description: |
|--------------------------|---|
| 3W LED Light Handle | 3W LED Light Handel powered by 4 pcs. AA standard batteries, Light guide adapter: ACMI |
| 75W Halogen Light Source | 75W Halogen Light Source with 12V DC / 8,25A AC Adapter, Light guide adapter: IT Concepts |

90° Side view tip adapter:

| EcoKit: | Type: | Description: |
|------------------------|------------|---|
| Rigid EcoKit 200 / 400 | Prism Tube | 90° Side View Prism Tube, outer - \varnothing : 6.5mm |
| Flexible EcoKit I / II | Mirror Tip | 90° Side View Mirror Tip, outer - \varnothing : 8.0mm |

Accessories

900-02001-0006 Colour video camera (PAL) - with 5pin-connector
 900-02001-0005 Colour video camera (PAL) - with 5pin-connector and Image Capture function
 900-02001-0007 USB 2.0 Colour video camera

900-04001-0001 F16 Video adapter
 900-04001-0002 F25 Video adapter
 900-04001-0003 F35 Video adapter
 900-04001-0004 F40 Video adapter
 900-04001-0007 FXX Video-zoom-adapter

930-00500-0001-P Video cable Type I ^{1.8}
 930-00500-0017 Video cable Type I ^{3.0}
 930-00500-0002-V Video cable Type II

900-02002-0004 Palm view hand held monitor

900-06000-0030-V powerBelt
 900-05000-0005 Charger for powerBelt
 900-05000-0023 mobile Chrager for powerBelt
 900-05000-0027 2-pin power outlet cable for powerBelt

Product Return

To help us to efficiently execute any maintenance or repair of the product, we ask you to download the Service Form "Product Return" from our homepage www.itcworld.de or to fill it out online.

Please fill out the questionnaire as detailed as possible and send it to our address together with the product.

IT Concepts GmbH
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D - 35633 Lahnau

Disposal

This device has to be disposed separately from domestic waste. After the end of its useful service life you have to send it back to the producer or your local dealer.



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